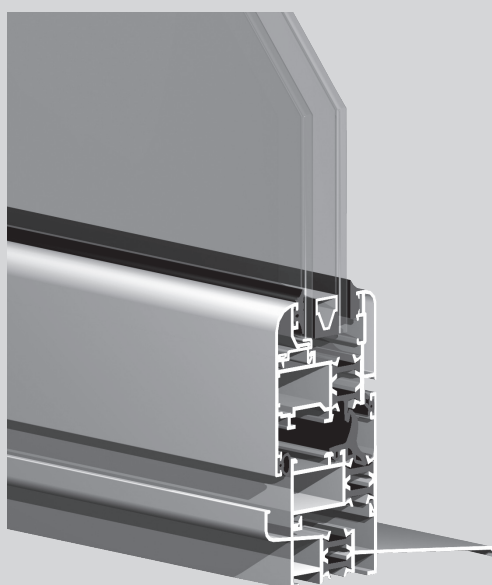


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Sistema
AXi

Sistema AXi

Sistema de batente com RPT - 45 mm

Características do sistema

Sistema de batente com rotura térmica e de elevadas prestações térmicas e acústicas.

O sistema AXi possibilita a execução de 4 versões de caixilharia:

1. linha recta;
2. linha curva;
3. linha tradição;
4. linha oval.

O sistema AXi permite a aplicação de vidros duplos de alto rendimento de modo a responder às exigências de isolamento térmico e acústico.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Perfis com rotura térmica obtida por inserção de varetas isolantes de poliamida de 14.6 mm reforçadas com 25% de fibra de vidro.

Espessura média dos perfis de alumínio de 1.5 mm para janelas e de 1.7 mm para portas.

Aros fixos

Secção dos aros fixos de 45 mm ou 70 mm;

Aros fixos com esquadro para montagem a meia esquadria;

Aros fixos tradicionais para mercado interno;

Aros fixos com clip exterior e aba de remate direta de 25 mm ou 45 mm;

Aros fixos com clip exterior e interior para aplicação de remate de 30 mm.

Aros móveis

Secção dos aros móveis de 53 mm;

Enchimento para vidro simples ou duplo de 4 mm a 37 mm;

Aros móveis de linha recta, curva, tradição ou oval (sem bite);

Aros móveis com esquadro para montagem a meia esquadria;

Perfil inversor de linha recta.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 400 mm - 1500 mm (L); 400 mm - 2700 mm (H);

Possibilidades de abertura: fixo, batente interior 1 ou 2 folhas com oscilo-batente, exterior, basculante, projectante, pivotante, harmónio e oscilo-paralela;

Estanquidade assegurada através de juntas triplas em EPDM;

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema AXi tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E900 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema AX tipologia porta:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 8A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C3 (norma de ensaio EN 12211)
4. Resistência à torção estática: Apto 350N (norma de ensaio EN 14609)

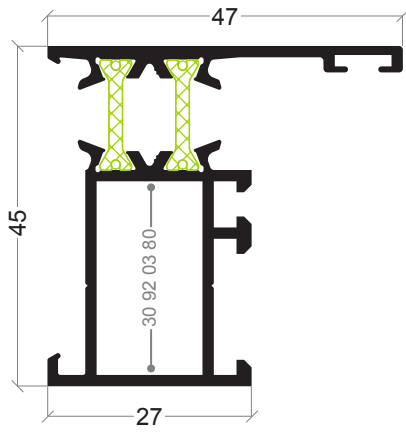
Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 1.50 m com vidro $U_g = 0.7 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.72 \text{ W/m}^2\text{K}$

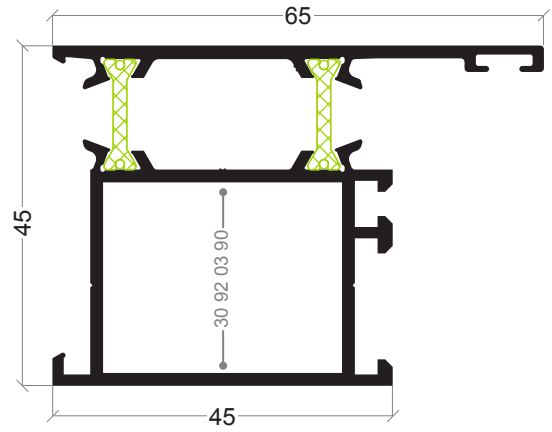
Coefficiente de atenuação acústica de vão de 2 folha com vidro 4/14/6:

• $R_w (C; C_{tr}) = 34 \text{ dB} (-1; -4)$

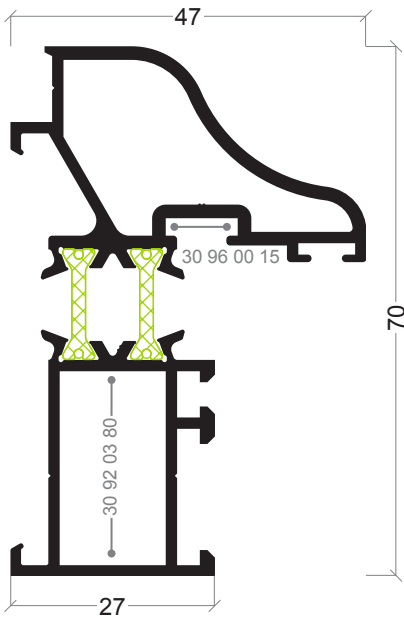
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3.



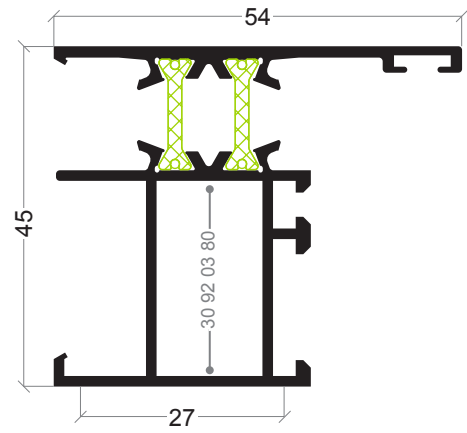
AXi-03
Aro fixo



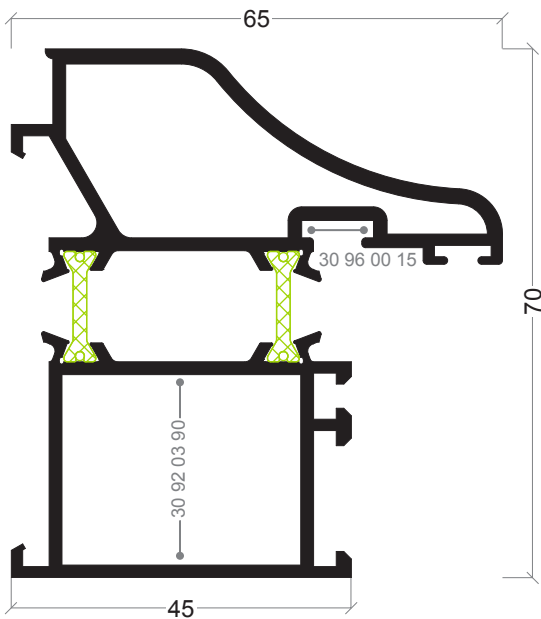
AXi-08
Aro fixo



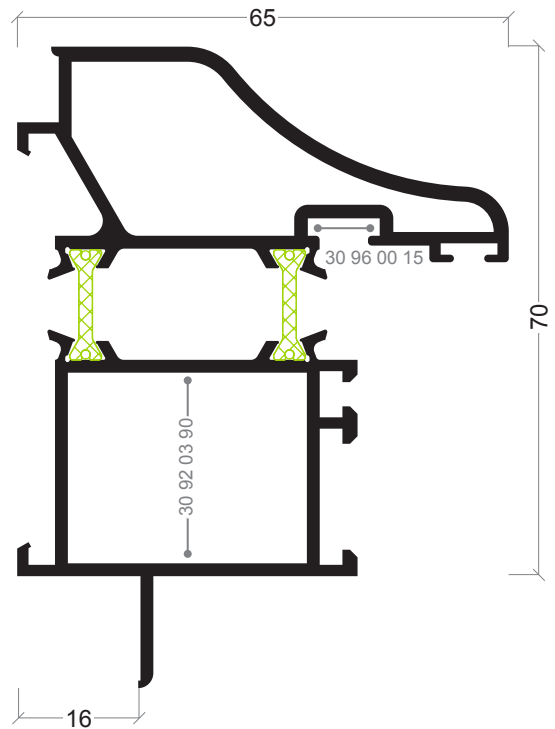
AXi-49
Aro fixo



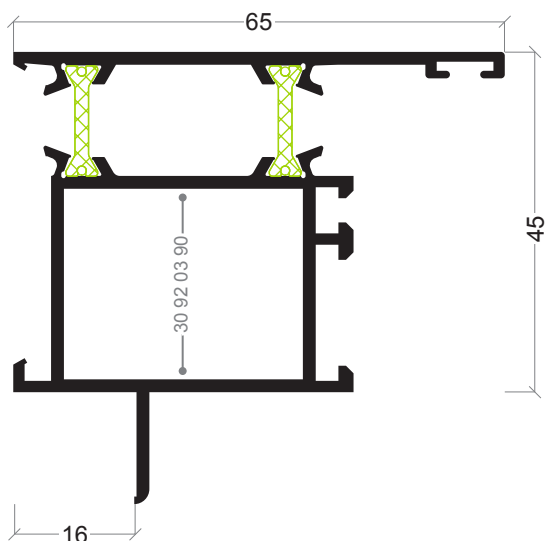
AXi-81
Aro fixo



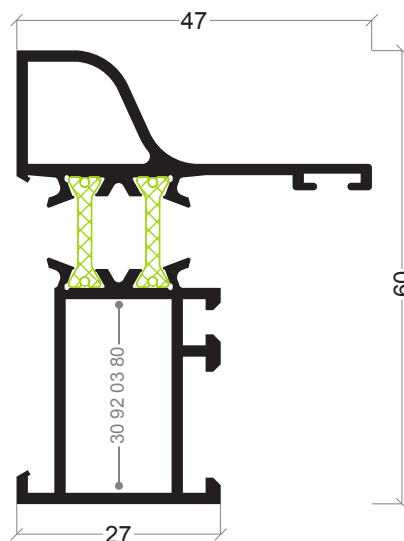
AXi-50
Aro fixo



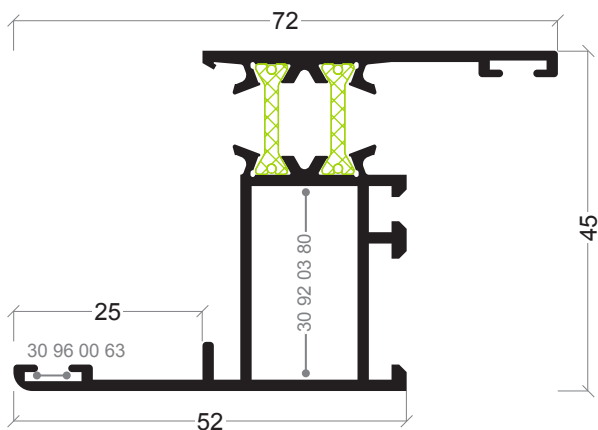
AXi-51
Aro fixo para apanelado



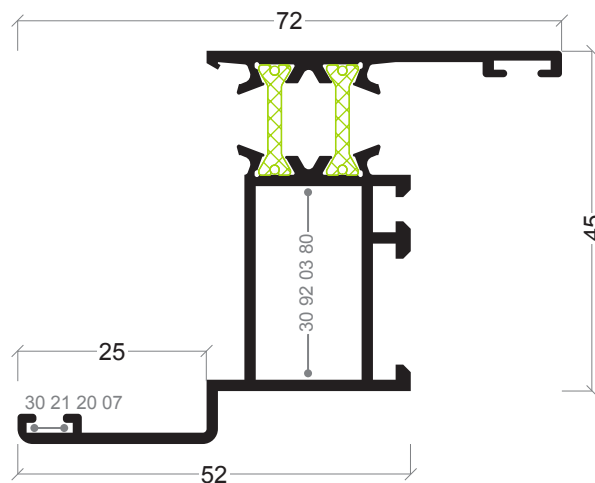
AXi-48
Aro fixo para apainelado



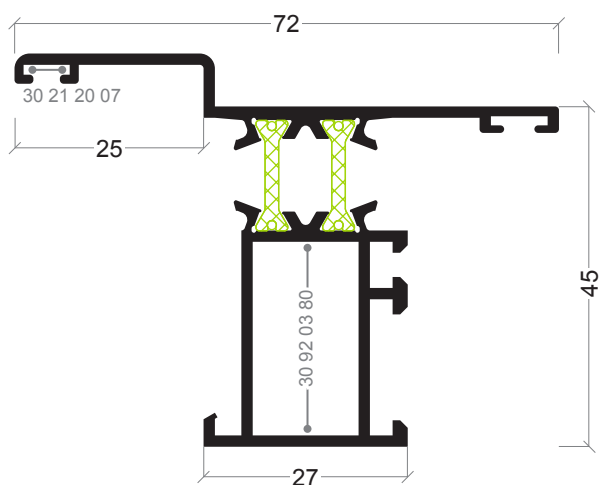
AXi-33
Aro fixo



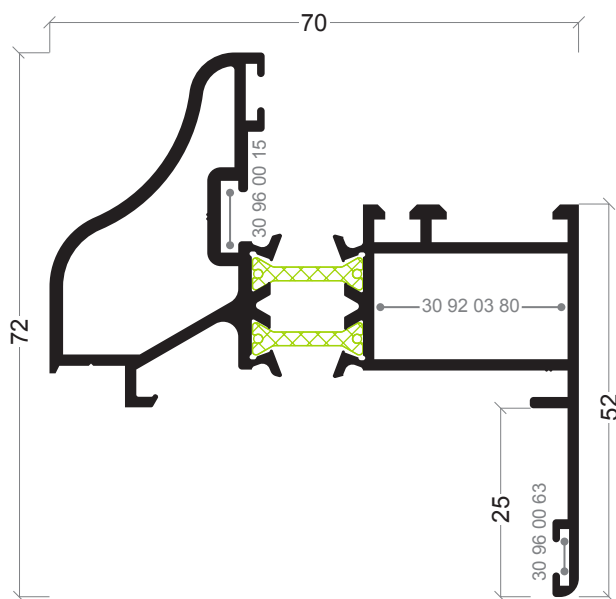
AXi-25
Aro fixo com remate



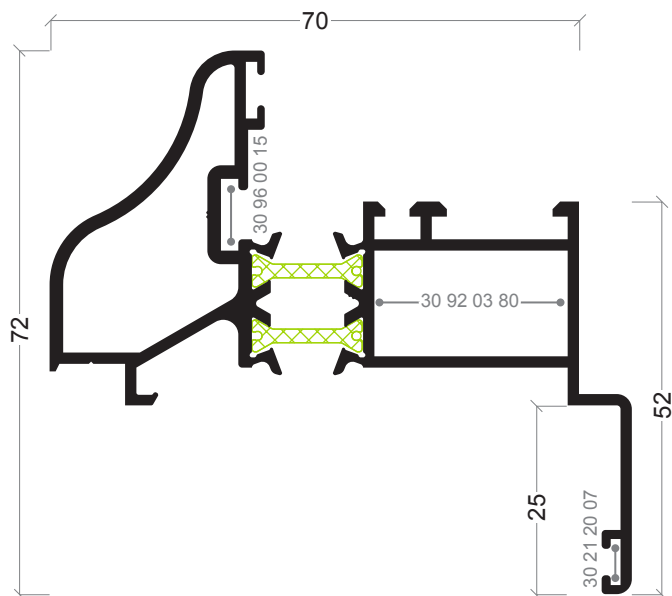
AXi-19
Aro fixo com remate



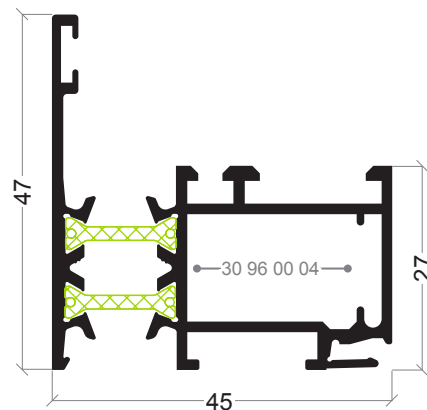
AXi-23
Aro fixo com remate



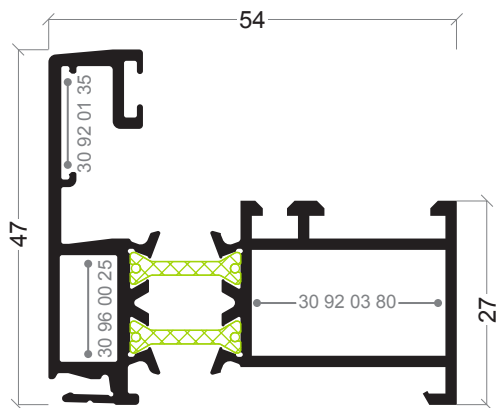
AXi-58
Aro fixo com remate



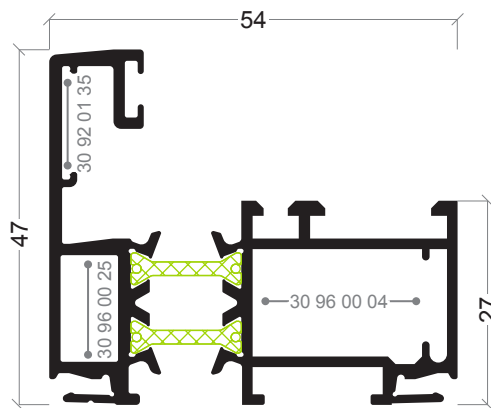
AXi-56
Aro fixo com remate



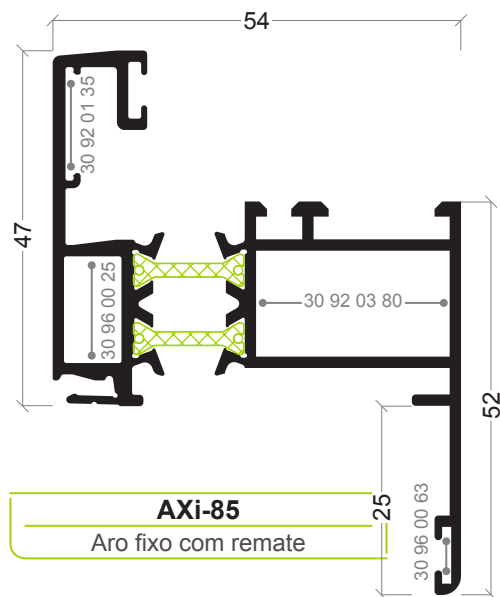
AXi-90
Aro fixo



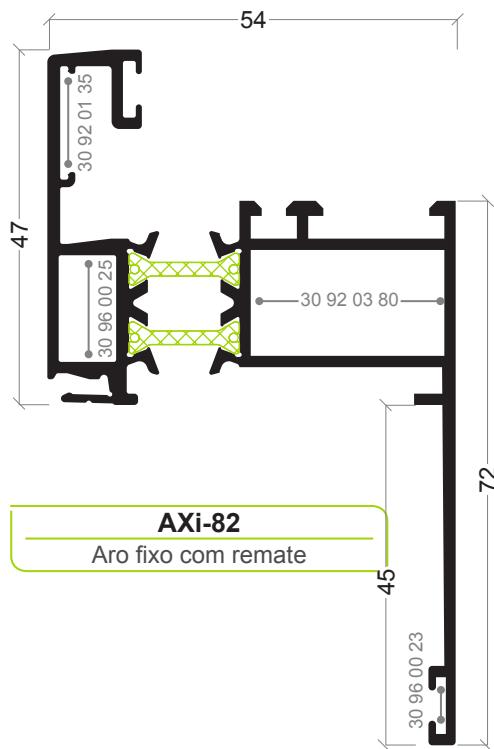
AXi-86
Aro fixo



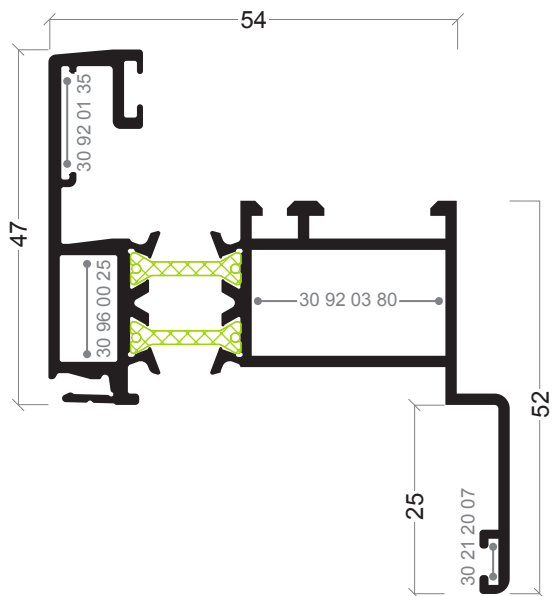
AXi-87
Aro fixo



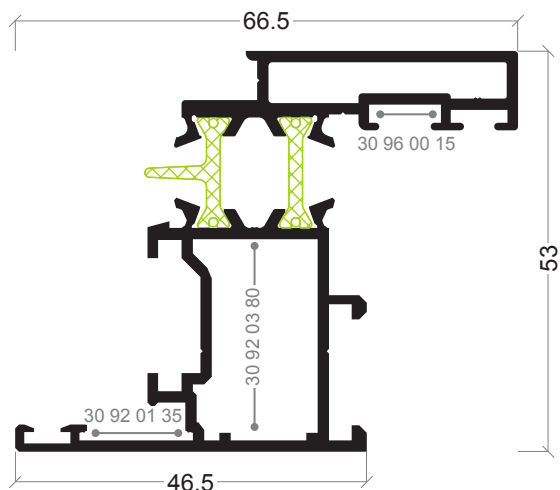
AXi-85
Aro fixo com remate



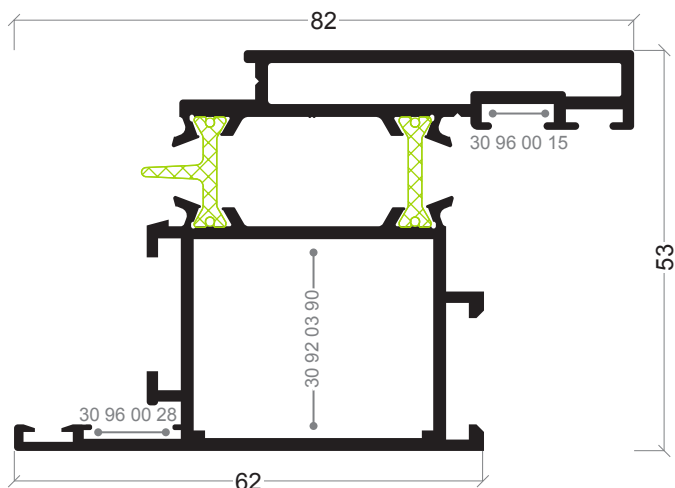
AXi-82
Aro fixo com remate



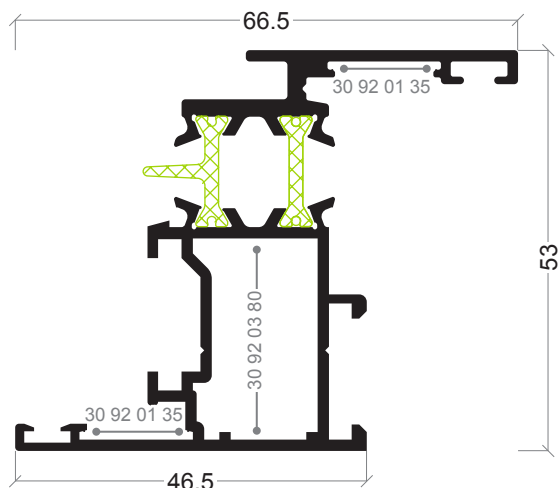
AXi-84
Aro fixo com remate



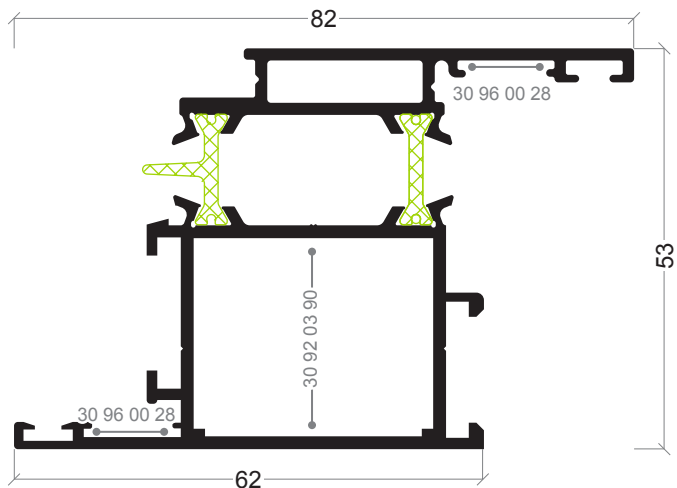
AXi-64
Aro móvel



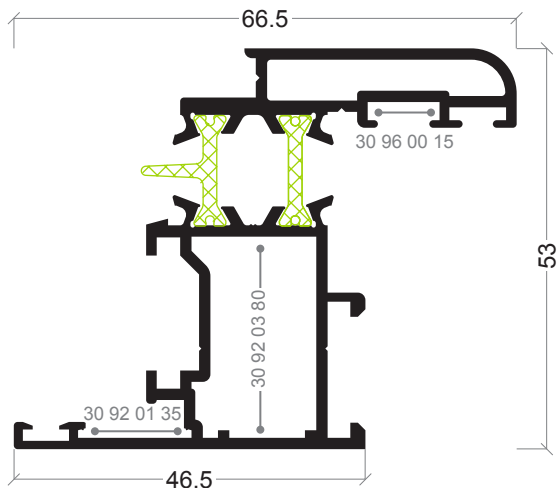
AXi-65
Aro móvel



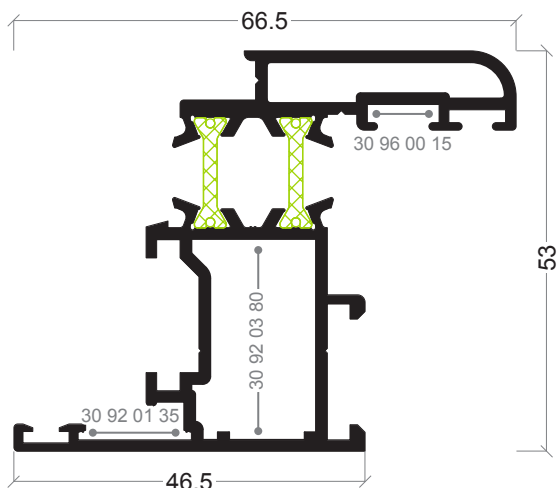
AXi-02
Aro móvel



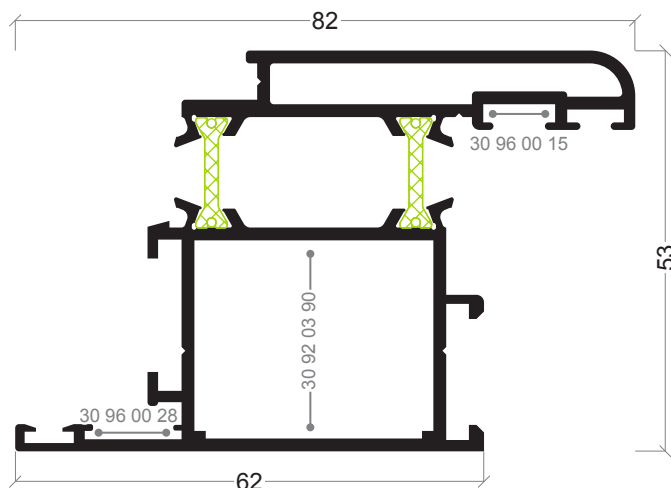
AXi-07
Aro móvel



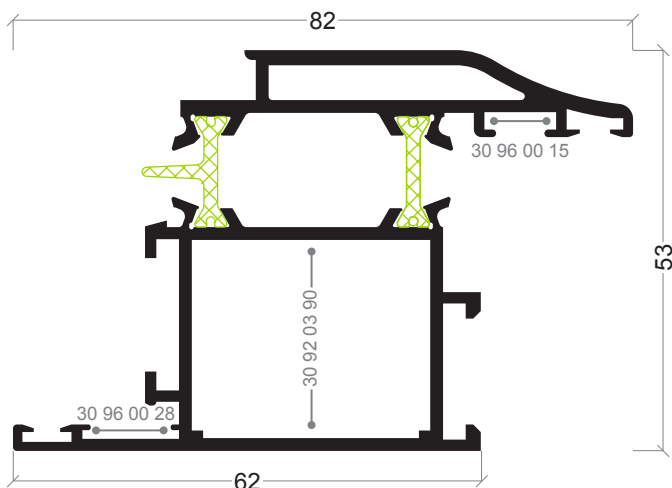
AXi-24
Aro móvel



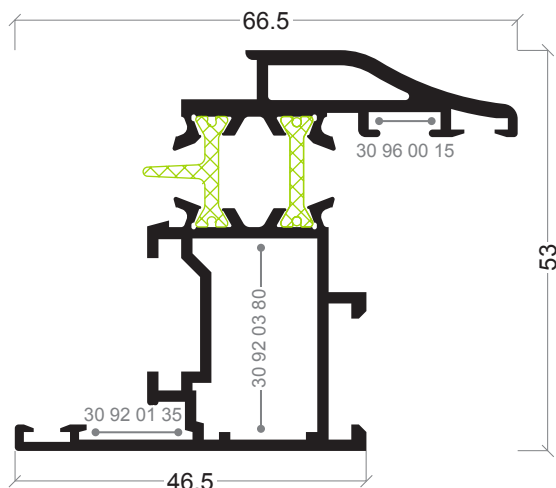
AXi-05
Aro móvil



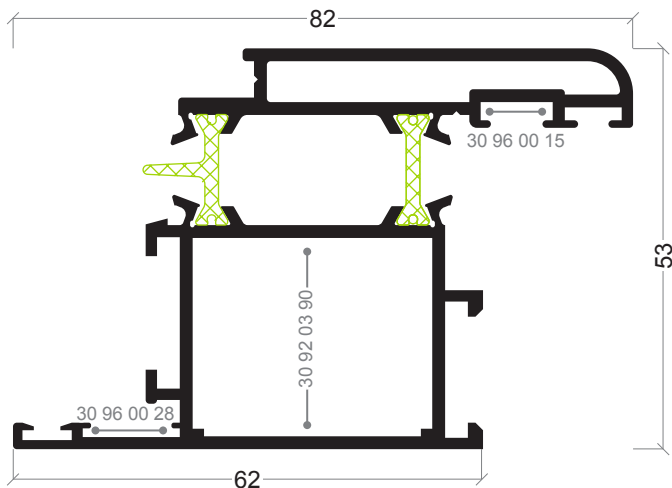
AXi-10
Aro móvil



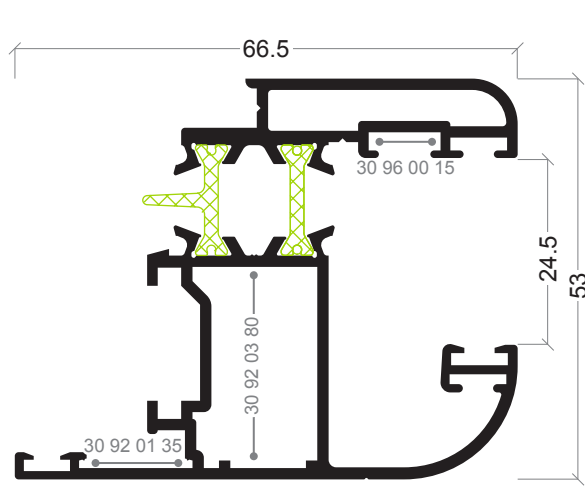
AXi-53
Aro móvil



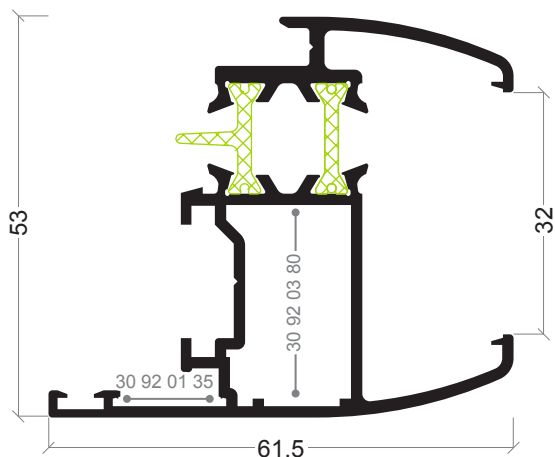
AXi-52
Aro móvil



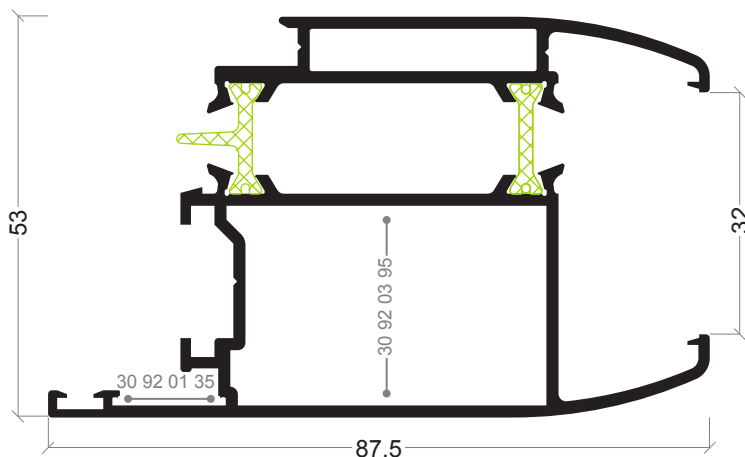
AXi-27
Aro móvil



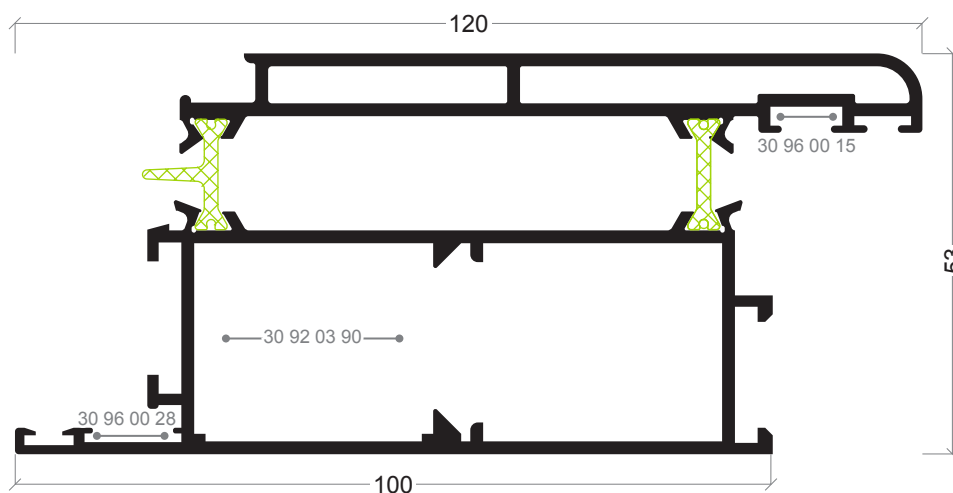
AXi-44
Aro móvil



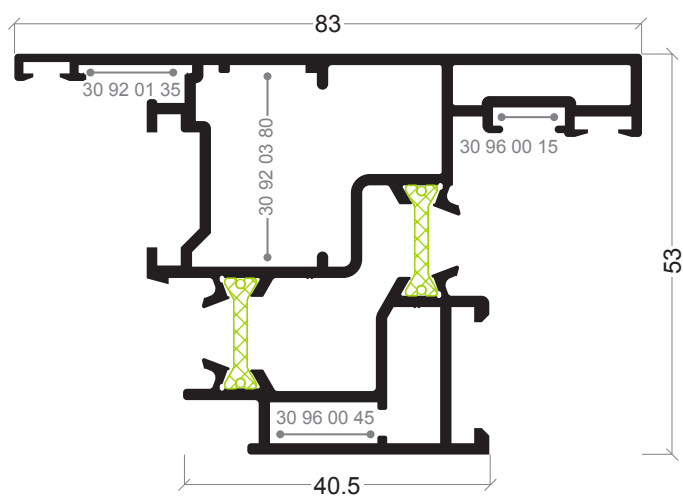
AXi-76
Aro móvel



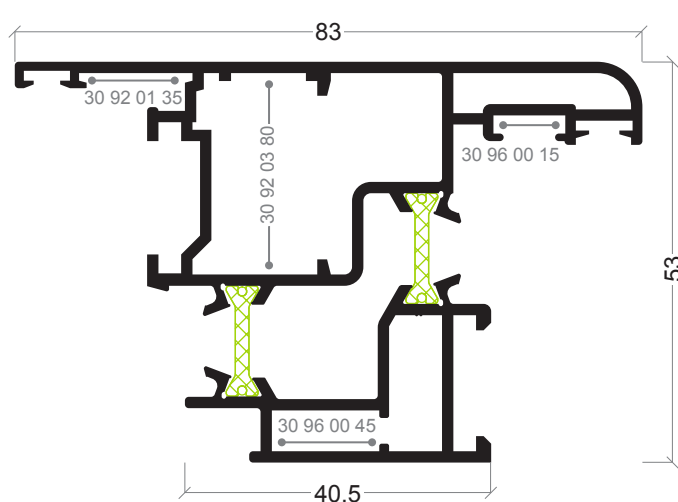
AXi-77
Aro móvel



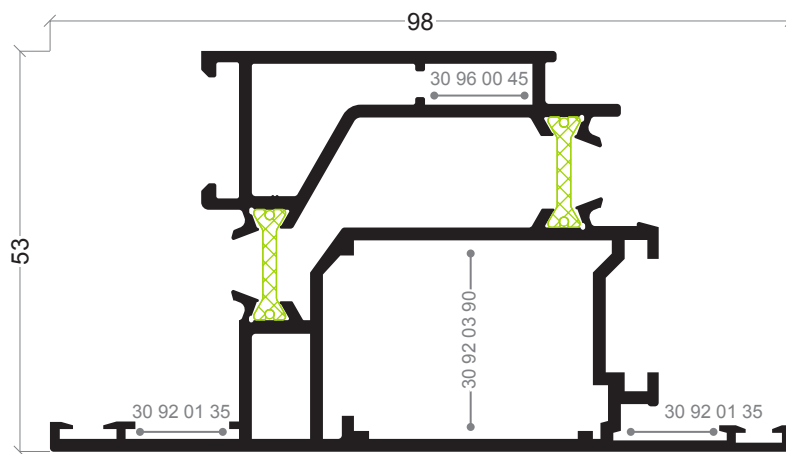
AXi-66
Aro móvel



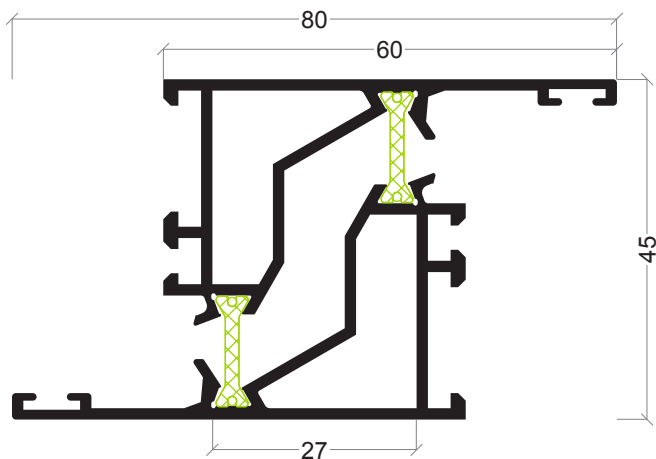
AXi-60
Aro móvel abertura exterior



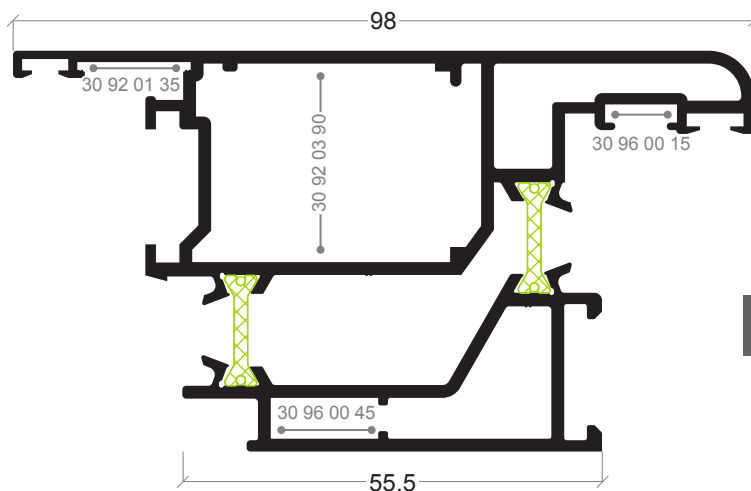
AXi-59
Aro móvel abertura exterior



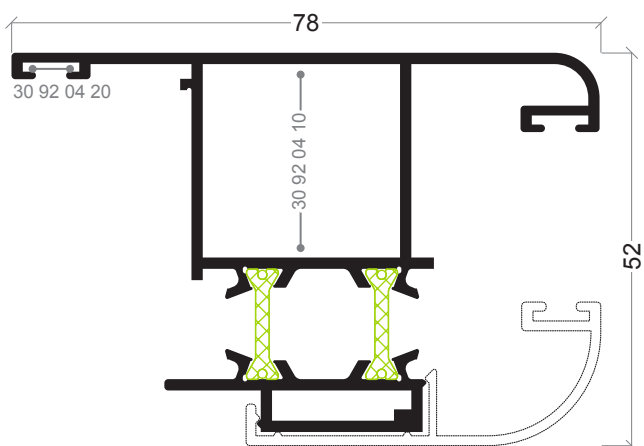
AXi-71
Aro móvel abertura exterior



AXi-61
Aro fixo abertura exterior c/ fixo lateral



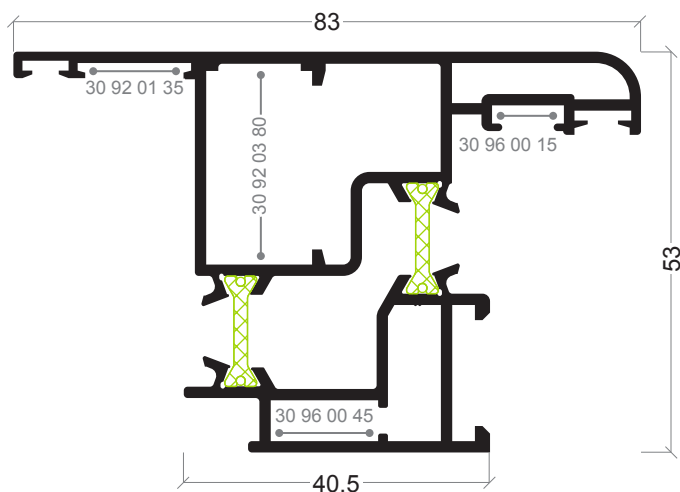
AXi-62
Aro móvel abertura exterior



AXi-26
Aro móvel abertura exterior



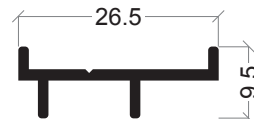
AZ-29
Bite para AXi-26



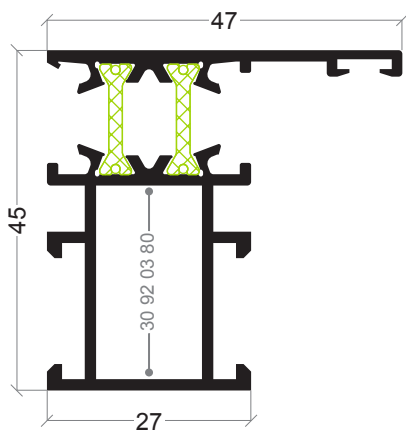
AXi-63
Aro móvel projectante



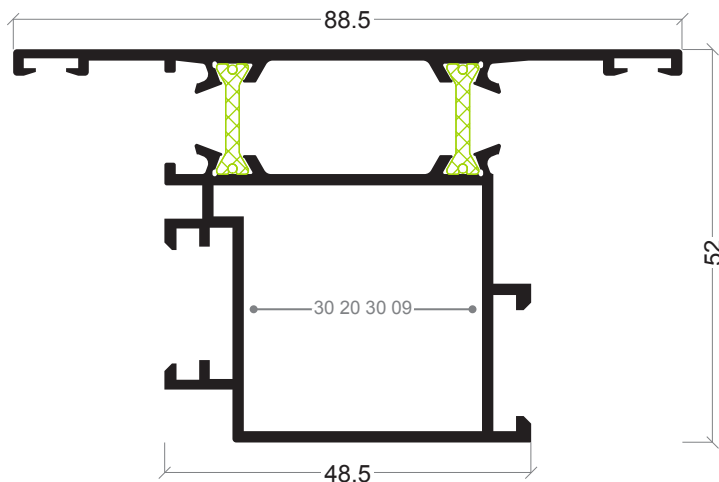
AXi-31
Guia abertura projectante



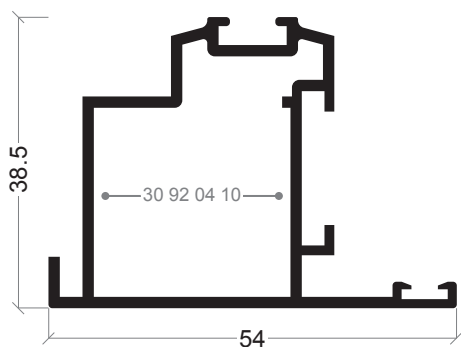
AXi-32
Complemento abertura projectante



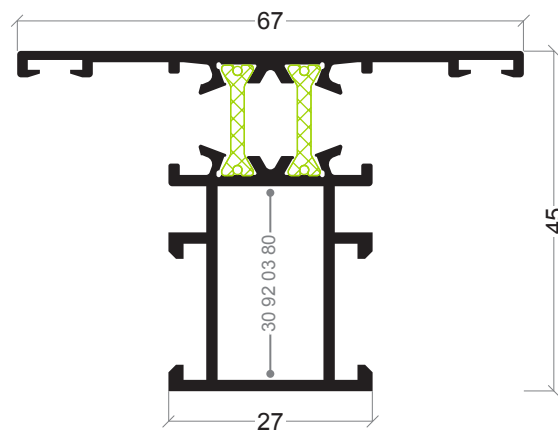
AXi-38
Aro fixo pivotante



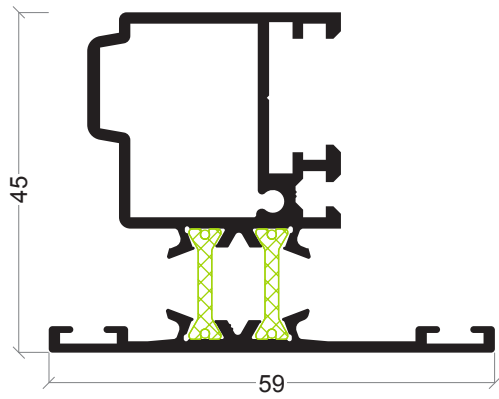
AXi-40
Aro móvel pivotante



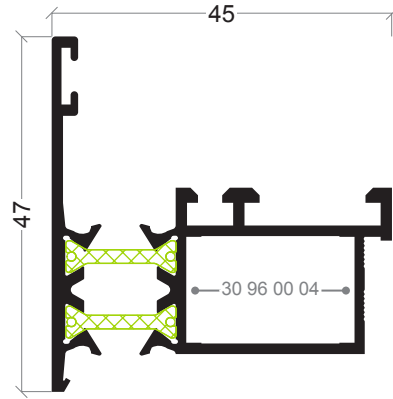
AXi-41
Inversor pivotante



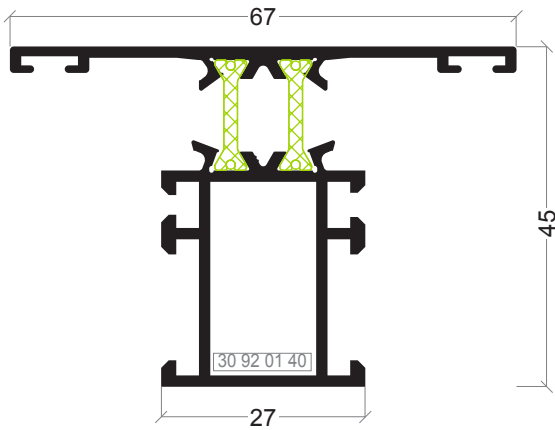
AXi-39
Travessa pivotante



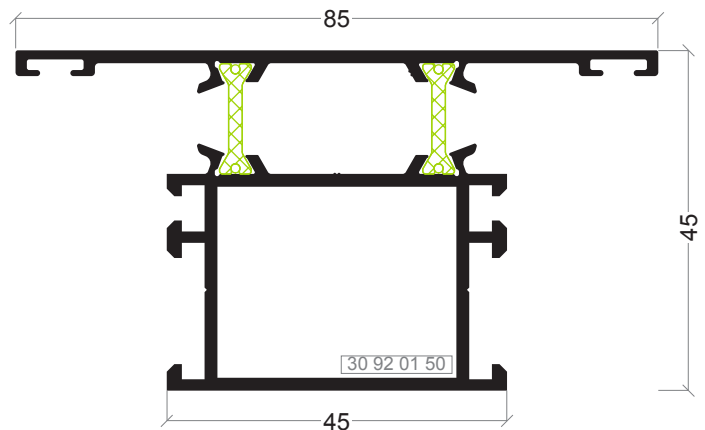
AXi-04
Inversor



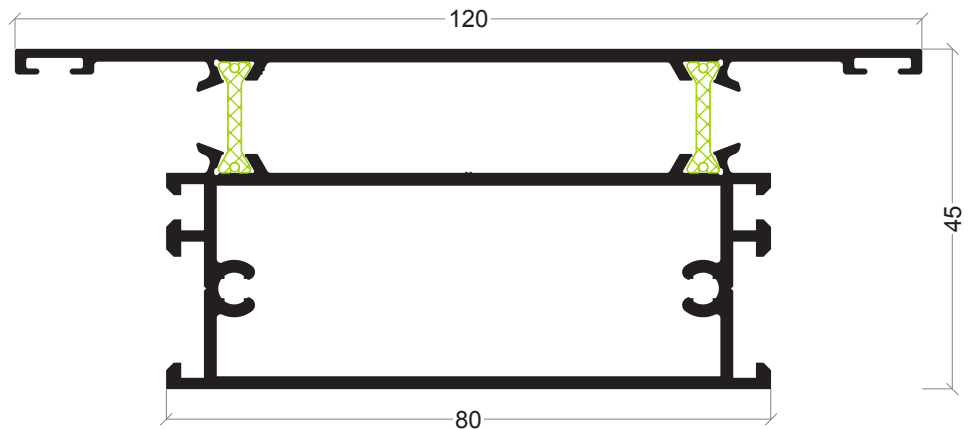
AXi-75
Inversor abertura exterior



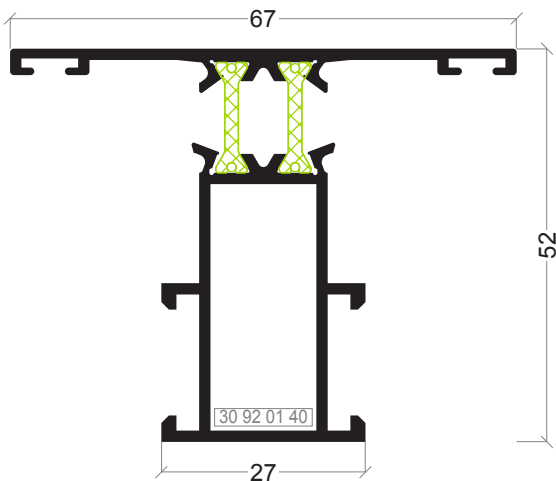
AXi-01
Travessa



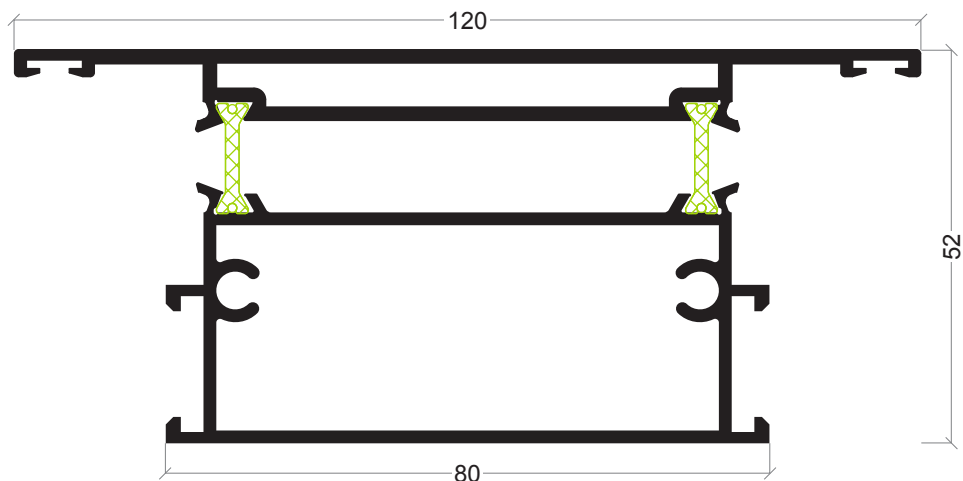
AXi-06
Travessa



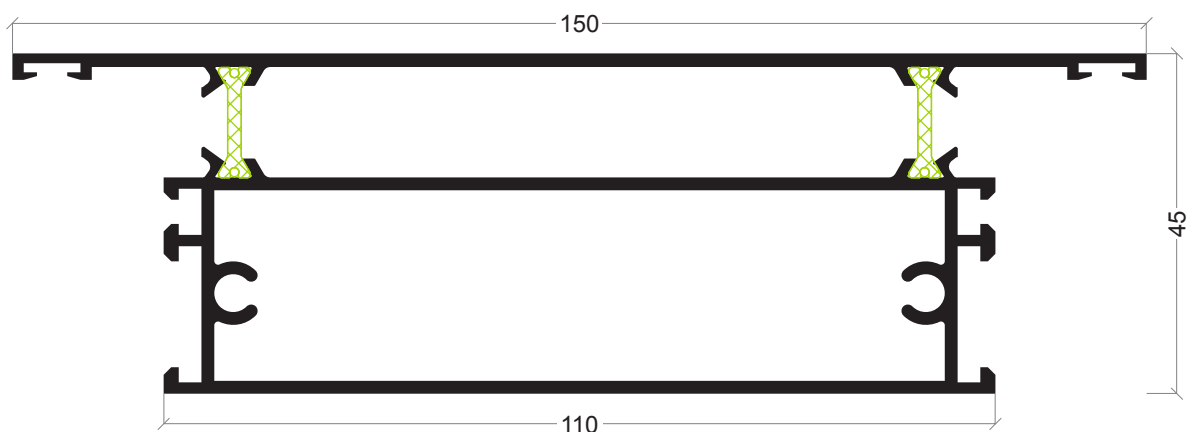
AXi-12
Travessa



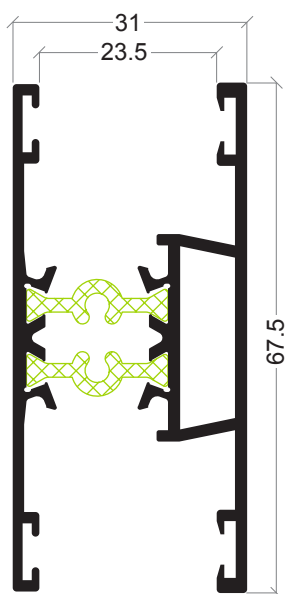
AXi-09
Travessa



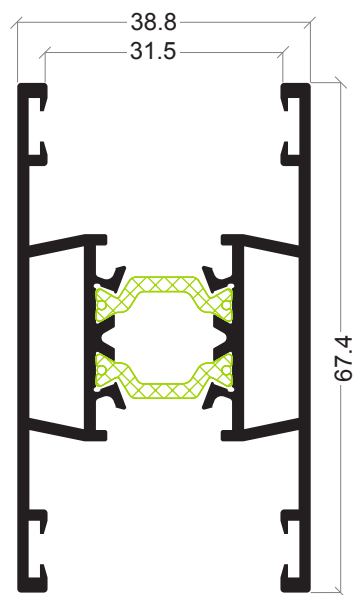
AXi-13
Travessa



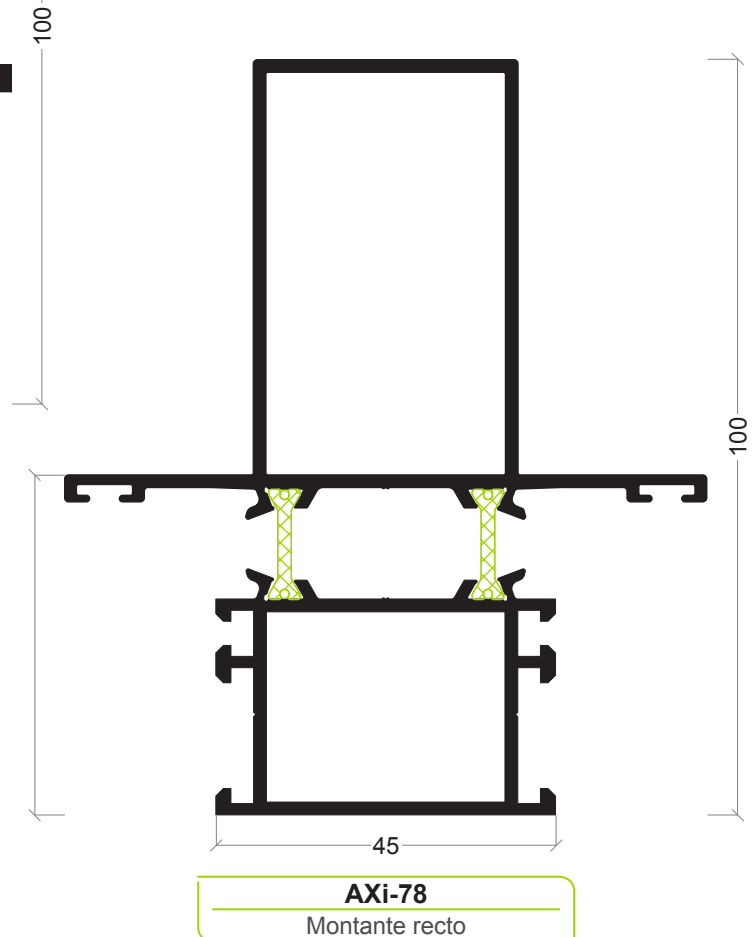
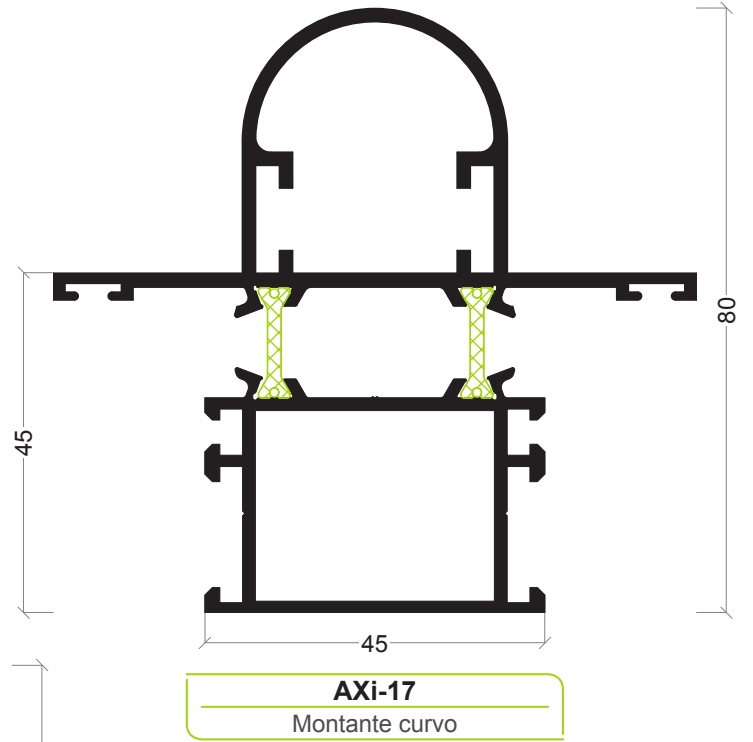
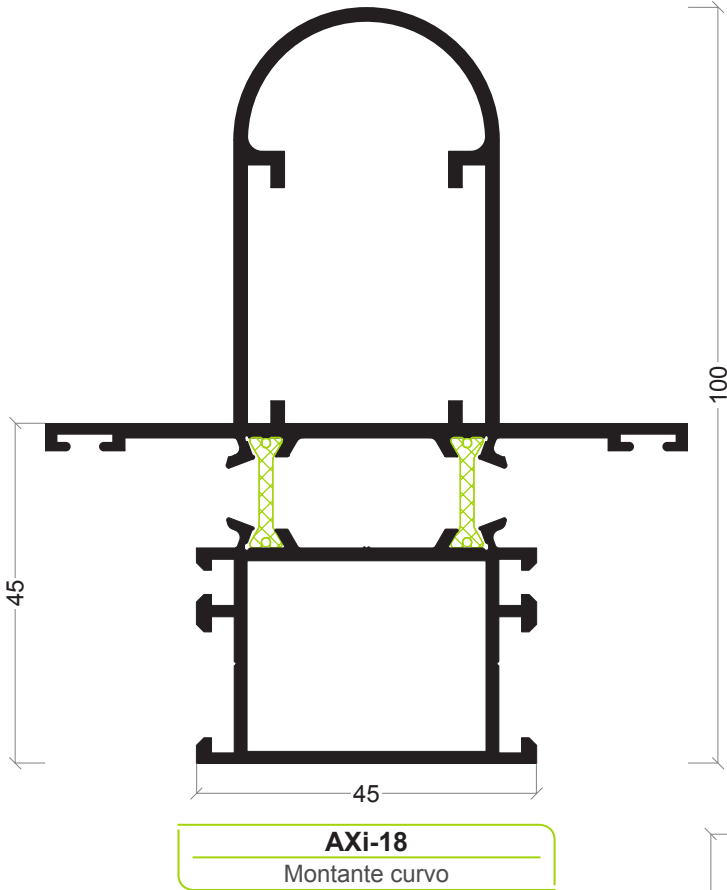
AXi-14
Travessa

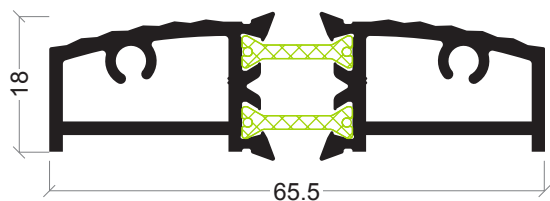


AXi-43
Travessa para AXi-44

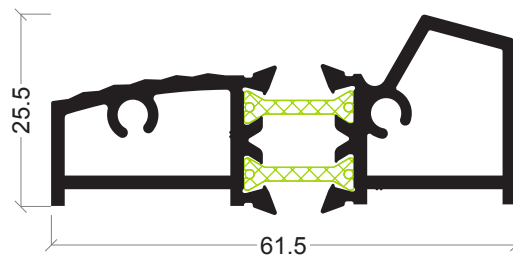


AXi-79
Travessa para AXi-77

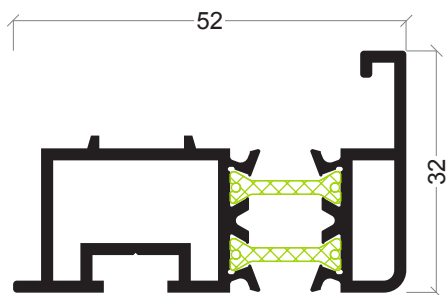




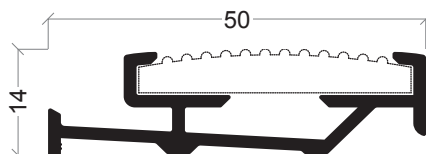
AXi-69
Remate inferior porta



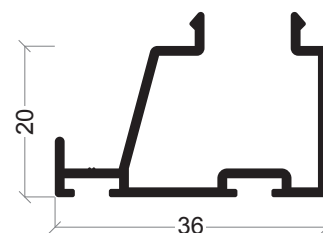
AXi-70
Remate inferior porta



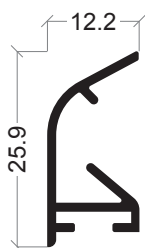
AXi-42
Remate almofada



AZ-69
Remate inferior porta



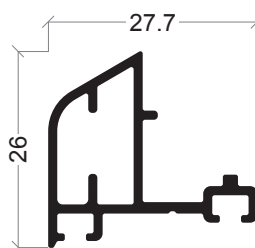
AX-15
Bite remate



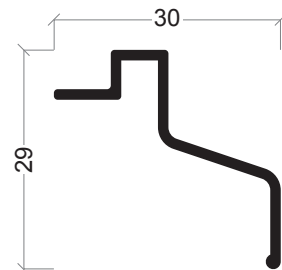
AZ-60
Pingadeira



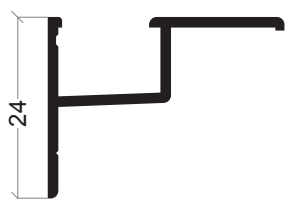
AZ-61
Clip pingadeira



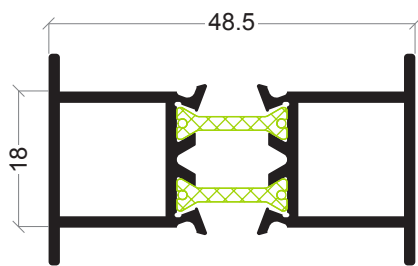
AZ-79
Pingadeira



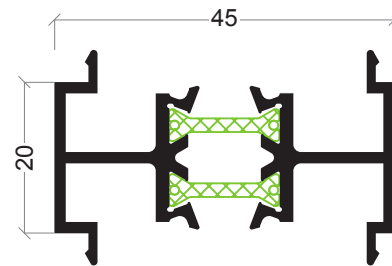
AXi-45
Pingadeira



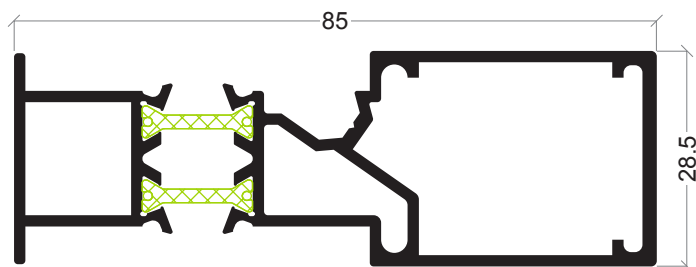
Y-20
Recolha de águas condensação



AXi-54
União de aros



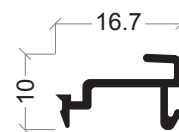
AXi-15
União de aros



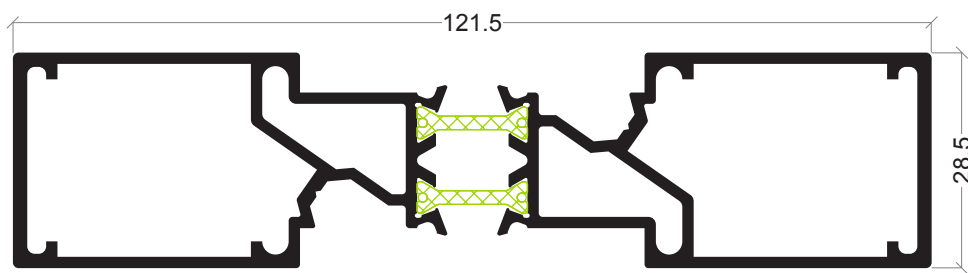
AXi-67
União de aros com reforço



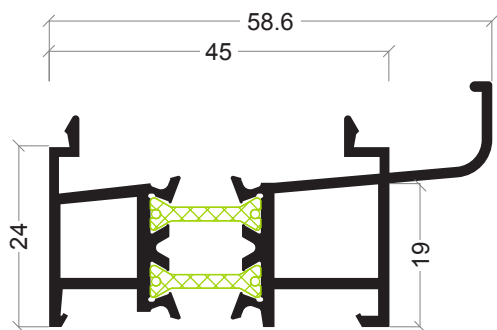
AX-19
Vareta



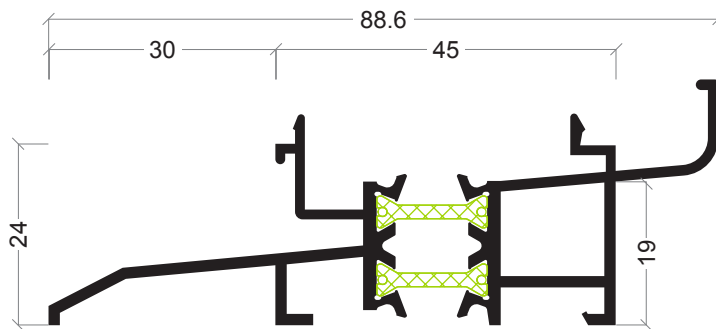
AX-33
Mola Bite



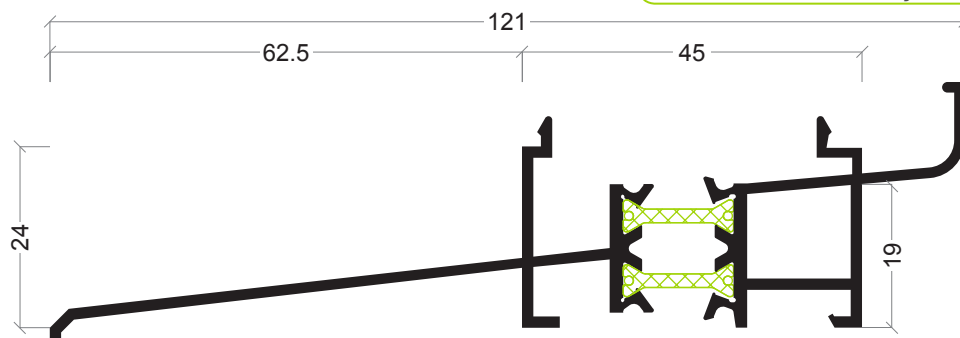
AXi-68
União de aros com reforço



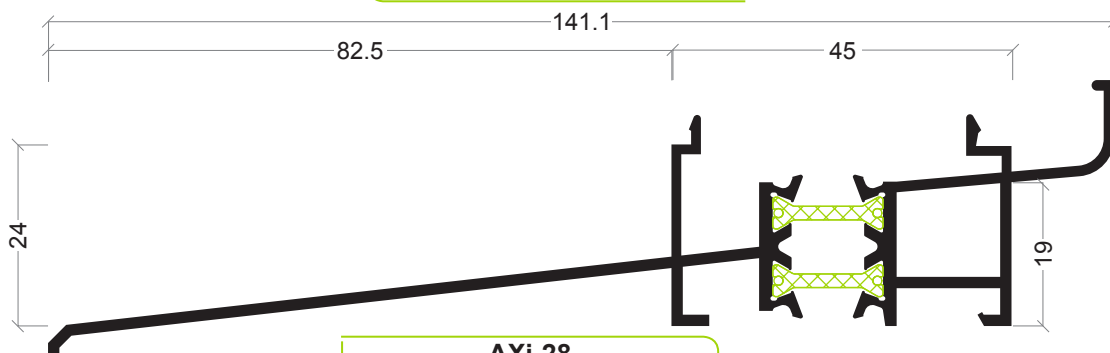
AXi-57
Soleira condensação



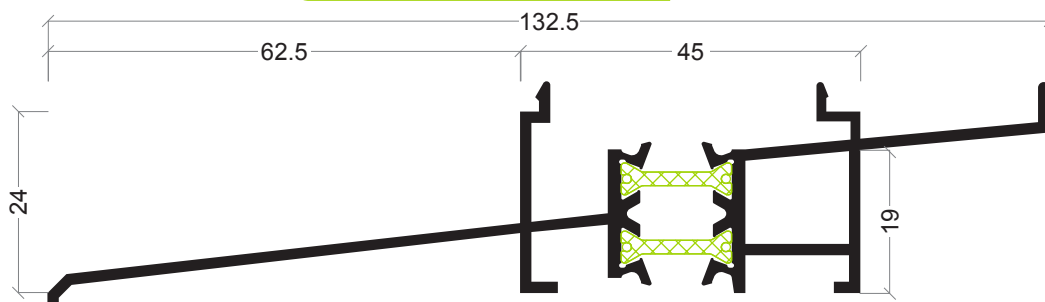
AXi-29
Soleira condensação



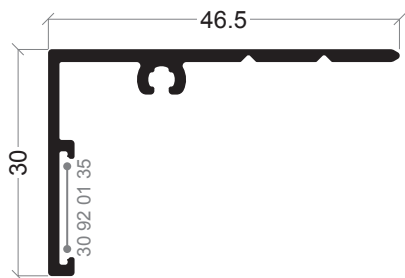
AXi-30
Soleira condensação



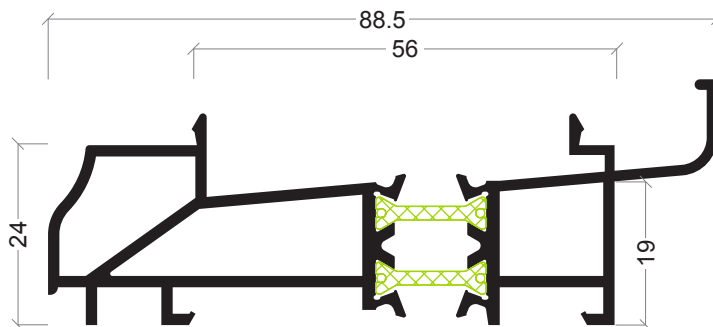
AXi-28
Soleira condensação



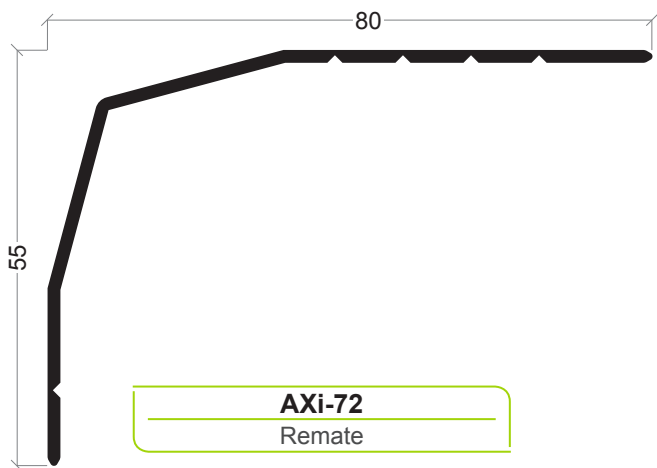
AXi-22
Soleira condensação



AXi-80
Remate



AXi-55
Soleira condensação



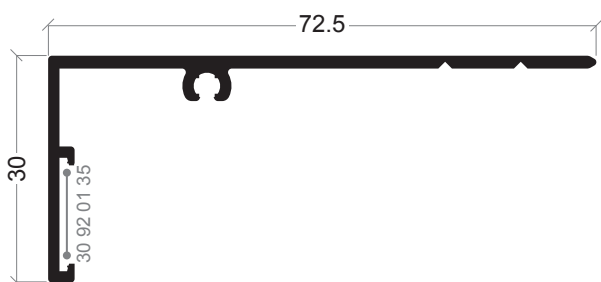
AXi-72
Remate



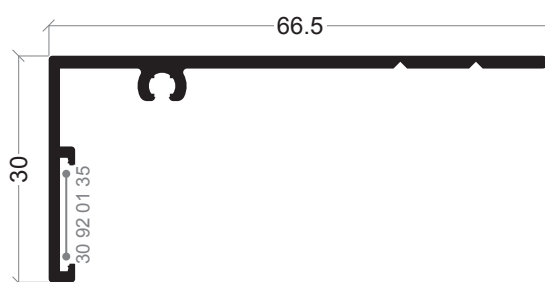
AXi-88
Complemento remate



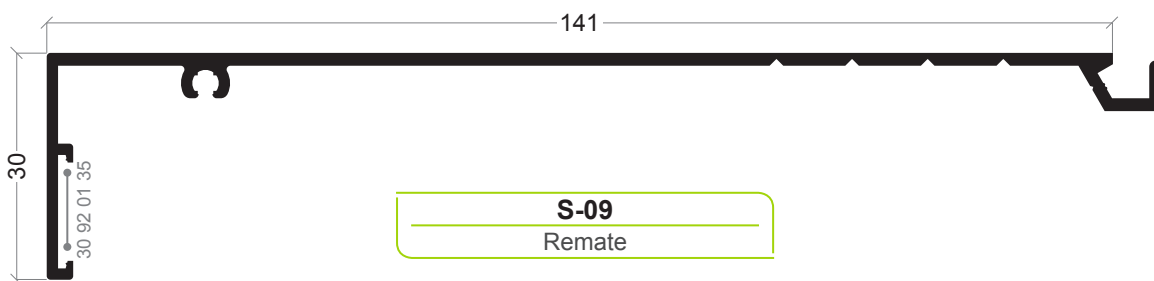
AXi-91
Complemento remate



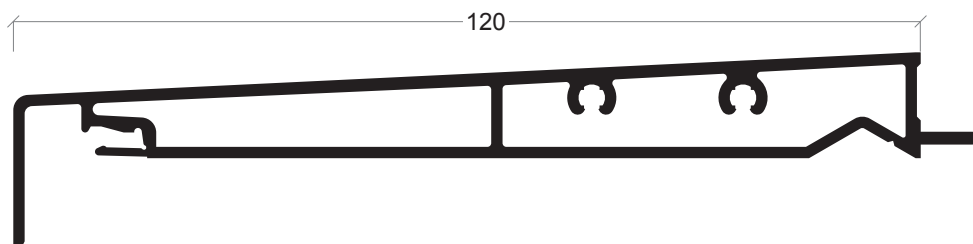
AXi-83
Remate



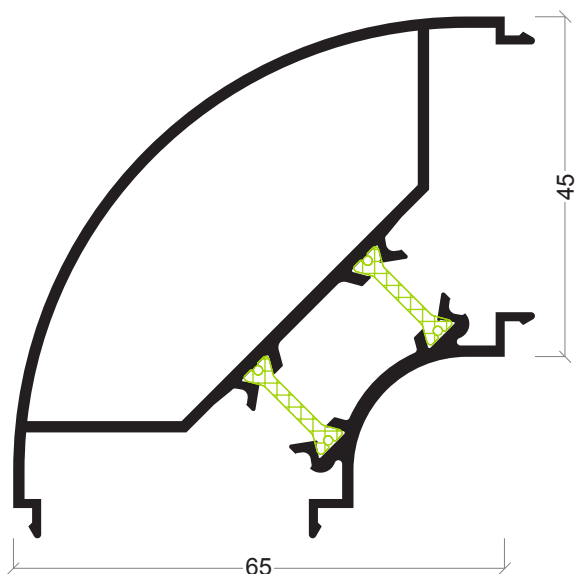
AXi-73
Remate



S-09
Remate



AXi-74
Remate soleira

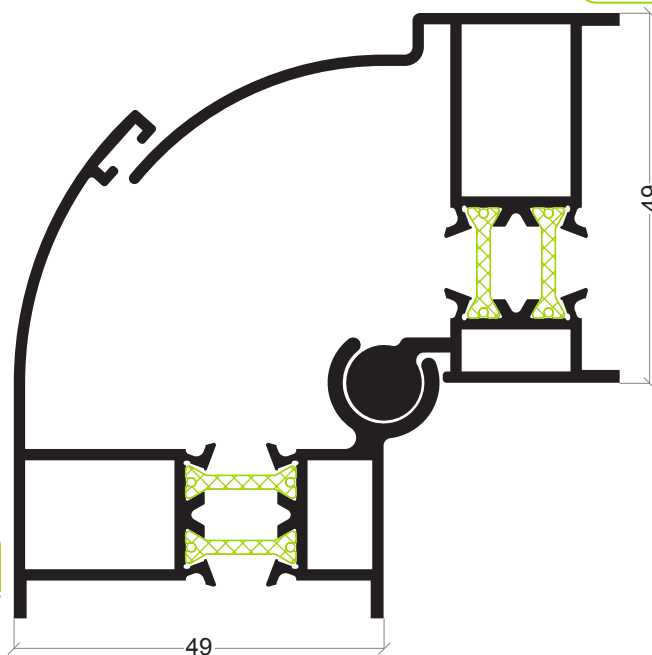


AXi-16
Esquina

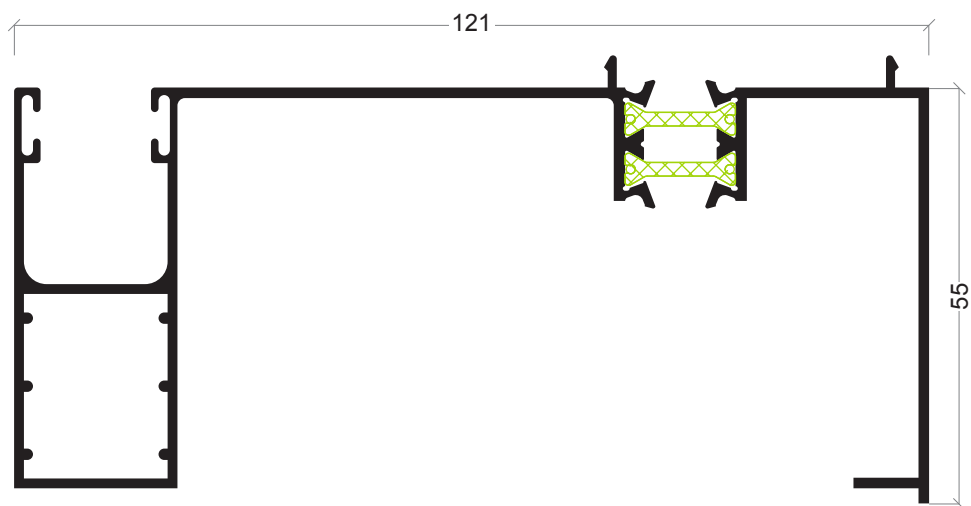


AXi-34
Esquina

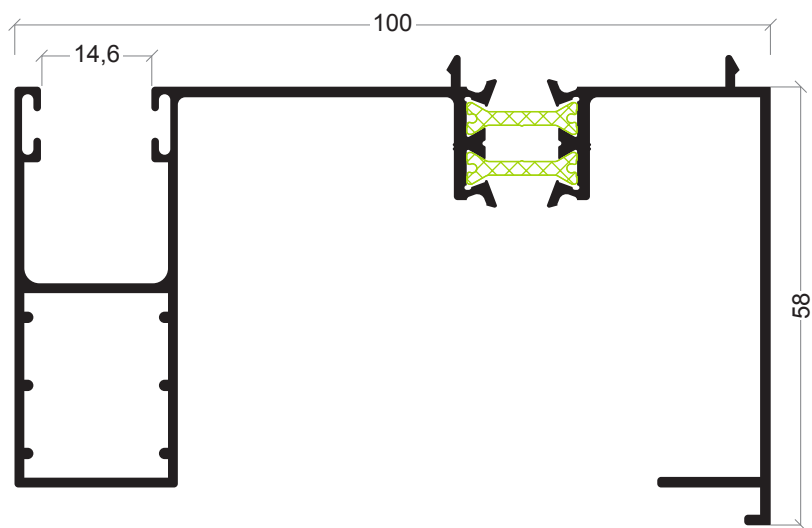
AXi-36
União de aros para ângulos



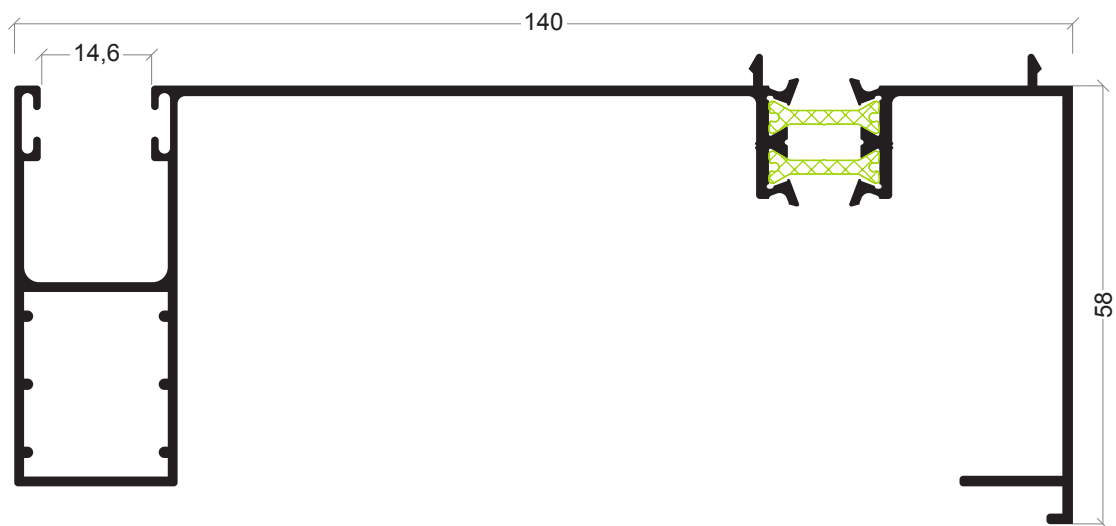
AXi-37
União de aros para ângulos



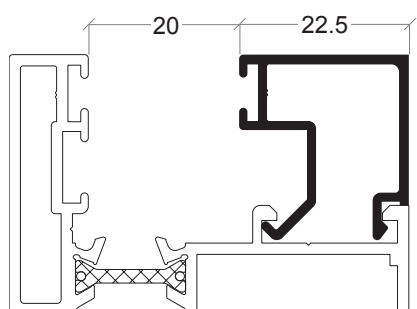
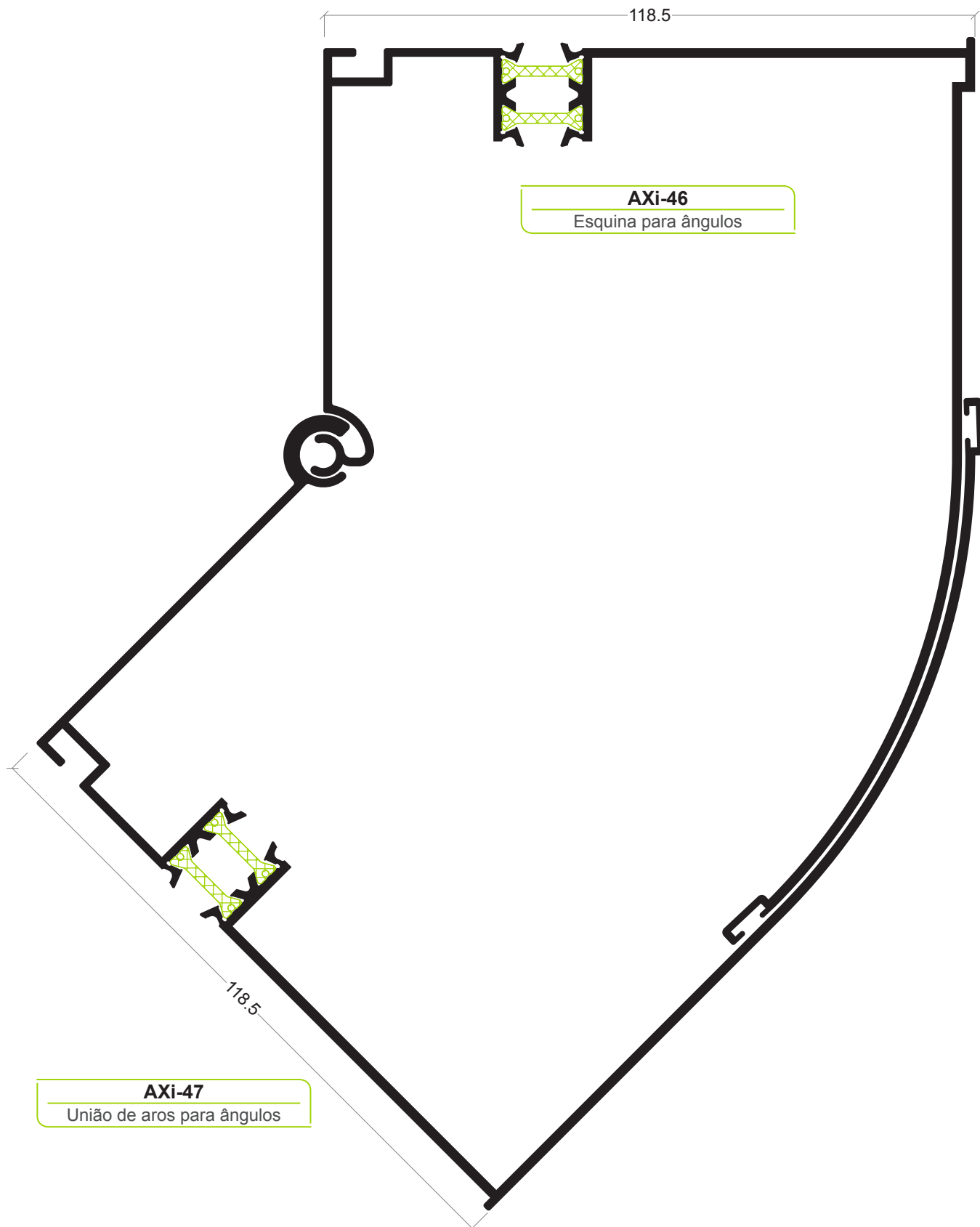
AXi-11
Pré-aro com calha estore



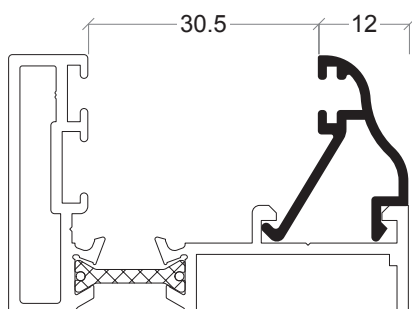
AXi-93
Pré-aro com calha estore



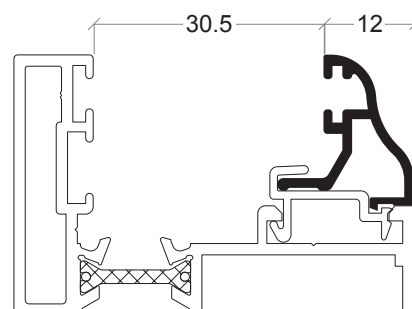
AXi-94
Pré-aro com calha estore



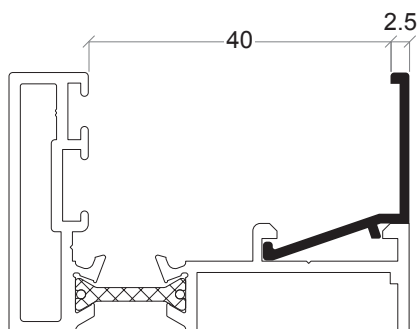
AX-78



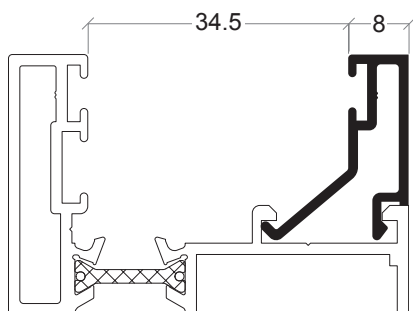
AX-73



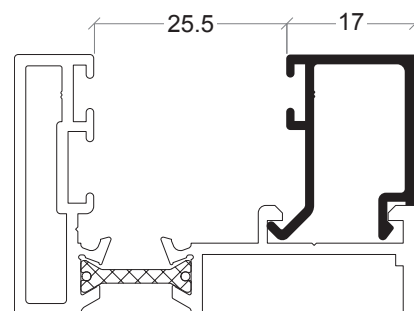
AX-72



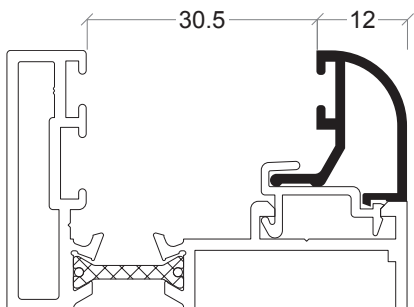
AX-69



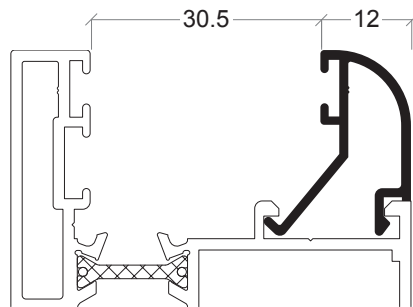
AX-74



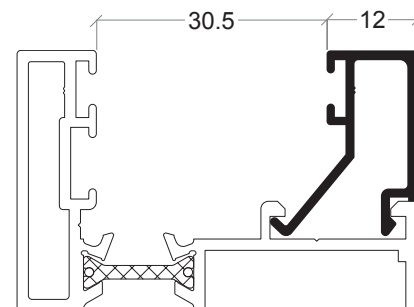
AX-46



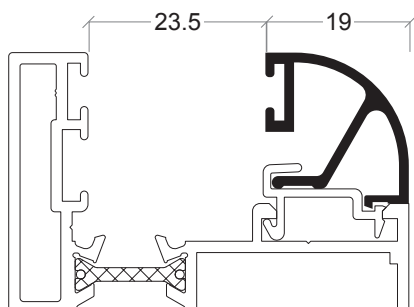
AX-37



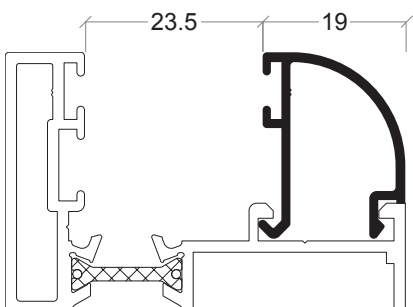
AZ-08



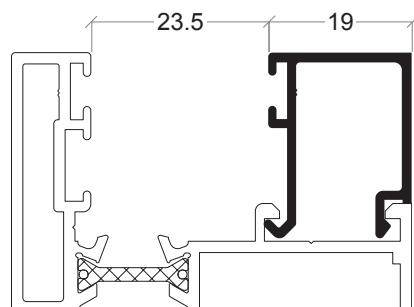
AX-36



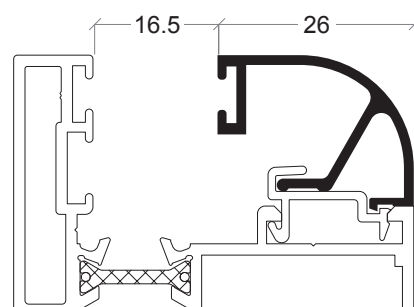
AX-30



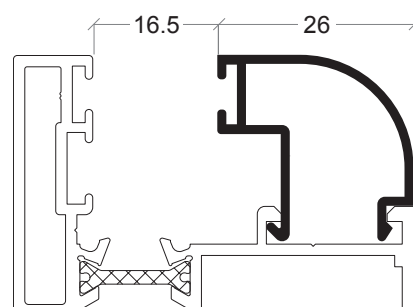
AZ-07



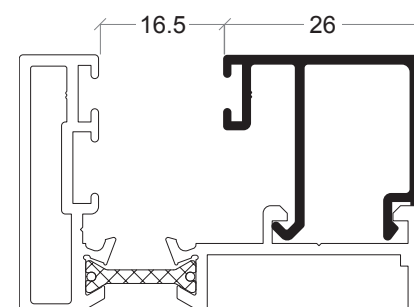
AX-35



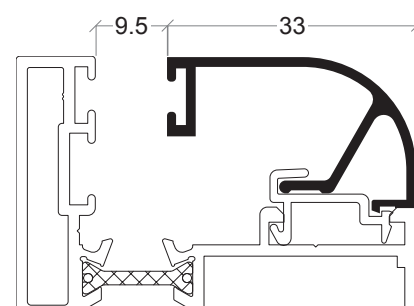
AX-29



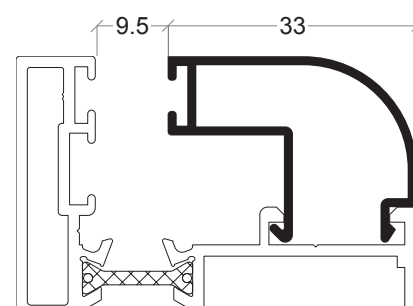
AZ-06



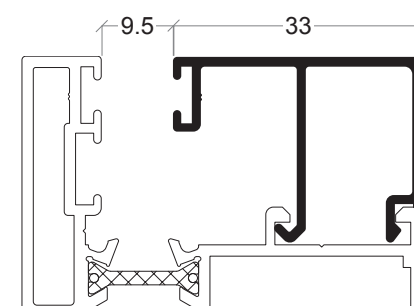
AX-31



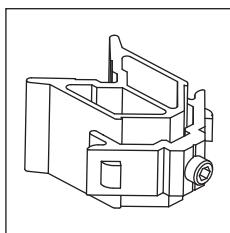
AX-39



AZ-28

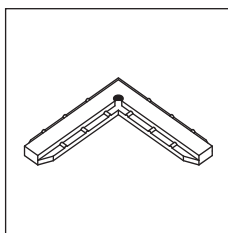


AX-34



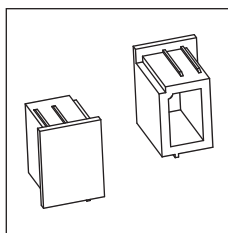
30 20 30 09

Esquadro móvel pivotante



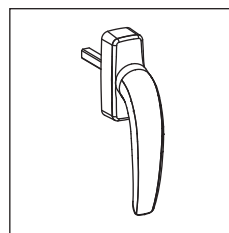
30 21 20 07

Esquadro de alinhamento



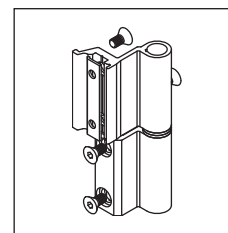
30 91 21 20

Jogo topos condensação Y-20



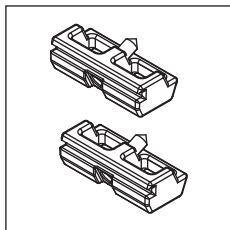
30 91 41 47/48

Cremone pivotante especial branco/preto



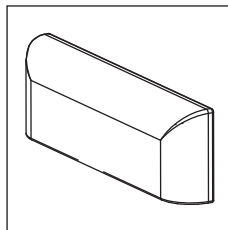
30 92 00 20/21

Dobradiça C.E. branco/preto



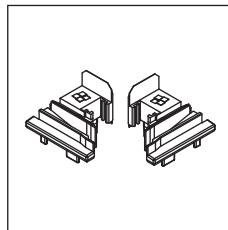
30 92 00 50

Complemento fecho



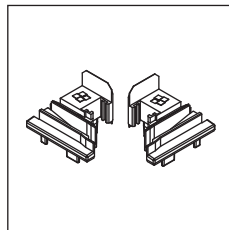
30 92 01 00/01

Goteiras branco/preto



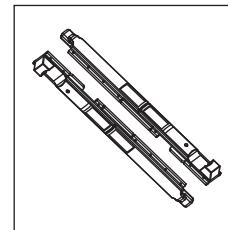
30 92 01 12

Jogo topos inversor poliamida em T AXi-04



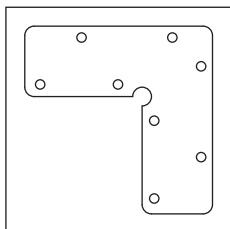
30 92 01 13

Jogo topos inversor AXi-04



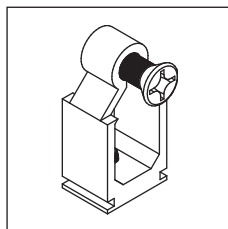
30 92 01 20

Jogo fecho C.E.



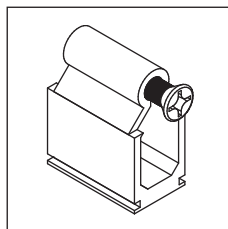
30 92 01 35

Esquadro alinhamento



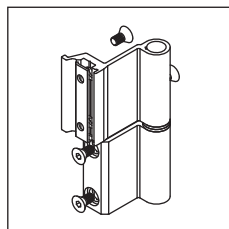
30 92 01 40

União topos janela



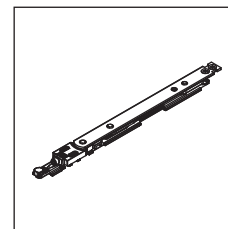
30 92 01 50

União topos porta



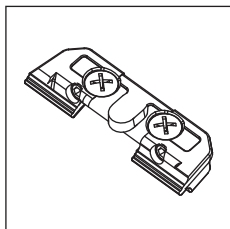
30 92 01 70/80

Dobradiça 3 folhas branco/preto



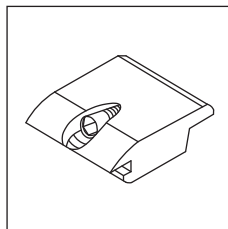
30 92 02 10/11/12

Compasso oscilo 300/400/500



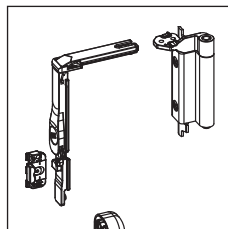
30 92 02 15

Fecho para micro-ventilação



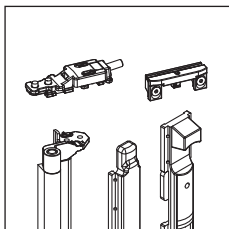
30 92 02 60

Apoio da folha



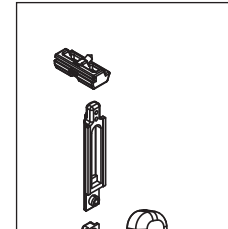
30 92 02 20/21

Kit oscilbatente branco/preto



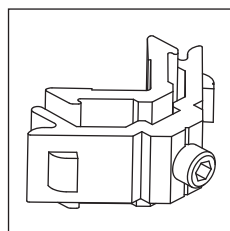
30 92 02 24/25

Kit 2ª folha oscilbatente branco/preto



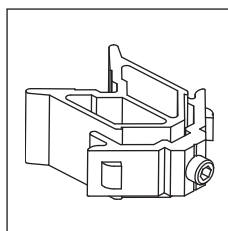
30 92 03 10/11

Kit cremone branco/preto



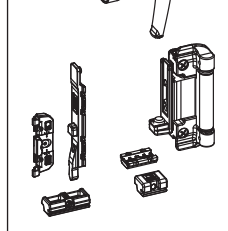
30 92 03 80

Esquadro janela



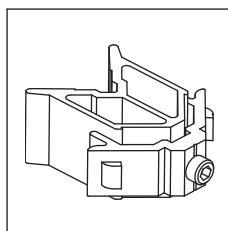
30 92 03 90

Esquadro porta



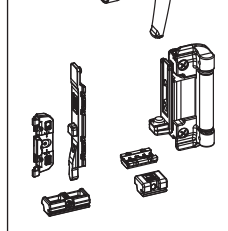
30 92 03 96

Canto vulcanizado



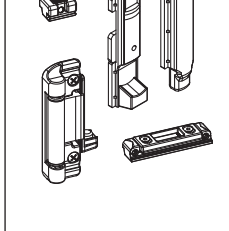
30 92 04 10

Esquadro janela abertura exterior



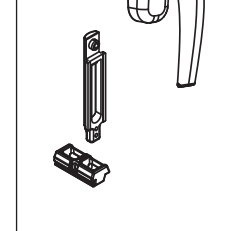
30 92 04 50

Cremone abertura exterior



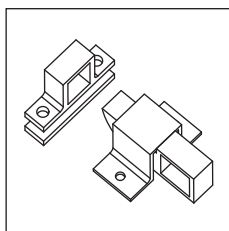
30 92 04 60

Jogo de transmissão abertura exterior



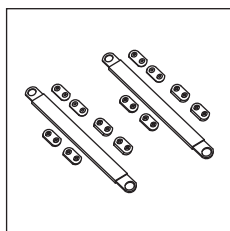
30 92 04 75

Jogo compasso basculante



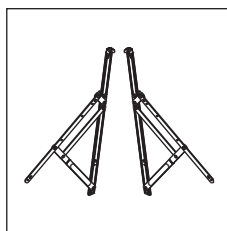
30 92 04 76/77

Fecho clack (branco/preto)



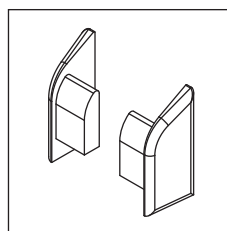
30 92 04 85

Jogo compasso



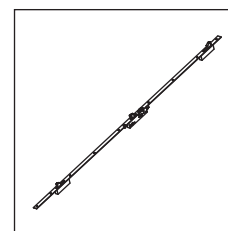
30 92 04 90

Compasso SEN-550 (até 70kg /folha)



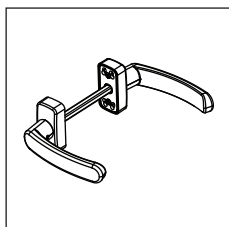
30 92 05 00

Jogo topos



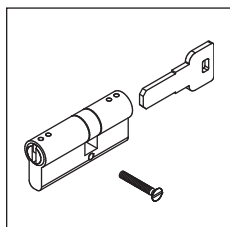
30 92 05 10

Fechadura 3 pontos 35 mm



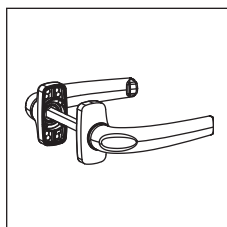
30 92 05 15

Fecho de alavanca com 5 pontos de fecho



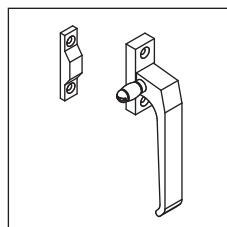
30 92 05 40

Canhão fechadura



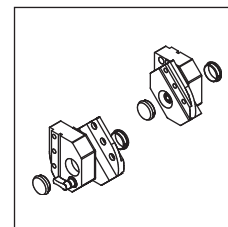
30 92 05 60/61

Puxador duplo branco/preto



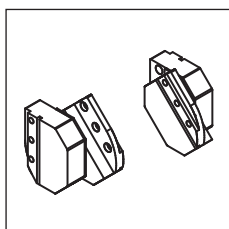
30 92 06 10/11

Cremone de lingueta branco/preto



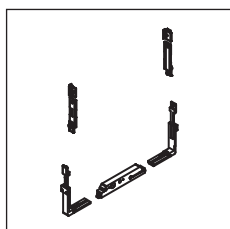
30 92 07 10/11

Jogo pivotante 60kg preto/branco



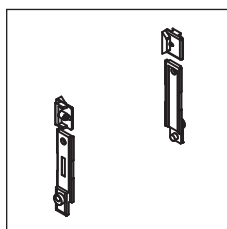
30 92 07 14/15

Jogo pivotante vertical/horizontal especial AXi (130 kg)



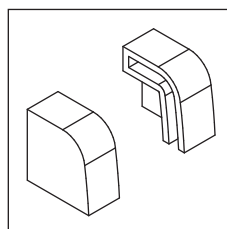
30 92 07 16

Fecho perimetral pivotante especial



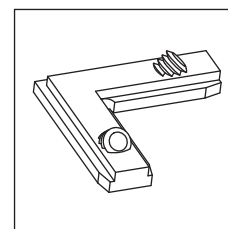
30 92 07 17

Fecho suplementar pivotante especial



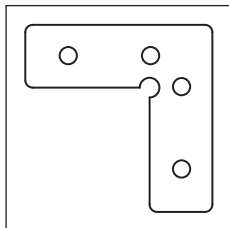
30 96 00 12

Jogo topos condensação



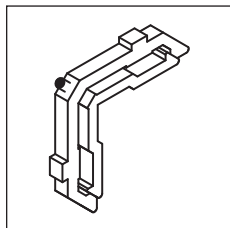
30 96 00 15

Esquadro de alinhamento



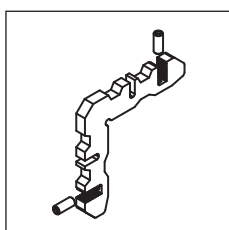
30 96 00 28

Esquadro alinhamento especial AXi-07/10/27/53/65/66



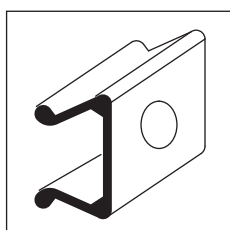
30 96 00 38

Esquadro alinhamento exterior



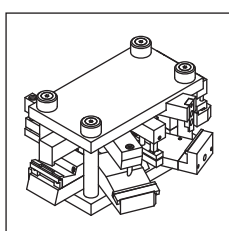
30 96 00 45

Esquadro alinhamento exterior com parafusos



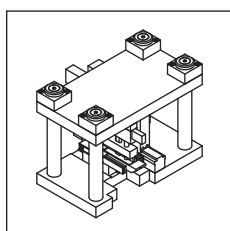
31 03 40 00

Mola para AZ-60



33 96 79 99

Cunho C.E.

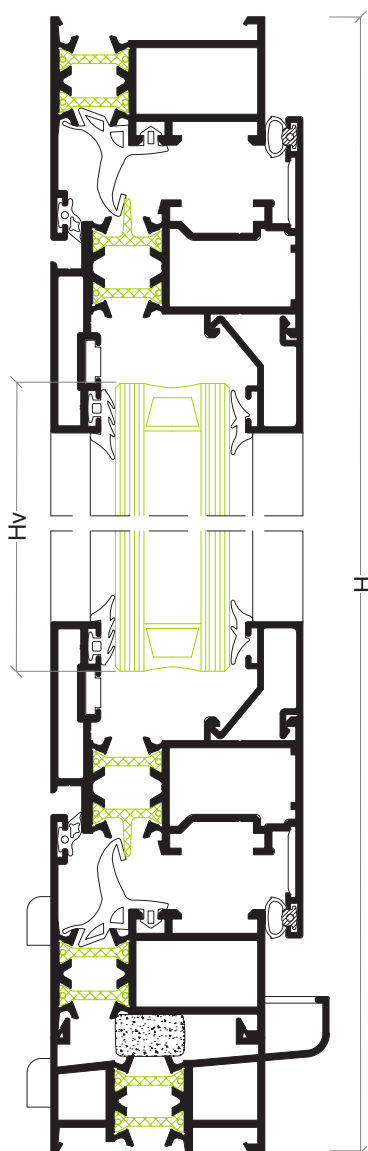
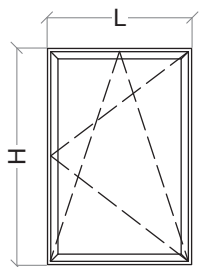


33 96 87 99

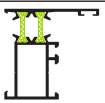


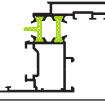


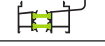





Cunho esquadros interior/exterior

Referência	Desenho	Descrição
30 00 95 01		Junta exterior abertura pivotante
30 00 95 15		Junta vedação inferior curta
30 20 30 05		Junta isolante AXi
30 20 30 08		Junta central abertura pivotante
30 25 44 15		Junta tapa canal
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 92 04 70		Espuma isolante
30 93 00 20		Junta de remate AZ-69
30 93 00 50		Junta central
30 93 00 60		Vedante exterior do vidro (opcional)
30 93 00 61		Junta de vedação exterior
30 93 00 62		Junta exterior plana
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 93 00 70		Vedante interior do vidro (opcional)
30 93 00 80		Junta de vedação inferior AXi-42
30 93 00 82		Junta de vedação inferior
30 93 00 90		Junta exterior
30 93 01 10		Junta central poliamida em T
30 93 01 20		Junta interior
30 93 01 30		Junta exterior (abertura exterior/projectante)
30 95 00 10		Pelúcia 7x9 mm
30 95 00 40		Pelúcia 7x5.5 mm

Janela 1 folha abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-03	Aro fixo		2	L
				2	H-24 mm
	AXi-64	Aro móvel		2	L-42 mm
				2	H-66 mm
	AXi-57	Soleira condensação		1	L
	AX-19	Vareta		1+1	Apro. L+H
	---	Bite		2	L-135 mm
				2	H-199 mm

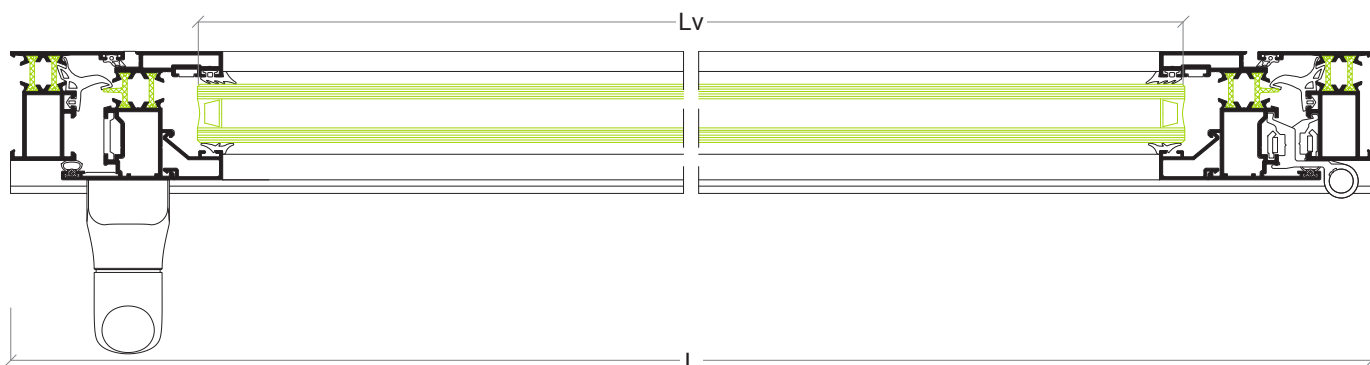
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	2	---
30 92 01 00	Goteiras	4	4
30 92 01 35	Esquadro alinhamento aro móvel	4	4
30 92 02 (xx)	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 92 03 80	Esquadro janela	8	8
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	4	4
30 92 03 96	Canto vulcanizado	4	4
30 92 04 70	Espuma isolante	L	L
30 93 00 90	Junta exterior	2L+2H	
30 93 01 10	Junta central	2L+2H	
30 93 01 20	Junta interior	2L+2H	
---	Junta exterior vidro	2L+2H	
---	Junta interior vidro	2L+2H	

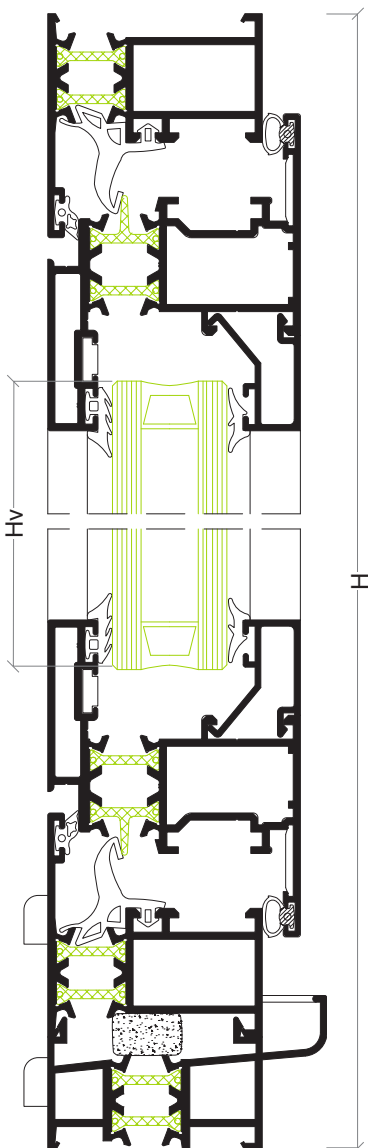
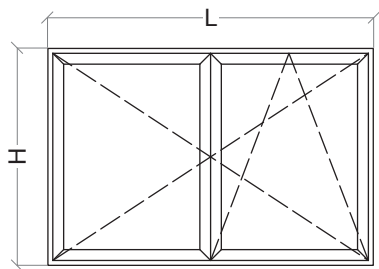
25

Vidro

Hv = H-174 mm	Lv = L-149 mm
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Janela 2 folhas abrir e oscilo-batente



Perfis

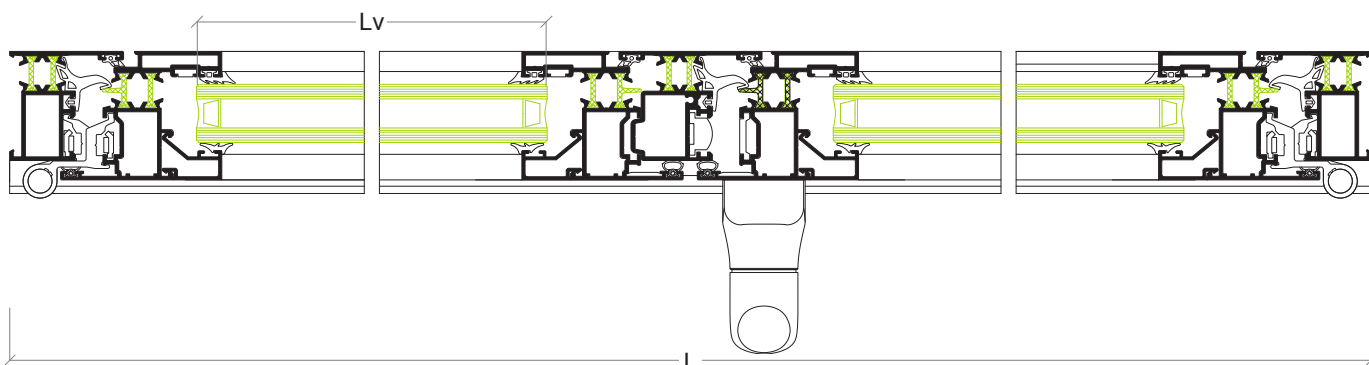
Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-03	Aro fixo		2	L
				2	H-24 mm
	AXi-64	Aro móvel		4	L/2-24 mm
				4	H-66 mm
	AXi-57	Soleira condensação		1	L
	AX-19	Vareta		1+1	Apro. L+H
	---	Bite		4	L/2-117 mm
				4	H-199 mm
	AXi-04	Inversor		1	H-134 mm

Acessórios e Juntas

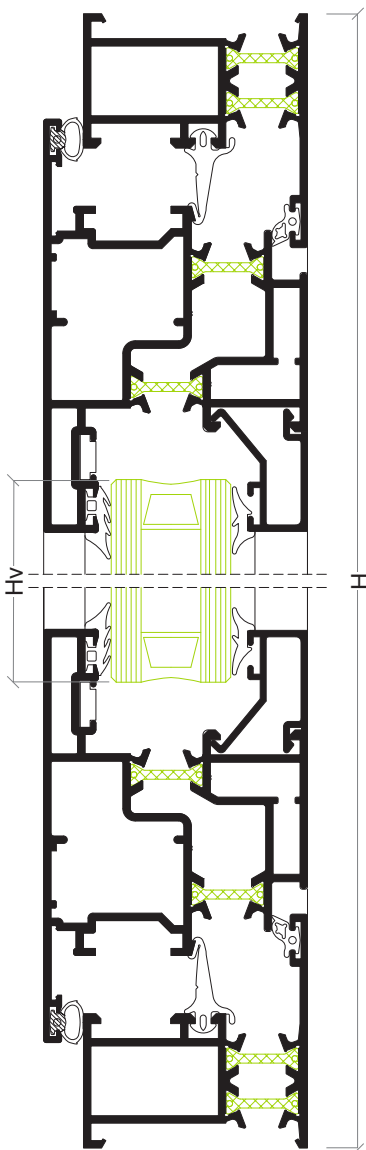
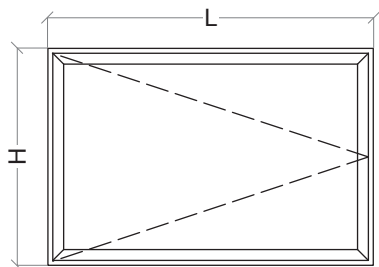
Referência	Descrição	Quantidade	
		Abriu	Oscilo-batente
30 92 00 20	Dobradiças C.E.	4	---
30 92 01 00	Goteiras	4	4
30 92 01 20	Jogo fecho C.E.	1	---
30 92 01 35	Esquadro alinhamento aro móvel	8	8
30 92 02 (xx)	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 24	Kit 2ª folha oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 92 03 80	Esquadro janela	12	12
30 92 01 12	Jogo topos inversor	1	1
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	8	8
30 92 03 96	Canto vulcanizado	4	4
30 92 04 70	Espuma isolante	L	L
30 93 00 90	Junta exterior	2L+4H	
30 93 01 10	Junta central	2L+3H	
30 93 01 20	Junta interior	2L+4H	
---	Junta exterior vidro	2L+4H	
---	Junta interior vidro	2L+4H	

Vidro

Hv = H-174 mm	Lv = L/2-131 mm
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Janela 1 folha abertura exterior



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-03	Aro fixo		2	L
				2	H
	AXi-60	Aro móvel abertura exterior		2	L-42 mm
				2	H-42 mm
	AX-19	Vareta		1	H
	---	Bite		2	L-168 mm
				2	H-208 mm

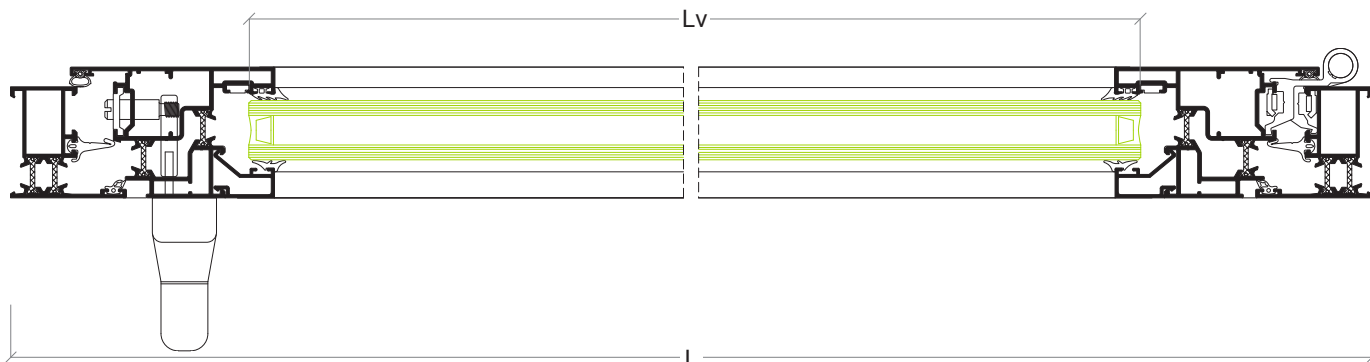
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	2
30 92 02 60	Apoio da folha	1
30 92 04 50	Cremona abertura exterior	1
30 92 03 80	Esquadro janela	8
30 96 00 15	Esquadro alinhamento móvel	4
30 92 04 60	Jogo de transmissão abertura exterior	1
30 92 01 35	Esquadro alinhamento	4
30 96 00 38	Esquadro interno móvel	4
30 93 00 50	Junta central (opcional)	2L+2H
30 93 00 90	Junta exterior	2L+2H
30 93 01 20	Junta interior	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

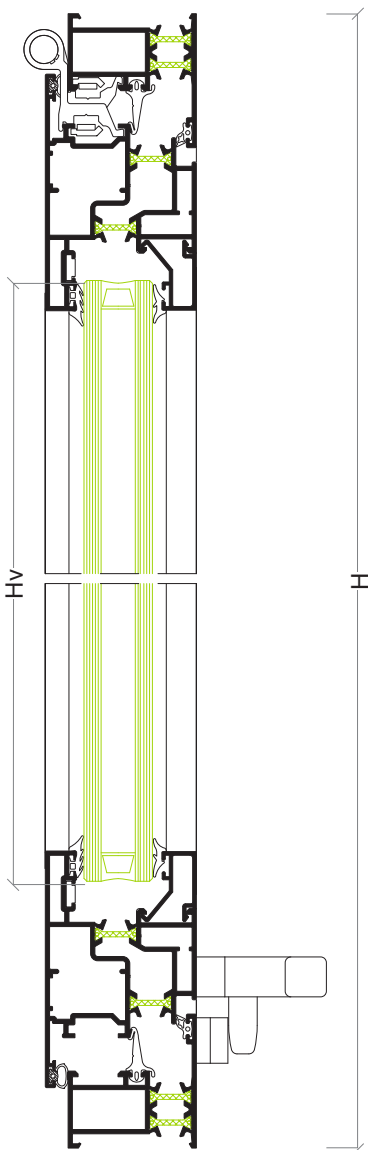
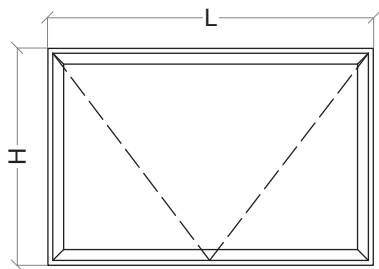
27

Vidro

Hv = H-182 mm	Lv = L-182 mm
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Janela 1 folha projectante



Perfis

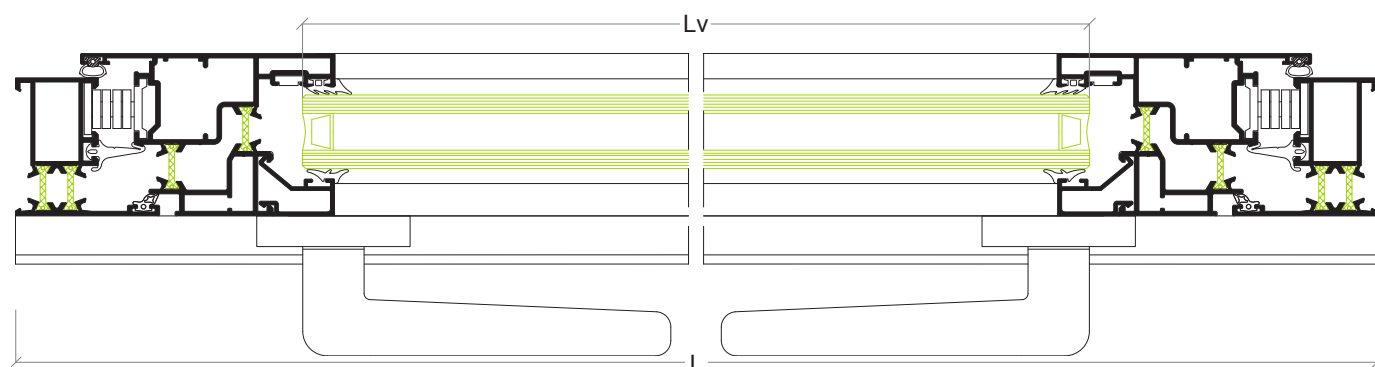
Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-03	Aro fixo		2	L
				2	H
	AXi-60	Aro móvel abertura exterior		2	L-42 mm
				2	H-42 mm
	---	Bite		2	L-168 mm
				2	H-208 mm

Acessórios e Juntas

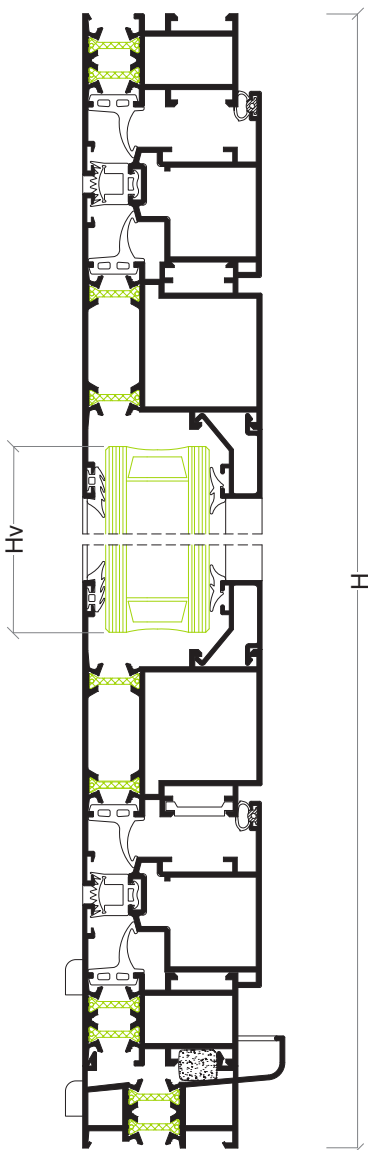
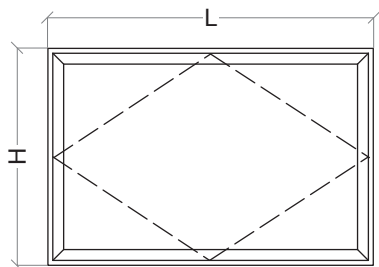
Referência	Descrição	Quantidade
30 92 03 80	Esquadro janela	8
30 92 04 85	Jogo compasso	1
30 92 06 10	Cremone de lingueta	2
30 96 00 15	Esquadro alinhamento móvel	4
30 92 01 35	Esquadro alinhamento	4
30 96 00 38	Esquadro interno móvel	4
30 93 00 50	Junta central (opcional)	2L+2H
30 93 00 90	Junta exterior	2L+2H
30 93 01 20	Junta interior	2L+2H
30 92 00 20	Dobradiças CE	2
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-182 mm	Lv = L-182 mm
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Janela pivotante horizontal



Perfis

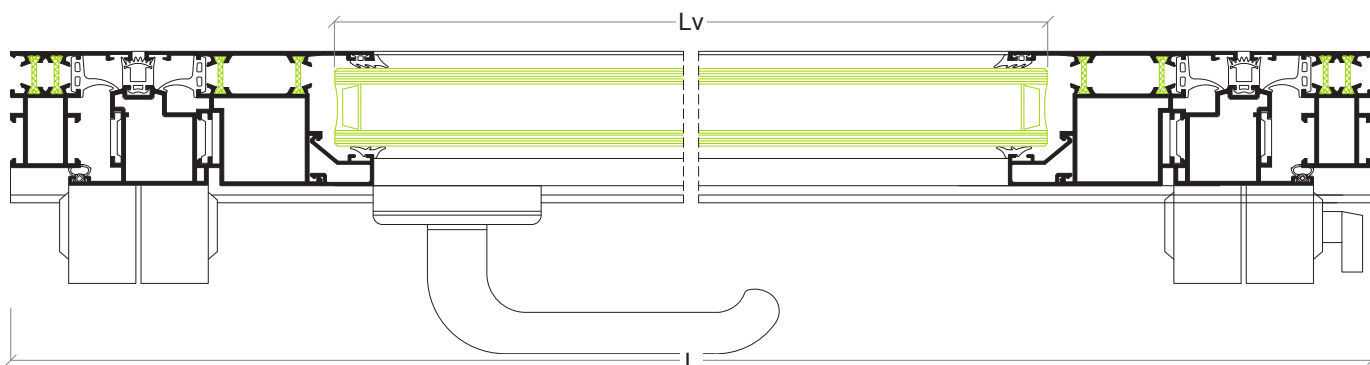
Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-38	Aro fixo		2	L
				2	H-24 mm
	AXi-40	Aro móvel		2	L-104 mm
				2	H-128 mm
	AXi-41	Inversor		2	L-45 mm
				2	H/2-12 mm
	AXi-57	Soleira condensação		1	L
	---	Bite		2	L-241 mm
				2	H-305 mm

Acessórios e Juntas

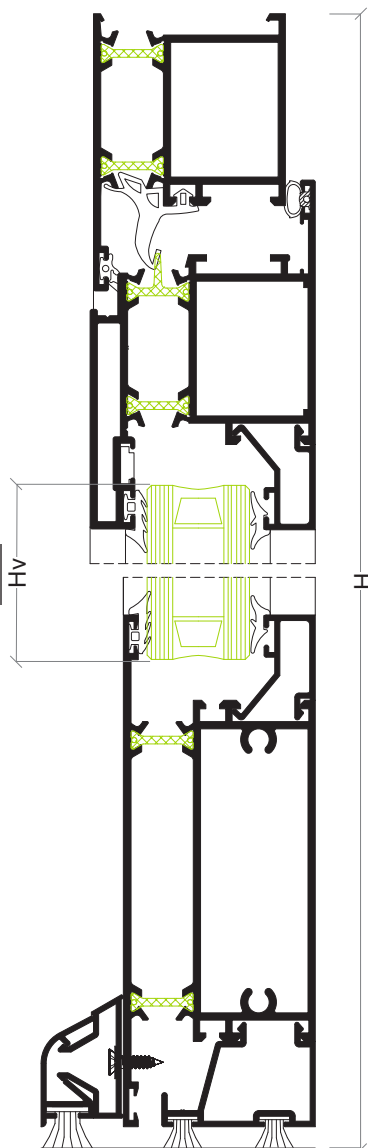
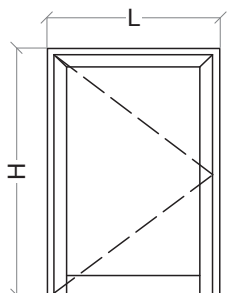
Referência	Descrição	Quantidade
30 20 30 09	Esquadro móvel	4
30 92 01 00	Goteiras	4
30 92 03 80	Esquadro janela	4
30 92 04 10	Esquadro inversor pivotante	4
30 92 07 10	Jogo pivotante	1
30 92 06 11	Cremona de lingueta	2
30 96 00 12	Jogo topos condensação	1
30 92 04 70	Espuma isolante	L
30 00 95 01	Junta exterior	2L+2H
30 20 30 08	Junta central	4L+4H
30 93 01 20	Junta interior	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-279 mm	Lv = L-255 mm
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Porta 1 folha



Perfis

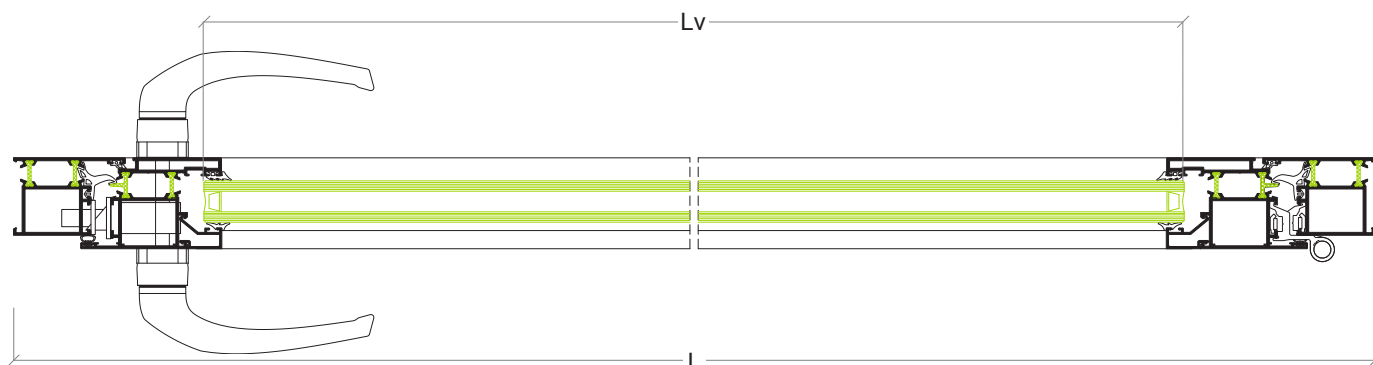
Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-08	Aro fixo		1	L
				2	H
	AXi-65	Aro móvel		1	L-78 mm
				2	H-44 mm
	AXi-12	Travessa		1	L-193 mm
	AX-15	Bite remate		1	L-202 mm
	---	Bite		2	L-202 mm
				2	H-246 mm
	AZ-60	Pingadeira		1	L-145 mm
	AZ-61	Clip pingadeira		1	L-242 mm

Acessórios e Juntas

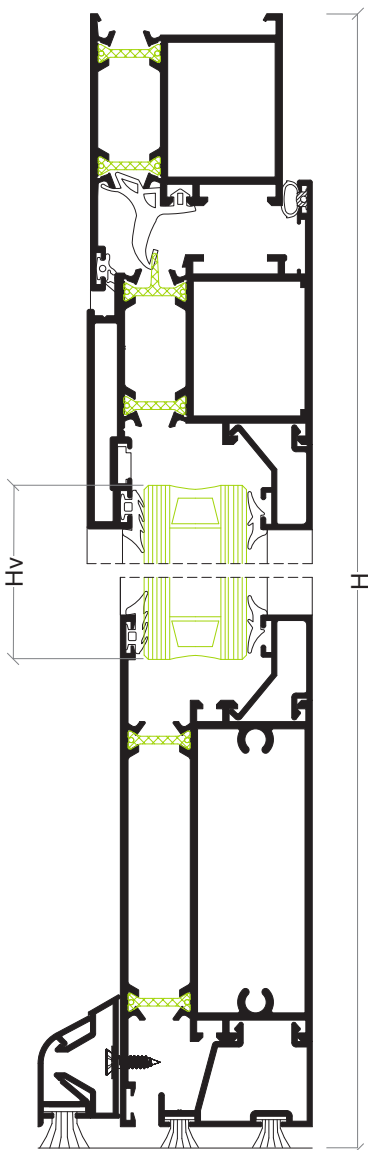
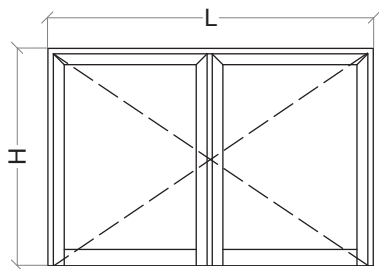
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	3
30 92 03 90	Esquadro porta	4
30 92 05 10	Fechadura 3 pontos	1
30 92 05 40	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 15	Esquadro alinhamento móvel	2
30 92 05 00	Jogo topos	1
30 92 03 96	Canto vulcanizado	2
30 96 00 28	Esquadro alinhamento	2
30 93 00 90	Junta exterior	1L+2H
30 93 01 10	Junta central	1L+2H
30 93 01 20	Junta interior	1L+2H
30 95 00 10	Pelúcia 7x9 mm	2L
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-220 mm	Lv = L-216 mm
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Porta 2 folhas



Perfis

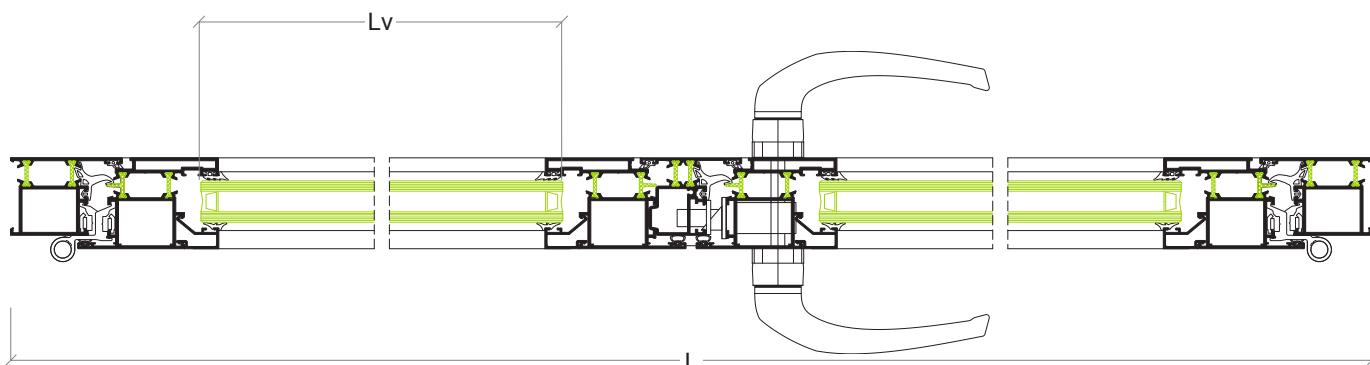
Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-08	Aro fixo		1	L
				4	H
	AXi-65	Aro móvel		2	L/2-42 mm
				4	H-44 mm
	AXi-04	Inversor		1	H-78 mm
	AXi-12	Travessa		2	L/2-157 mm
	AX-15	Bite remate		2	L/2-166 mm
	---	Bite		4	L/2-166 mm
				4	H-246 mm
	AZ-60	Pingadeira		1	Aprox. L/2
				1	Aprox. L/2
	AZ-61	Clip pingadeira		2	L/2-206 mm

Acessórios e Juntas

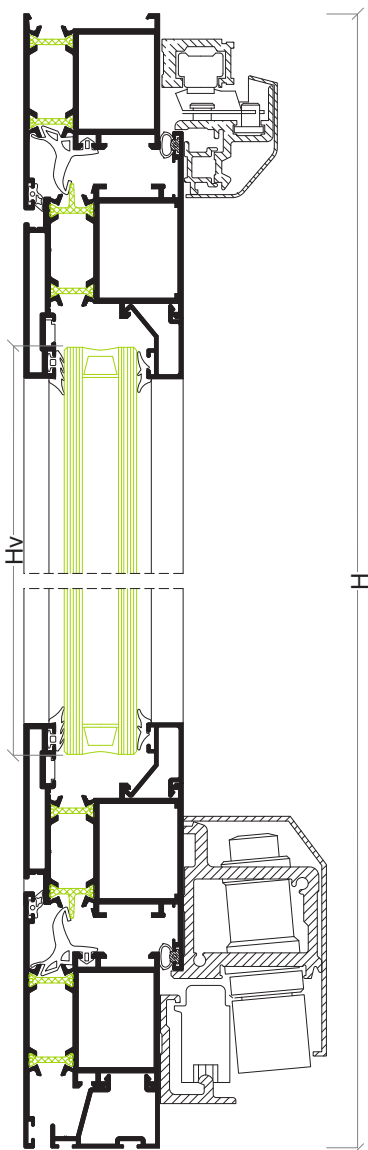
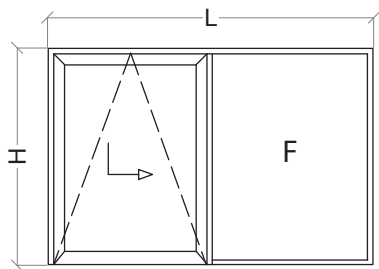
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	6
30 92 01 12	Jogo topos inversor	1
30 92 01 20	Jogo fecho C.E.	1
30 92 03 90	Esquadro porta	6
30 92 05 10	Fechadura 3 pontos	1
30 92 05 40	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 15	Esquadro alinhamento móvel	4
30 92 05 00	Jogo topos	1
30 92 03 96	Canto vulcanizado	2
30 96 00 28	Esquadro alinhamento	2
30 93 00 90	Junta exterior	1L+4H
30 93 01 10	Junta central	1L+3H
30 93 01 20	Junta interior	L+4H
30 95 00 10	Pelúcia 7x9 mm	2L
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-220 mm	Lv = L-180 mm
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Porta oscilo-paralela com fixo lateral



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-08	Aro fixo		1	L
				2	H
	AXi-65	Aro móvel		2	L1-56 mm
				2	H-98 mm
	AXi-06	Travessa		1	L-81 mm
				1	H-101mm
	AX-15	Bite remate		1	L-90 mm
	AX-19	Vareta		1+1	Apro. L+H
	---	Bite (folha)		2	L1-180 mm
				2	H-262 mm
	---	Bite (fixo)		2	L2-67.5 mm
				2	H-150 mm

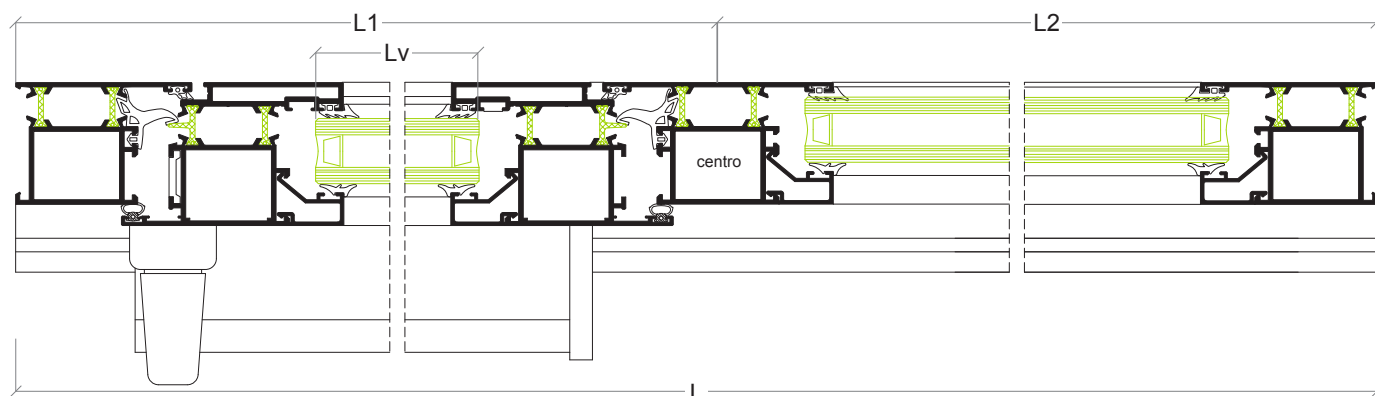
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 01 50	União topos porta	2
30 92 03 90	Esquadro porta	6
30 96 00 15	Esquadro alinhamento móvel	4
---	Kit oscilo-paralela	1
30 92 03 96	Canto vulcanizado	4
30 96 00 28	Esquadro alinhamento	4
30 93 00 90	Junta exterior	2L1+2H
30 93 01 10	Junta central	2L1+2H
30 93 01 20	Junta interior	2L1+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

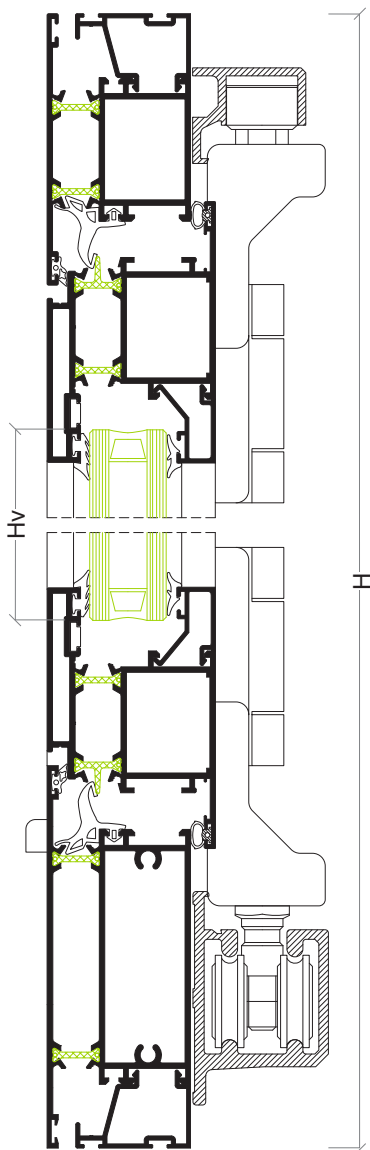
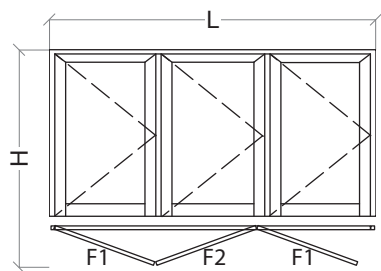
	Mínimo	Máximo
Largura da folha	700 mm	1650 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 150 kg		

Vidro

Hv folha = H-236 mm	Lv folha = L1-193 mm
Hv fixo = H-124 mm	Lv fixo = L2-81 mm



Porta 3 folhas harmónio



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AXi-08	Aro fixo		2	H
	AXi-06	Travessa		1	L-81 mm
	AX-12	Travessa		1	L-81 mm
	AXi-65	Aro móvel		6	(consultar)
				6	(consultar)
	AXi-04	Inversor		2	(consultar)
	AX-15	Bite remate		2	L-90 mm
	AX-19	Vareta		2	2H
	---	Bite		6	(consultar)
				6	(consultar)

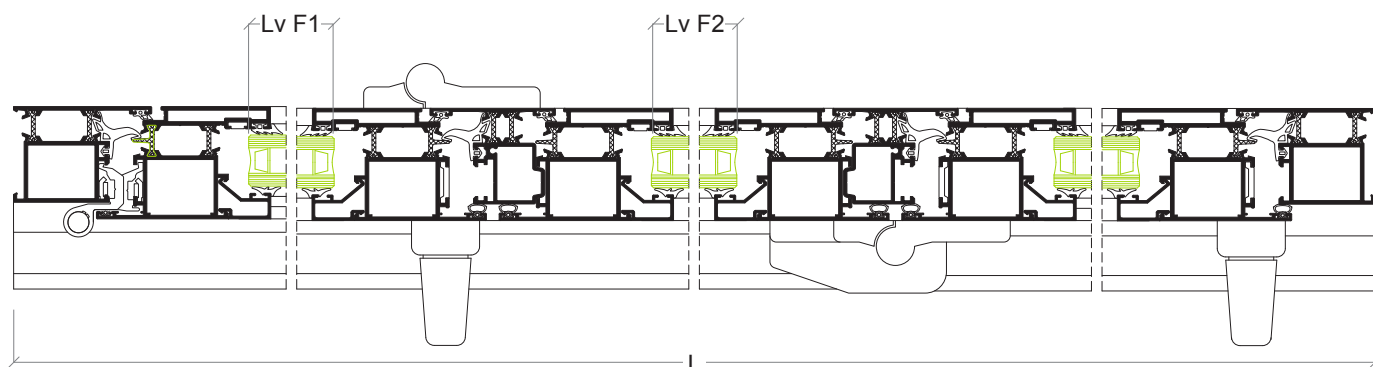
Acessórios e Juntas

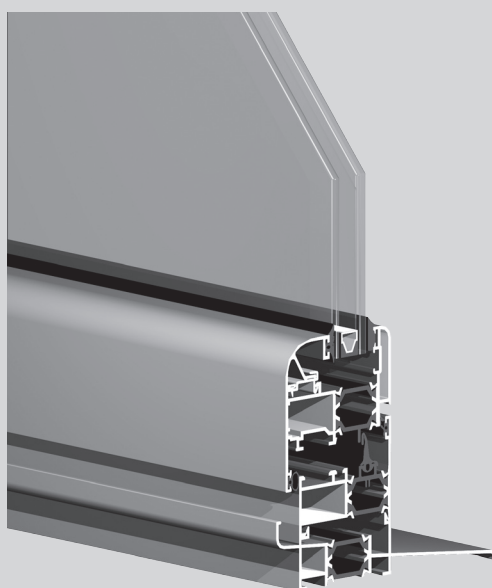
Referência	Descrição	Quantidade
30 92 01 50	União topo porta	2
30 92 01 00	Goteiras	6
30 92 01 12	Jogo topos inversor	2
30 92 03 90	Esquadro porta	12
---	Kit harmónio (3+0)	1
30 92 01 20	Jogo fecho C.E.	1
30 92 03 96	Canto vulcanizado	4
30 96 00 28	Esquadro alinhamento	12
30 96 00 15	Esquadro móvel exterior	12
30 93 00 90	Junta exterior	2L+6H
30 93 01 10	Junta central	2L+4H
30 93 01 20	Junta interior	2L+6H
---	Junta exterior vidro	2L+6H
---	Junta interior vidro	2L+6H

	Mínimo	Máximo
Largura da folha	600 mm	900 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 80 kg		

Vidro

Hv = consultar	Lv F1 = consultar
	Lv F2 = consultar





Sistema

ATi

Sistema ATi

Sistema de batente com RPT - 55 mm

Características do sistema

Sistema de batente com rotura térmica e de elevadas prestações térmicas e acústicas.

O sistema ATi possibilita a execução de 4 versões de caixilharia:

1. linha recta;
2. linha curva;
3. linha tradição;
4. linha oval.

O sistema ATi permite a aplicação de vidros duplos de alto rendimento de modo a responder às exigências de isolamento térmico e acústico.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Perfis com rotura térmica obtida por inserção de varetas isolantes de poliamida tipo ómega de 24 mm reforçadas com 25% de fibra de vidro.

Espessura média dos perfis de alumínio de 1.5 mm para janelas e de 1.7 mm para portas;

Aros fixos

Secção dos aros fixos de 55 mm ou 80 mm;

Aros fixos com esquadro para montagem a meia esquadria;

Aros fixos tradicionais para mercado interno;

Aros fixos com clip exterior e aba de remate directa de 25 mm ou 45 mm para o mercado francês;

Aros fixos com clip exterior e interior para aplicação de remate de 30 mm para o mercado francês.

Aros móveis

Secção dos aros móveis de 63 mm;

Enchimento para vidro simples ou duplo de 4 mm a 47 mm;

Aros móveis de linha recta, curva, tradição ou oval (sem bite);

Aros móveis com esquadro para montagem a meia esquadria;

Perfil inversor de linha recta.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 400 mm - 1500 mm (L); 400 mm - 2700 mm (H);

Possibilidades de abertura: fixo, batente interior 1 ou 2 folhas com oscilo-batente, exterior, basculante, projectante, harmónio e oscilo-paralela;

Estanquidade assegurada através de juntas triplas em EPDM.

Performances

Sistema certificado por laboratório notificado para Ensaios Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema AXi tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 9A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema ATi tipologia porta:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E750 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)
4. Resistência à torção estática: Apto 350N (norma de ensaio EN 14609)

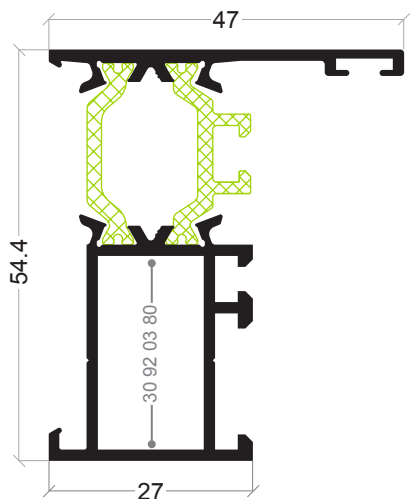
Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 1.50 m com vidro $U_g = 0.7 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.57 \text{ W/m}^2\text{K}$

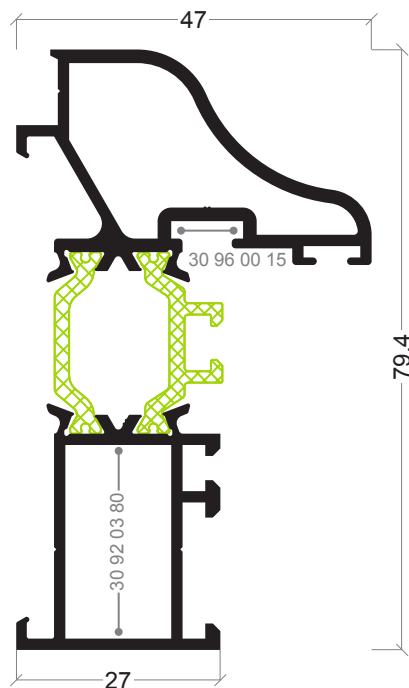
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/14 (gás árgon)/6:

• $R_w (C; C_{tr}) = 34 \text{ dB} (-1; -4)$

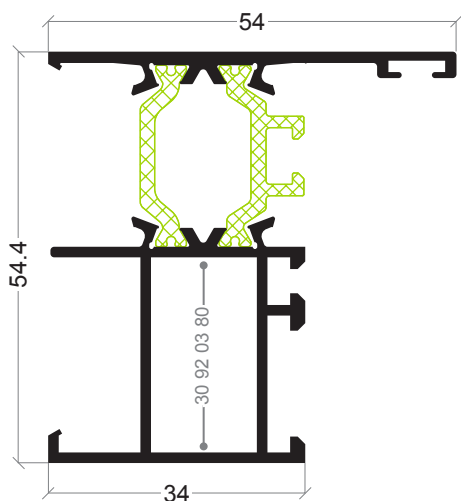
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3.



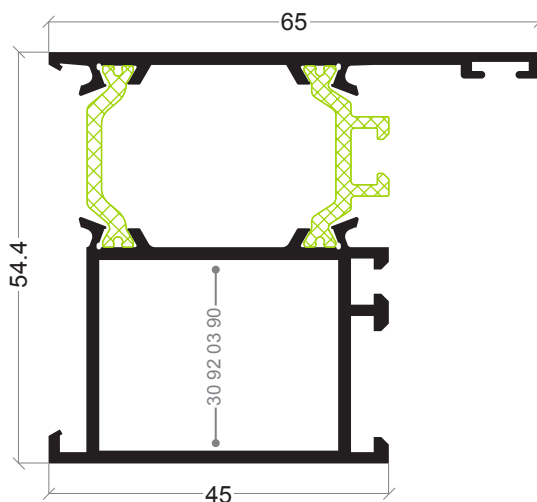
ATi-03
Aro fixo



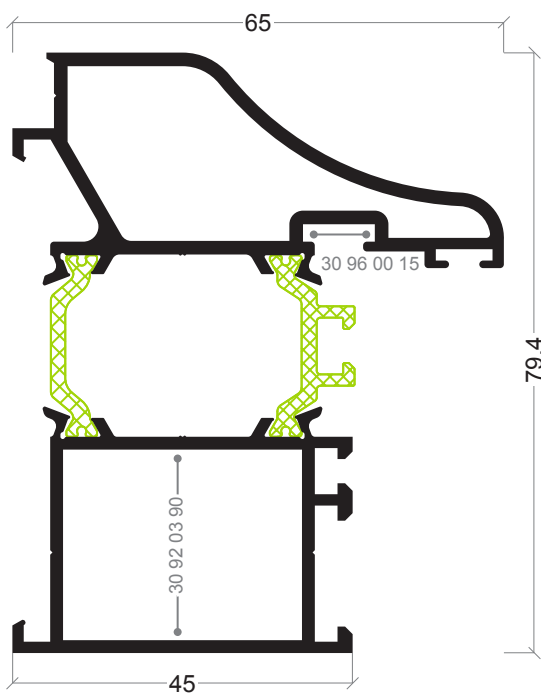
ATi-49
Aro fixo



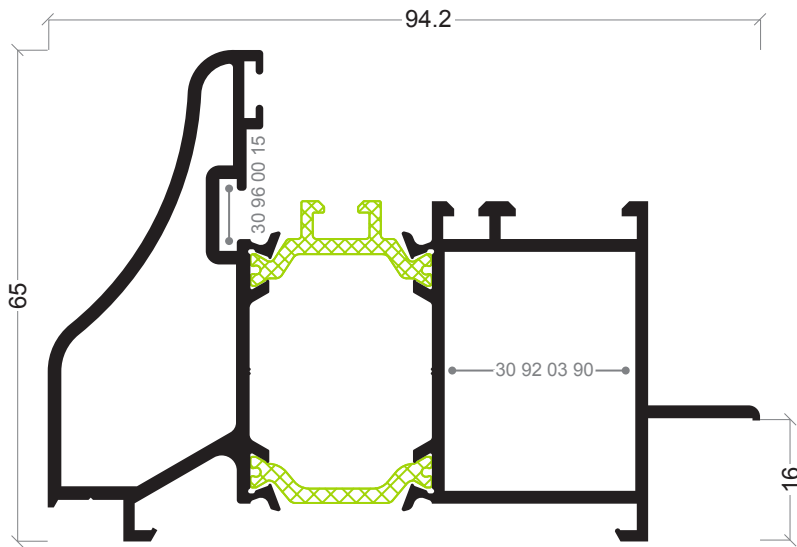
ATi-81
Aro fixo



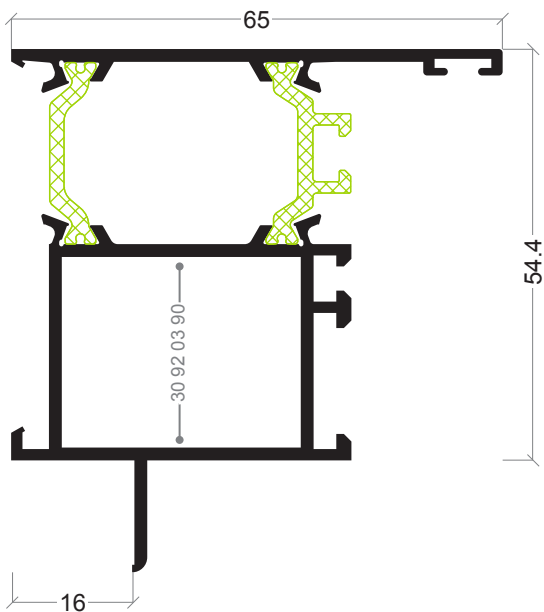
ATi-08
Aro fixo



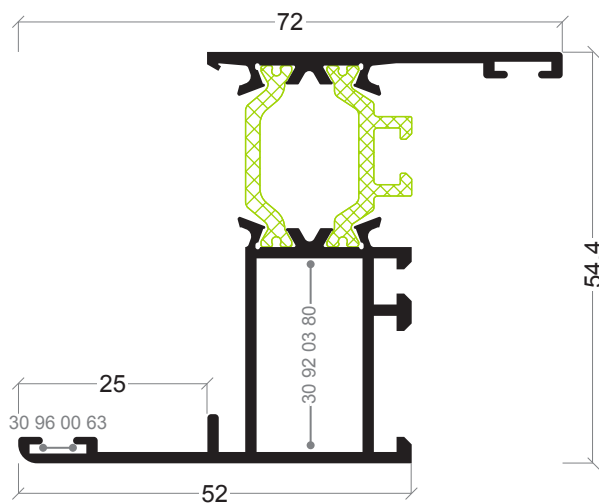
ATi-50
Aro fixo



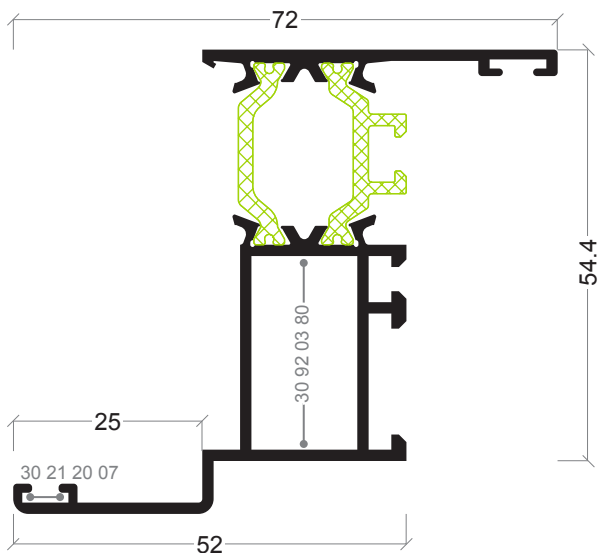
ATi-51
Aro fixo para apanelado



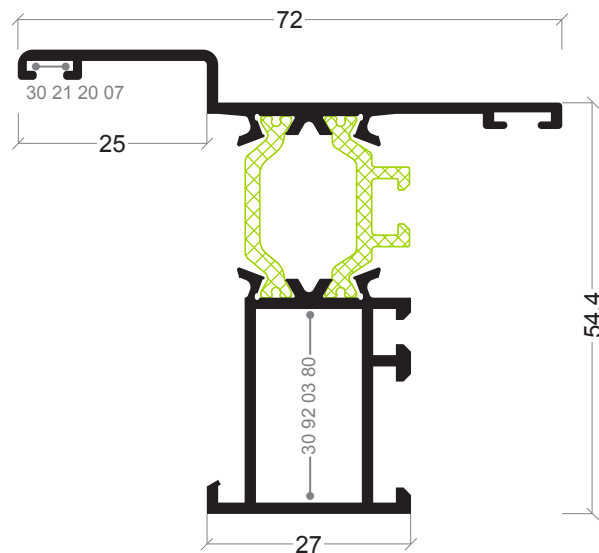
ATi-48
Aro fixo para apanelado



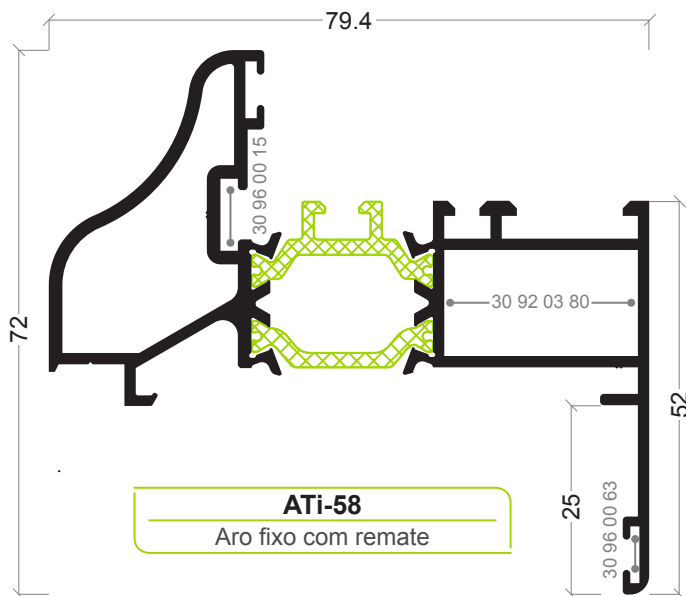
ATi-25
Aro fixo com remate



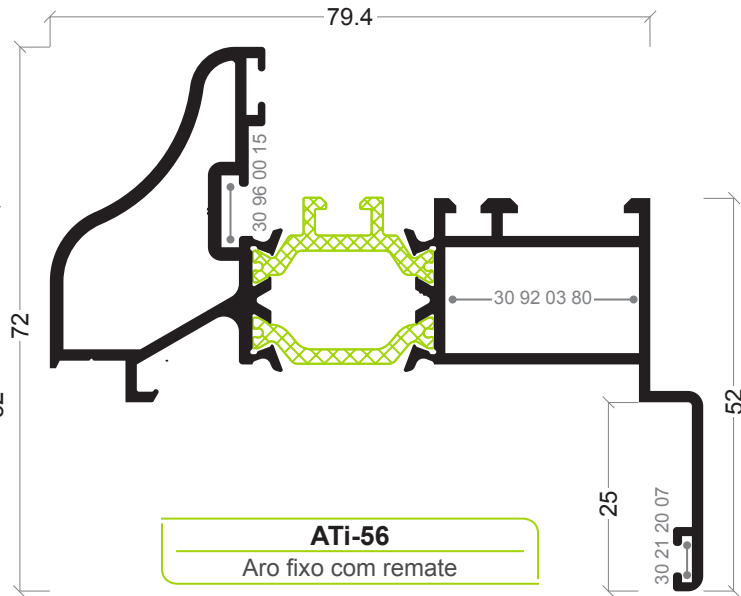
ATi-19
Aro fixo com remate



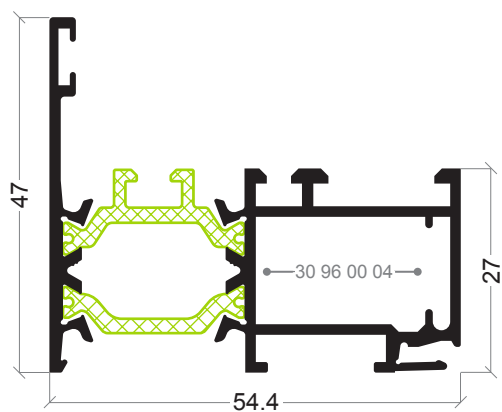
ATi-23
Aro fixo com remate



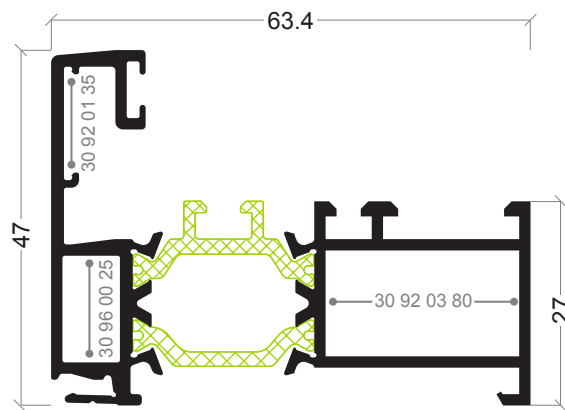
ATi-58
Aro fixo com remate



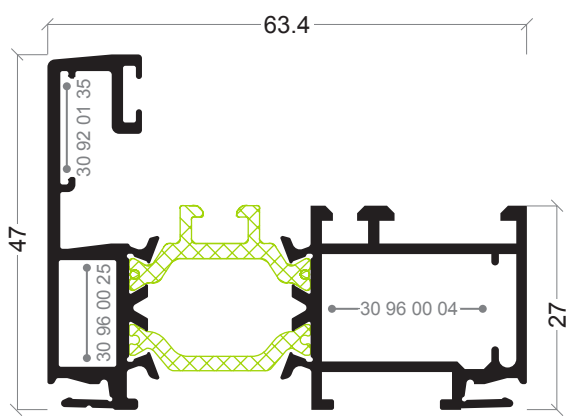
ATi-56
Aro fixo com remate



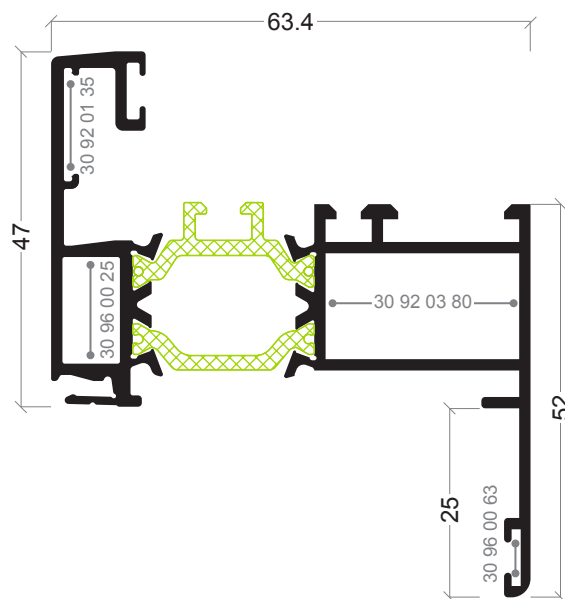
ATi-90
Aro fixo



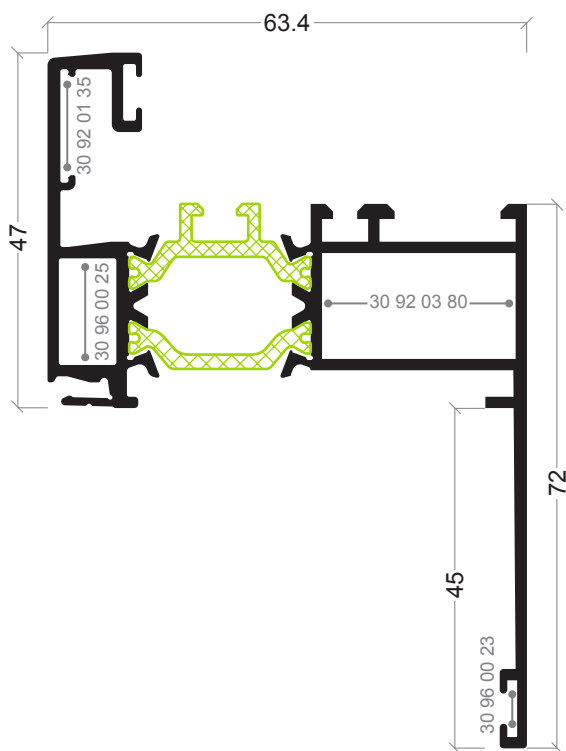
ATi-86
Aro fixo



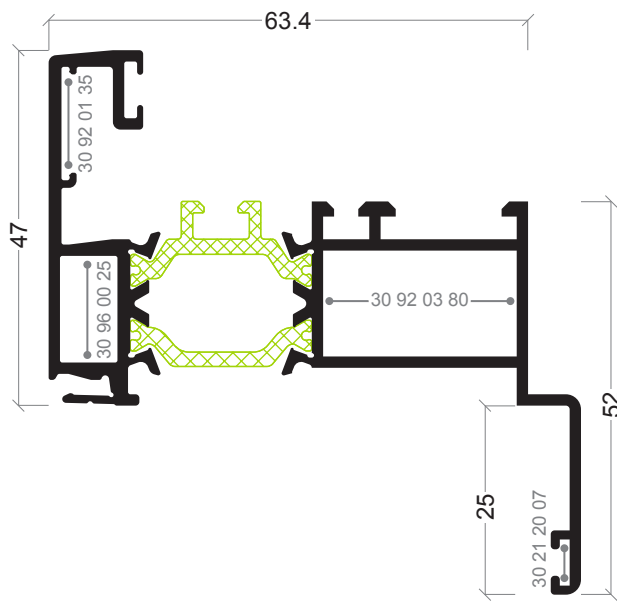
ATi-87
Aro fixo



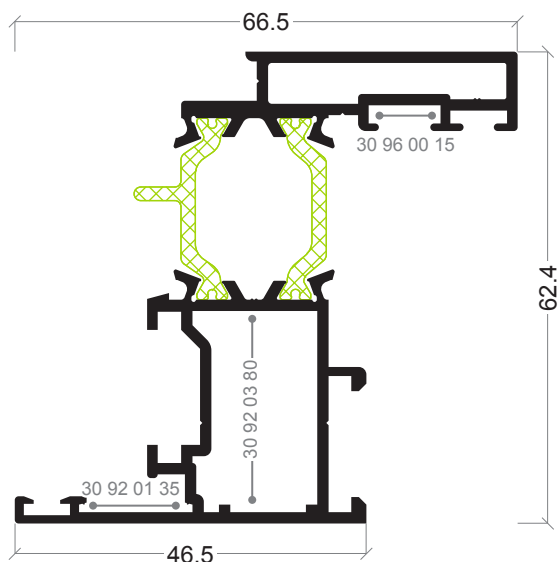
ATi-85
Aro fixo com remate



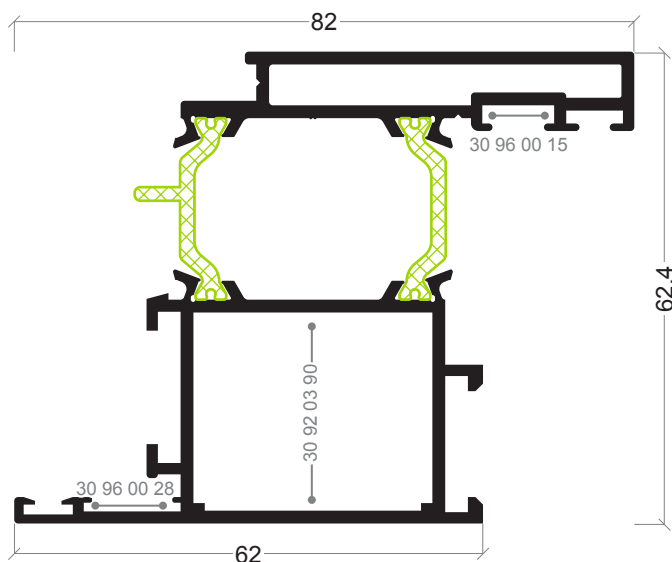
ATi-82
Aro fixo com remate



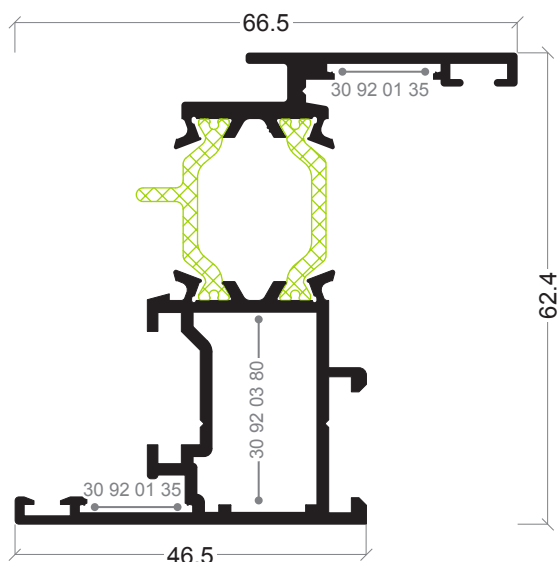
ATi-84
Aro fixo com remate



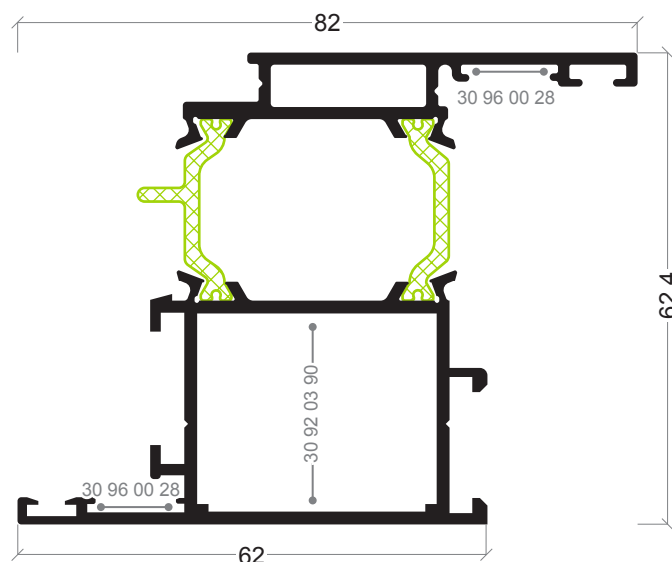
ATi-64
Aro móvel



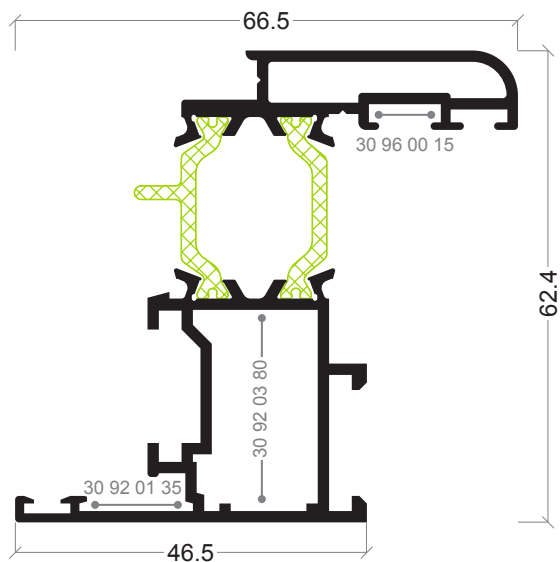
ATi-65
Aro móvel



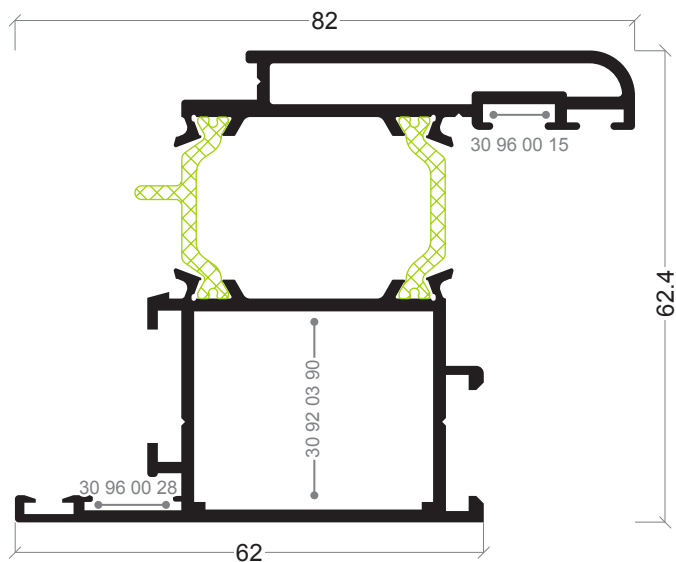
ATi-02
Aro móvel



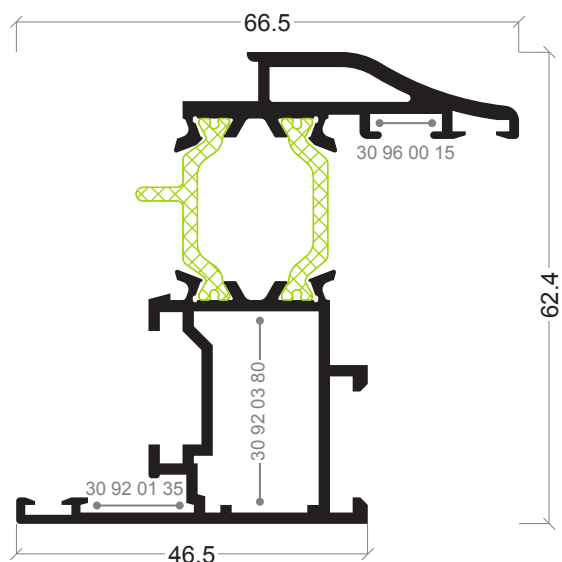
ATi-07
Aro móvel



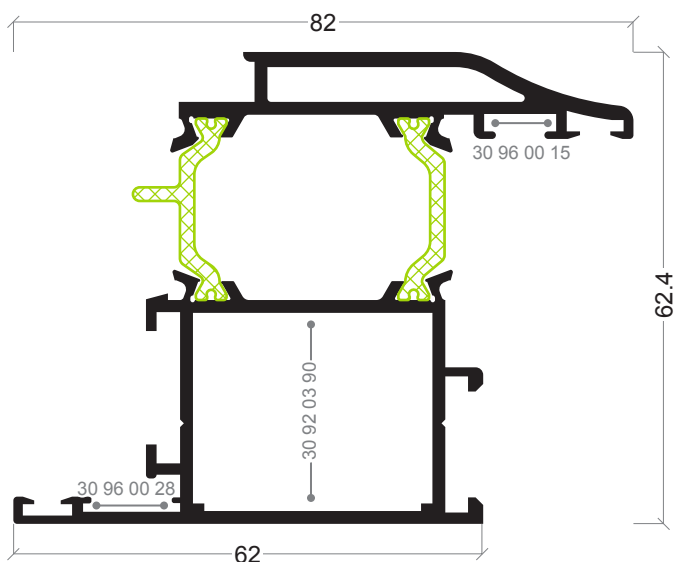
ATi-05
Aro móvel



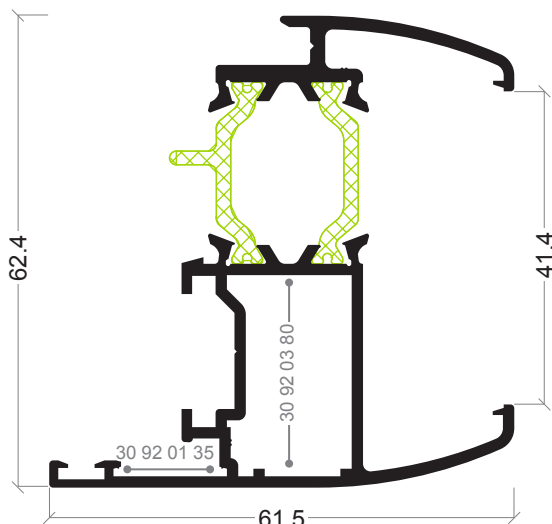
ATi-10
Aro móvel



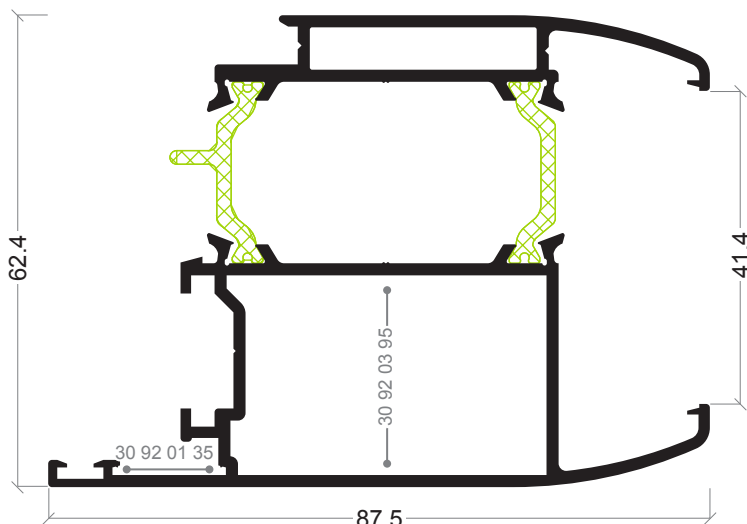
ATi-52
Aro móvel



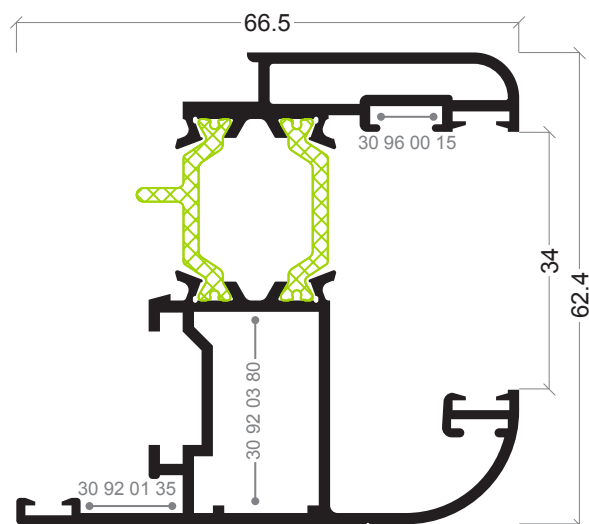
ATi-53
Aro móvel



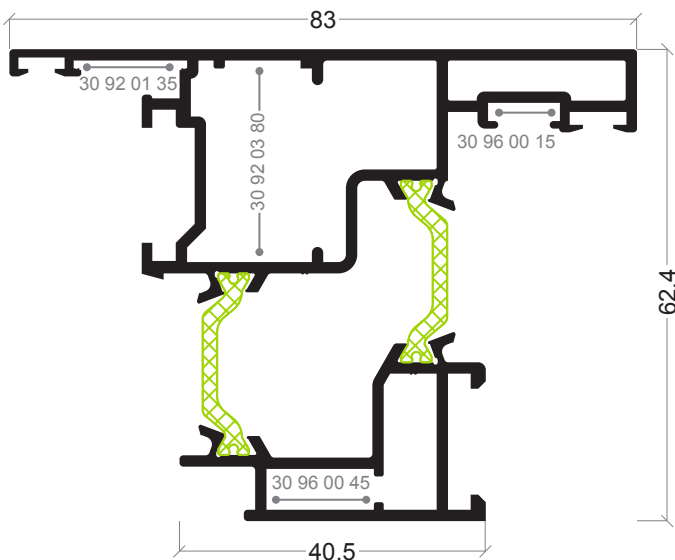
ATi-76
Aro móvel



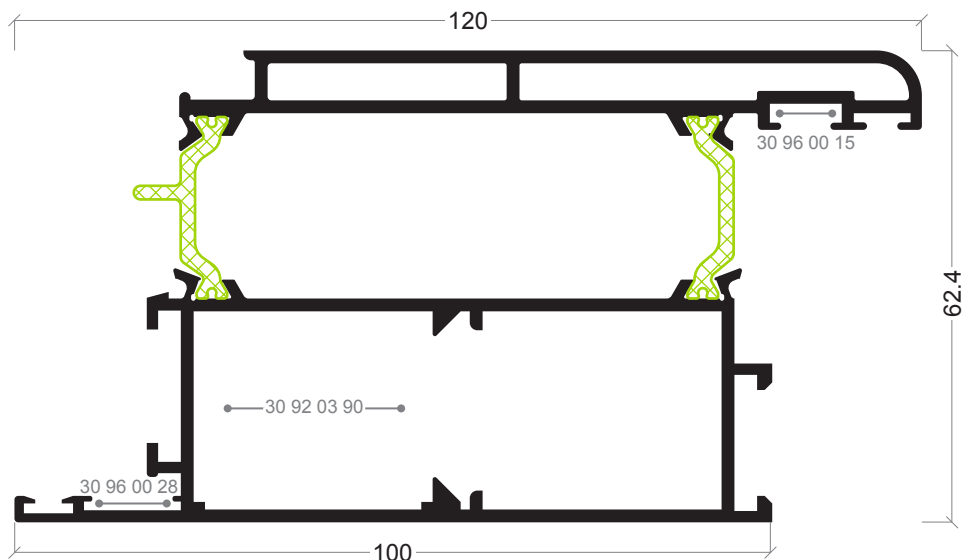
ATi-77
Aro móvel



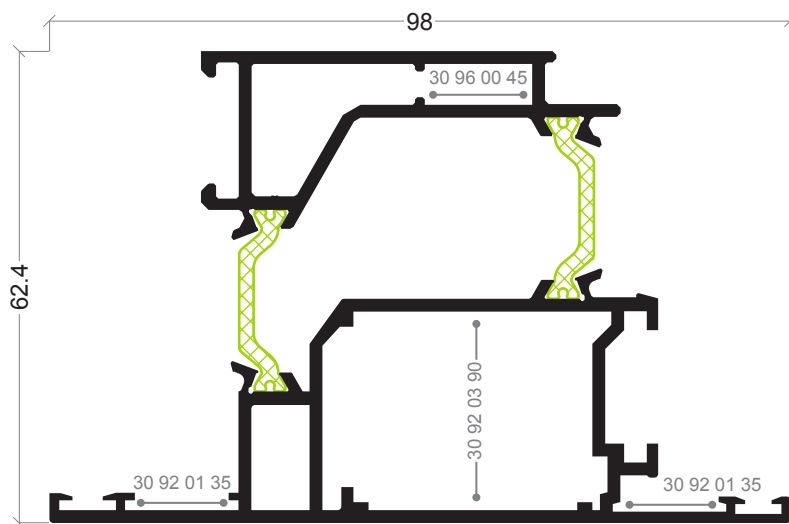
ATi-44
Aro móvel



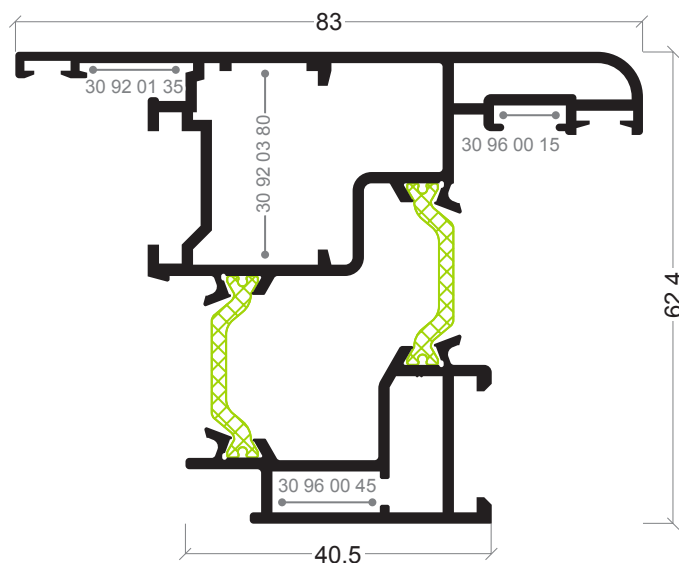
ATi-60
Aro móvel abertura exterior



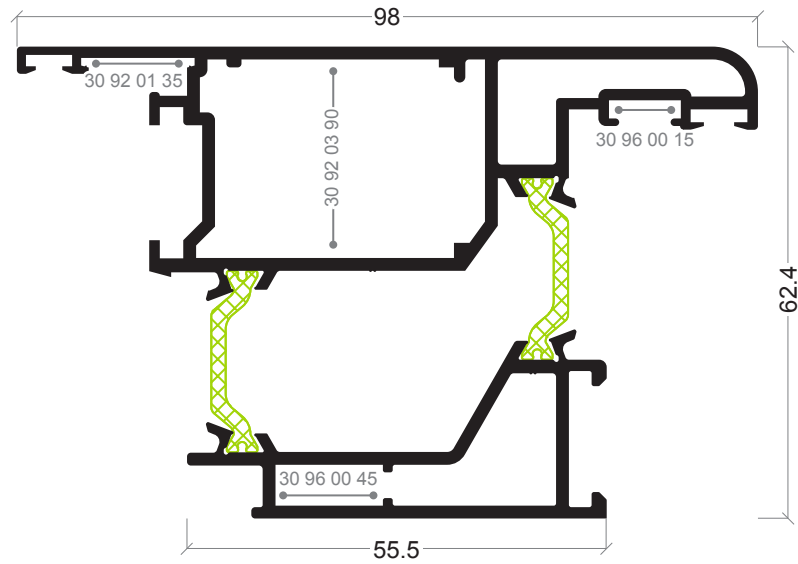
ATi-66
Aro móvel



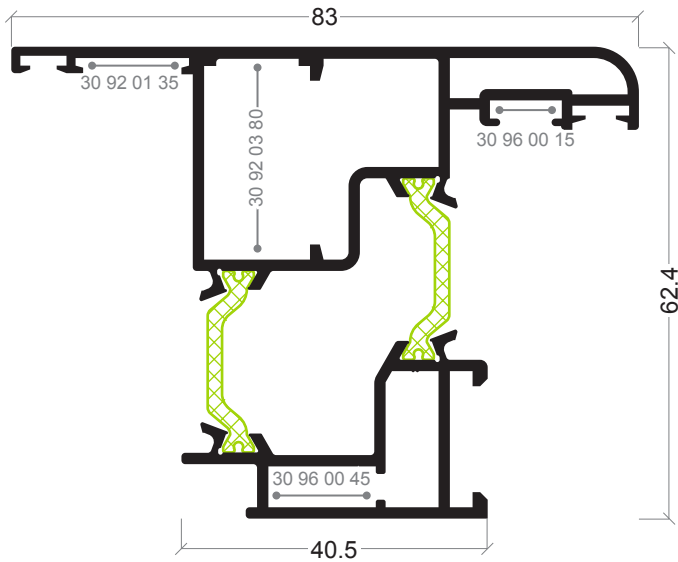
ATi-71
Aro móvel abertura exterior



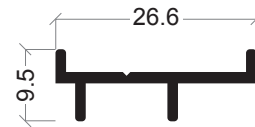
ATi-59
Aro móvel abertura exterior



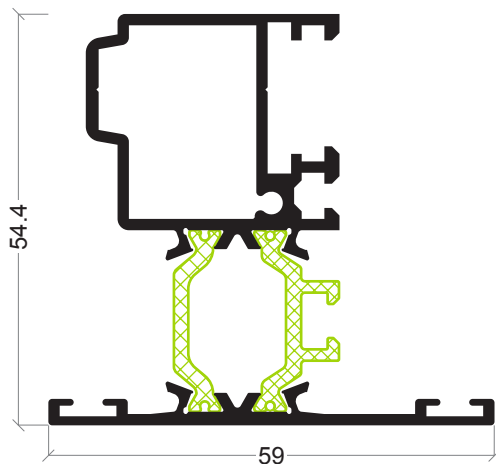
ATi-62
Aro móvel abertura exterior



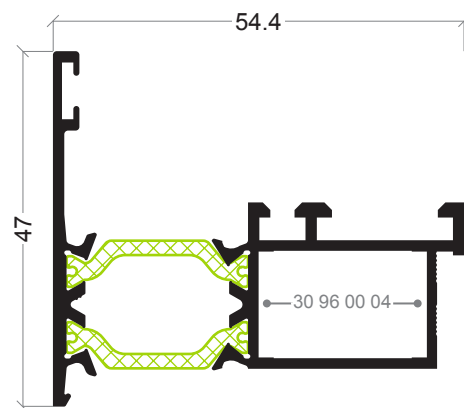
ATi-63
Aro móvel projectante



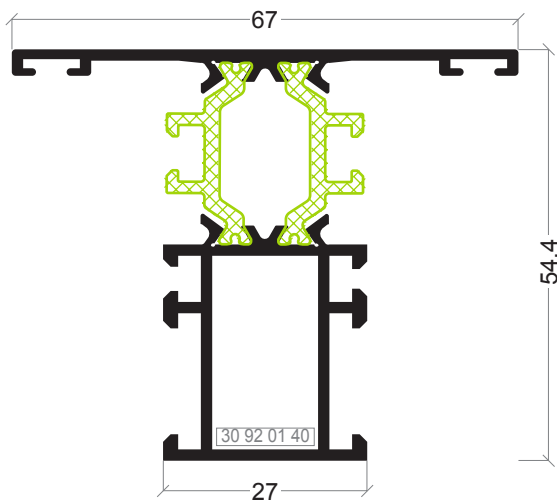
AXi-32
Complemento abertura projectante



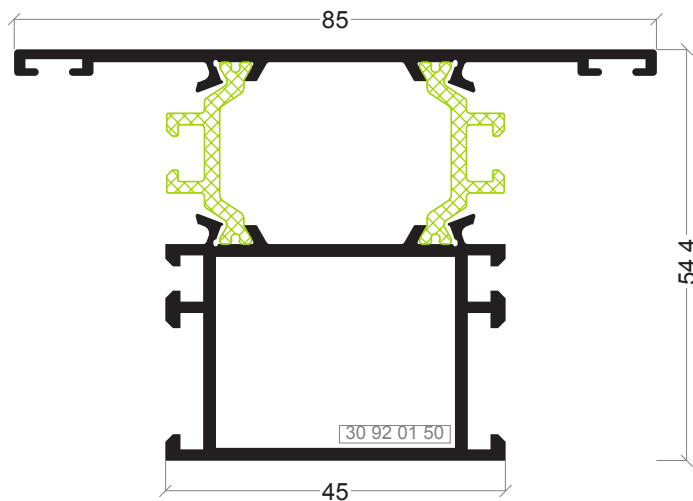
ATi-04
Inversor



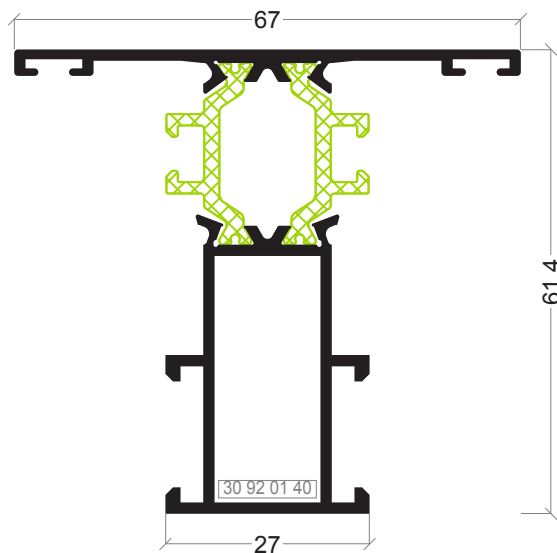
ATi-75
Inversor abertura exterior



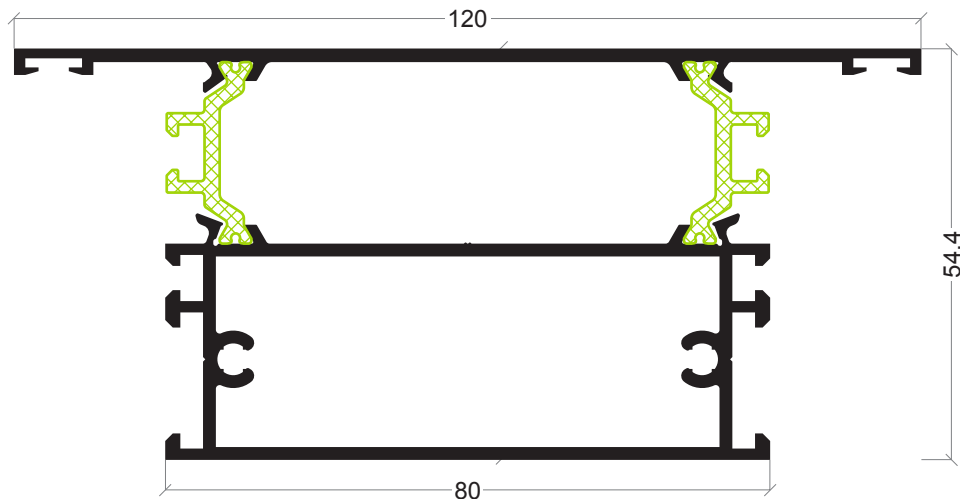
ATi-01
Travessa



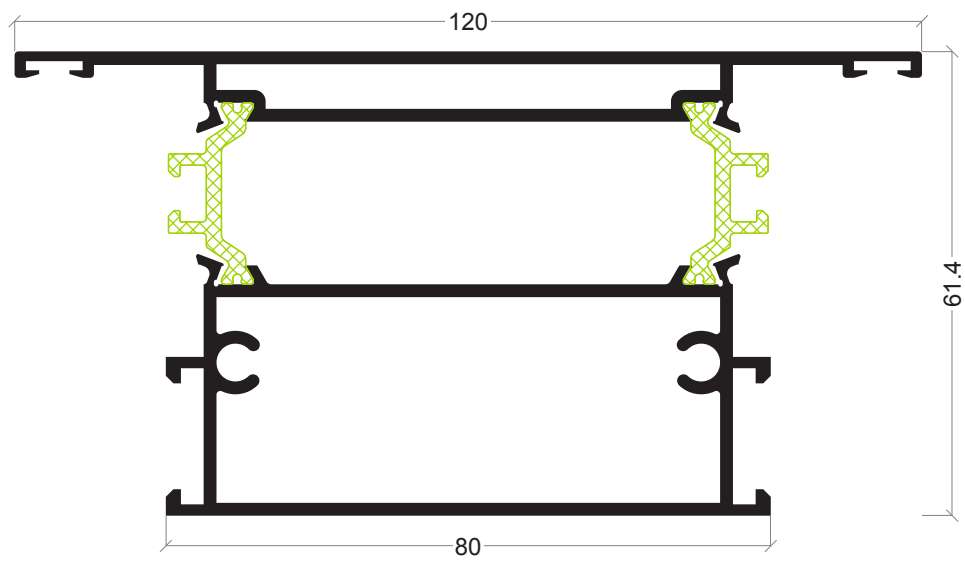
ATi-06
Travessa



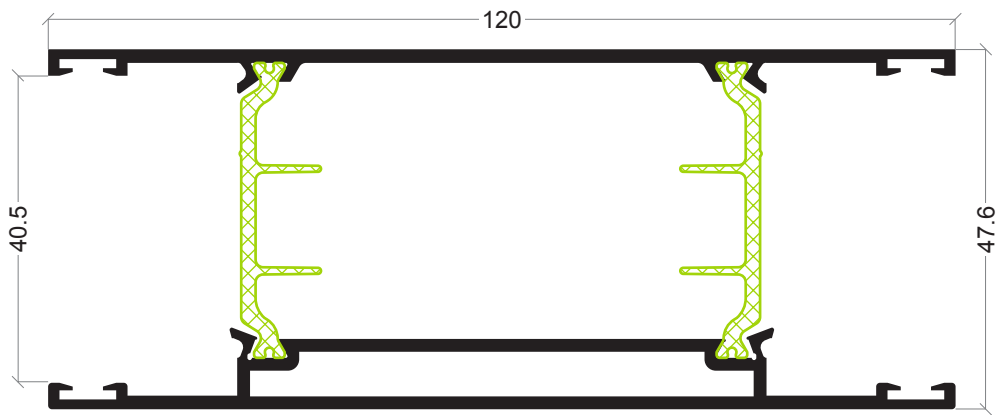
ATi-09
Travessa



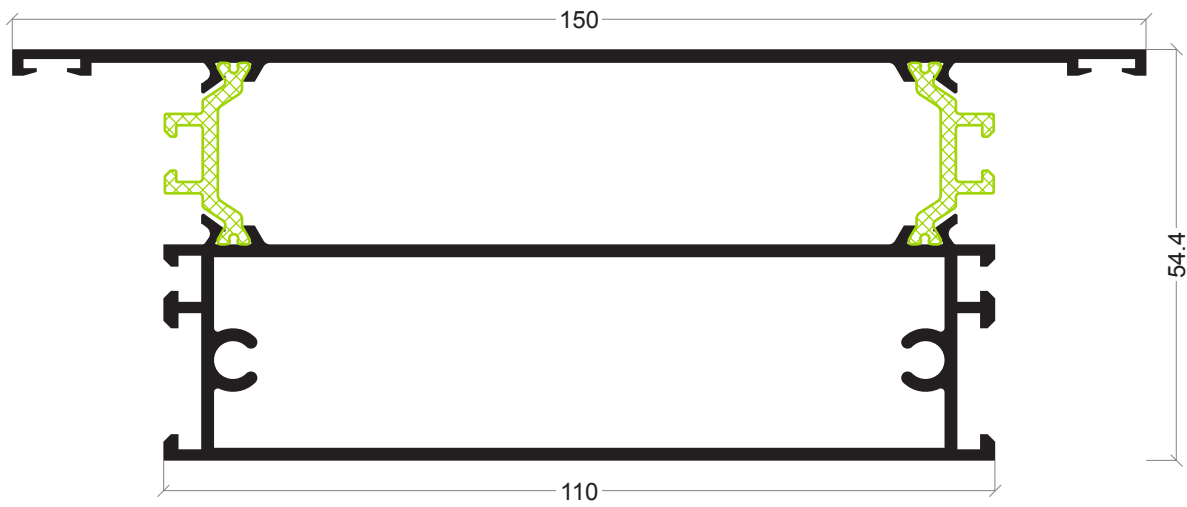
ATi-12
Travessa



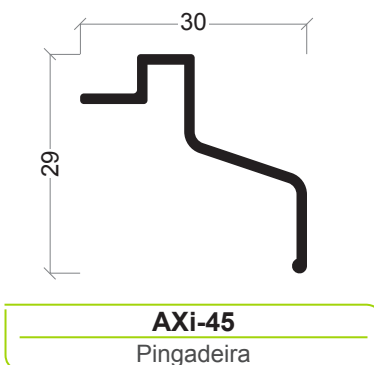
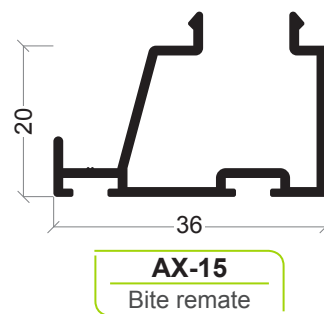
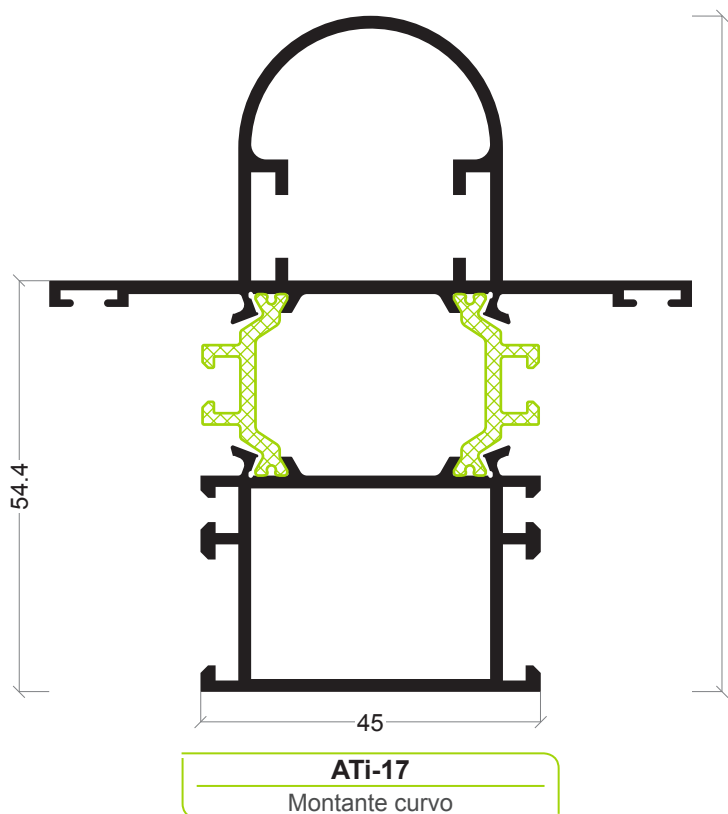
ATi-14
Travessa



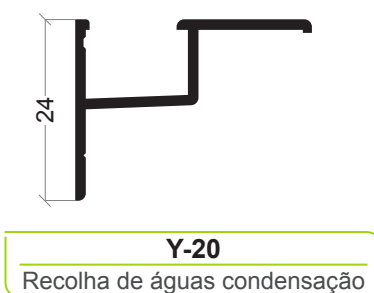
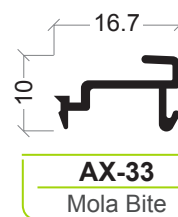
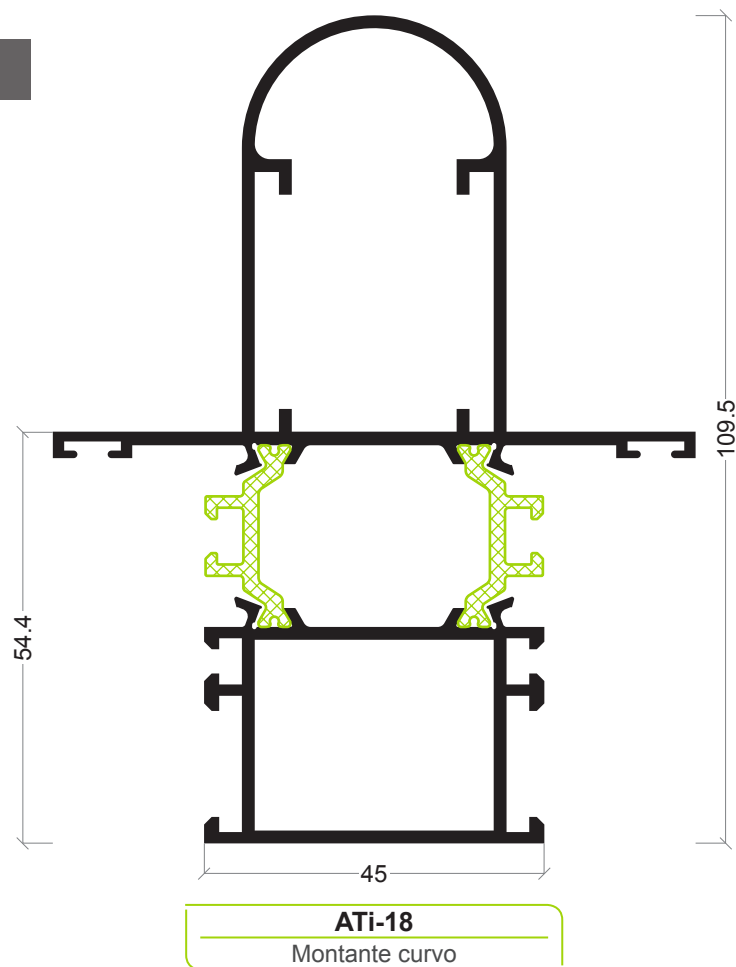
ATi-79
Travessa para ATi-77

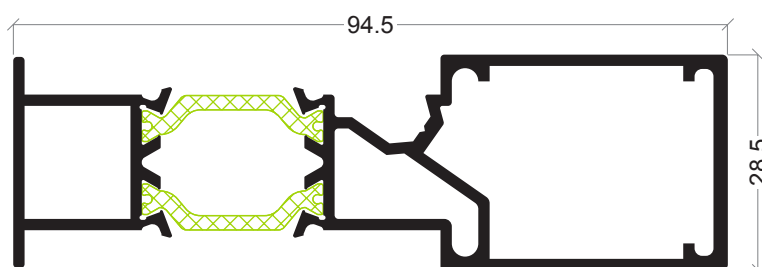
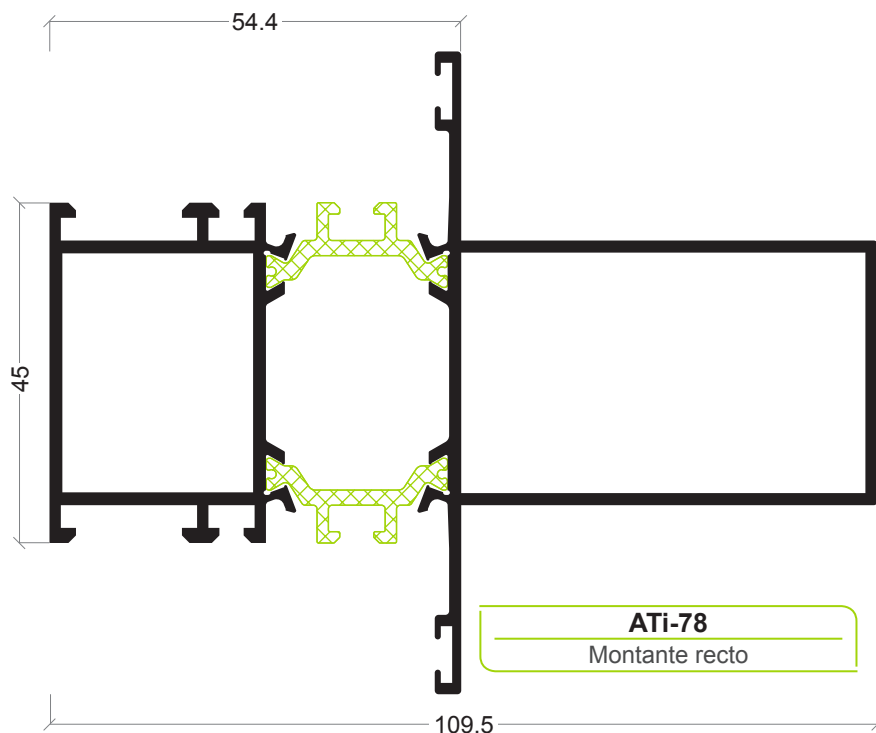


ATi-13
Travessa

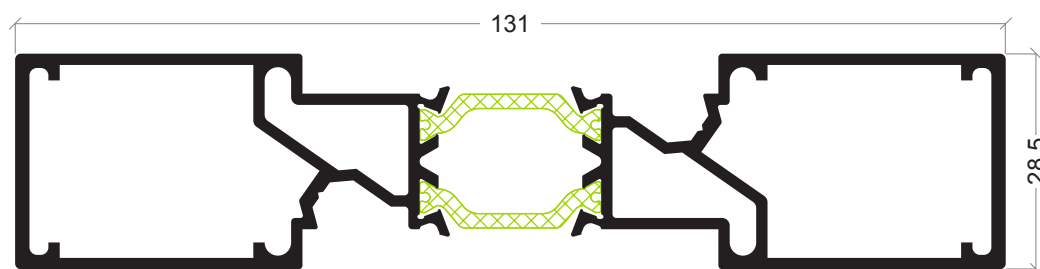


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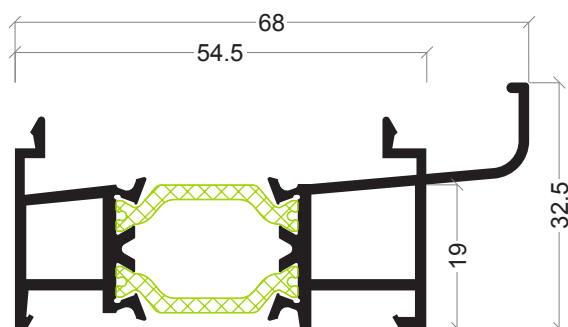




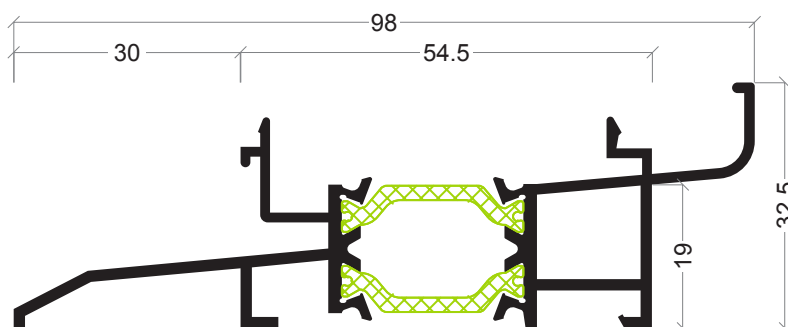
ATi-67
União de aros com reforço



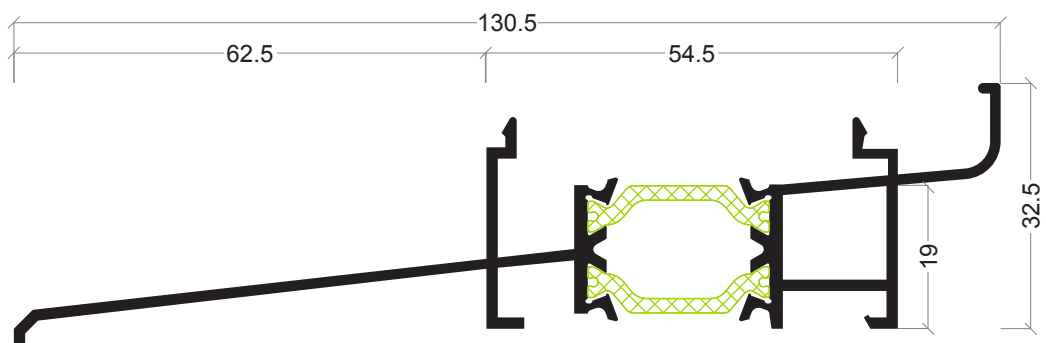
ATi-68
União de aros com reforço



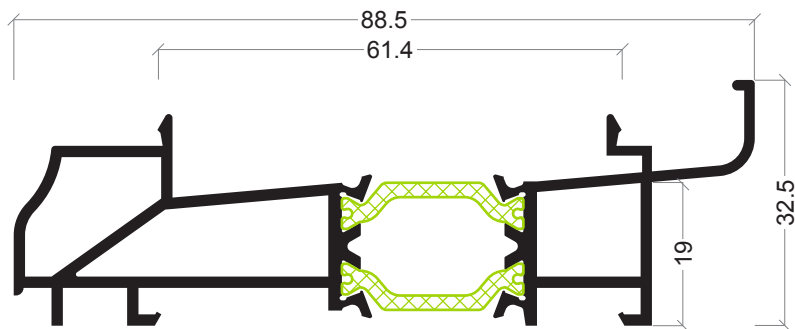
ATi-57
Soleira condensação



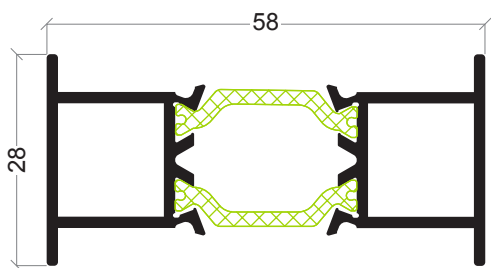
ATi-29
Soleira condensação



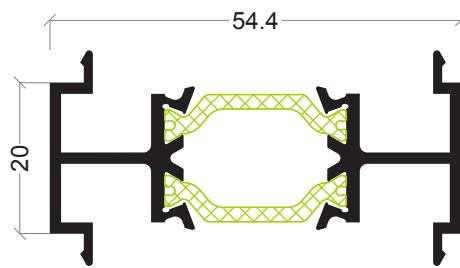
ATi-30
Soleira condensação



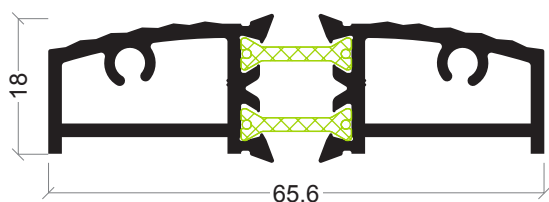
ATi-55
Soleira condensação



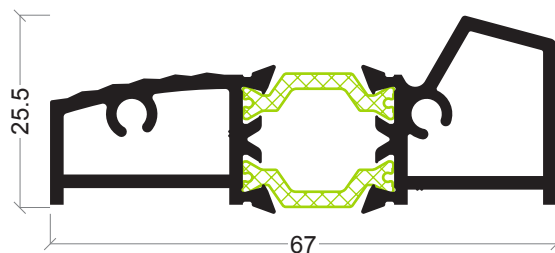
ATi-54
União de aros



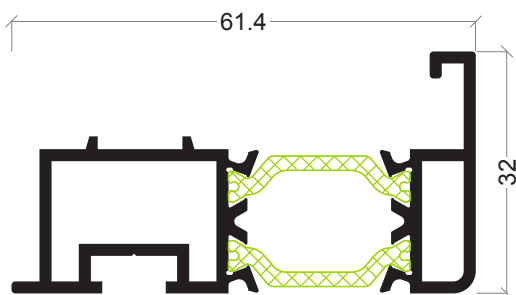
ATi-15
União de aros



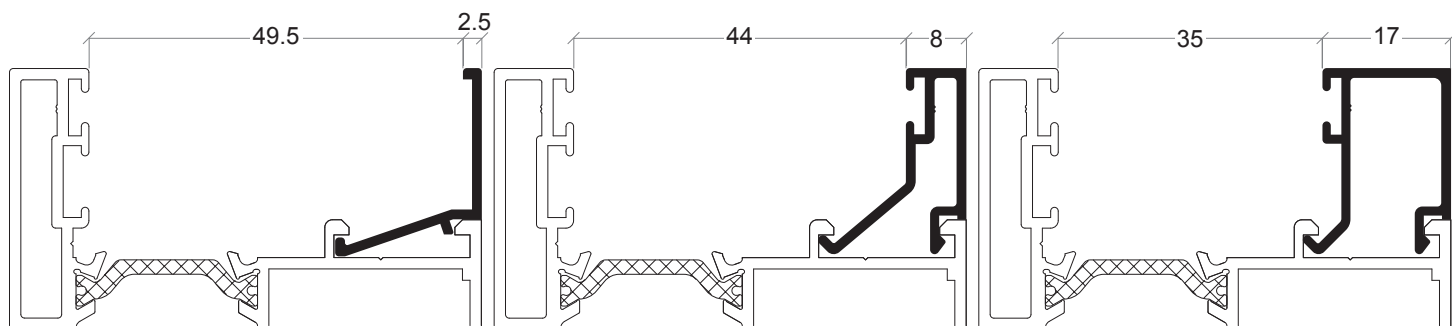
AXi-69
Remate inferior porta



ATi-70
Remate inferior porta



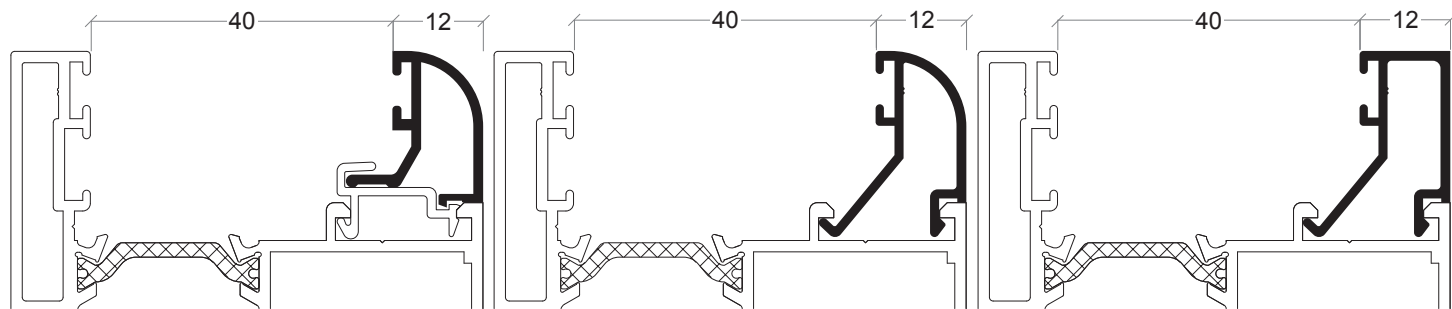
ATi-42
Remate almofada



AX-69

AX-74

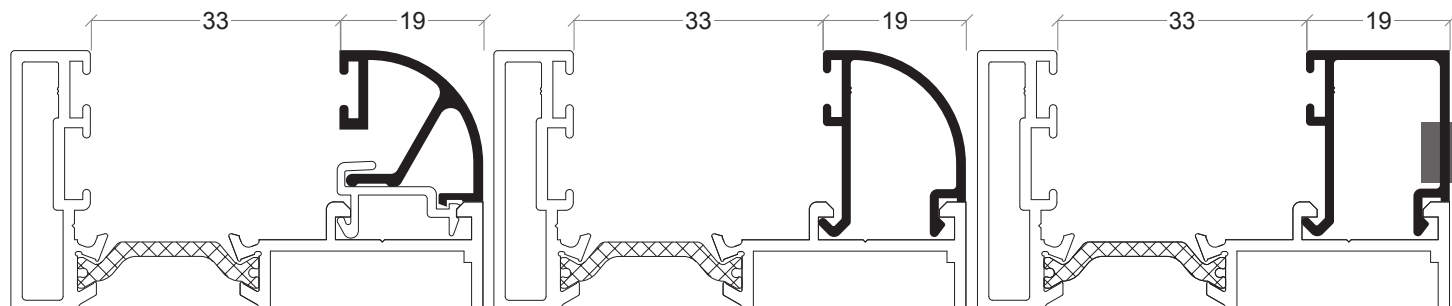
AX-46



AX-37

AZ-08

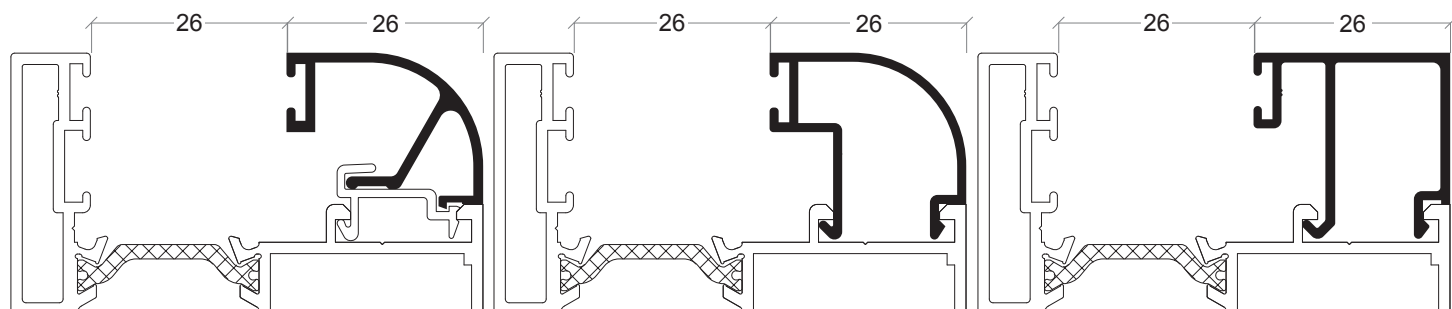
AX-36



AX-30

AZ-07

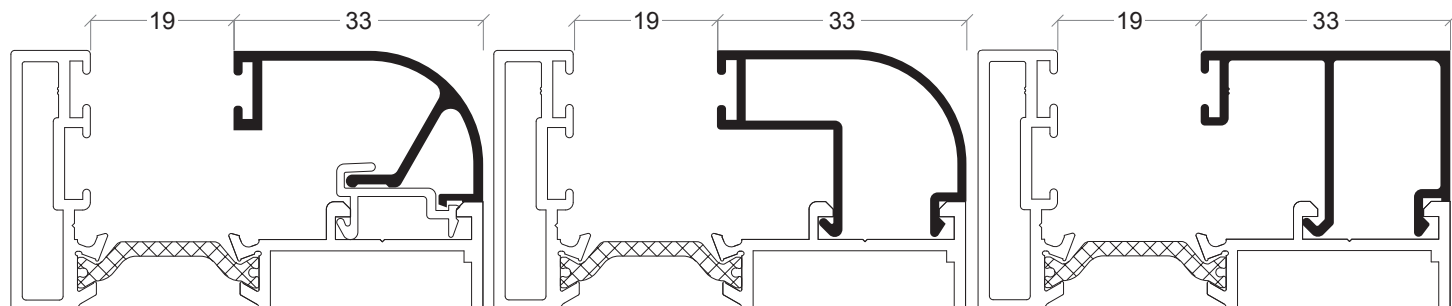
AX-35



AX-29

AZ-06

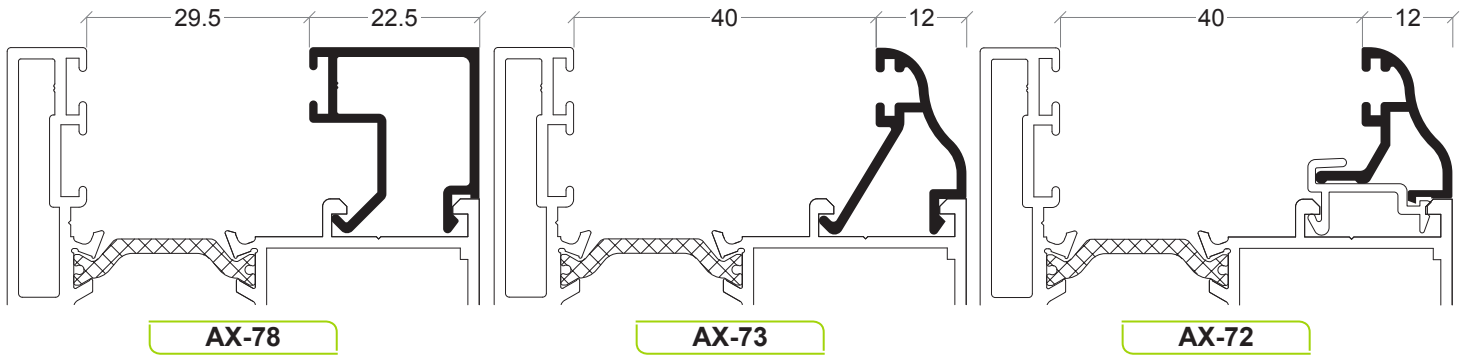
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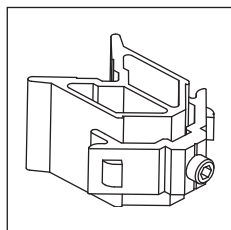


AX-39

AZ-28

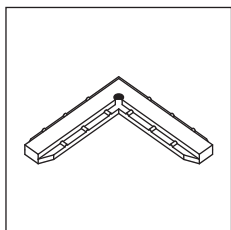
AX-34





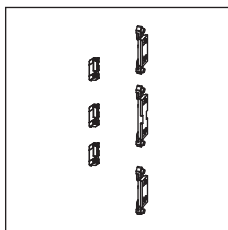
30 20 30 09

Esquadro móvel pivotante



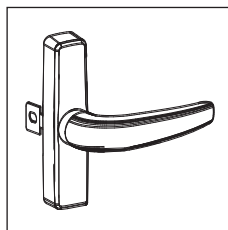
30 21 20 07

Esquadro de alinhamento



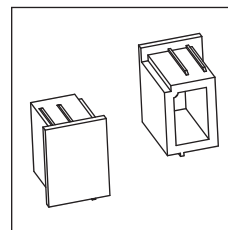
30 90 20 40

Transmissão abertura exterior



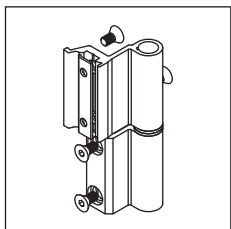
30 90 20 50/51

Cremona para abertura exterior



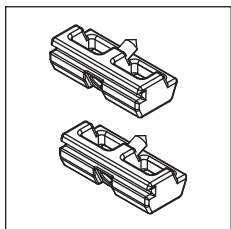
30 91 21 20

Jogo topos condensação Y-20



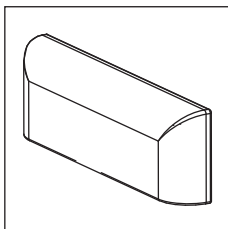
30 92 00 20/21

Dobradiça C.E. branco/preto



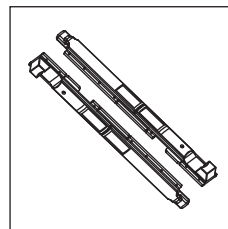
30 92 00 50

Complemento fecho



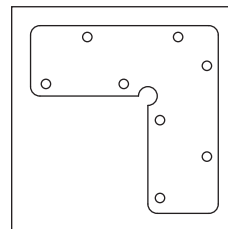
30 92 01 00/01

Goteiras branco/preto



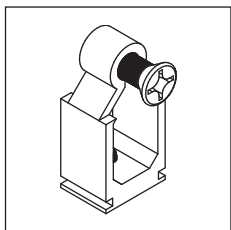
30 92 01 20

Jogo fecho C.E.



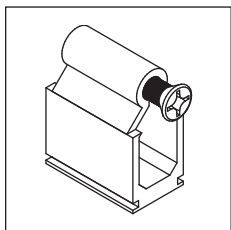
30 92 01 35

Esquadro alinhamento



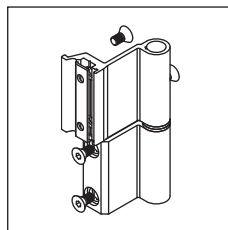
30 92 01 40

União topos janela



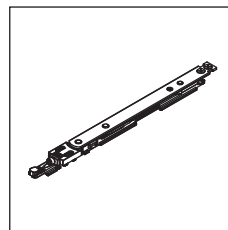
30 92 01 50

União topos porta



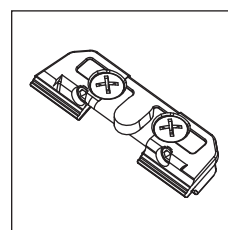
30 92 01 70/80

Dobradiça 3 folhas branco/preto



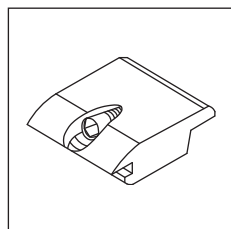
30 92 02 10/11/12

Compasso oscilo 300/400/500



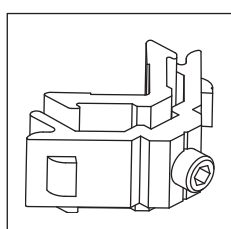
30 92 02 15

Fecho para micro-ventilação



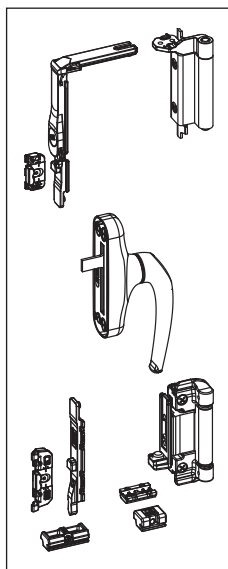
30 92 02 60

Apoio da folha



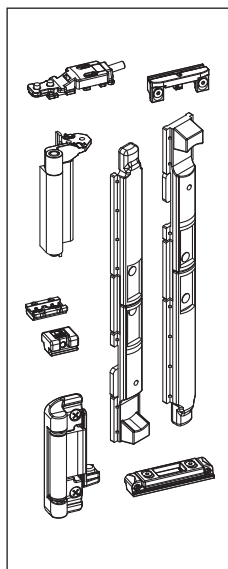
30 92 03 80

Esquadro janela



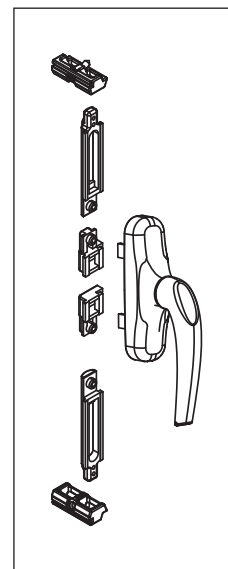
30 92 02 20/21

Kit oscilobatente branco/preto



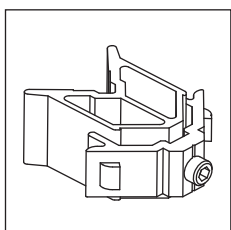
30 92 02 24/25

Kit 2ª folha oscilobatente branco/preto



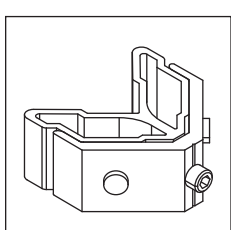
30 92 03 10/11

Kit cremone branco/preto



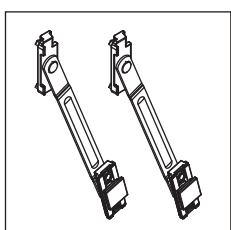
30 92 03 90

Esquadro porta



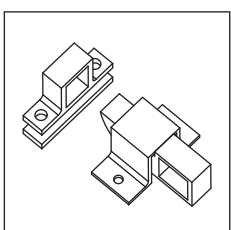
30 92 04 10

Esquadro janela abertura exterior



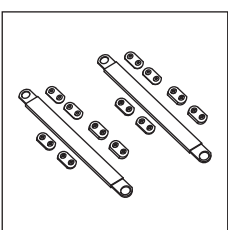
30 92 04 75

Jogo compasso basculante



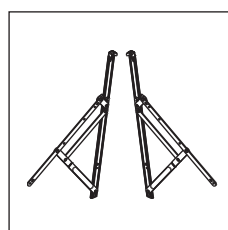
30 92 04 76/77

Fecho clack (branco/preto)



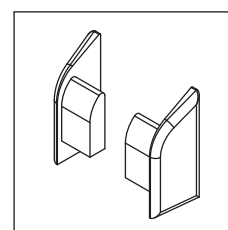
30 92 04 85

Jogo compasso



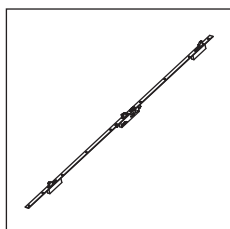
30 92 04 90

Compasso SEN-550 (até 70kg /folha)



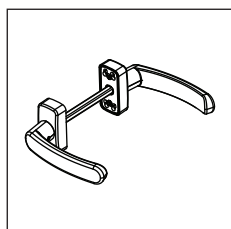
30 92 05 00

Jogo topos



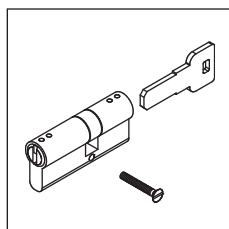
30 92 05 10

Fechadura 3 pontos
35 mm



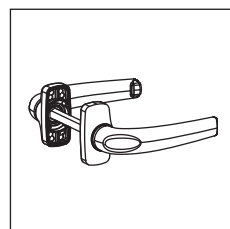
30 92 05 15

Fecho de alavanca com
5 pontos de fecho



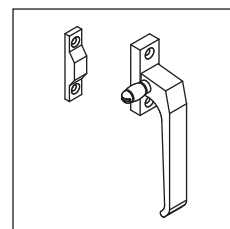
30 92 05 52

Canhão de segurança



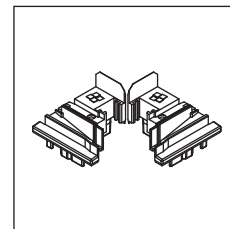
30 92 05 60/61

Puxador duplo branco/
preto



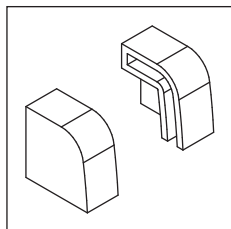
30 92 06 10/11

Cremona de lingueta
branco/preto



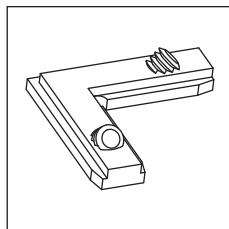
30 93 50 21

Conjunto topos
inversores com furo ATi



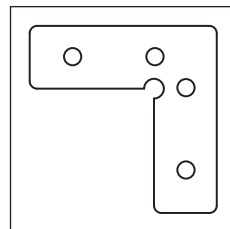
30 96 00 12

Jogo topos condensação



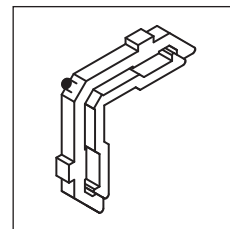
30 96 00 15

Esquadro de
alinhamento



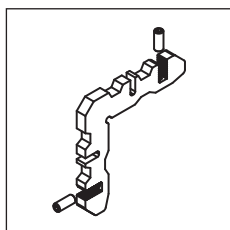
30 96 00 28

Esquadro alinhamento especial
ATi-07/10/53/65/66



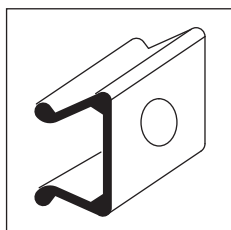
30 96 00 38

Esquadro alinhamento
exterior



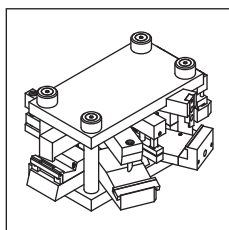
30 96 00 45

Esquadro alinhamento
exterior com parafusos



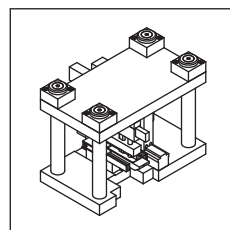
31 03 40 00

Mola para AZ-60



33 96 79 99

Cunho C.E.

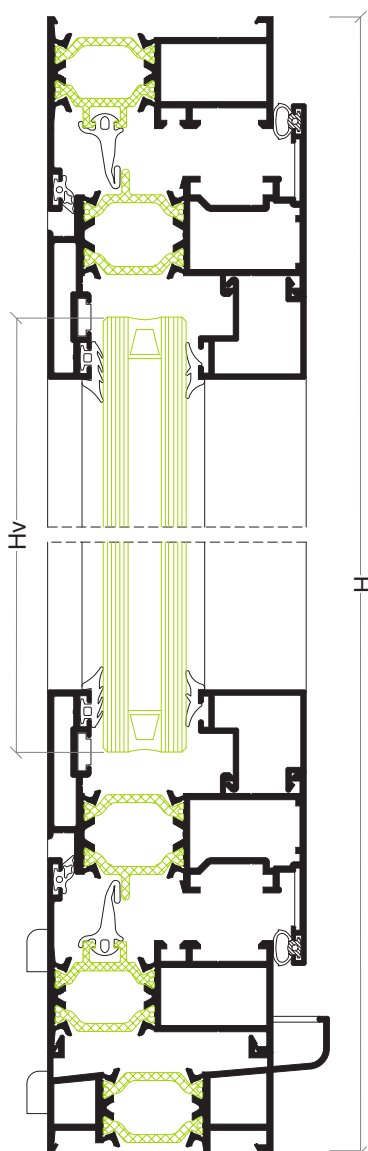
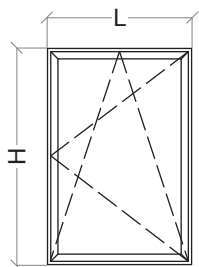


33 96 87 99

Cunho esquadros
interior/exterior

Referência	Desenho	Descrição
30 00 95 15		Junta vedação inferior curta
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 92 04 70		Espuma isolante
30 93 00 60		Vedante exterior do vidro (opcional)
30 93 00 61		Junta de vedação exterior
30 93 00 62		Junta exterior plana
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 93 00 70		Vedante interior do vidro (opcional)
30 93 00 80		Junta de vedação inferior ATi-42
30 93 00 82		Junta de vedação inferior
30 93 00 90		Junta exterior
30 93 01 20		Junta interior
30 93 01 30		Junta exterior (abertura exterior/projectante)
30 93 50 10		Junta central ATi
30 95 00 10		Pelúcia 7x9 mm
30 95 00 40		Pelúcia 7x5.5 mm

Janela 1 folha abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ATi-03	Aro fixo		2	L
				2	H-24 mm
	ATi-64	Aro móvel		2	L-42 mm
				2	H-66 mm
	ATi-57	Soleira condensação		1	L
	AX-19	Vareta		1+1	Apro. L+H
	---	Bite		2	L-135 mm
				2	H-199 mm

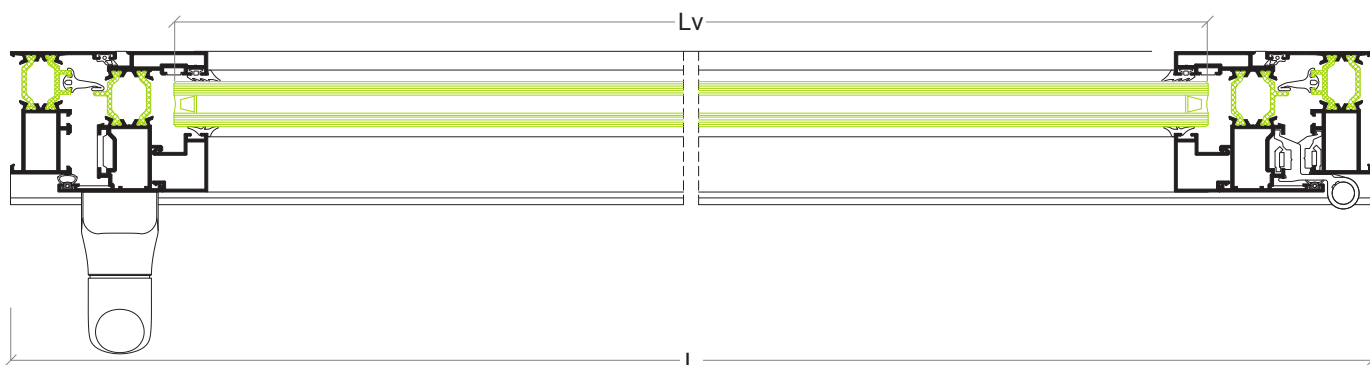
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	2	---
30 92 01 00	Goteiras	4	4
30 92 01 35	Esquadro alinhamento aro móvel	4	4
30 92 02 (xx)	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 92 03 80	Esquadro janela	8	8
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	4	4
30 92 04 70	Espuma isolante	L	L
30 93 00 90	Junta exterior	2L+2H	
30 93 50 10	Junta central	2L+2H	
30 93 01 20	Junta interior	2L+2H	
---	Junta exterior vidro	2L+2H	
---	Junta interior vidro	2L+2H	

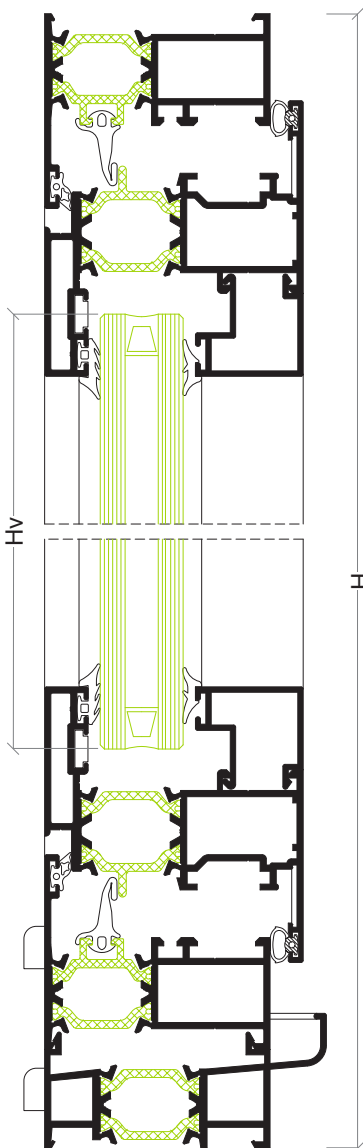
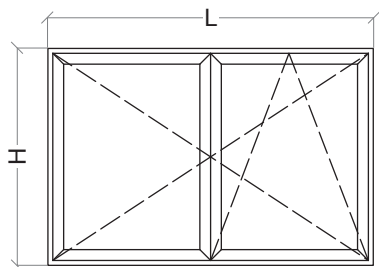
53

Vidro

Hv = H-174 mm	Lv = L-149 mm
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Janela 2 folhas abrir e oscilo-batente



Perfis

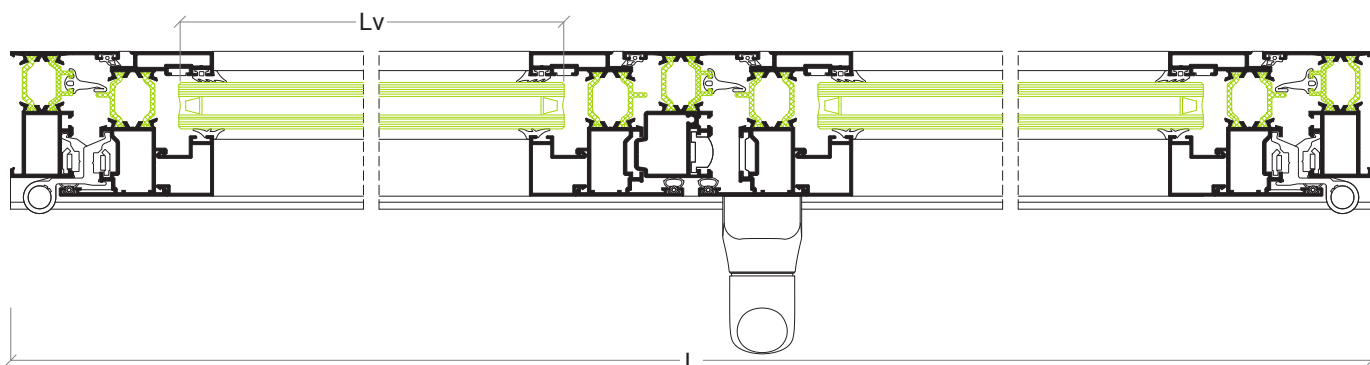
Desenho	Ref	Descrição	Corte	Quant	Medida
	ATi-03	Aro fixo		2	L
				2	H-24 mm
	ATi-64	Aro móvel		4	L/2-24 mm
				4	H-66 mm
	ATi-57	Soleira condensação		1	L
	AX-19	Vareta		1+1	Apro. L+H
	---	Bite		4	L/2-117 mm
				4	H-199 mm
	ATi-04	Inversor		1	H-134 mm

Acessórios e Juntas

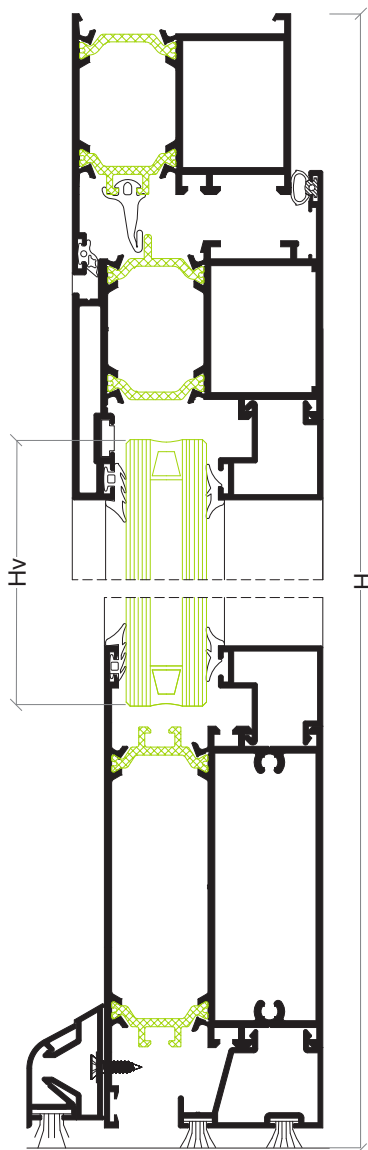
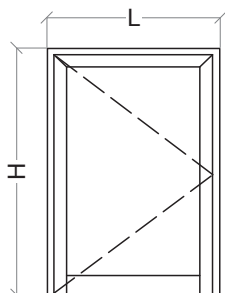
Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	4	---
30 92 01 00	Goteiras	4	4
30 92 01 20	Jogo fecho C.E.	1	---
30 92 01 35	Esquadro alinhamento aro móvel	8	8
30 92 02 (xx)	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 24	Kit 2ª folha oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 92 03 80	Esquadro janela	12	12
30 93 50 21	Jogo topos inversor	1	1
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	8	8
30 92 04 70	Espuma isolante	L	L
30 93 00 90	Junta exterior	2L+4H	
30 93 05 10	Junta central	2L+3H	
30 93 01 20	Junta interior	2L+4H	
---	Junta exterior vidro	2L+4H	
---	Junta interior vidro	2L+4H	

Vidro

Hv = H-174 mm	Lv = L/2-131 mm
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Porta 1 folha



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ATi-08	Aro fixo		1	L
				2	H
	ATi-65	Aro móvel		1	L-78 mm
				2	H-44 mm
	ATi-12	Travessa		1	L-193 mm
	AX-15	Bite remate		1	L-202 mm
	---	Bite		2	L-202 mm
				2	H-246 mm
	AZ-60	Pingadeira		1	L-145 mm
	AZ-61	Clip pingadeira		1	L-242 mm

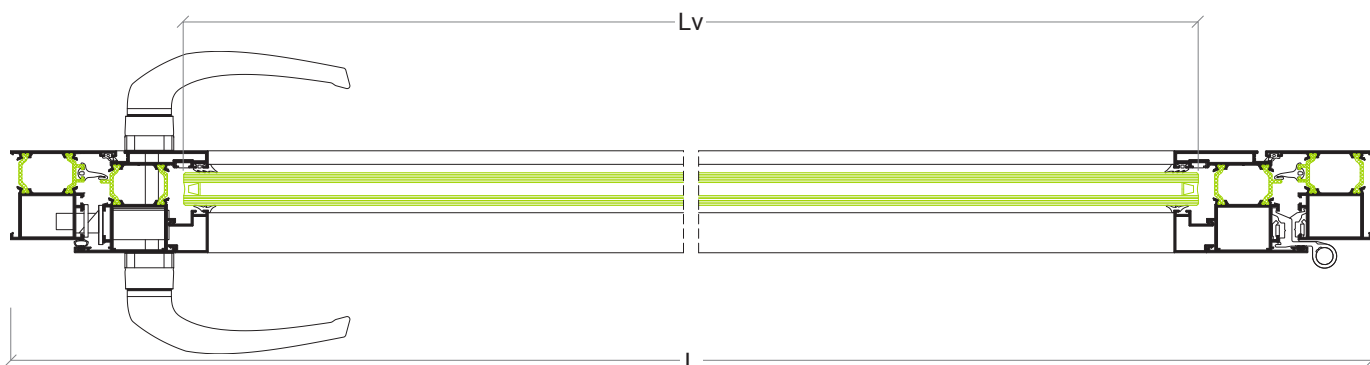
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	3
30 92 03 90	Esquadro porta	4
30 92 05 10	Fechadura 3 pontos	1
30 92 05 52	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 15	Esquadro alinhamento móvel	2
30 92 05 00	Jogo topos	1
30 96 00 28	Esquadro alinhamento	2
30 93 00 90	Junta exterior	1L+2H
30 93 05 10	Junta central	1L+2H
30 93 01 20	Junta interior	1L+2H
30 95 00 10	Pelúcia 7x9 mm	2L
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

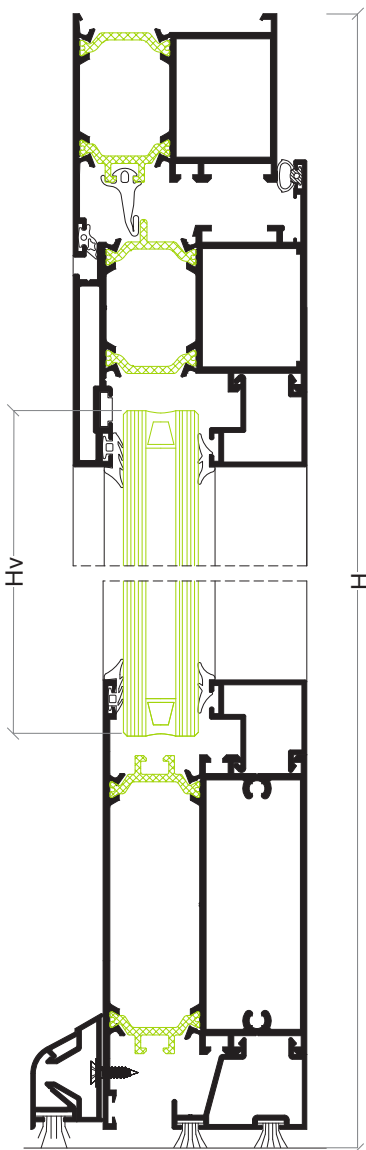
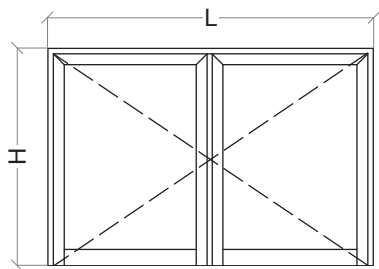
55

Vidro

Hv = H-220 mm	Lv = L-216 mm
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Porta 2 folhas



Perfis

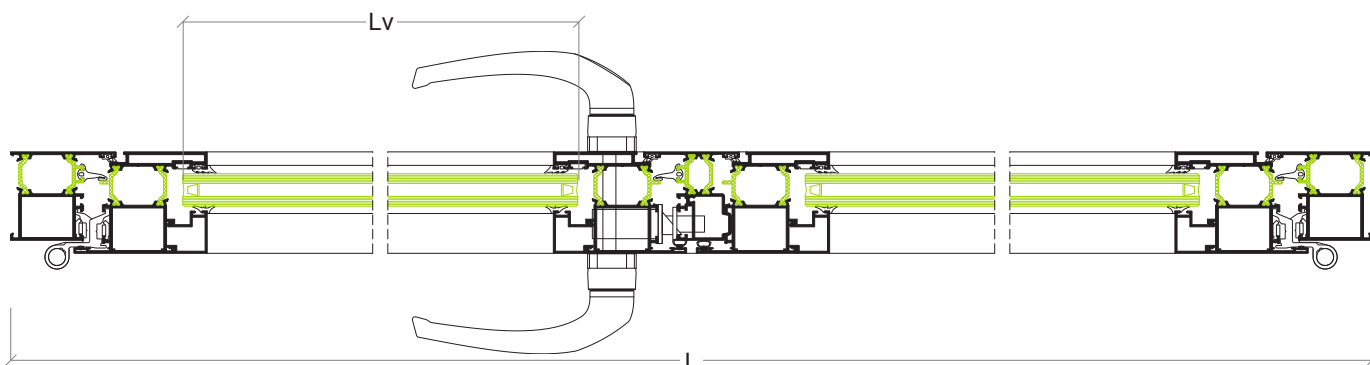
Desenho	Ref	Descrição	Corte	Quant	Medida
	ATi-08	Aro fixo		1	L
				4	H
	ATi-65	Aro móvel		2	L/2-42 mm
				4	H-44 mm
	ATi-04	Inversor		1	H-78 mm
	ATi-12	Travessa		2	L/2-157 mm
	AX-15	Bite remate		2	L/2-166 mm
	---	Bite		4	L/2-166 mm
				4	H-246 mm
	AZ-60	Pingadeira		1	Aprox. L/2
				1	Aprox. L/2
	AZ-61	Clip pingadeira		2	L/2-206 mm

Acessórios e Juntas

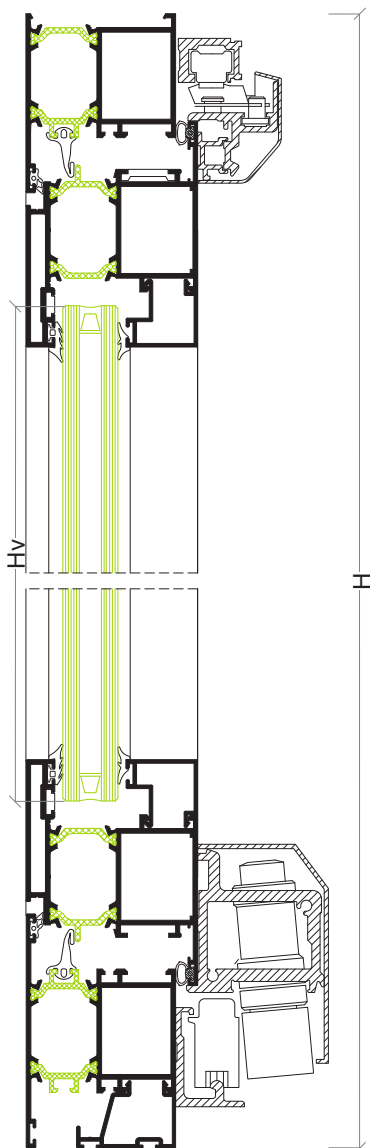
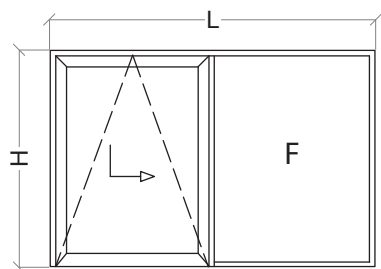
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	6
30 92 01 12	Jogo topos inversor	1
30 92 01 20	Jogo fecho C.E.	1
30 92 03 90	Esquadro porta	6
30 92 05 10	Fechadura 3 pontos	1
30 92 05 52	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 15	Esquadro alinhamento móvel	4
30 92 05 00	Jogo topos	1
30 96 00 28	Esquadro alinhamento	2
30 93 00 90	Junta exterior	1L+4H
30 93 05 10	Junta central	1L+3H
30 93 01 20	Junta interior	L+4H
30 95 00 10	Pelúcia 7x9 mm	2L
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-220 mm	Lv = L-180 mm
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Porta oscilo-paralela com fixo lateral



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ATi-08	Aro fixo		1	L
				2	H
	ATi-65	Aro móvel		2	L1-56 mm
				2	H-98 mm
	ATi-06	Travessa		1	L-81 mm
				1	H-101mm
	AX-15	Bite remate		1	L-90 mm
	AX-19	Vareta		1+1	Apro. L+H
	---	Bite (folha)		2	L1-180 mm
				2	H-262 mm
	---	Bite (fixo)		2	L2-67.5 mm
				2	H-150 mm

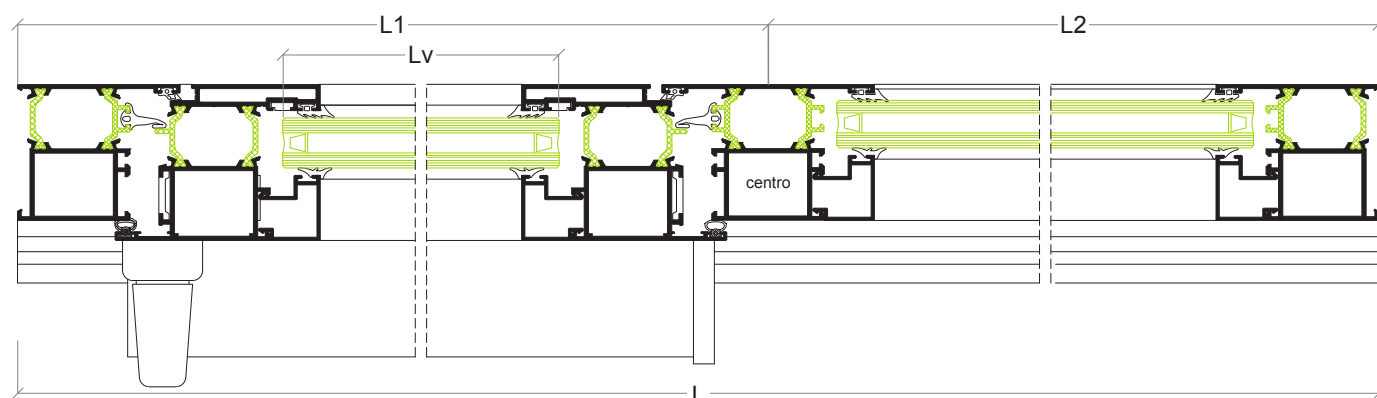
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 01 50	União topos porta	2
30 92 03 90	Esquadro porta	6
30 96 00 15	Esquadro alinhamento móvel	4
---	Kit oscilo-paralela	1
30 96 00 28	Esquadro alinhamento	4
30 93 00 90	Junta exterior	2L1+2H
30 93 05 10	Junta central	2L1+2H
30 93 01 20	Junta interior	2L1+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

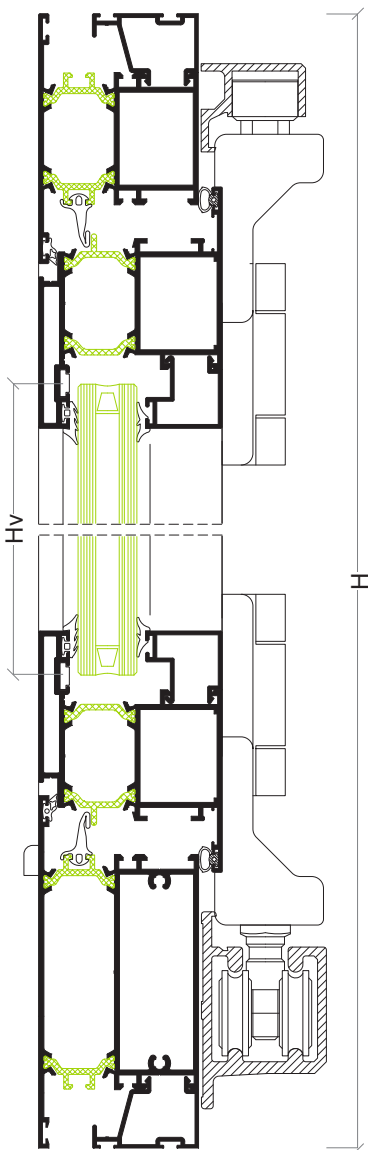
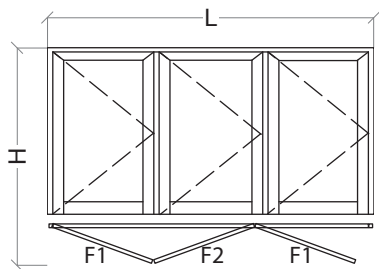
	Mínimo	Máximo
Largura da folha	700 mm	1650 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 150 kg		

Vidro

Hv folha = H-236 mm	Lv folha = L1-193 mm
Hv fixo = H-124 mm	Lv fixo = L2-81 mm



Porta 3 folhas harmónio



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ATi-08	Aro fixo		2	H
	ATi-06	Travessa		1	L-81 mm
	AXi-12	Travessa		1	L-81
	ATi-65	Aro móvel		6	(consultar)
	ATi-65	Aro móvel		6	(consultar)
	ATi-04	Inversor		2	(consultar)
	AX-15	Bite remate		2	L-90 mm
	AX-19	Vareta		2	2H
	---	Bite		6	(consultar)
	---	Bite		6	(consultar)

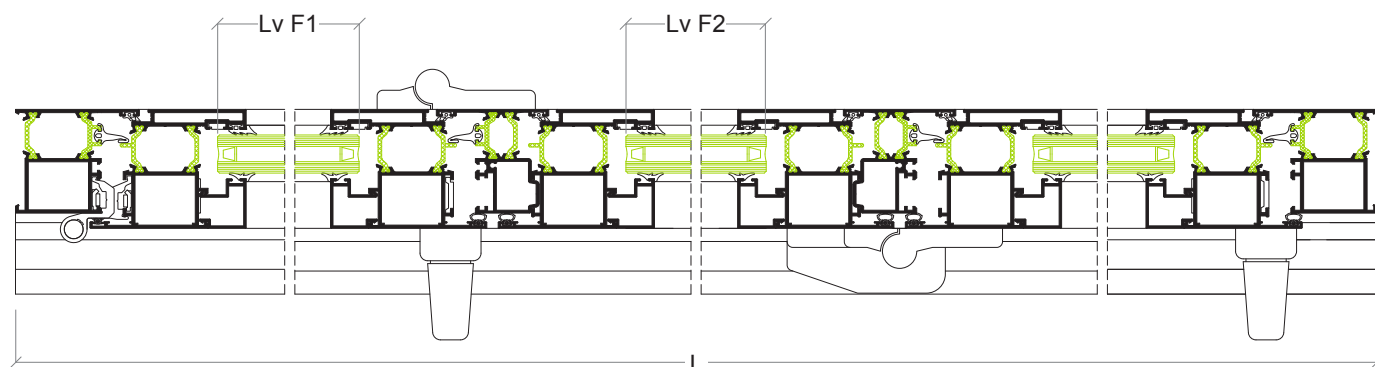
Acessórios e Juntas

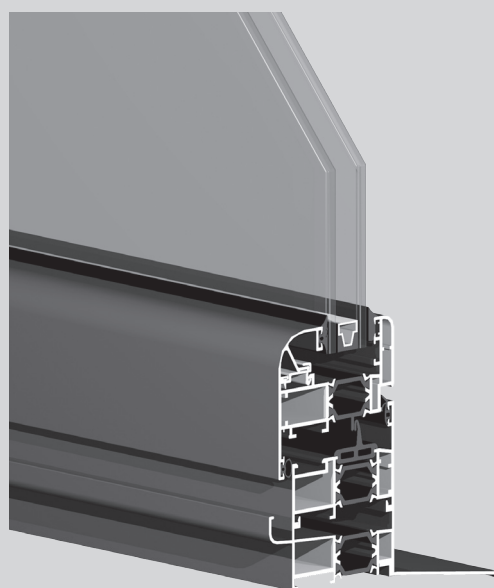
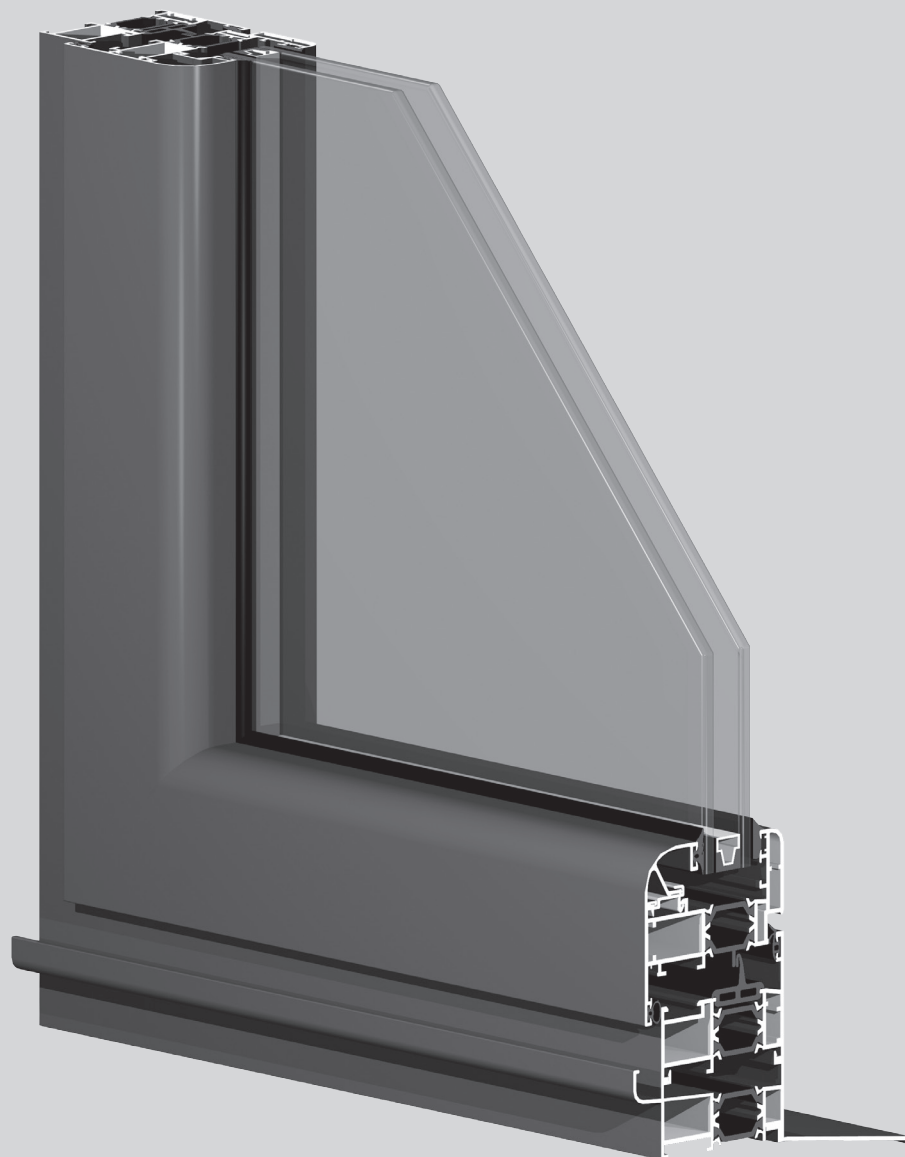
Referência	Descrição	Quantidade
30 92 01 50	União topo porta	2
30 92 01 00	Goteiras	6
30 93 50 21	Jogo topos inversor	2
30 92 03 90	Esquadro porta	12
---	Kit harmónio (3+0)	1
30 92 01 20	Jogo fecho C.E.	1
30 96 00 28	Esquadro alinhamento	12
30 96 00 15	Esquadro móvel exterior	12
30 93 00 90	Junta exterior	2L+6H
30 93 05 10	Junta central	2L+4H
30 93 01 20	Junta interior	2L+6H
---	Junta exterior vidro	2L+6H
---	Junta interior vidro	2L+6H

	Mínimo	Máximo
Largura da folha	600 mm	900 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 80 kg		

Vidro

Hv = consultar	Lv F1 = consultar
	Lv F2 = consultar





Sistema

ARi

Sistema ARi

Sistema de batente com RPT - 60 mm

Características do sistema

Sistema de batente com rotura térmica e de elevadas prestações térmicas e acústicas.

O sistema ARi possibilita a execução de 5 versões de caixilharia:

1. linha recta;
2. linha curva;
3. linha tradição;
4. linha oval;
5. Folha Oculta.

O sistema ARi permite a aplicação de vidros duplos ou triplos de alto rendimento de modo a responder às exigências de isolamento térmico e acústico.

A versão ARi Folha Oculta permite a ocultação do aro móvel.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Rotura térmica obtida por inserção de varetas isolantes de poliamida tipo ómega de 24 mm, reforçadas com 25% de fibra de vidro.

Espessura média dos perfis de alumínio de 1.5 mm para janelas e de 1.7 mm para portas.

Aros fixos

Secção dos aros fixos de 60 mm ou 84.5 mm com tripla câmara;

Aros fixos com esquadros duplos para montagem a meia esquadria;

Aros fixos tradicionais para mercado interno;

Aros fixos com clip exterior e aba de remate direta de 25 mm ou 45 mm;

Aros fixos com clip exterior e interior para aplicação de remate de 30 mm.

Aros móveis

Secção dos aros móveis de 68 mm com tripla câmara;

Enchimento para vidro duplo ou triplo de 10 mm a 45 mm para o sistema ARi;

Enchimento para vidro duplo até 23 mm para o sistema ARi Folha Oculta;

Aros móveis de linha recta, curva, tradição ou oval (sem bite);

Aros móveis com esquadros duplos para montagem a meia esquadria;

Perfil inversor de linha recta.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 400 mm - 1500 mm (L); 400 mm - 2700 mm (H);

Possibilidades de abertura: fixo, batente interior 1 ou 2 folhas com oscilo-batente, exterior, basculante, projectante, pivotante, harmónio e oscilo-paralela;

Estanquidade assegurada através de juntas triplas em EPDM.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema ARi tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E750 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema ARi tipologia porta:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 9A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C3 (norma de ensaio EN 12211)
4. Resistência à torção estática: Apto 350N (norma de ensaio EN 14609)

Categorias alcançadas na avaliação do sistema ARi-Folha Oculta tipologia janela:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Coefficiente de transmissão térmica de vão de 2 folhas, sistema Ari, com 1.20 m x 1.50 m com vidro $U_g = 0.7 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.54 \text{ W/m}^2\text{K}$

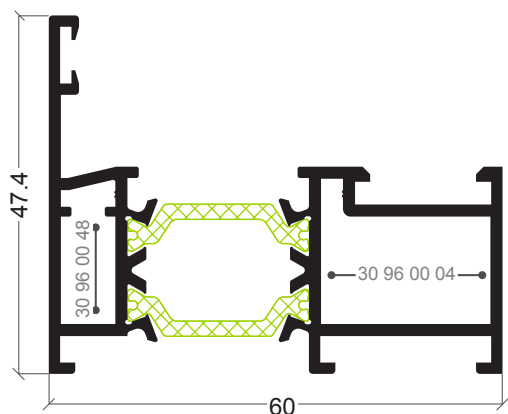
Coefficiente de transmissão térmica de vão de 2 folhas, sistema ARi Folha Oculta com 1.80 m x 2.20 m com vidro $U_g = 1.1 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.70 \text{ W/m}^2\text{K}$

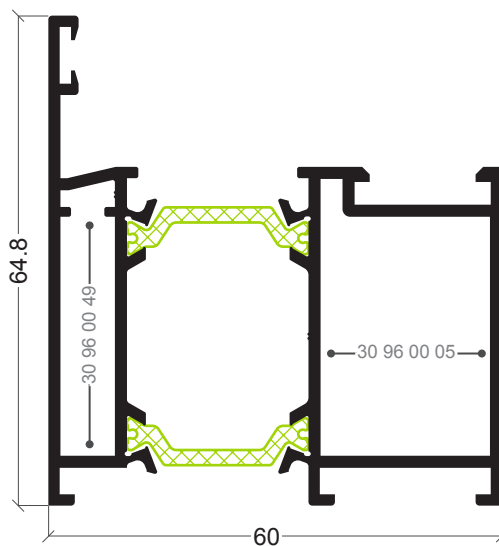
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/16 (gás Argon)/6:

• $R_w (C; C_{tr}) = 34 \text{ dB} (-1; -4)$

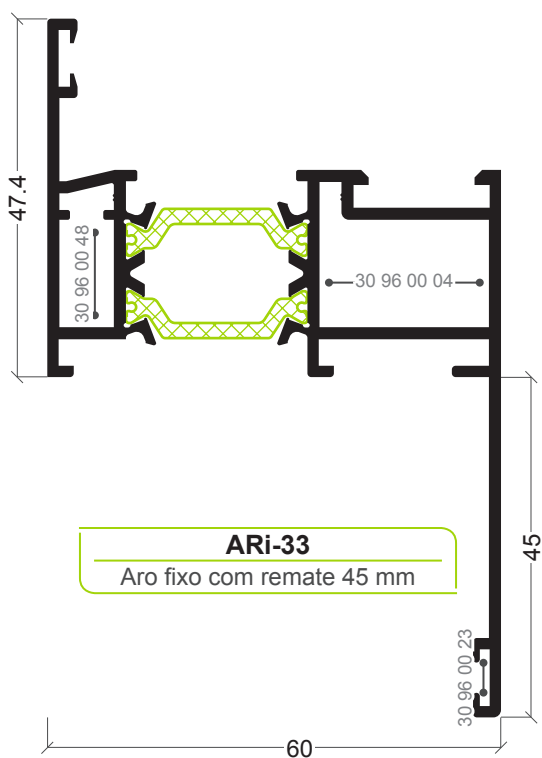
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3.



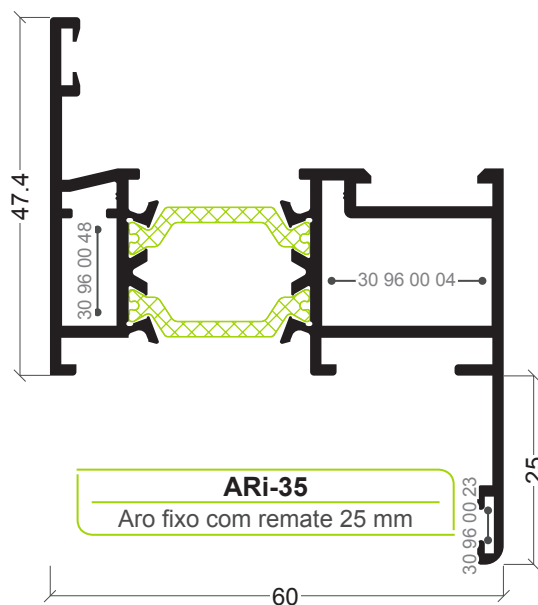
ARi-03
Aro fixo



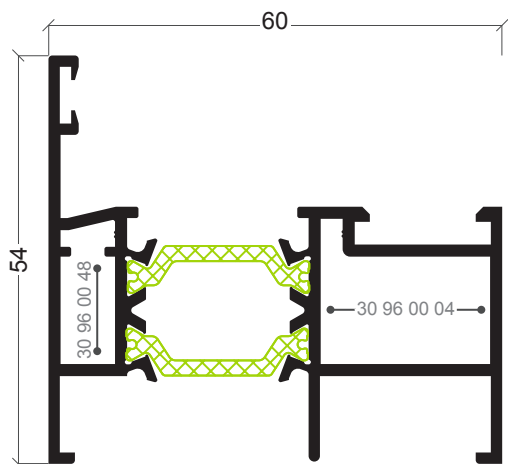
ARi-08
Aro fixo



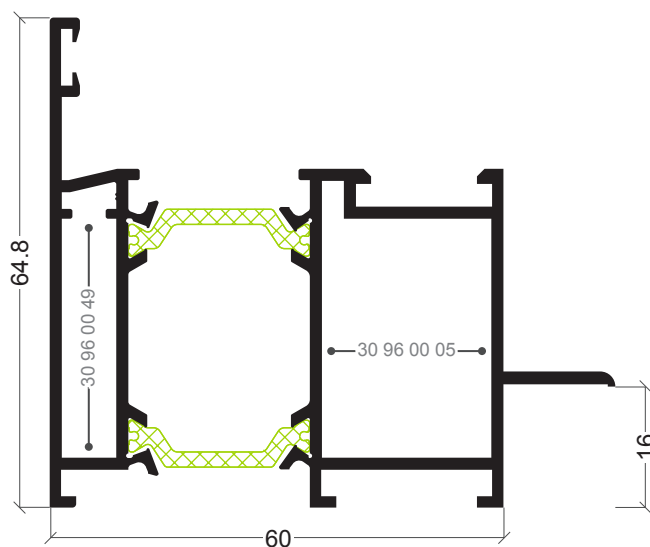
ARi-33
Aro fixo com remate 45 mm



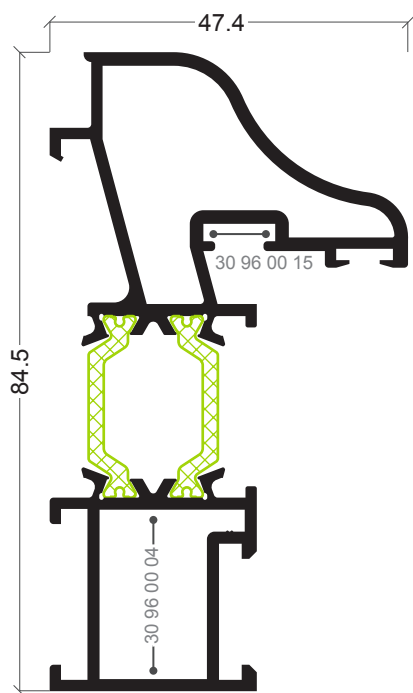
ARi-35
Aro fixo com remate 25 mm



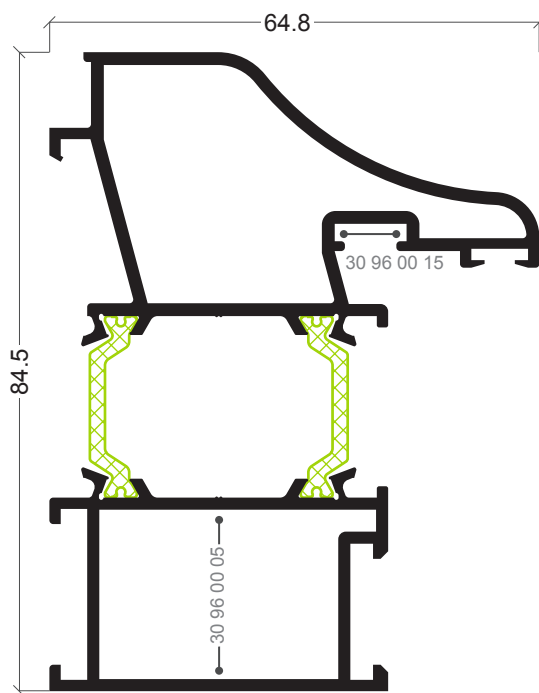
ARi-81
Aro fixo



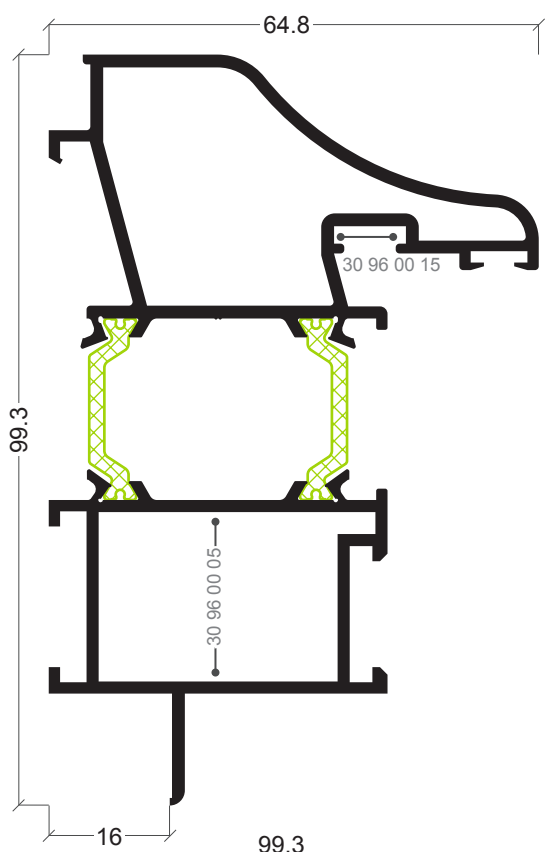
ARi-68
Aro fixo para apainelado



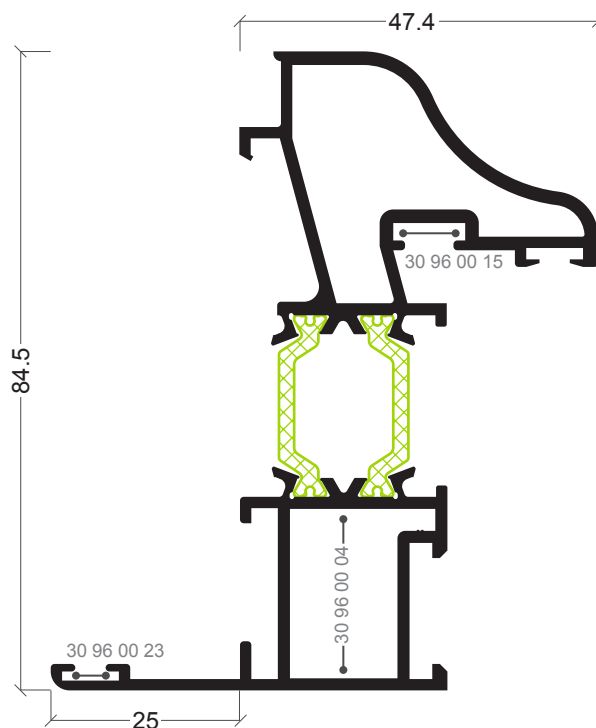
ARi-57
Aro fixo tradição



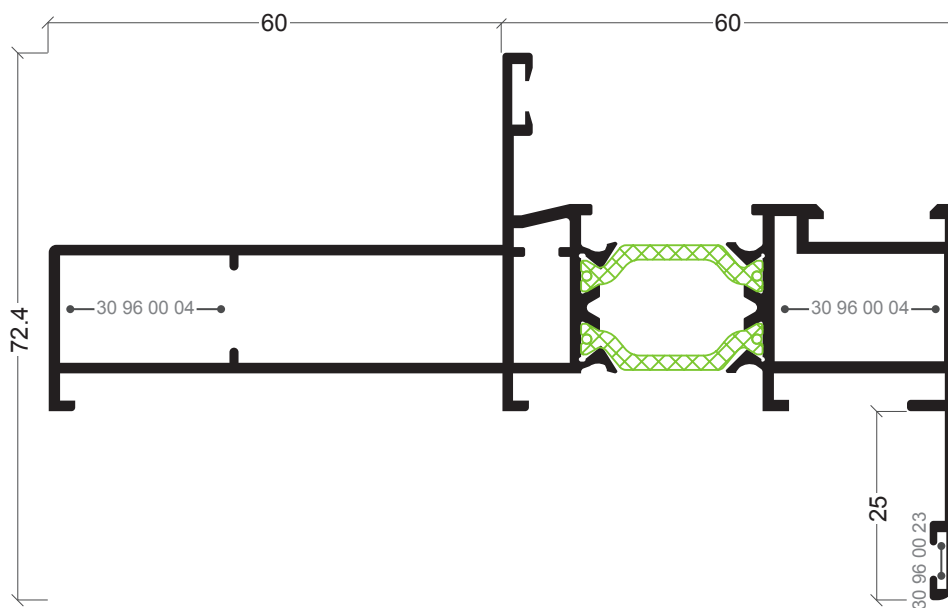
ARi-59
Aro fixo tradição



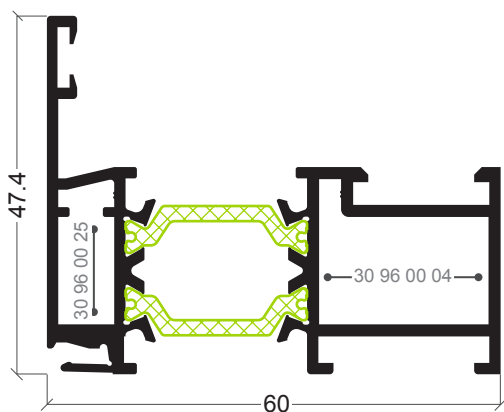
ARi-69
Aro fixo para apainelado



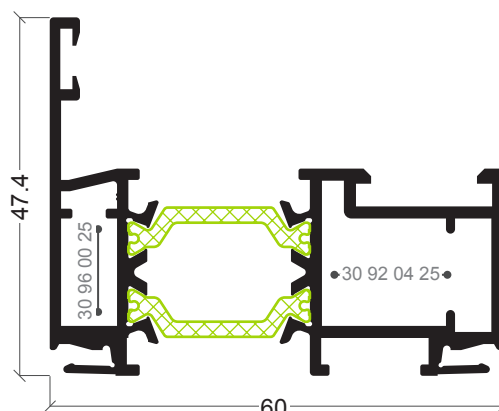
ARi-77
Aro fixo com remate



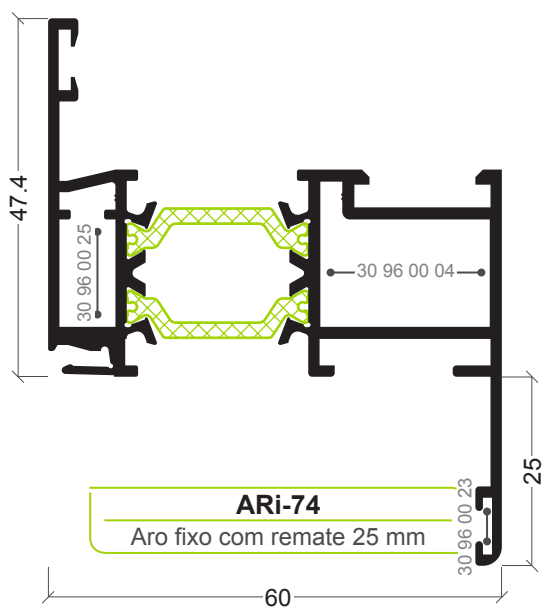
ARi-86
Aro fixo com remate



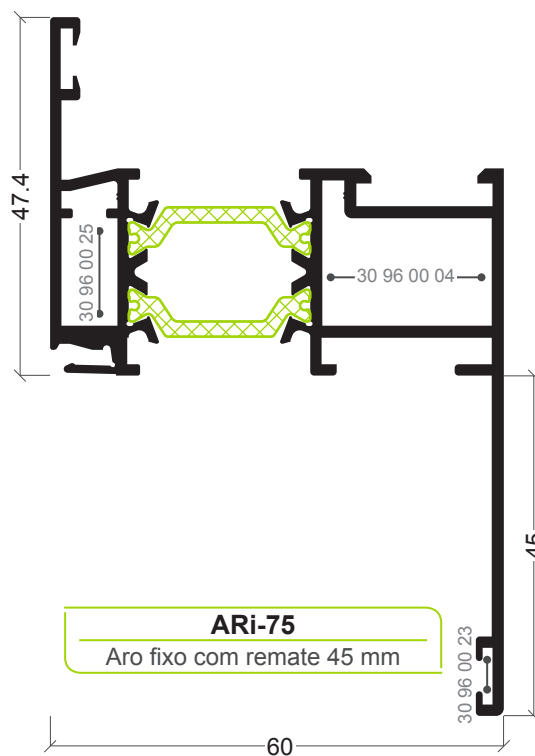
ARi-76
Aro fixo



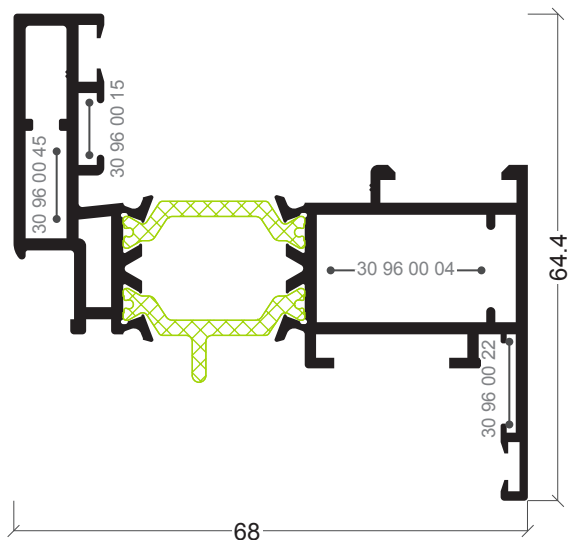
ARi-80
Aro fixo com clip interior/exterior



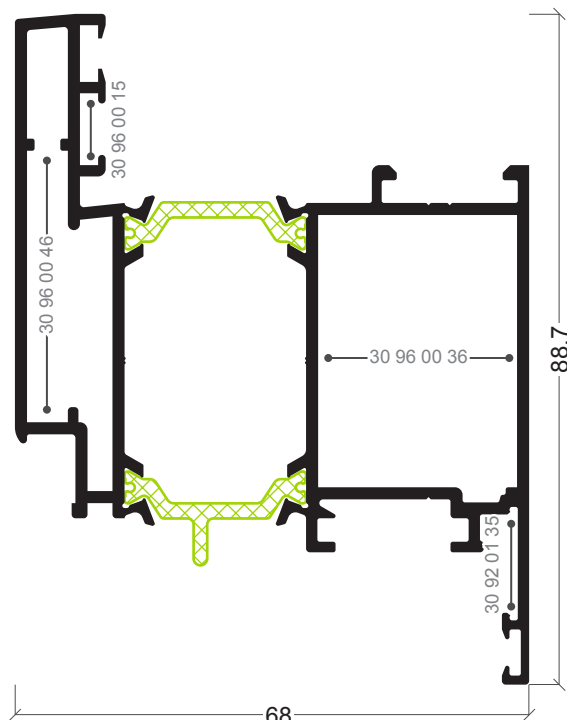
ARi-74
Aro fixo com remate 25 mm



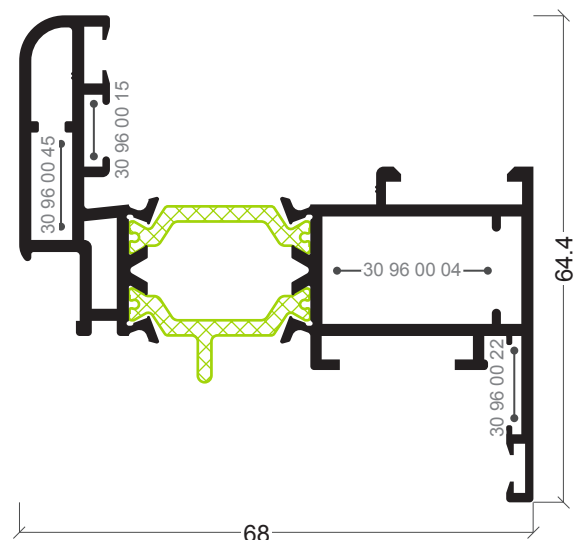
ARi-75
Aro fixo com remate 45 mm



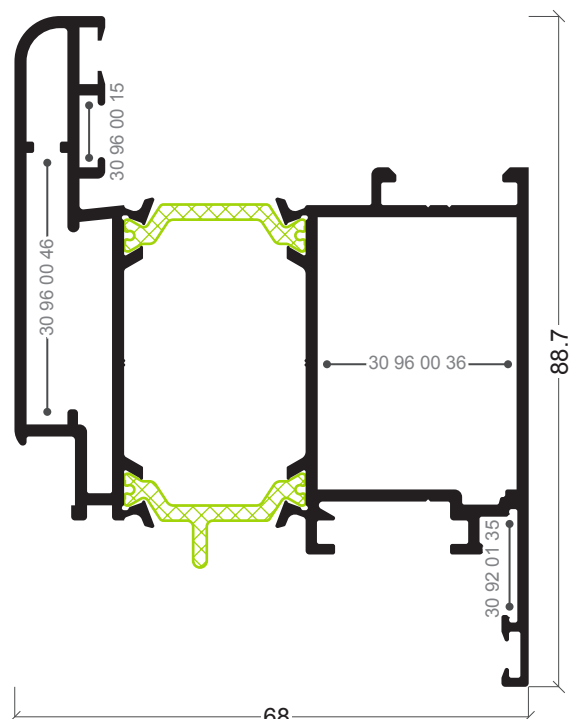
ARi-61
Aro móvel



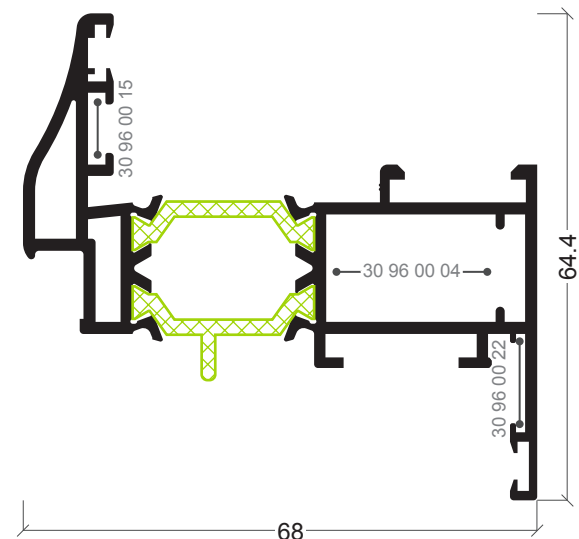
ARi-36
Aro móvel



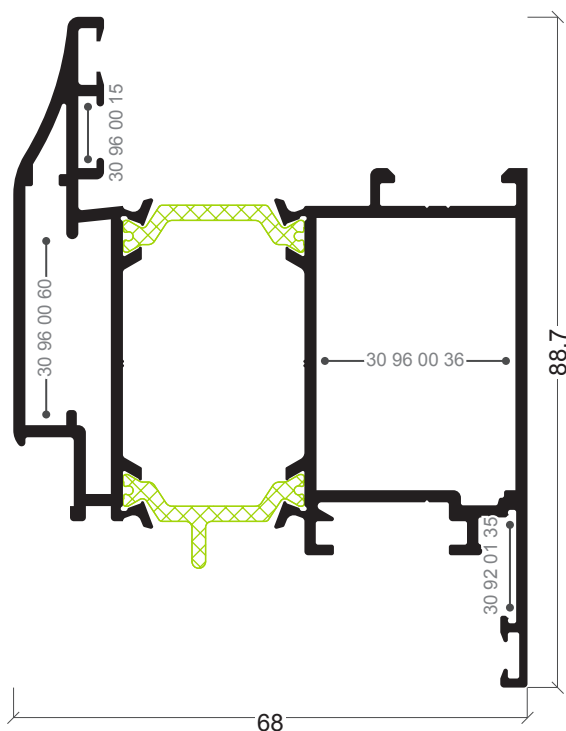
ARi-05
Aro móvel



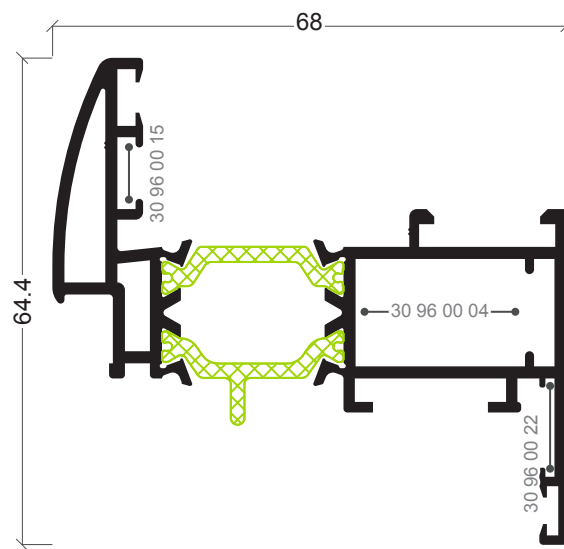
ARi-10
Aro móvel



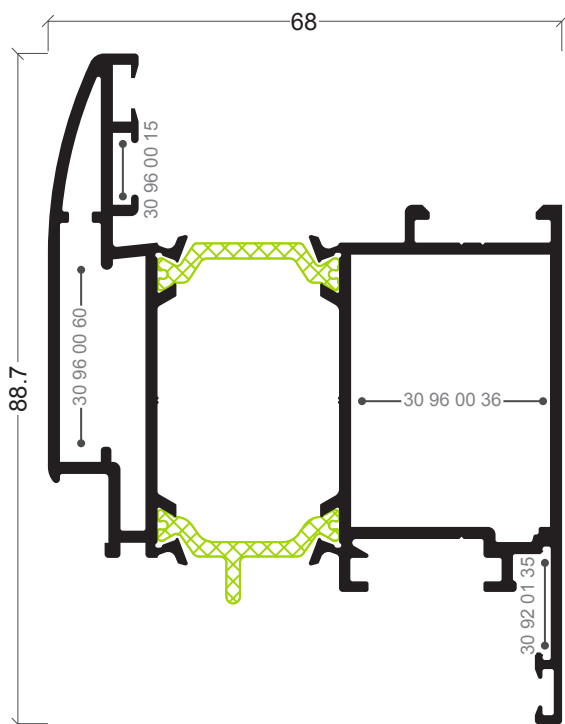
ARi-58
Aro móvel tradição



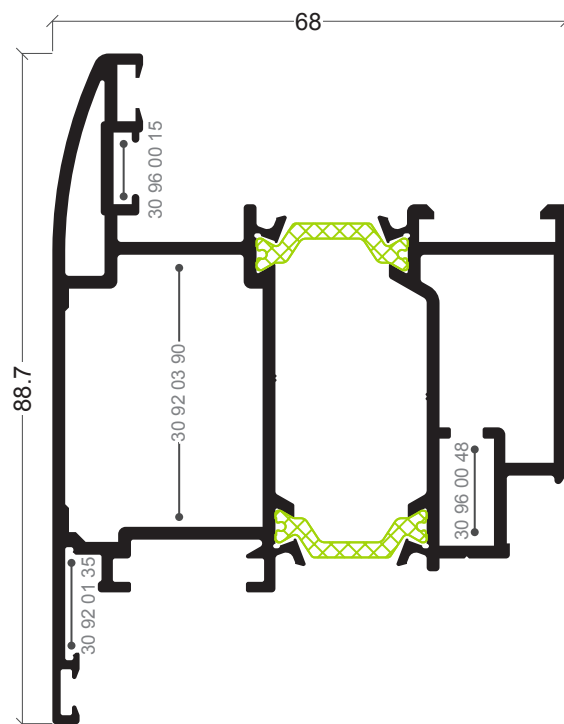
ARi-60
Aro móvel tradição



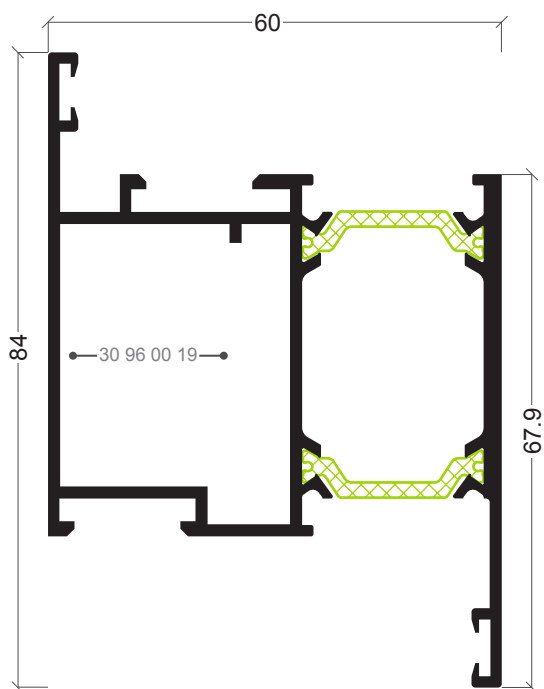
ARi-83
Aro móvel



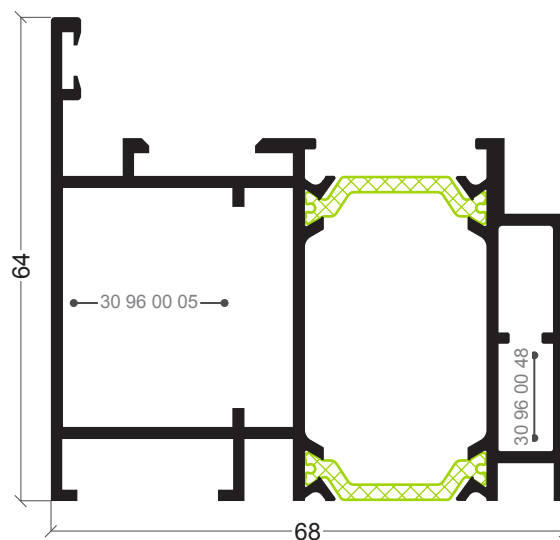
ARi-84
Aro móvel



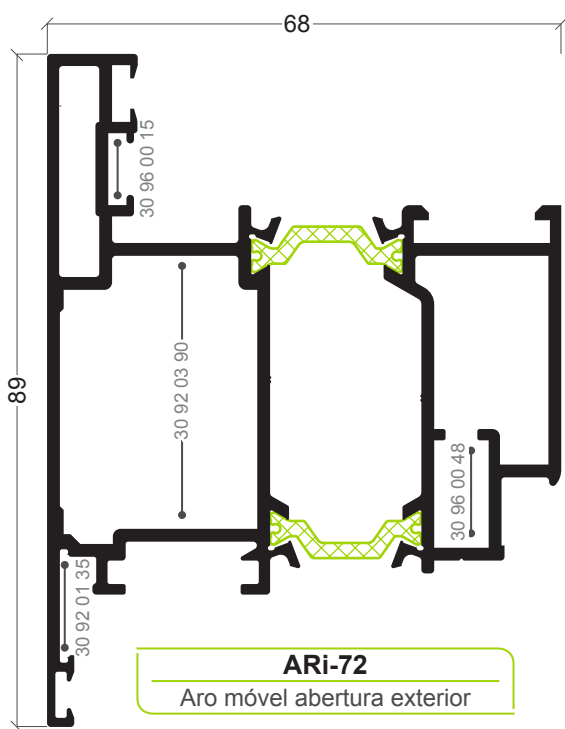
ARi-85
Aro móvel



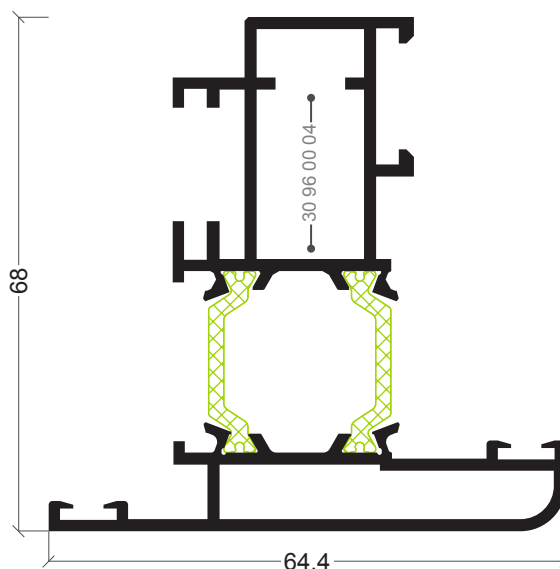
ARi-11
Aro fixo abertura exterior com fixo lateral



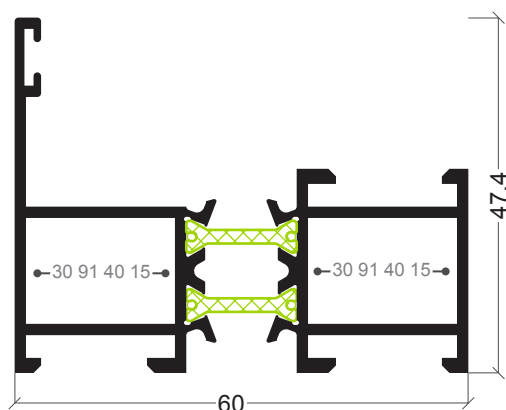
ARi-09
Aro fixo abertura exterior ARi-25



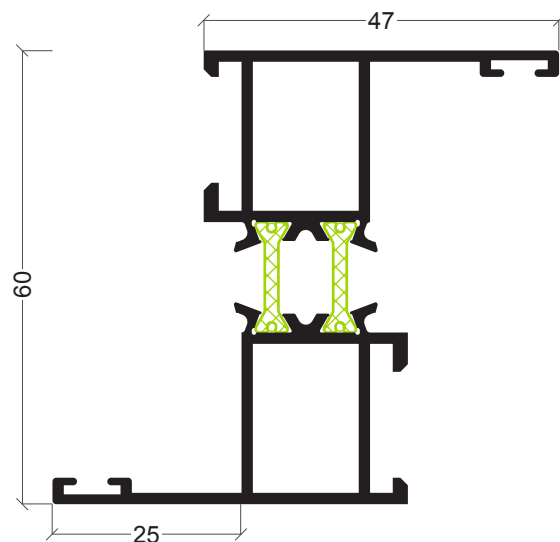
ARi-72
Aro móvel abertura exterior



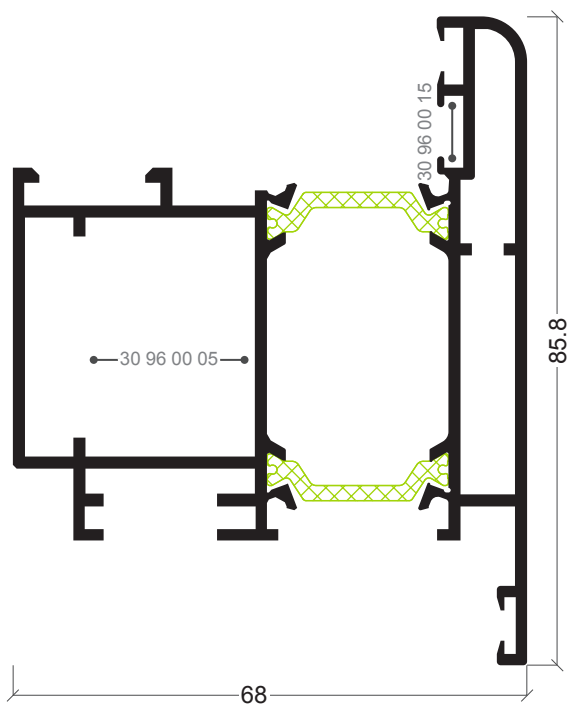
ARi-02
Aro móvel pivotante



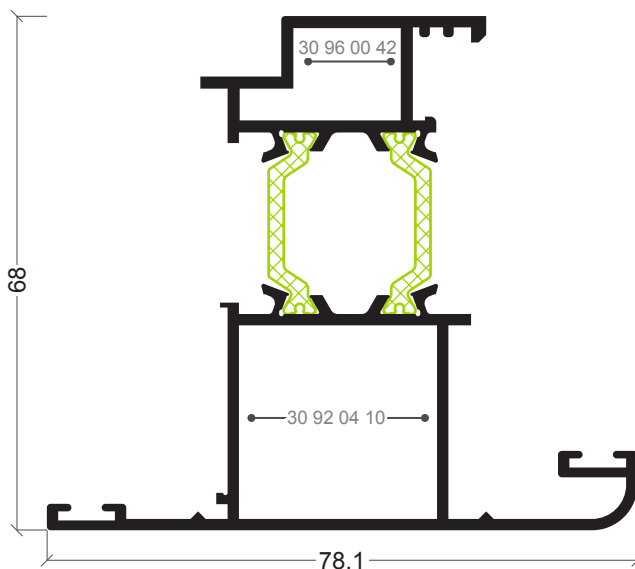
ARi-38
Aro fixo projectante



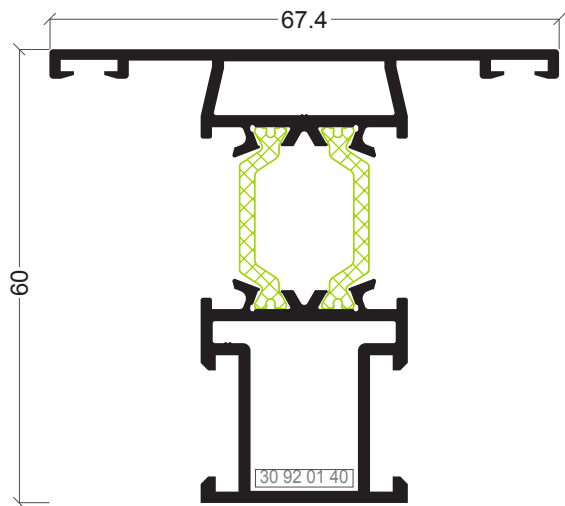
ARi-39
Aro fixo projectante com fixo



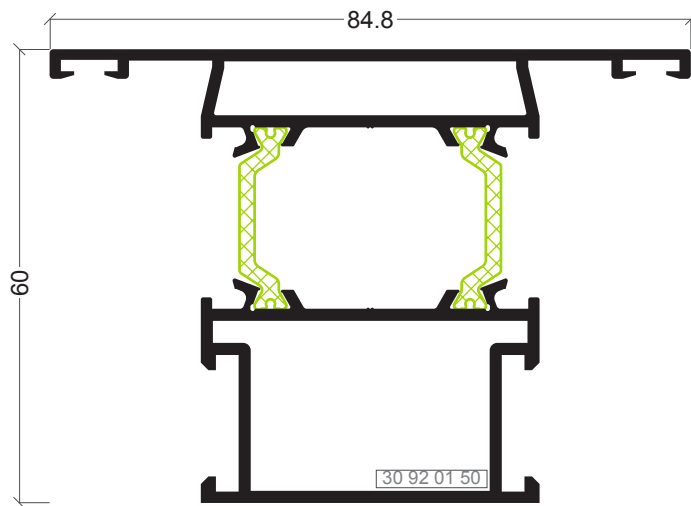
ARi-25
Aro móvel abertura exterior ou pivotante



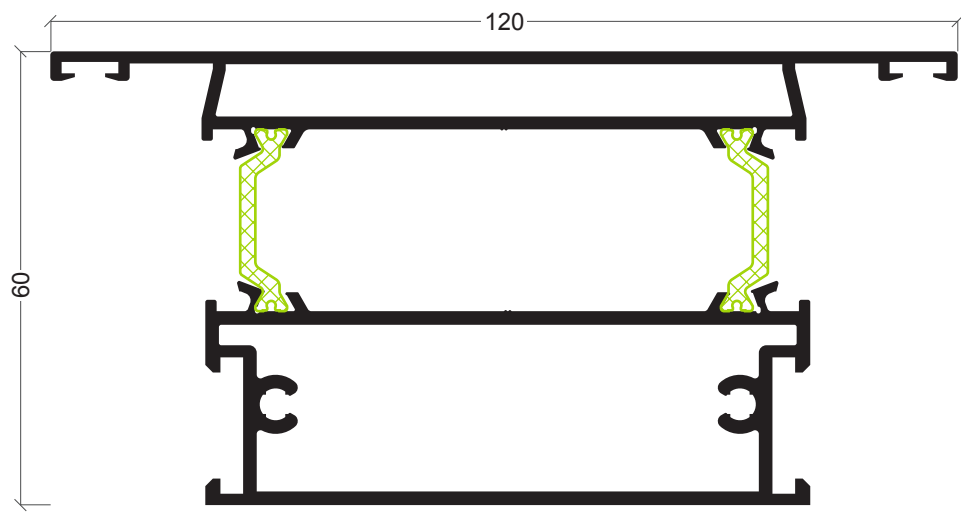
ARi-07
Aro móvel projectante



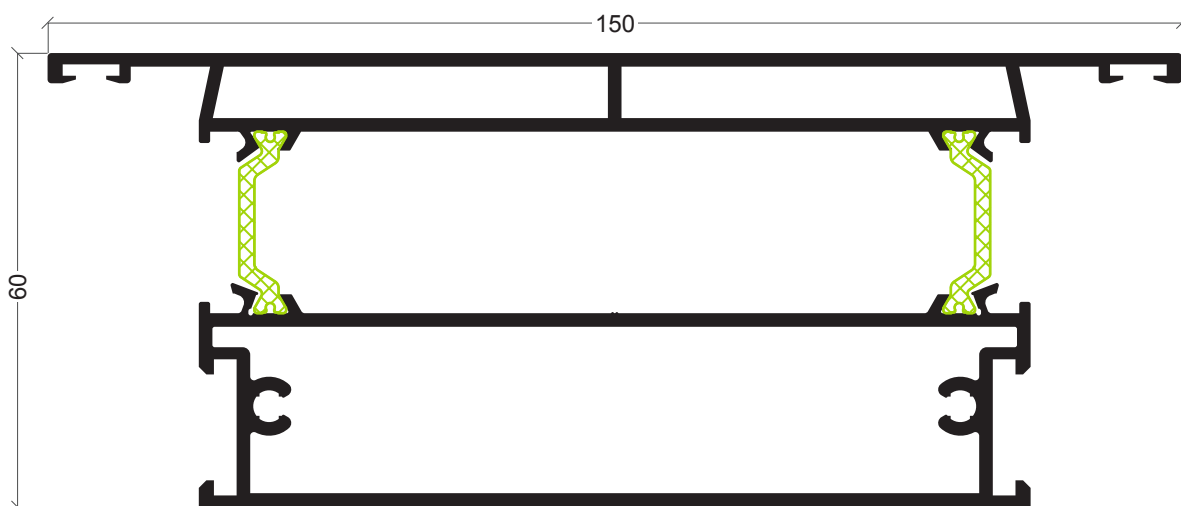
ARi-01
Travessa



ARi-06
Travessa

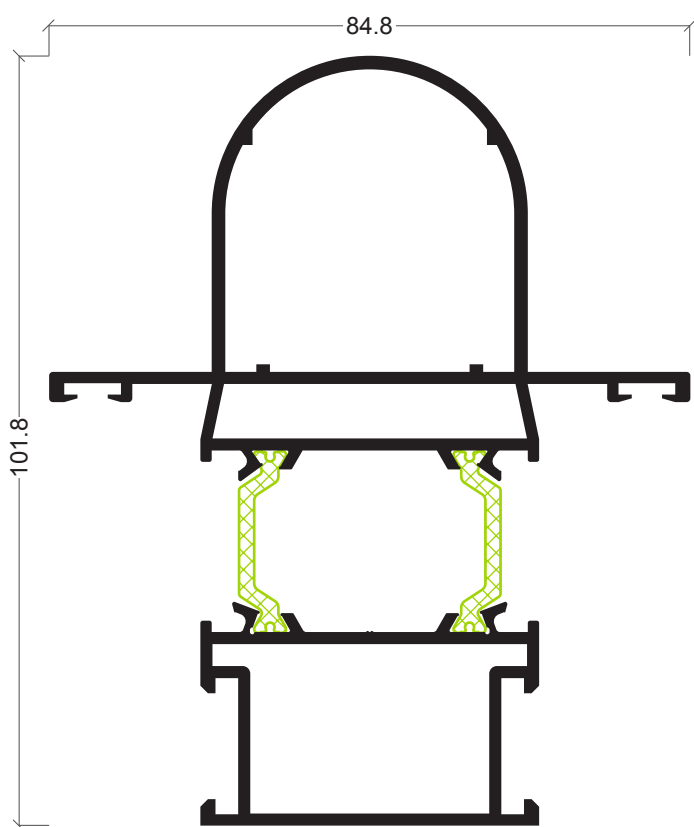


ARi-12
Travessa

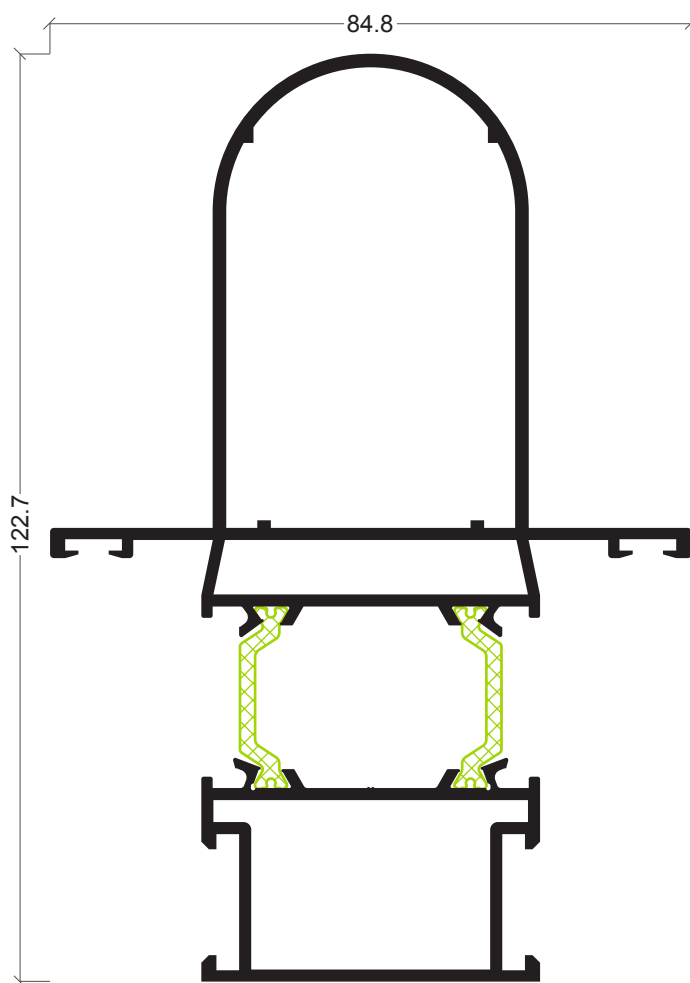


ARi-13
Travessa

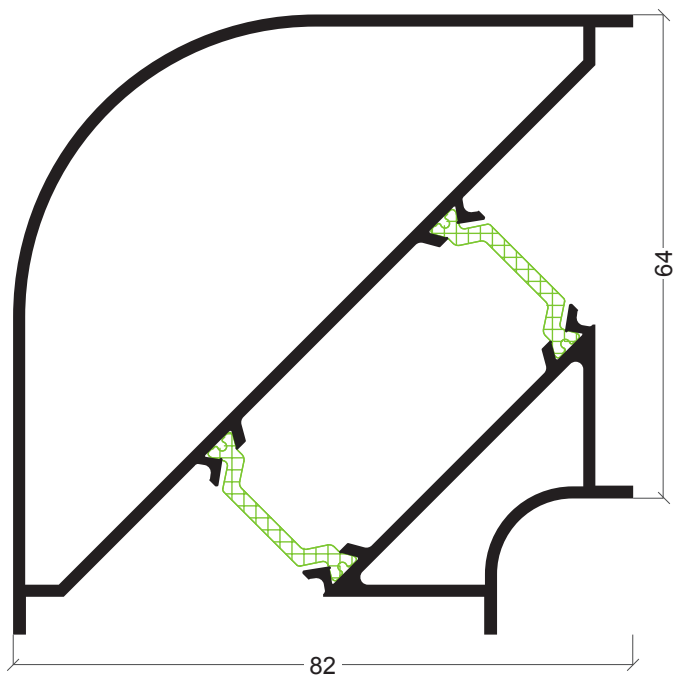
68



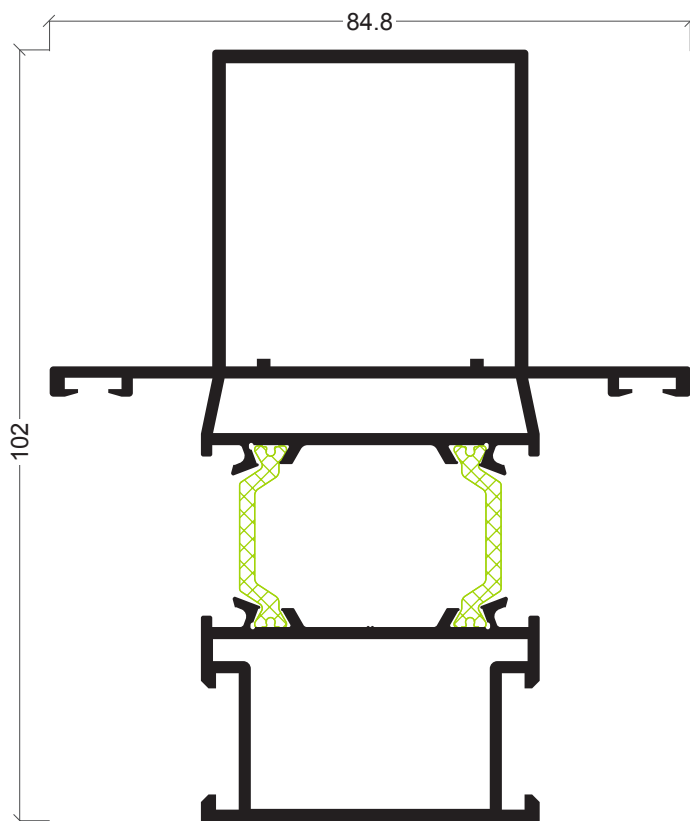
ARi-17
Montante curvo



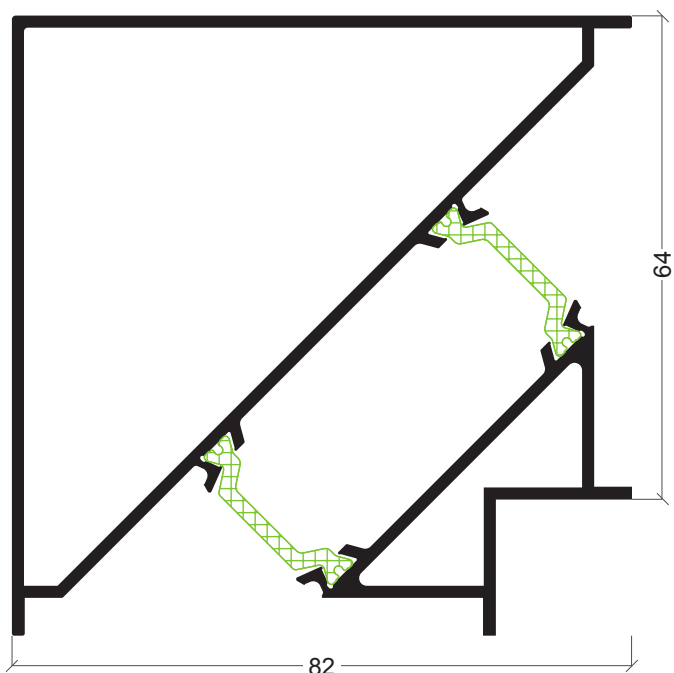
ARi-18
Montante curvo



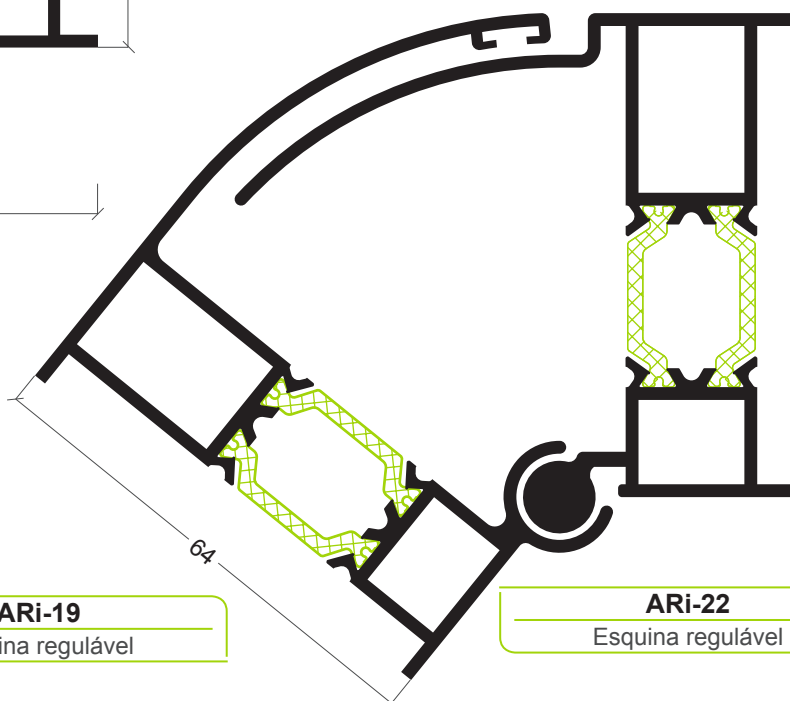
ARi-16
Esquina 90°



ARi-79
Montante recto

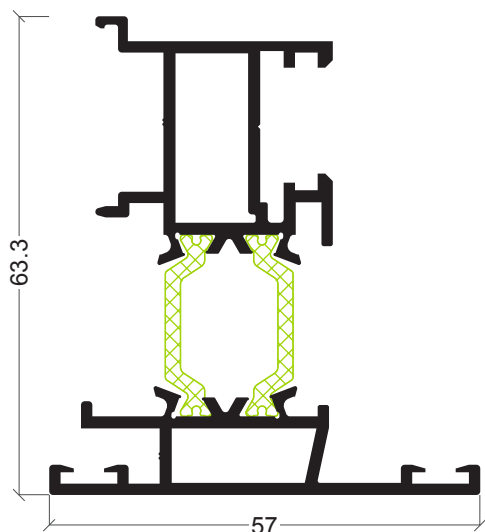


ARi-64
Esquina 90°

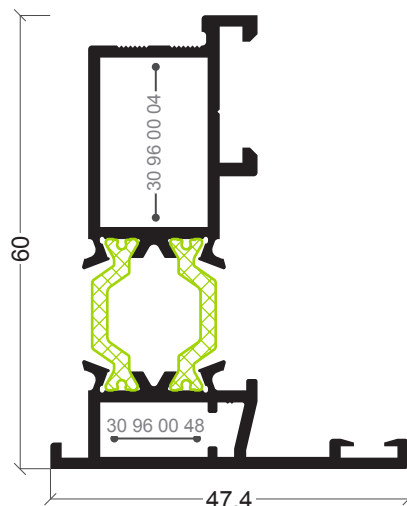


ARi-19
Esquina regulável

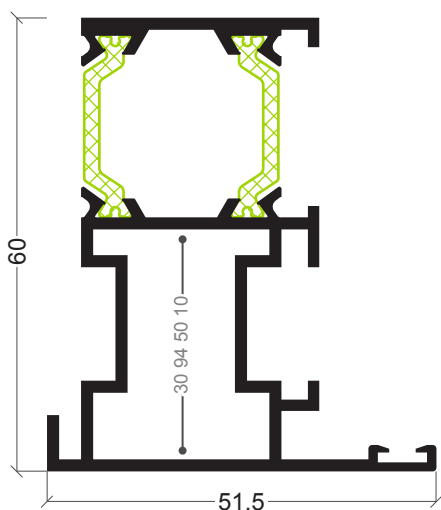
ARi-22
Esquina regulável



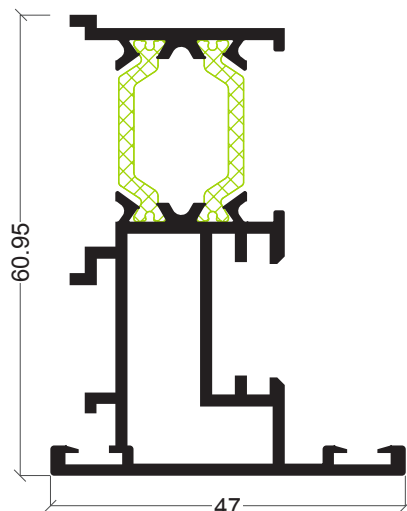
ARi-04
Inversor



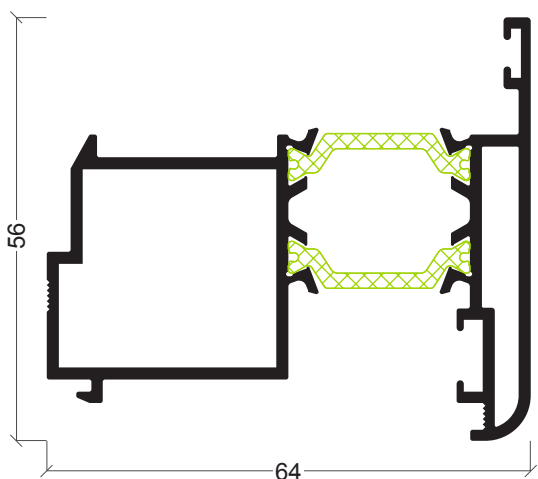
ARi-73
Inversor de sentido de abertura



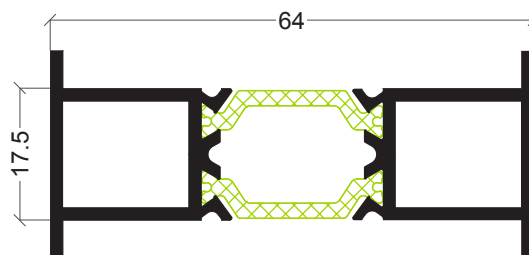
ARi-14
Inversor pivotante



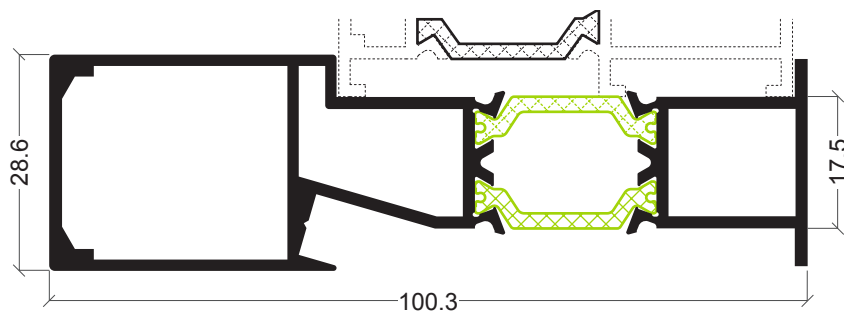
ARi-15
Inversor para ARi-25



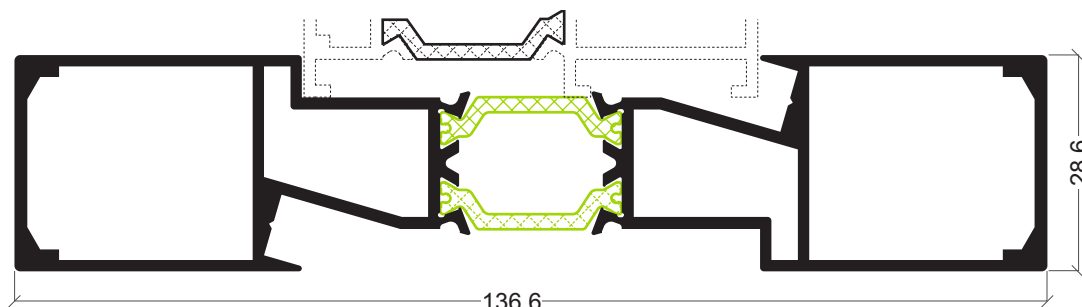
ARi-51
Inversor projectante



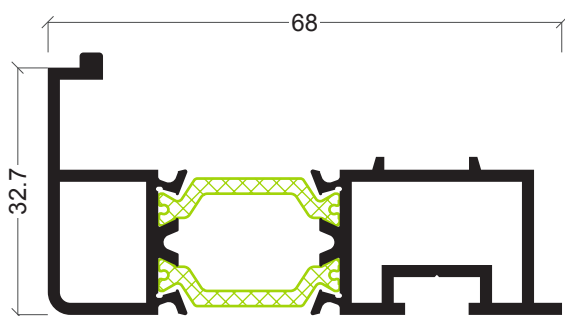
ARi-21
União de aros



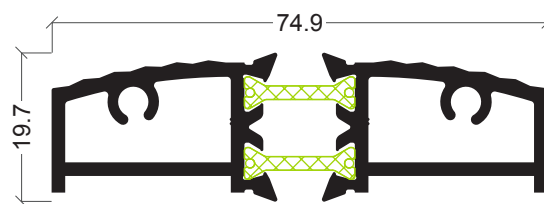
ARi-65
União de aros com reforço



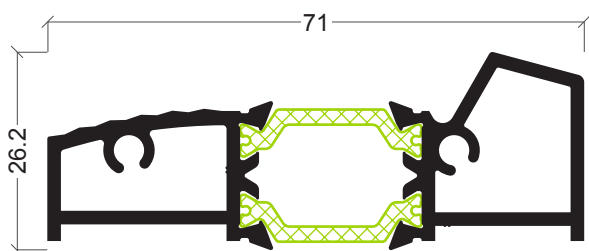
ARi-67
União de aros com reforço



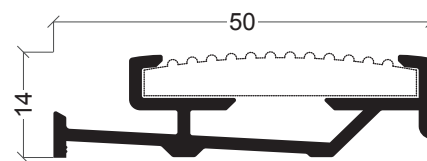
ARi-23
Remate almofada



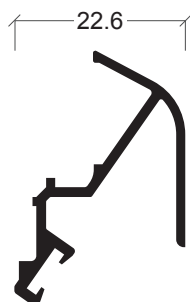
AXi-69
Remate inferior porta



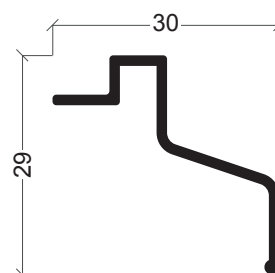
ARi-63
Remate inferior porta



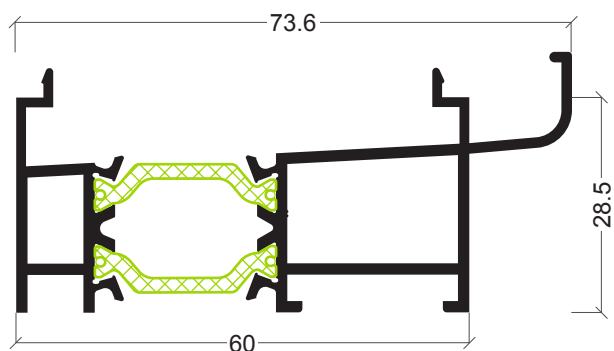
AZ-69
Remate inferior porta



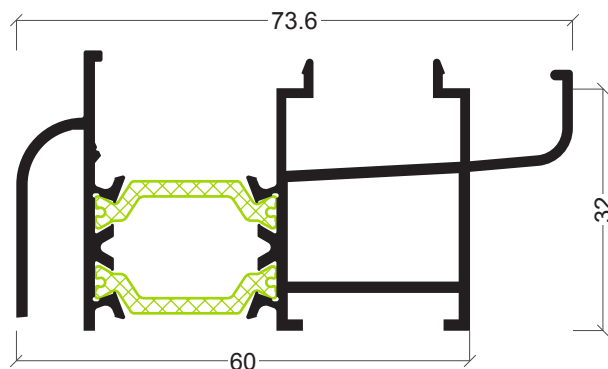
ARi-62
Pingadeira inferior porta



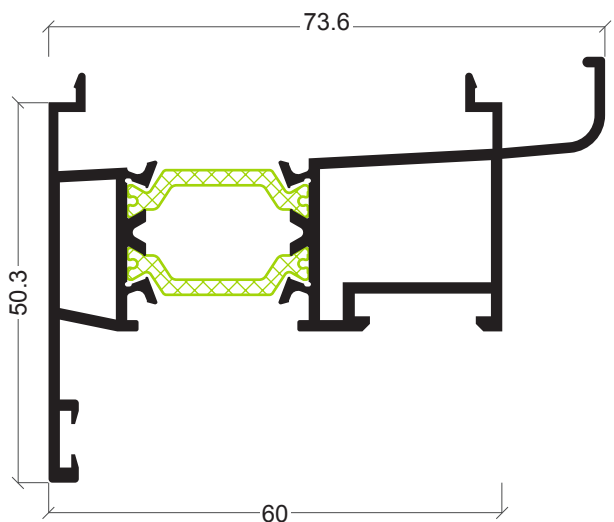
AXi-45
Pingadeira



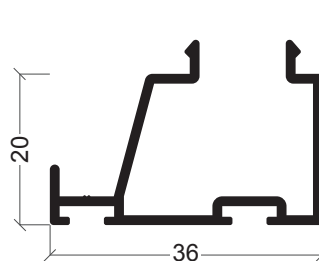
CT-11
Soleira condensação



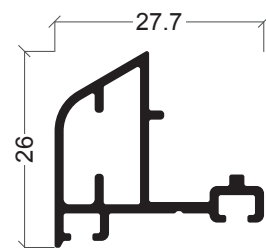
ARi-49
Soleira condensação



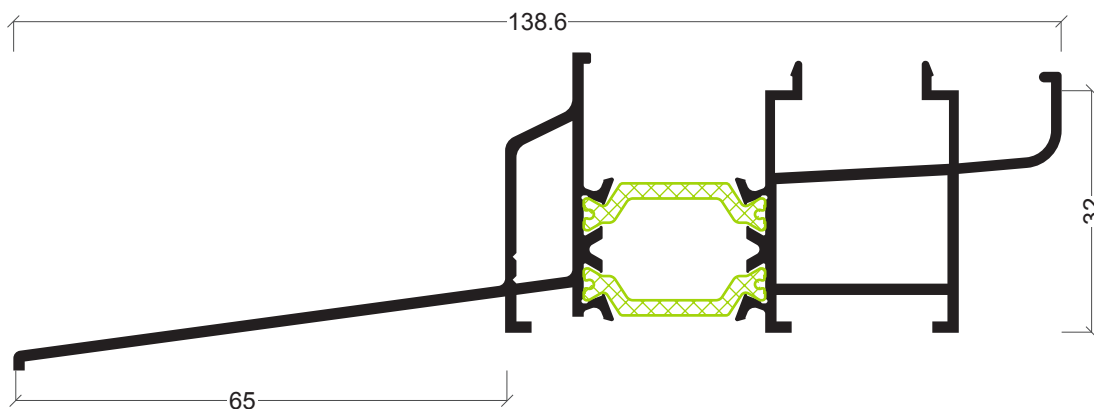
ARi-20
Soleira condensação com fixo inferior



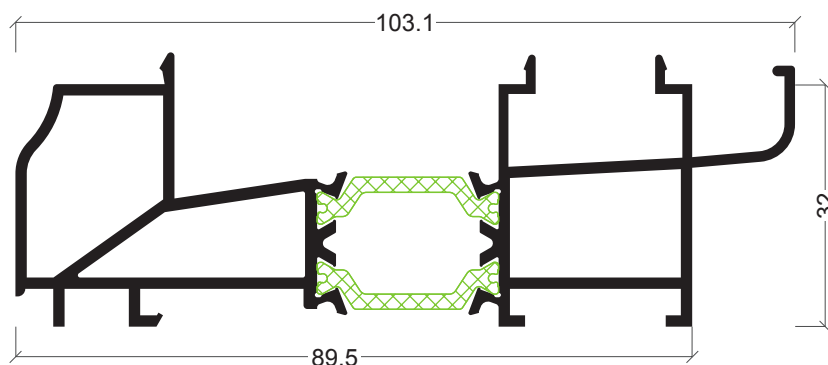
AX-15
Bite remate



AZ-79
Pingadeira



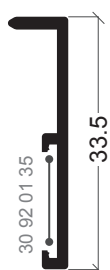
ARi-50
Soleira condensação com pingadeira



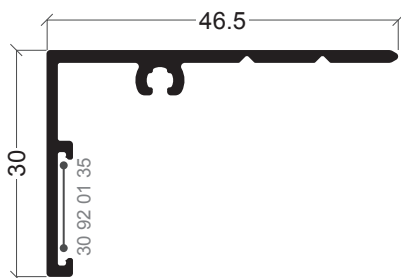
ARi-56
Soleira condensação tradição



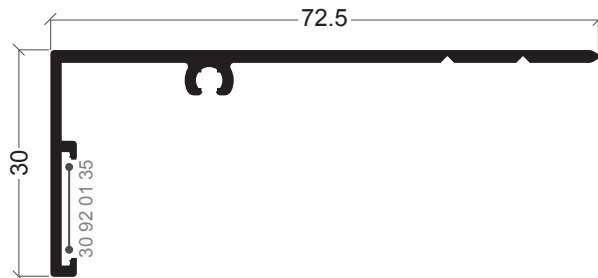
AXi-91
Complemento remate



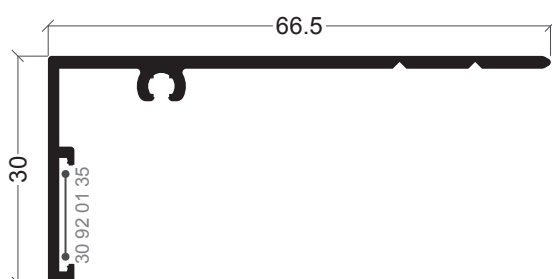
AXi-88
Complemento remate



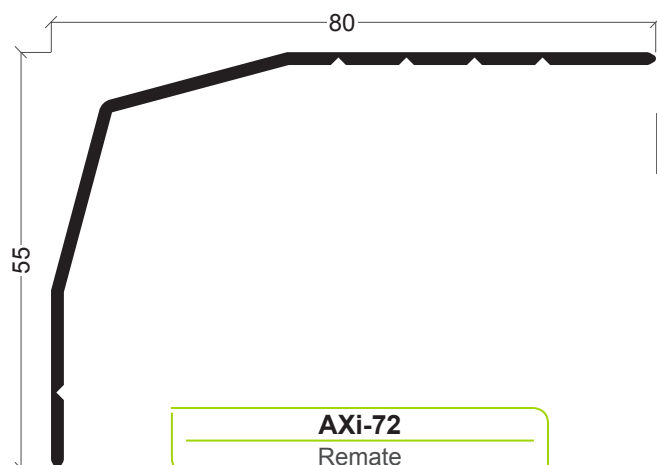
AXi-80
Remate



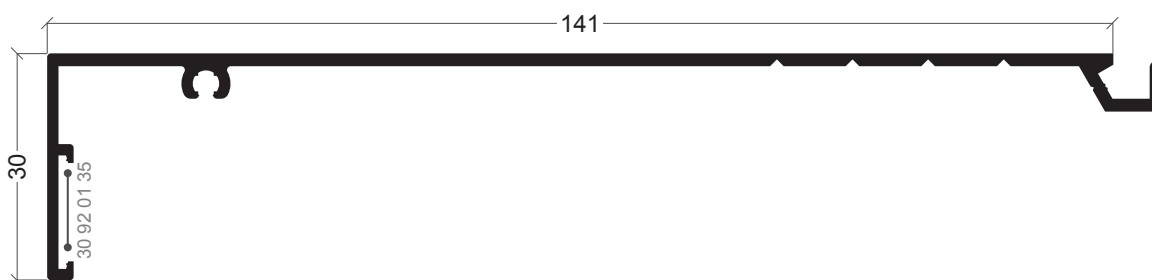
AXi-83
Remate



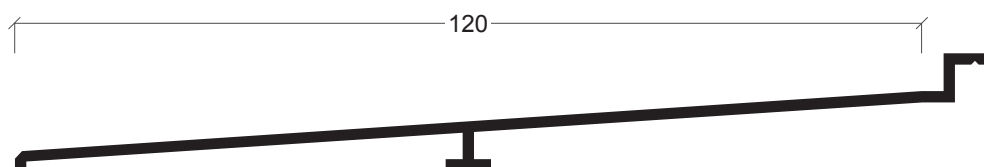
AXi-73
Remate



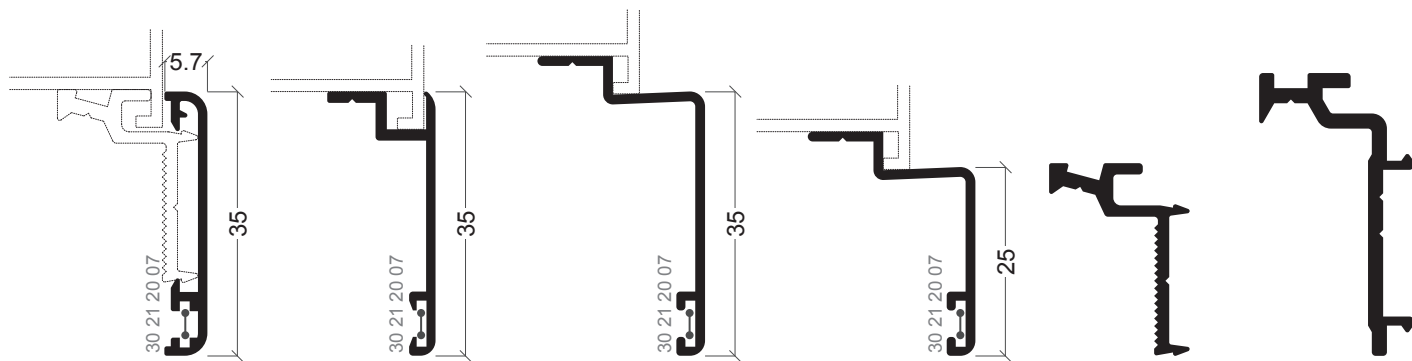
AXi-72
Remate



S-09
Remate



AZ-24
Pingadeira 120 mm



ARi-30
Tapa juntas

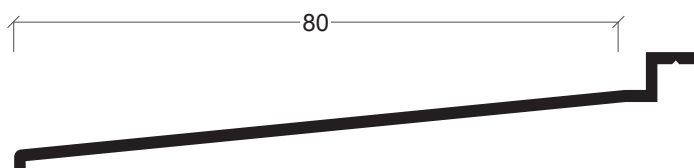
ARi-31
Tapa juntas

ARi-37
Tapa juntas

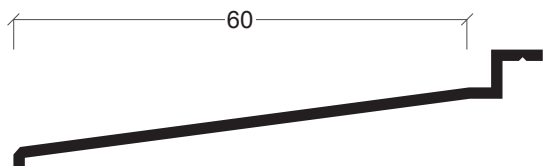
ARi-66
Tapa juntas

ARi-24
Mola tapa juntas

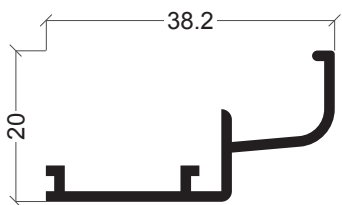
ARi-26
Mola tapa juntas



AZ-30
Pingadeira 80 mm



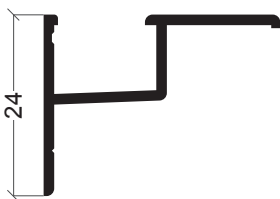
AZ-23
Pingadeira 60 mm



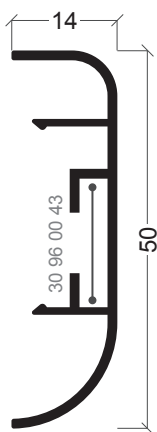
ARi-32
Complemento condensação



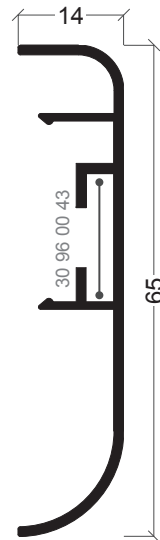
AXi-32
Complemento abertura projectante



Y-20
Recolha de águas condensação



ARi-27
Tapa juntas



ARi-34
Tapa juntas



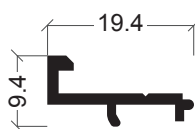
ARi-28
Tapa juntas



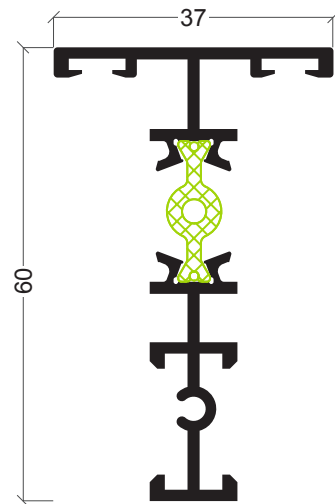
AX-19
Vareta



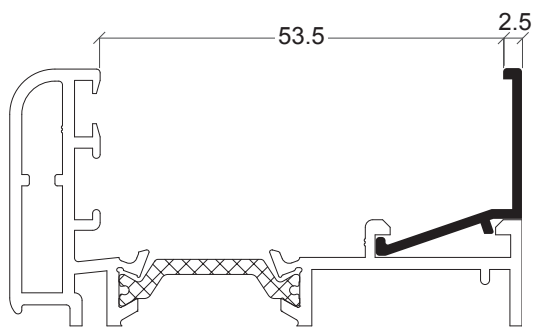
AX-33
Mola Bite



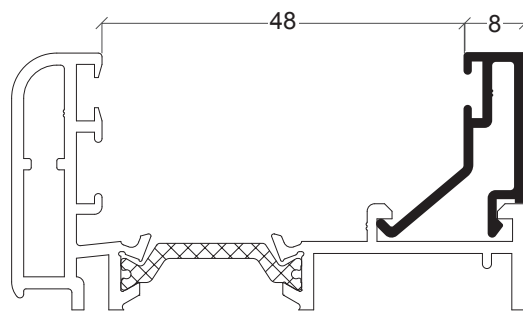
ARi-29
Apoio bite ARi-07



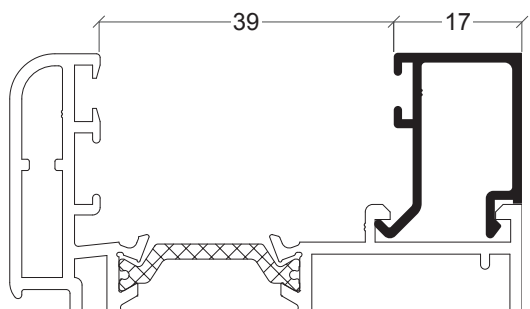
ARi-40
Divisor de vidro



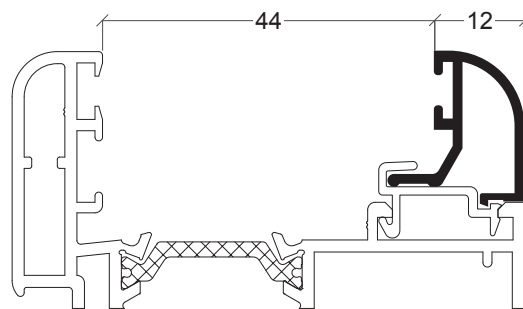
AX-69



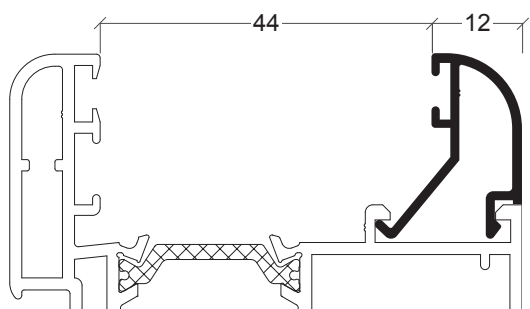
AX-74



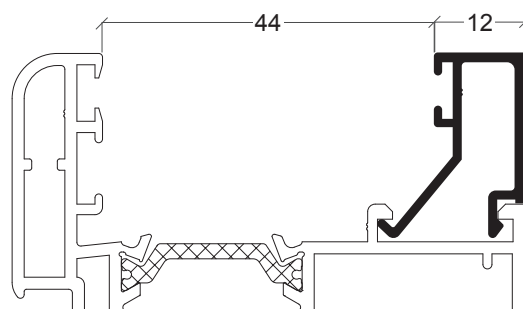
AX-46



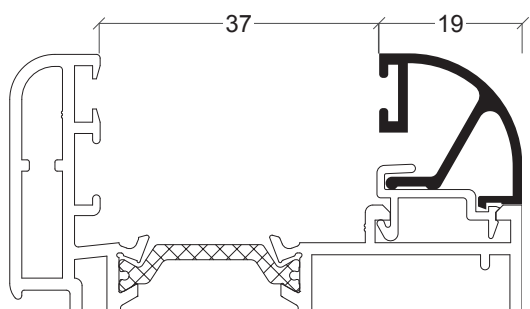
AX-37



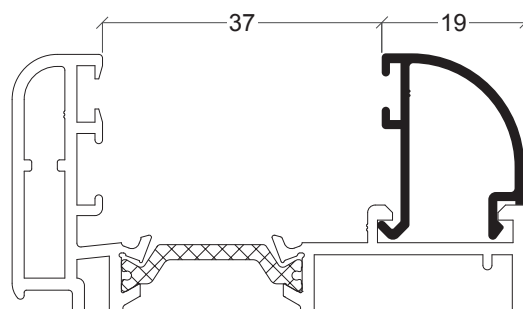
AZ-08



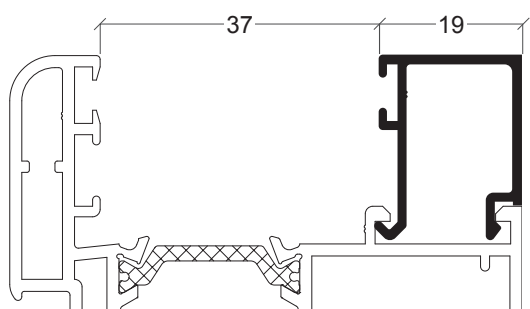
AX-36



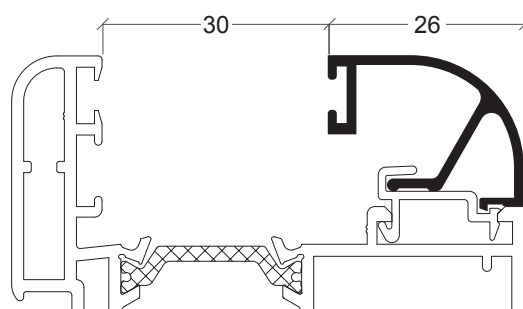
AX-30



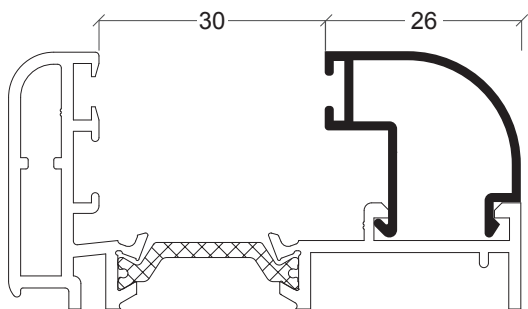
AZ-07



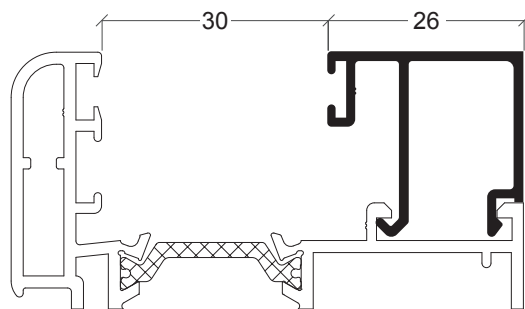
AX-35



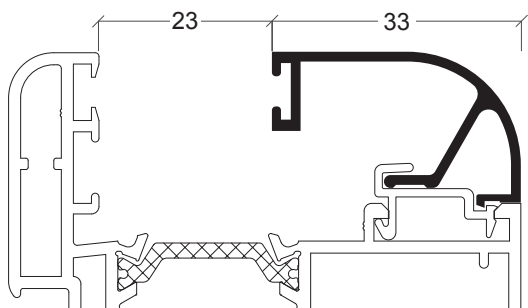
AX-29



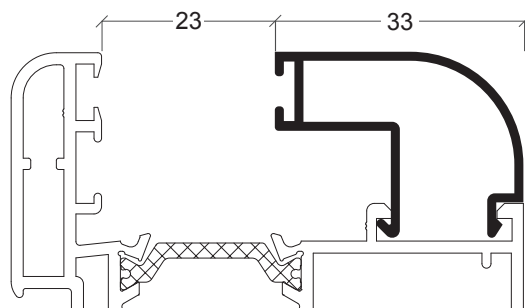
AZ-06



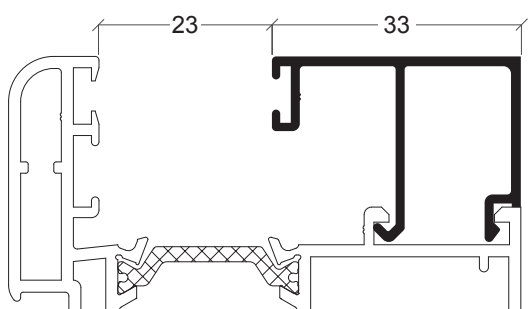
AX-31



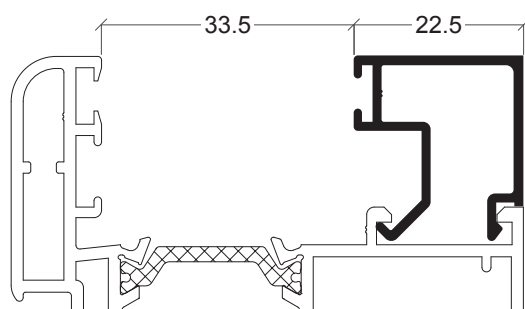
AX-39



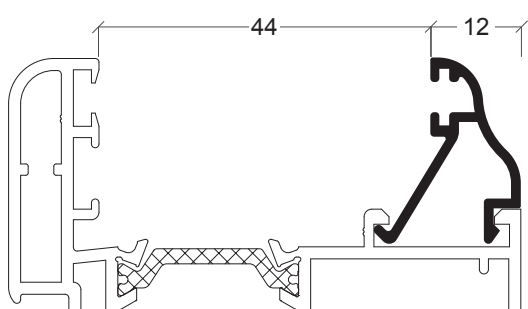
AZ-28



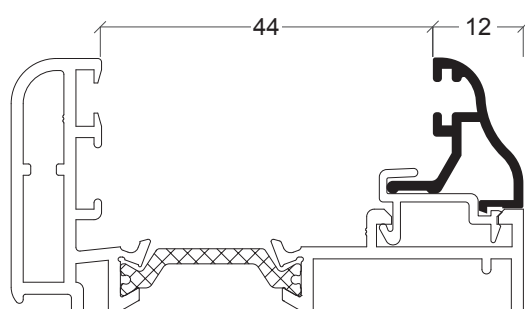
AX-34



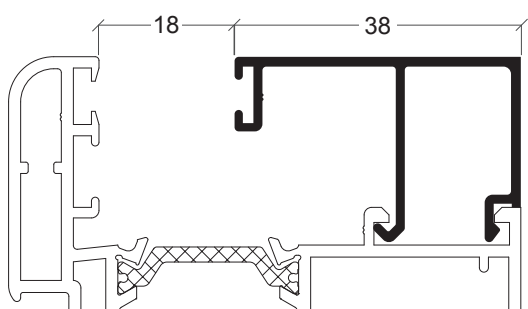
AX-78



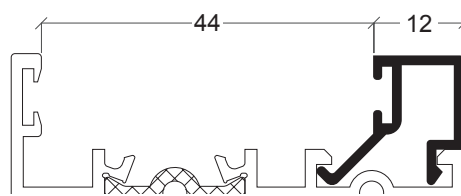
AX-73



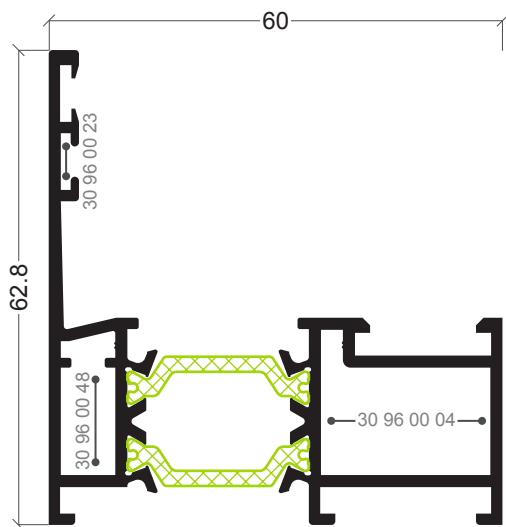
AX-72



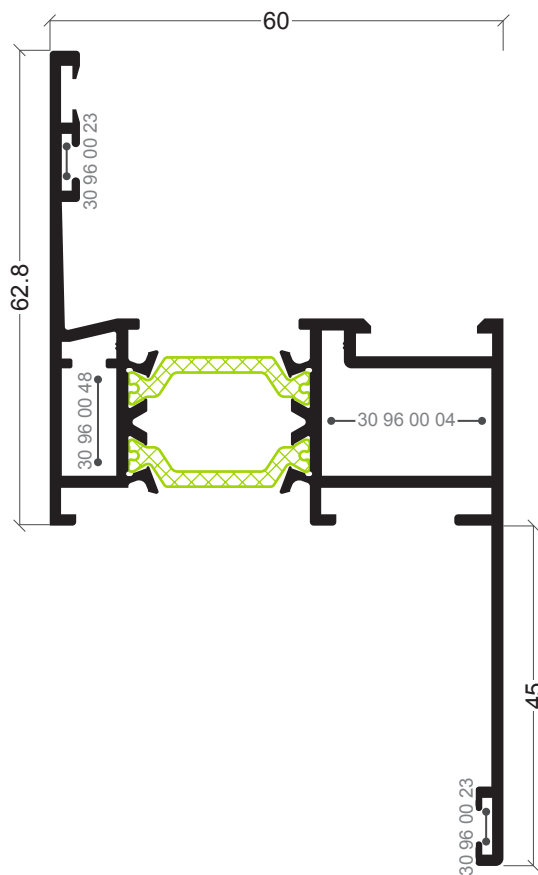
AX-32



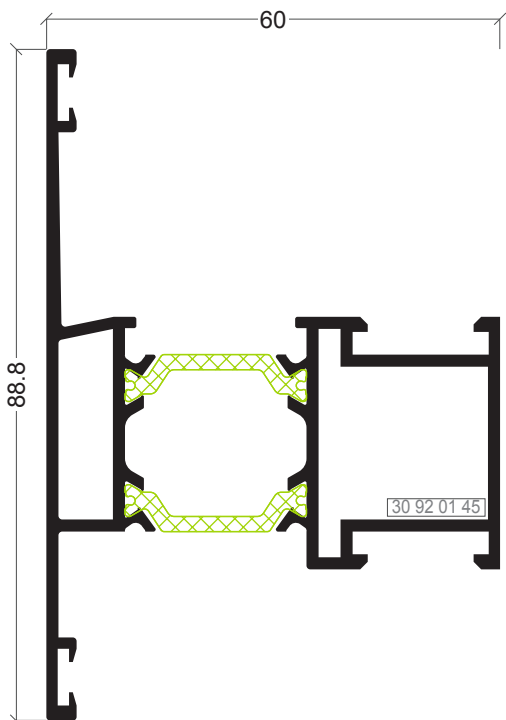
AX-70



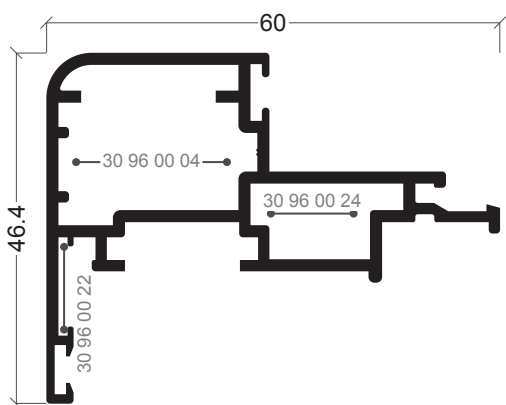
ARi-43
Aro fixo folha oculta



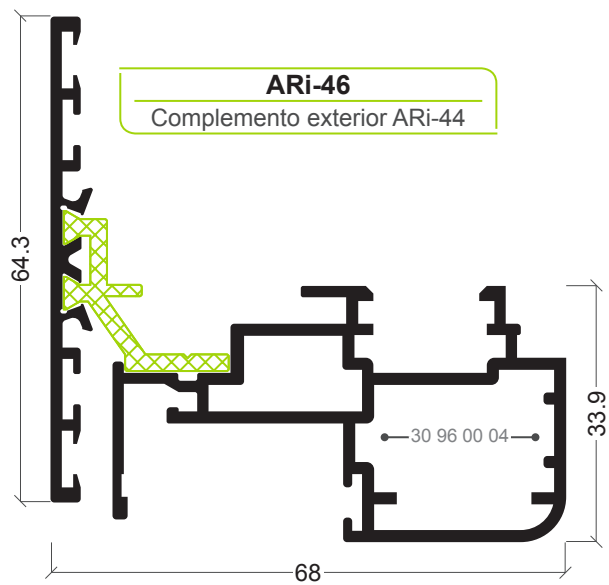
ARi-42
Aro fixo com remate folha oculta



ARi-41
Travessa folha oculta

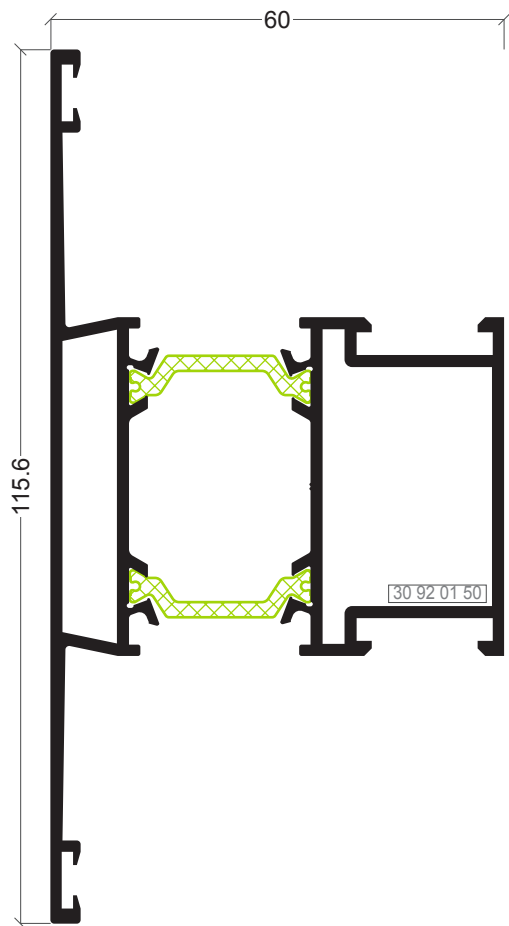


ARi-45
Aro móvel folha oculta

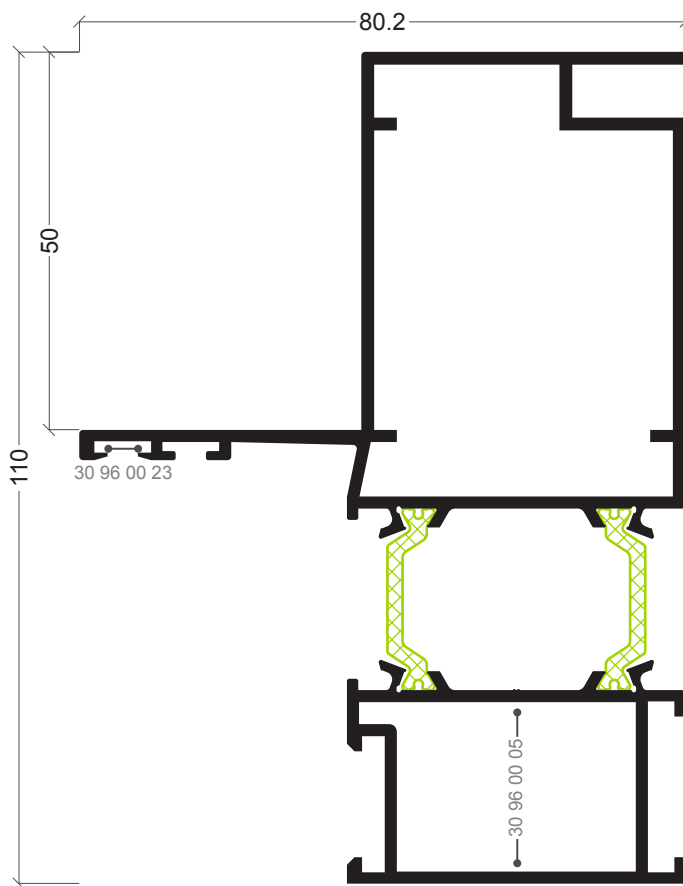


ARi-46
Complemento exterior ARI-44

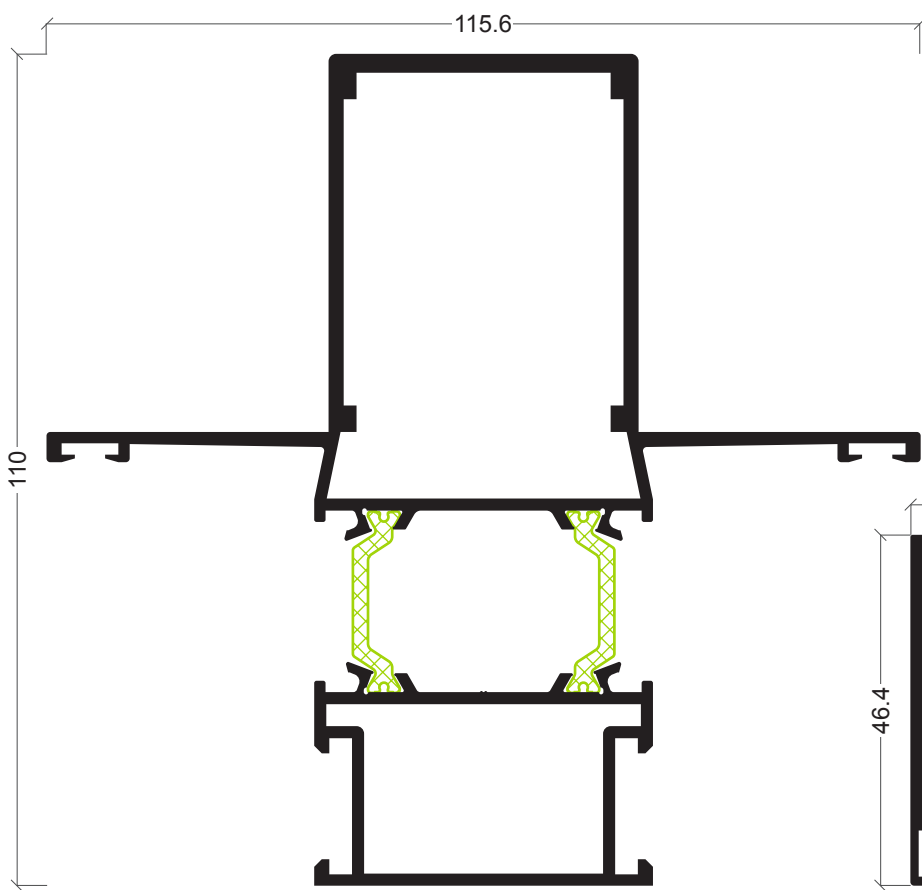
ARi-44
Aro móvel inversor folha oculta



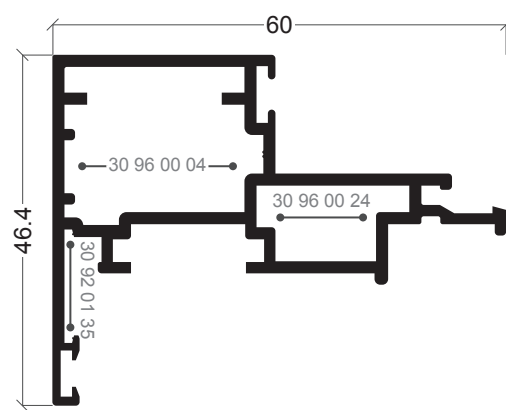
ARi-70
Travessa



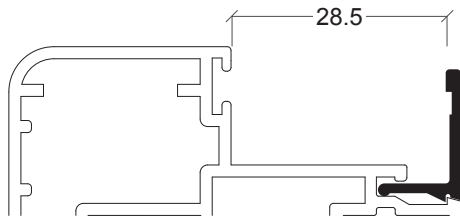
ARi-55
Aro fixo montante



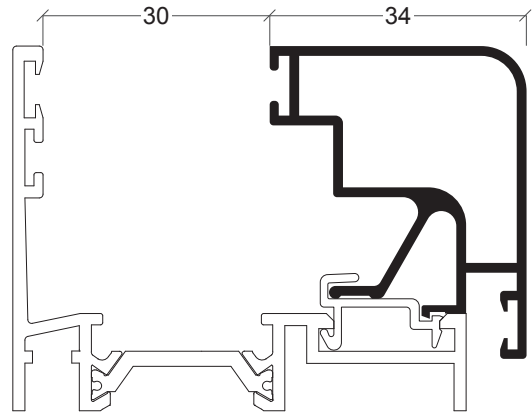
ARi-54
Montante



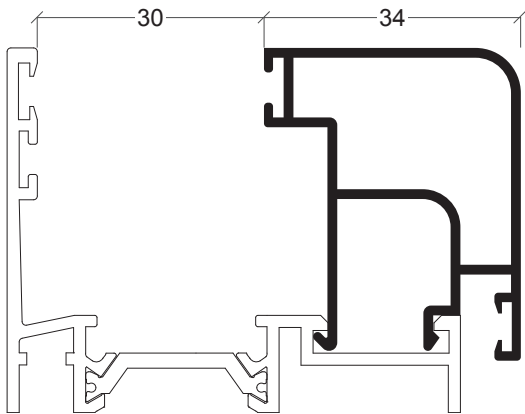
ARi-71
Móvel para vãos de 1 folha ou 1 folha + fixo



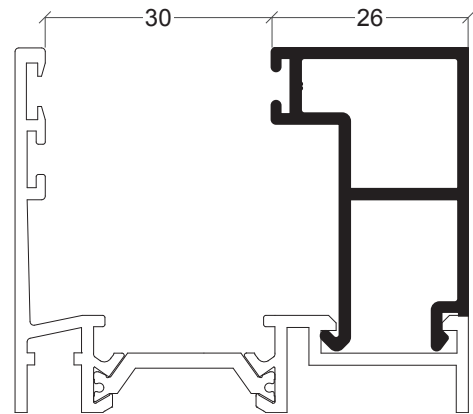
ARi-47



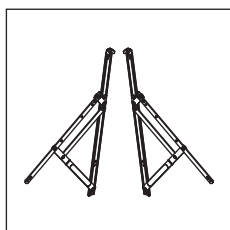
ARi-53



ARi-52

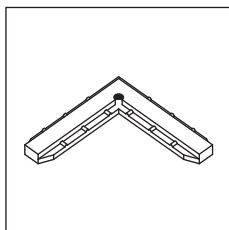


ARi-48



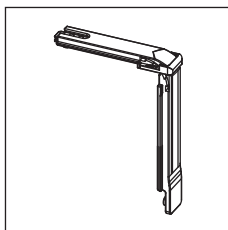
30 00 95 71

Compasso projectante
deslizante até 100 kg/folha



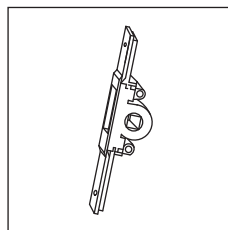
30 21 20 07

Esquadro de
alinhamento



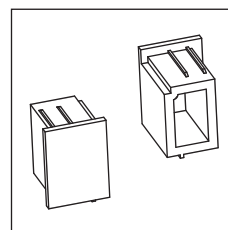
30 90 20 42

Ângulo de reenvio



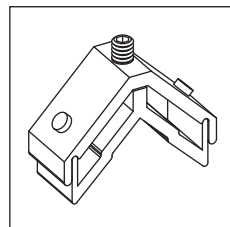
30 90 20 44

Transmissão para
abertura exterior



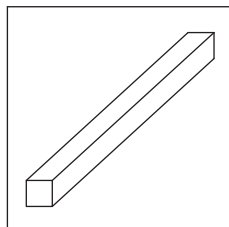
30 91 21 20

Jogo topos condensação
para Y-20



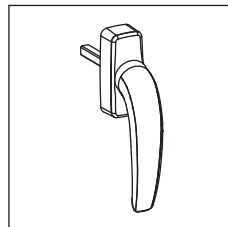
30 91 40 15

Esquadro aro fixo ARi-38



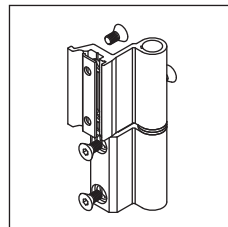
30 91 41 23

Perno 7x131 mm



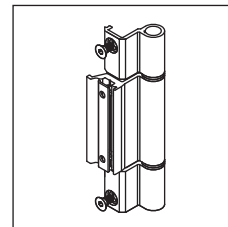
30 91 41 47/48

Cremona pivotante especial
branco/preto



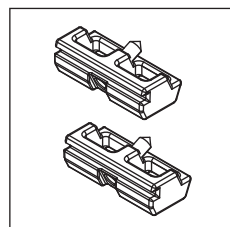
30 92 00 20/21

Dobradiça C.E. branco/
preto



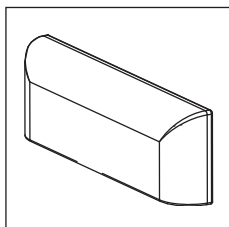
30 92 00 26/27/28

Dobradiça três nós
(bruto/branco/preto)



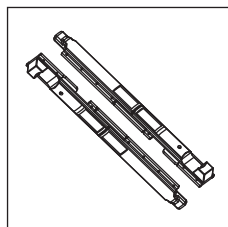
30 92 00 50

Contra-fecho



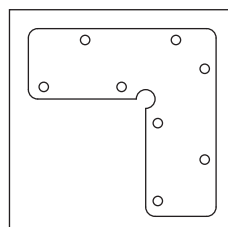
30 92 01 00/01

Goteiras preto/branco



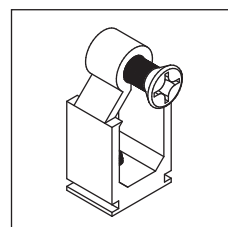
30 92 01 20

Jogo fecho C.E.



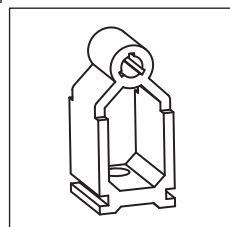
30 92 01 35

Esquadro alinhamento
móvel



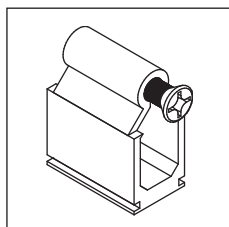
30 92 01 40

União topos janela



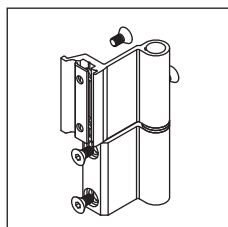
30 92 01 45

União topos janela folha
oculta



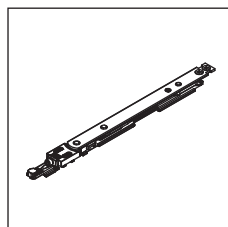
30 92 01 50

União topos porta



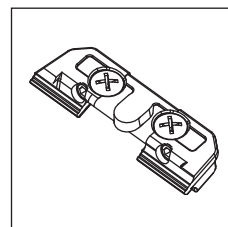
30 92 01 70/80

Dobradiça 3 folhas
branco/preto



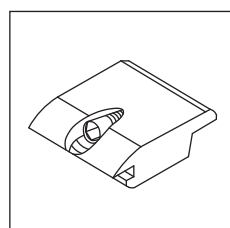
30 92 02 10/11/12

Compasso oscilo
300/400/500



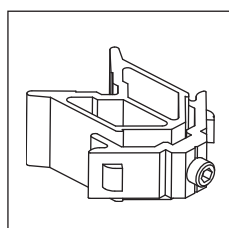
30 92 02 15

Fecho para micro-
ventilação



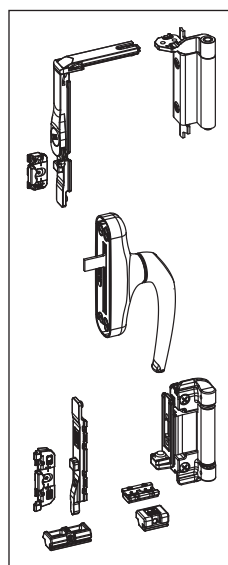
30 92 02 60

Apoio da folha



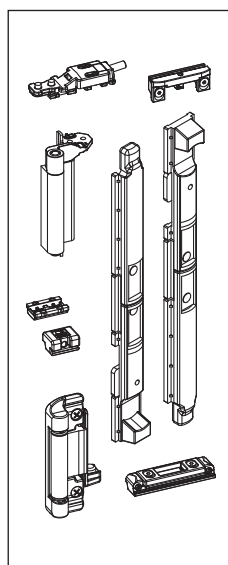
30 92 03 90

Esquadro porta



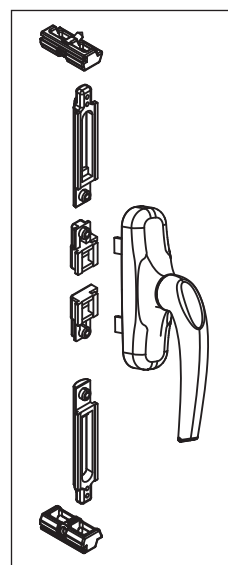
30 92 02 20/21

Kit oscilobatente branco/
preto



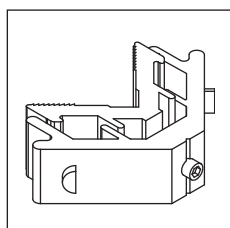
30 92 02 24/25

Kit 2ª folha OB branco/
preto



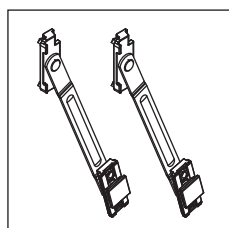
30 92 03 10/11

Kit cremone branco/preto



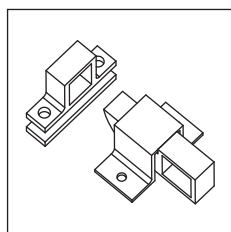
30 92 04 25

Esquadro ARi-80



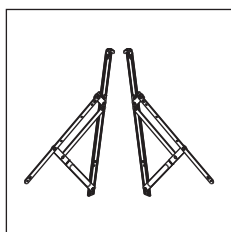
30 92 04 75

Jogo compasso
basculante



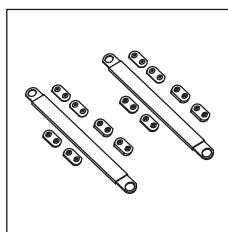
30 92 04 76/77

Fecho clack (branco/preto)



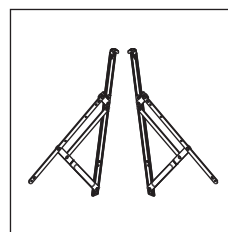
30 92 04 80

Compasso projectante deslizante até 50 kg/folha



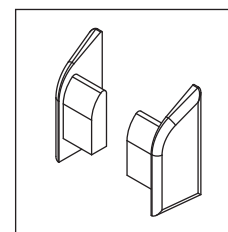
30 92 04 85

Jogo compasso



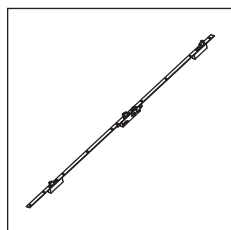
30 92 04 90

Compasso projectante deslizante até 70 kg/folha



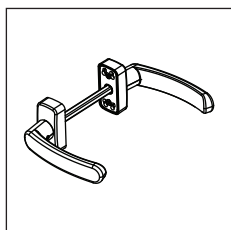
30 92 05 00

Jogo topos



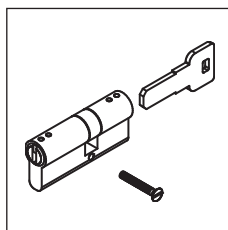
30 92 05 10

Fechadura 3 pontos (35 mm)



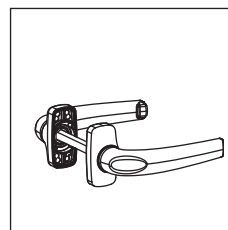
30 92 05 15

Fecho de alavanca com 5 pontos de fecho



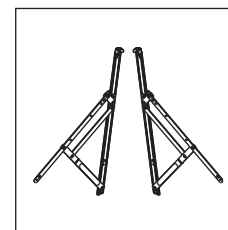
30 92 05 50

Canhão fechadura



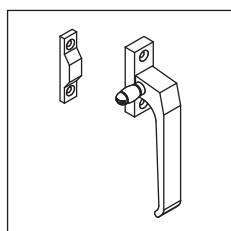
30 92 05 60/61

Puxador duplo branco/preto



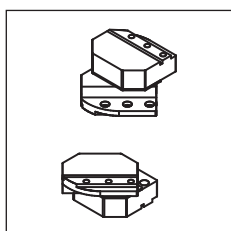
30 92 06 00

Compasso projectante deslizante até 20 kg/folha



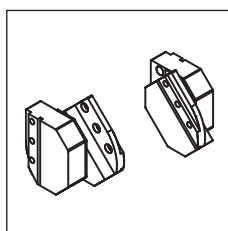
30 92 06 10/11

Cremona de lingueta branco/preto



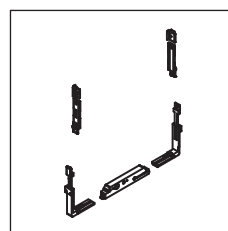
30 92 07 12

Jogo pivotante vertical especial ARi preto (130 kg)



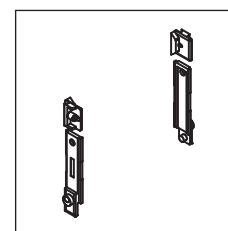
30 92 07 13

Jogo pivotante horizontal especial ARi preto (130 kg)



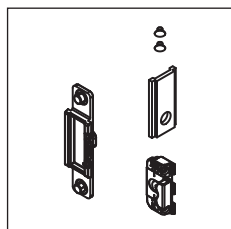
30 92 07 16

Fecho perimetral pivotante especial



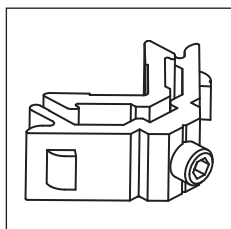
30 92 07 17

Fecho suplementar pivotante especial



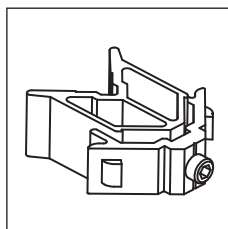
30 92 22 43

Ponto fecho suplementar



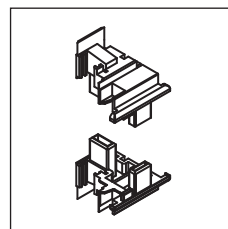
30 96 00 04

Esquadro janela



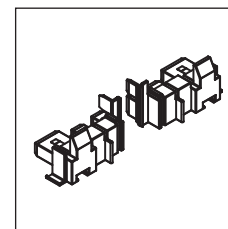
30 96 00 05

Esquadro aro fixo porta



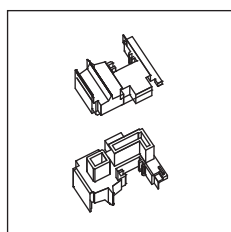
30 96 00 08

Jogo topos inversor ARi



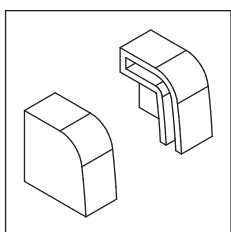
30 96 00 10

Jogo topos ARi-23



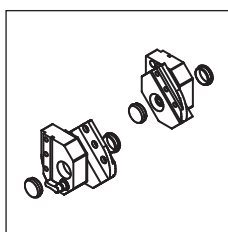
30 96 00 11

Jogo topos inversor abertura exterior ARi-15



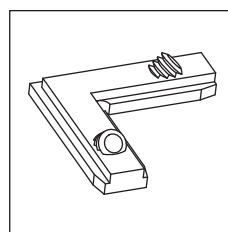
30 96 00 12

Jogo topos condensação



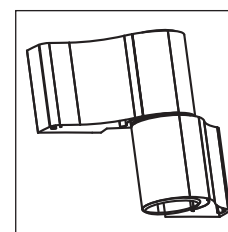
30 96 00 13

Jogo pivotante (60 kg)



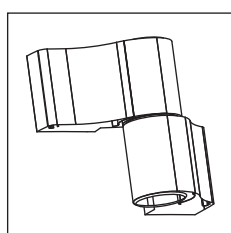
30 96 00 15

Esquadro alinhamento móvel



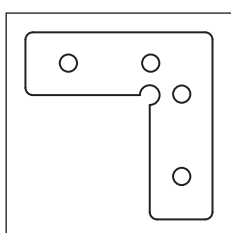
30 96 00 16/20

Dobradiça lisa (branco/preto)



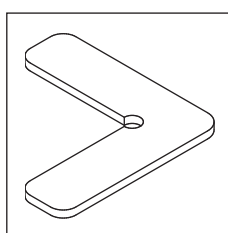
30 96 00 17/21

Dobradiça com ressalto (branco/preto)



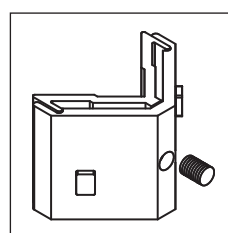
30 96 00 22

Esquadro alinhamento especial



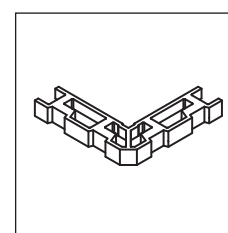
30 96 00 23

Esquadro alinhamento aro fixo



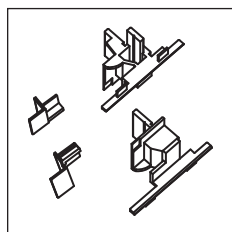
30 96 00 24

Esquadro exterior móvel folha oculta

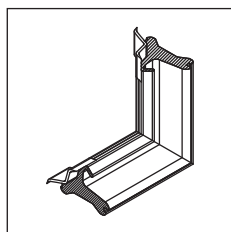


30 96 00 25

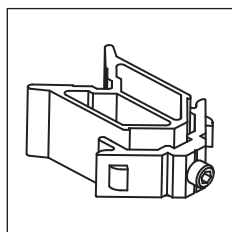
Esquadro exterior aro fixo



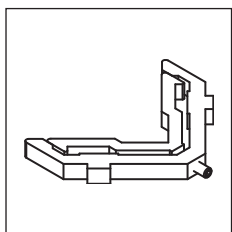
30 96 00 26
Jogo topos inversor folha oculta



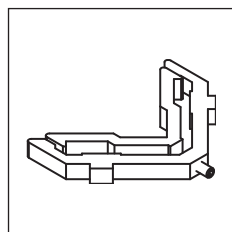
30 96 00 35
Canto vulcanizado



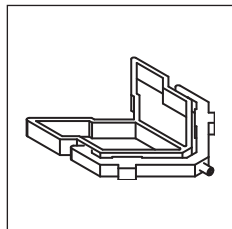
30 96 00 36
Esquadro aro móvel porta



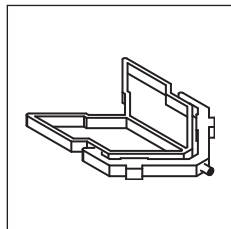
30 96 00 38
Esquadro alinhamento móvel janela



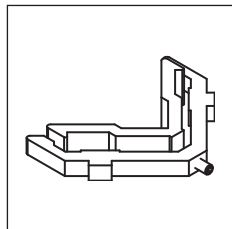
30 96 00 39
Esquadro para alinhamento fixo janela



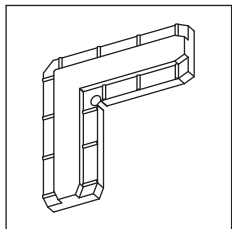
30 96 00 40
Esquadro alinhamento aro fixo porta



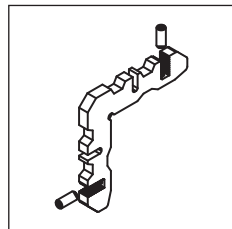
30 96 00 41
Esquadro alinhamento aro móvel porta



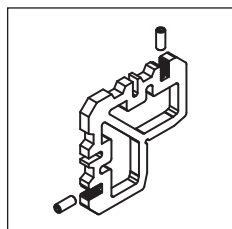
30 96 00 42
Esquadro perfil ARi-07



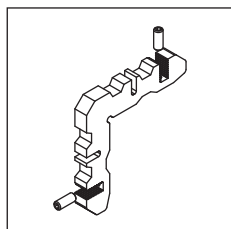
30 96 00 43
Esquadro alinhamento



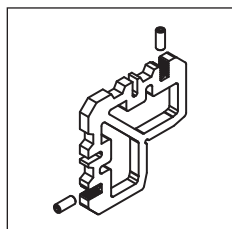
30 96 00 45
Esquadro de alinhamento 5.2x14 com parafusos



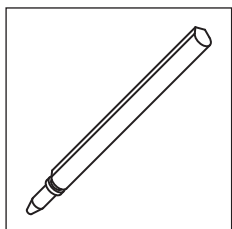
30 96 00 46
Esquadro de alinhamento 5.2x36 com parafusos



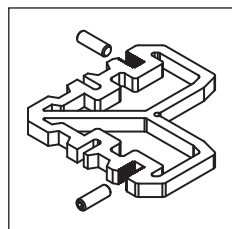
30 96 00 48
Esquadro de alinhamento 7x14 c/ parafusos



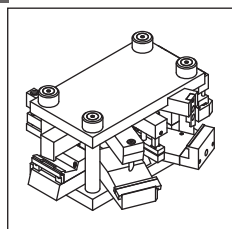
30 96 00 49
Esquadro de alinhamento aro fixo com parafusos



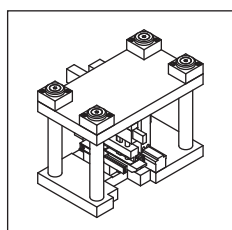
30 96 00 55
Perno alternativo para fixação de esquadro



30 96 00 60
Esquadro de alinhamento 5.2x31.6 com parafusos



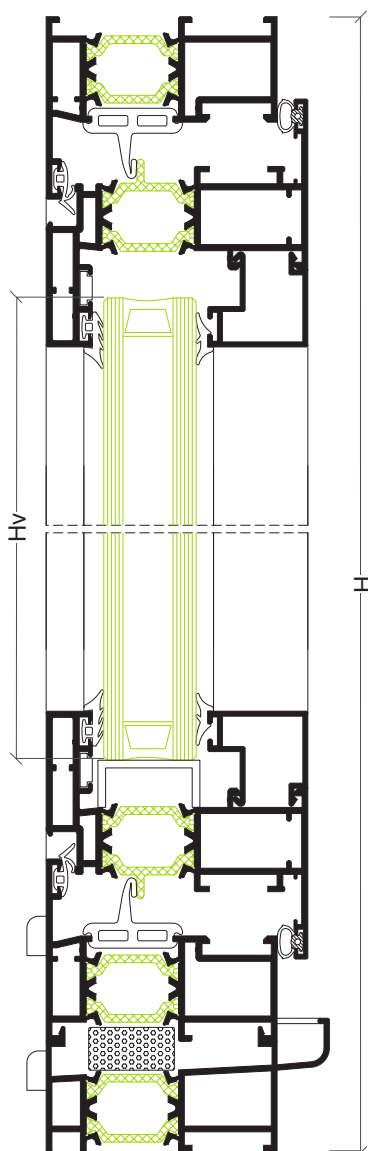
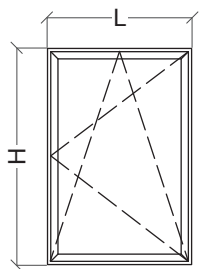
33 96 79 99
Cunho C.E.







33 96 87 99
Cunho esquadro interior e exterior ARi/AKi

Referência	Desenho	Descrição
30 00 95 15		Junta vedação interior curta
30 20 30 03		Junta isolante
30 20 70 03		Pelúcia remate porta 11x12 mm
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 92 04 70		Espuma isolante
30 93 00 60		Vedante exterior de vidro (opcional)
30 93 00 61		Junta vedação exterior vidro 2 mm
30 93 00 62		Junta plana para vidro
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 93 00 70		Vedante interior de vidro (opcional)
30 93 00 80		Junta de vedação inferior ARi-42
30 93 00 82		Junta vedação inferior
30 93 01 20		Junta interior
30 93 01 30		Junta exterior (abertura exterior/projectante)
30 95 00 10		Pelúcia 7x9 mm
30 96 00 02		Junta exterior
30 96 00 03		Junta central
30 96 00 09		Junta central abertura exterior (ARi-25) ou tapa-canal
30 96 00 18		Junta interior (abertura projectante/deslizante)
30 96 00 27		Junta exterior folha oculta

Janela 1 folha abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ARI-03	Aro fixo		2	L
				2	H-28.5 mm
	ARI-61	Aro móvel		2	L-43 mm
				2	H-71.5 mm
	---	Bite		2	L-132 mm
				2	H-200.5 mm
	CT-11	Soleira condensação		1	L
	AZ-23	Pingadeira 60 mm		1	L
	AX-19	Vareta		1+1	Apro. H+L

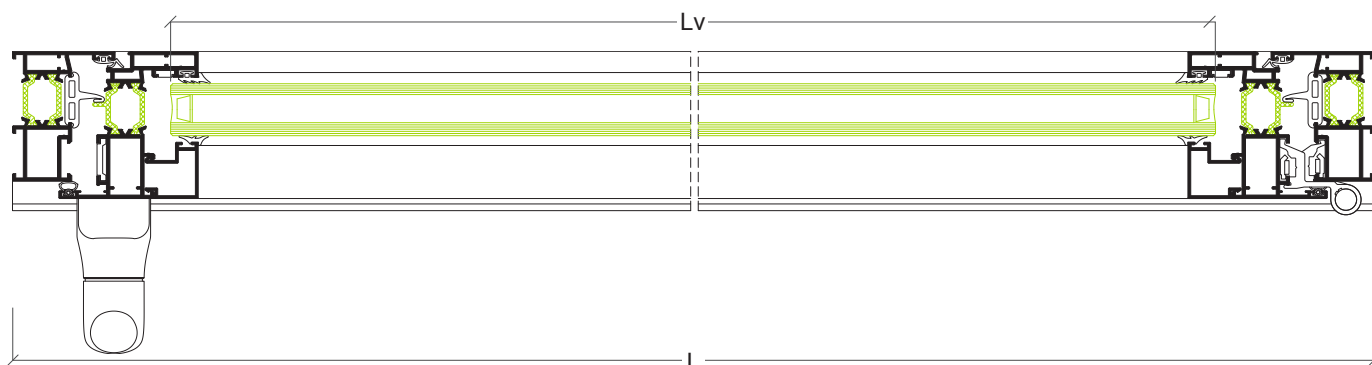
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	2	---
30 92 01 00	Goteiras	4	4
30 92 02 XX	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 96 00 04	Esquadro janela	8	8
30 96 00 48	Esquadro alinhamento aro fixo	4	4
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	4	4
30 96 00 22	Esquadro alinhamento móvel	4	4
30 96 00 45	Esquadro alinhamento exterior móvel	4	4
30 96 00 35	Canto vulcanizado	4	4
30 92 04 70	Espuma isolante	L	
30 96 00 02	Junta exterior	2L+2H	
30 96 00 03	Junta central	2L+2H	
30 93 01 20	Junta interior	2L+2H	
---	Junta exterior vidro	2L+2H	
---	Junta interior vidro	2L+2H	

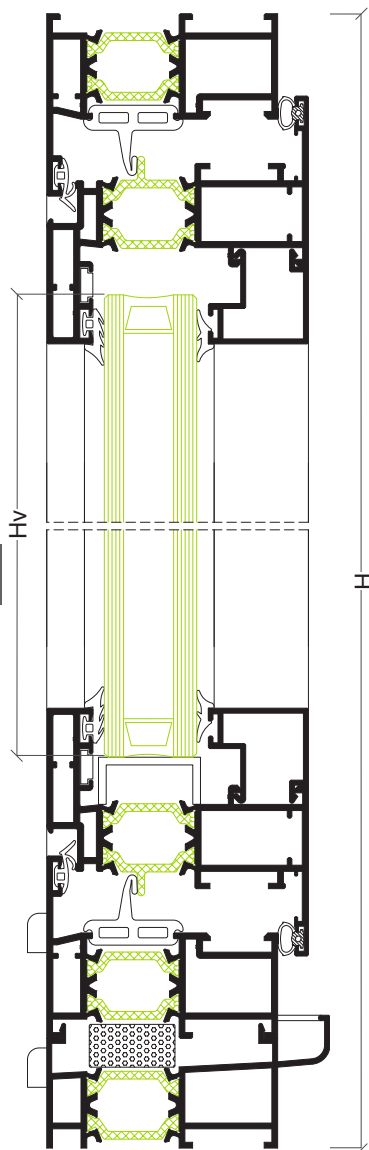
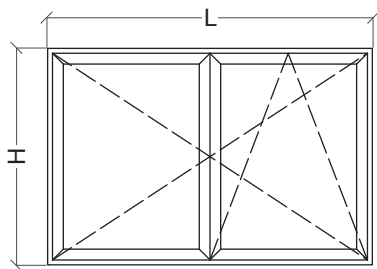
83

Vidro

Hv = H-174 mm	Lv = L-146 mm
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Janela 2 folhas abrir e oscilo-batente



Perfis

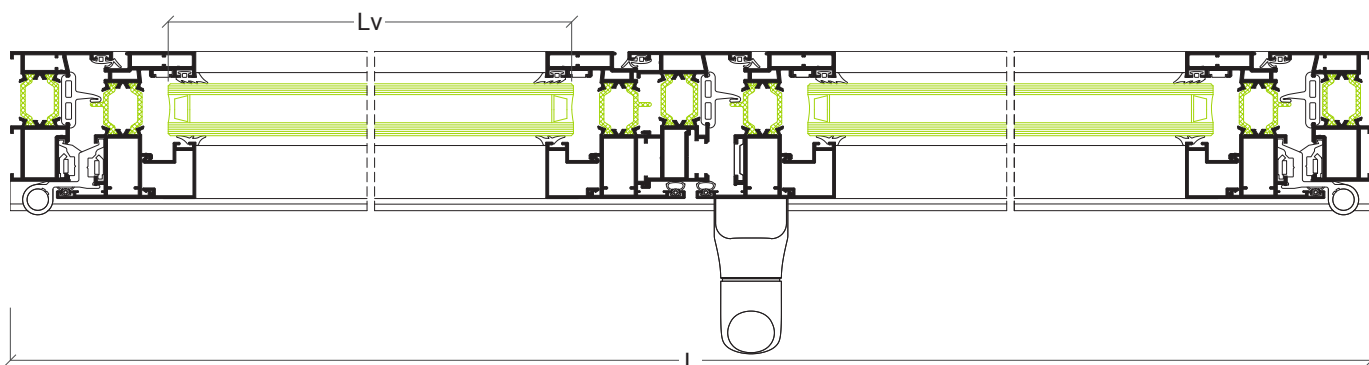
Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-03	Aro fixo		2	L
				2	H-28.5 mm
	ARi-61	Aro móvel		2	L/2-24 mm
				2	H-71.5 mm
	ARi-04	Inversor		1	H-139.5 mm
	---	Bite		4	L/2-113 mm
				4	H-200.5 mm
	CT-11	Soleira condensação		1	L
	AX-19	Vareta		1+1	Apro. H+L

Acessórios e Juntas

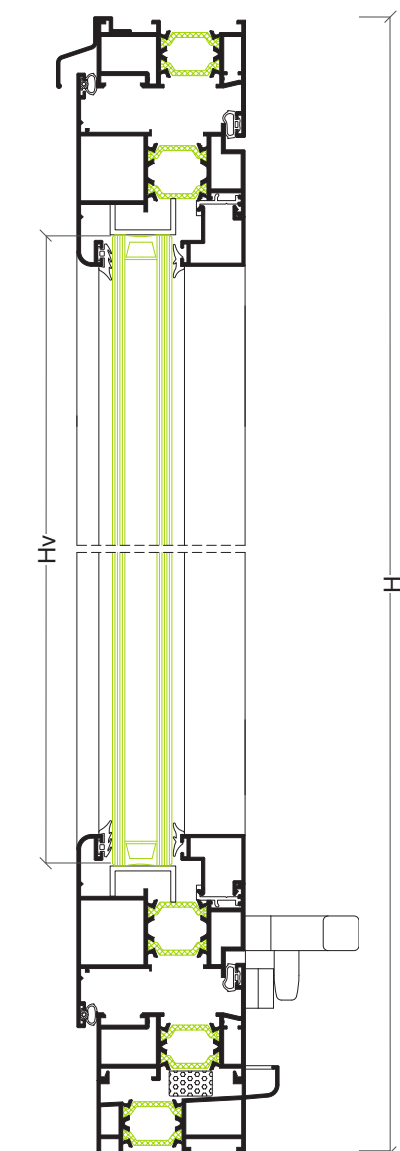
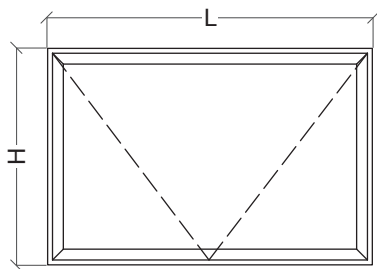
Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	4	---
30 92 01 00	Goteiras	4	4
30 92 01 20	Jogo fecho C.E.	1	---
30 92 02 XX	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 24	Kit 2ª folha oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 96 00 04	Esquadro janela	12	12
30 96 00 48	Esquadro alinhamento aro fixo	8	8
30 96 00 08	Jogo topos inversor	1	1
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	8	8
30 96 00 22	Esquadro alinhamento móvel	8	8
30 96 00 45	Esquadro alinhamento exterior móvel	4	4
30 96 00 35	Canto vulcanizado	4	4
30 92 04 70	Espuma isolante	L	
30 96 00 02	Junta exterior	2L+4H	
30 96 00 03	Junta central	2L+3H	
30 93 01 20	Junta interior	2L+4H	
---	Junta exterior vidro	2L+2H	
---	Junta interior vidro	2L+2H	

Vidro

Hv = H-174 mm	Lv = L/2-127 mm
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Janela projectante deslizante



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-03	Aro fixo		2	L
				2	H-28.5 mm
	ARi-07	Aro móvel abertura projectante deslizante		2	L-43 mm
				2	H-71.5 mm
	---	Bite		4	L-159 mm
				4	H-227.5 mm
	AXi-45	Pingadeira superior		1	L
	AXi-32	Complemento abertura projectante		2	segundo medida compasso
	ARi-29	Apoio bite		2	L-140 mm
				2	H-168.5 mm
	CT-11	Soleira condensação		1	L

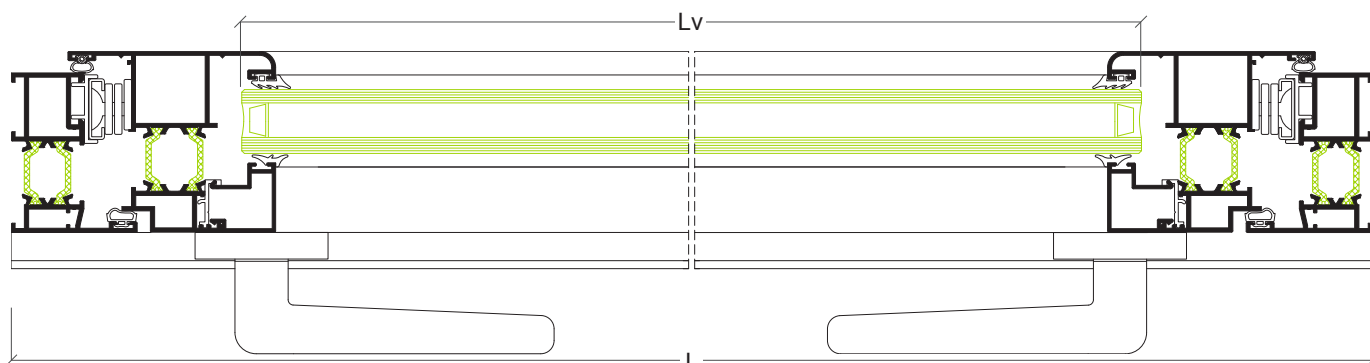
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 01 00	Goteiras	2
30 92 04 10	Esquadro janela	4
30 92 04 90	Jogo compasso projectante deslizante 550	1
30 92 06 10	Cremona de lingueta	2
30 92 04 10	Esquadro janela abertura exterior	4
30 96 00 12	Jogo topos condensação	1
30 96 00 48	Esquadro alinhamento aro fixo	4
30 96 00 42	Esquadro alinhamento interno móvel	4
30 92 04 70	Espuma isolante	L
30 93 01 20	Junta exterior	2L+2H
30 96 00 18	Junta interior projectante deslizante	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

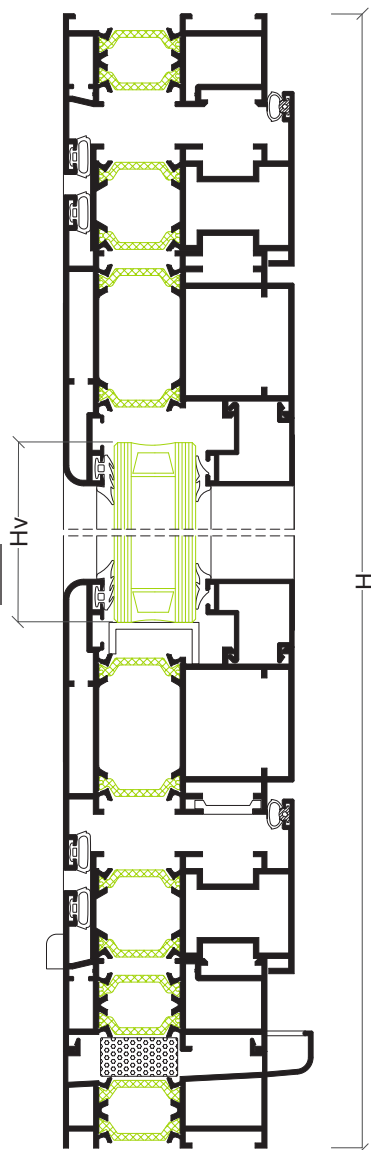
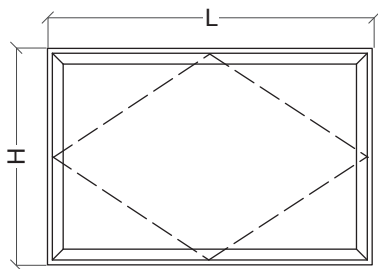
85

Vidro

Hv = H-201 mm	Lv = L-173 mm
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Janela pivotante horizontal



Perfis

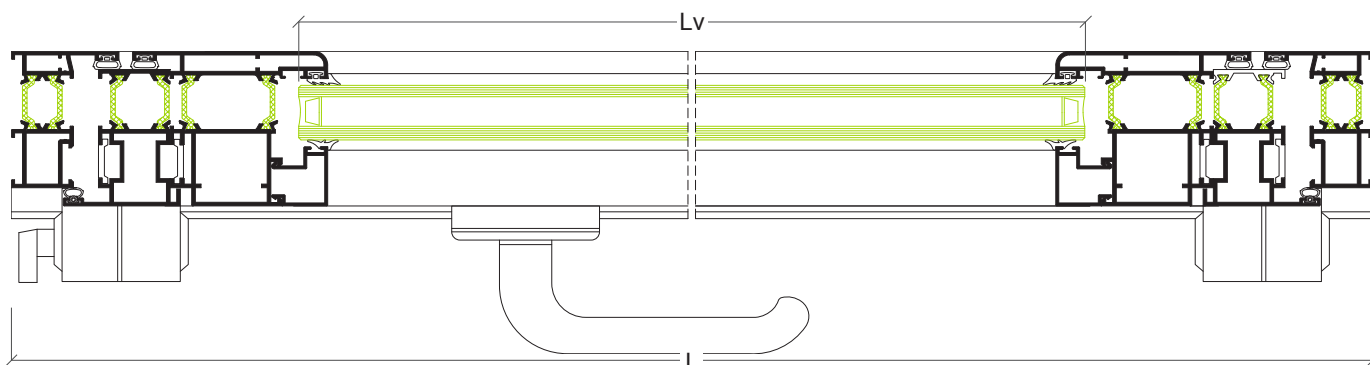
Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-03	Aro fixo		2	L
				2	H-28.5 mm
	ARi-25	Aro móvel abertura exterior		2	L-107 mm
				2	H-135.5 mm
	ARi-14	Inversor pivotante superior		1	L-46 mm
				2	H/2-23 mm
	ARi-14	Inversor pivotante inferior		1	L-46 mm
				2	H/2-51.5 mm
	---	Bite		2	L-239 mm
				2	H-307.5 mm
	CT-11	Soleira condensação		1	L
	AX-19	Vareta		1+1	L+H
				1+1	L+H

Acessórios e Juntas

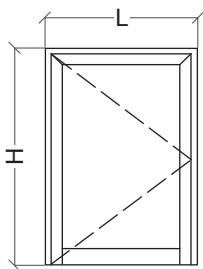
Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 94 50 10	Esquadro inversor	4
30 96 00 04	Esquadro janela	4
30 96 00 05	Esquadro móvel	4
30 96 00 48	Esquadro alinhamento exterior janela	4
30 96 00 12	Jogo topos condensação	1
30 92 07 13	Jogo pivotante horizontal	1
30 92 07 16	Fecho perimetral pivotante	1
30 96 00 15	Esquadro alinhamento móvel	4
30 96 00 49	Esquadro alinhamento móvel	4
30 91 41 48	Cremones	1
30 92 04 70	Espuma isolante	L
30 96 00 18	Junta exterior	4L+4H
30 93 01 20	Junta interior	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-281 mm	Lv = L-253 mm
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Porta 1 folha



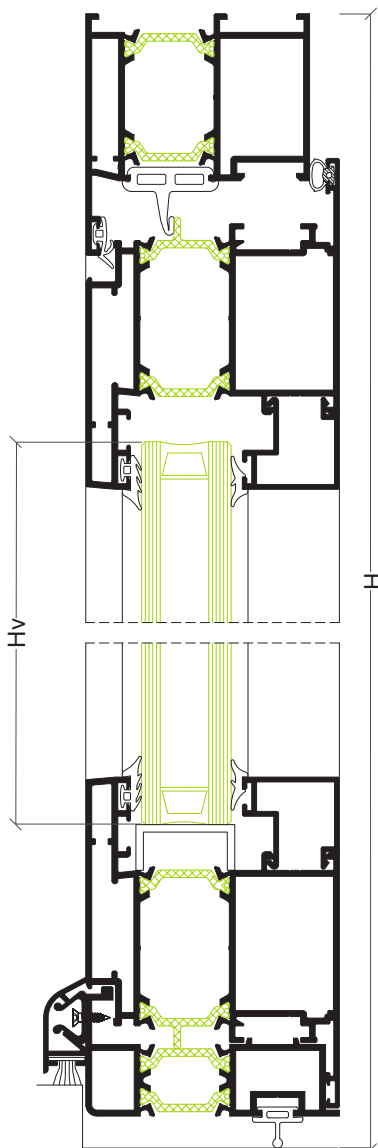
Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ARI-08	Aro fixo		1	L
				2	H
	ARI-36	Aro móvel		2	L-78 mm
				2	H-46 mm
	ARI-23	Almofada		1	L-147 mm
	---	Bite		4	L-216 mm
				4	H-226 mm
	AZ-60	Pingadeira		1	L-148 mm

Acessórios e Juntas

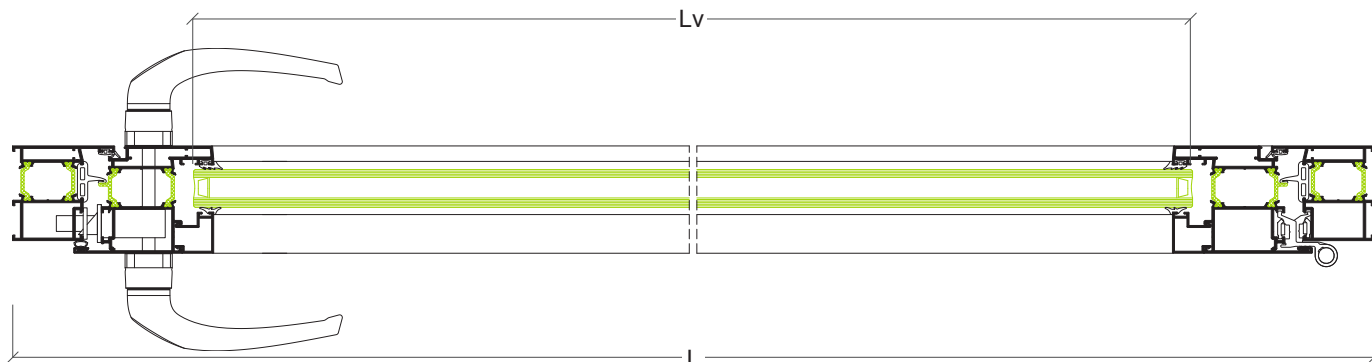
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	3
30 92 01 35	Esquadro alinhamento móvel	4
30 92 05 10	Fechadura 3 pontos	1
30 92 05 50	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 05	Esquadro aro porta	2
30 96 00 15	Esquadro alinhamento móvel	4
30 96 00 36	Esquadro móvel porta	4
30 96 00 46	Esquadro alinhamento aro móvel porta	4
30 96 00 49	Esquadro alinhamento aro fixo	2
30 96 00 10	Jogo topos ARi-23	1
31 03 40 00	Mola para pingadeira	A cada 200 mm
30 96 00 35	Canto vulcanizado	2
30 92 05 00	Jogo topos AZ-60	1
30 93 00 80	Junta inferior	L
30 96 00 02	Junta exterior	L+2H
30 96 00 03	Junta central	L+2H
30 93 01 20	Junta interior	L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

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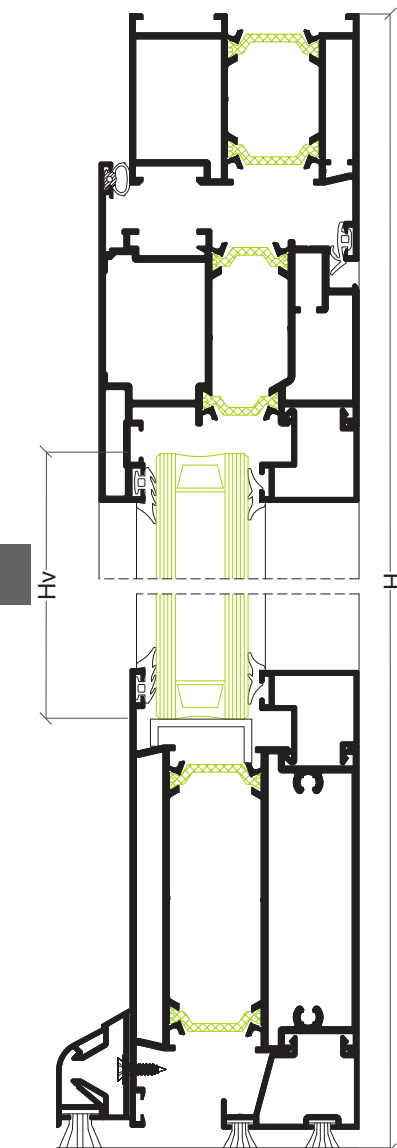
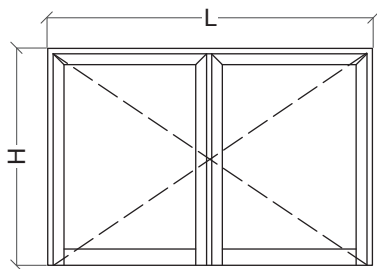


Vidro

Hv = H-200 mm	Lv = L-230 mm
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Porta 2 folhas abertura exterior



Perfis

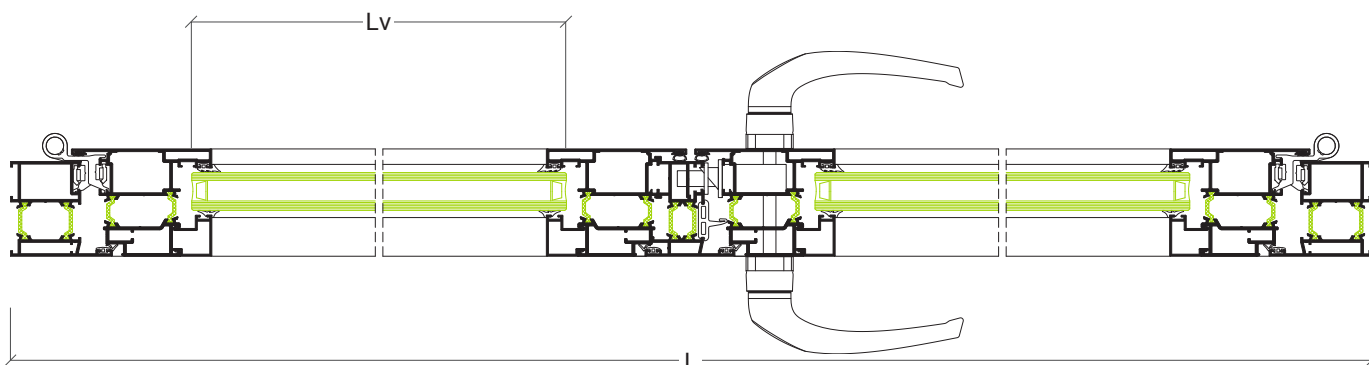
Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-08	Aro fixo		1	L
				2	H
	ARi-72	Aro móvel abertura exterior		2	L/2-41.5 mm
				4	H-44 mm
	ARi-04	Inversor		1	H-78 mm
	ARi-12	Travessa		1	L/2-169.5 mm
	AX-15	Bite remate		2	L/2-160.5 mm
	---	Bite		4	L/2-179 mm
				4	H-253 mm
	AZ-60	Pingadeira		1	L/2-112.5 mm
				1	L/2-43 mm
	AZ-61	Suplemento para pingadeira		2	L/2-219.5 mm

Acessórios e Juntas

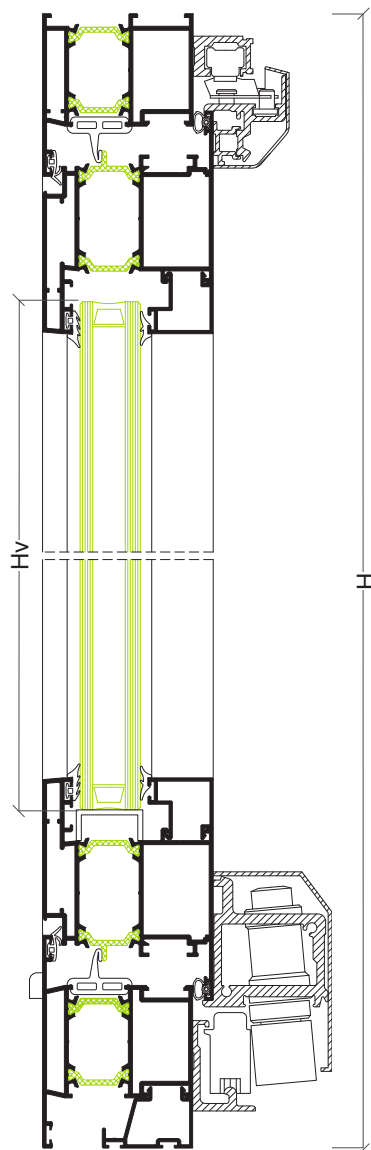
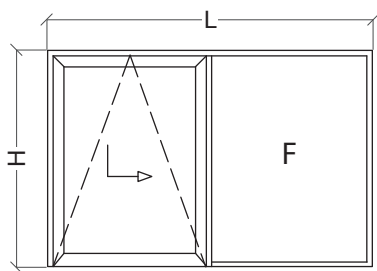
Referência	Descrição	Quantidade
30 92 01 20	Jogo fecho C.E.	1
30 92 05 10	Fechadura 3 pontos	1
30 92 05 50	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 05	Esquadro porta	2
30 96 00 08	Jogo topos inversor	1
30 92 00 20	Dobradiça C.E.	6
30 95 00 10	Pelúcia 7x9 mm	2L
30 95 05 00	Jogo topos AZ-60	1
30 92 03 90	Esquadro móvel exterior	4
30 92 01 35	Esquadro alinhamento móvel	4
30 96 00 15	Esquadro alinhamento móvel exterior	4
30 96 00 45	Esquadro móvel interior	4
30 96 00 49	Esquadro móvel exterior	2
30 93 01 20	Junta exterior	2L
30 96 00 02	Junta interior	L+4H
---	Junta exterior vidro	2L+4H
---	Junta interior vidro	2L+4H

Vidro

Hv = H-228 mm	Lv = L/2-194 mm
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Porta oscilo-paralela com fixo lateral



Perfis

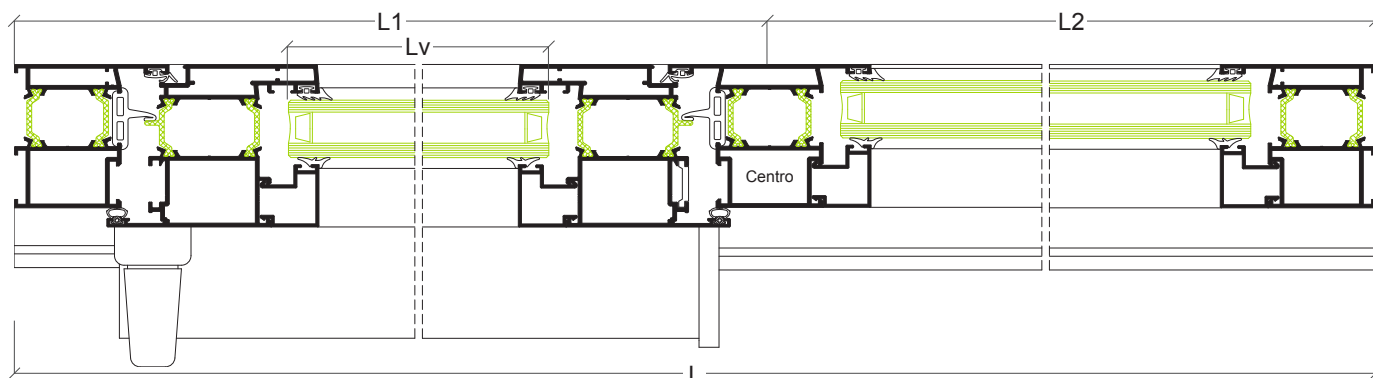
Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-08	Aro fixo		1	L
				2	H
	ARi-06	Travessa		1	L-80.5 mm
				1	H-100.5 mm
	ARi-36	Aro móvel		2	L1-55.5 mm
				4	H-98 mm
	---	Bite (folha)		2	L1-193 mm
				2	H-275.5 mm
	---	Bite (fixo)		2	L2-67.5 mm
				2	H-150 mm
	AX-15	Bite remate		1	L-90 mm
	AX-19	Vareta		1+1	Aprox. L+H

Acessórios e Juntas

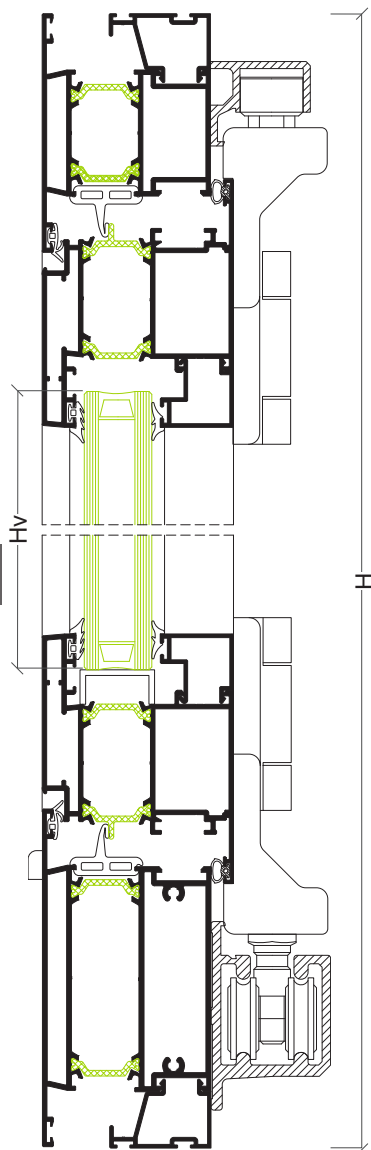
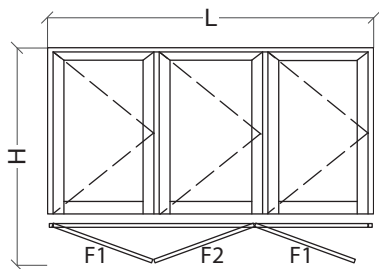
Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 01 35	Esquadro alinhamento móvel	4
30 92 01 50	União topos porta	4
30 96 00 05	Esquadro aro fixo	2
30 96 00 15	Esquadro alinhamento móvel	4
30 96 00 36	Esquadro aro móvel	4
30 96 00 46	Esquadro alinhamento exterior aro móvel	4
30 96 00 49	Esquadro alinhamento aro fixo	2
---	Kit oscilo-paralela	1
30 96 00 35	Canto vulcanizado	4
30 96 00 02	Junta exterior	2L1+2H
30 96 00 03	Junta central	2L1+2H
30 93 01 20	Junta interior	2L1+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv folha = H-249 mm	Lv folha = L1-206 mm	
Hv fixo = H-124 mm	Lv fixo = L2-81 mm	
	Mínimo	Máximo
Largura da folha	700 mm	1650 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 150 kg		



Porta 3 folhas harmónio



Perfis

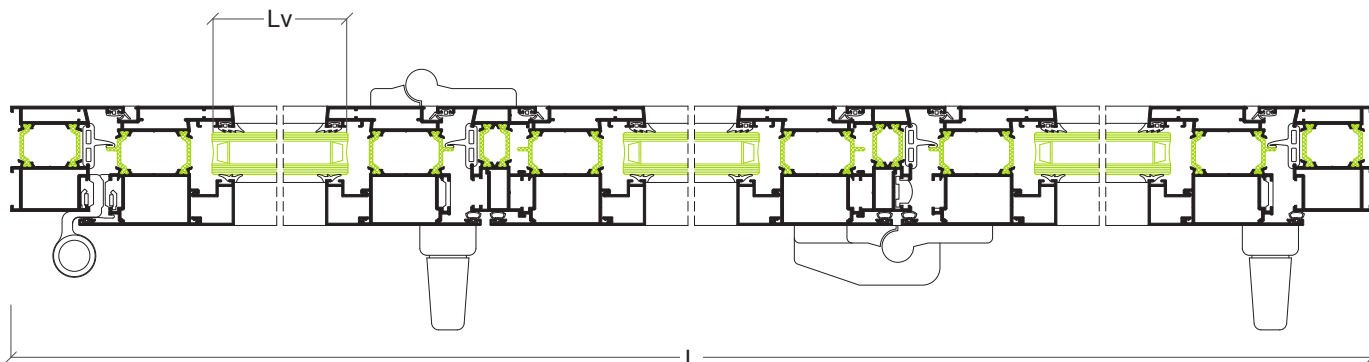
Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-08	Aro fixo		2	H
	ARi-06	Travessa		1	L-80.5 mm
	ARi-12	Travessa		1	L-80.5 mm
	ARi-36	Aro móvel		6	consultar
				6	consultar
	ARi-04	Inversor		2	consultar
	---	Bite (folha)		6	consultar
				6	consultar
	AX-15	Bite remate		2	L-90 mm
	AX-19	Vareta		2	2H

Acessórios e Juntas

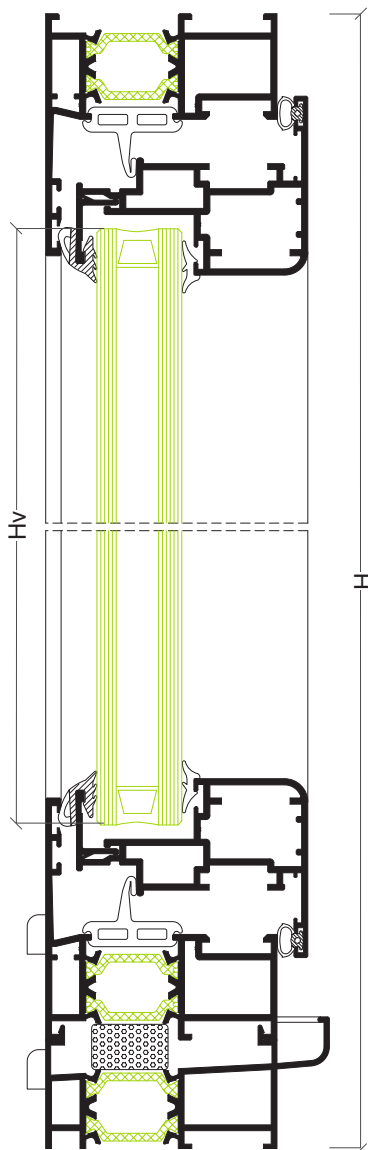
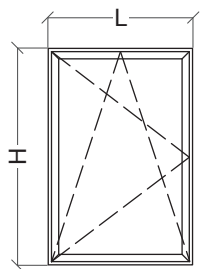
Referência	Descrição	Quantidade
30 92 01 00	Goteiras	6
30 92 01 35	Esquadro alinhamento aro móvel	12
30 96 00 08	Jogo topos inversor	2
30 96 00 15	Esquadro alinhamento aro móvel	12
30 96 00 36	Esquadro aro móvel porta	12
30 96 00 46	Esquadro alinhamento exterior aro porta	12
---	Kit harmónio (3+0)	1
30 92 01 50	União topo porta	2
30 92 01 20	Jogo fecho C.E.	1
30 96 00 35	Canto vulcanizado	4
30 96 00 02	Junta exterior	2L+6H
30 96 00 03	Junta central	2L+4H
30 93 01 20	Junta interior	2L+6H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = consultar	Lv Folha 1 = consultar	
	Lv Folha 2 = consultar	
	Mínimo	Máximo
Largura da folha	600 mm	900 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 80 kg		



Janela 1 folha abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-43	Aro fixo folha oculta		2	L
				2	H-28.5 mm
	ARi-45	Aro móvel folha oculta		2	L-43 mm
				2	H-71.5 mm
	ARi-47	Bite folha oculta		2	L-94 mm
				2	H-122.5 mm
	CT-11	Soleira condensação		1	L
	AX-19	Vareta		1+1	L+H

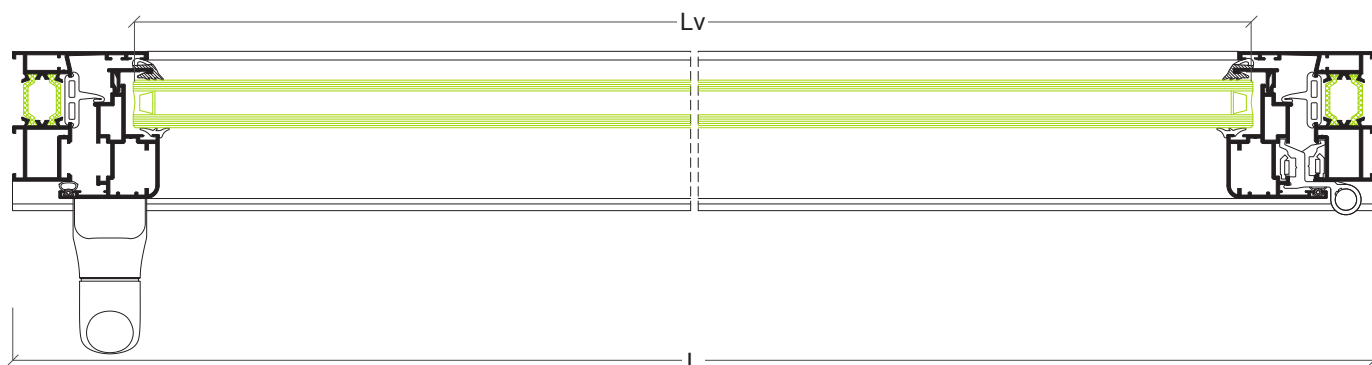
Acessórios e Juntas

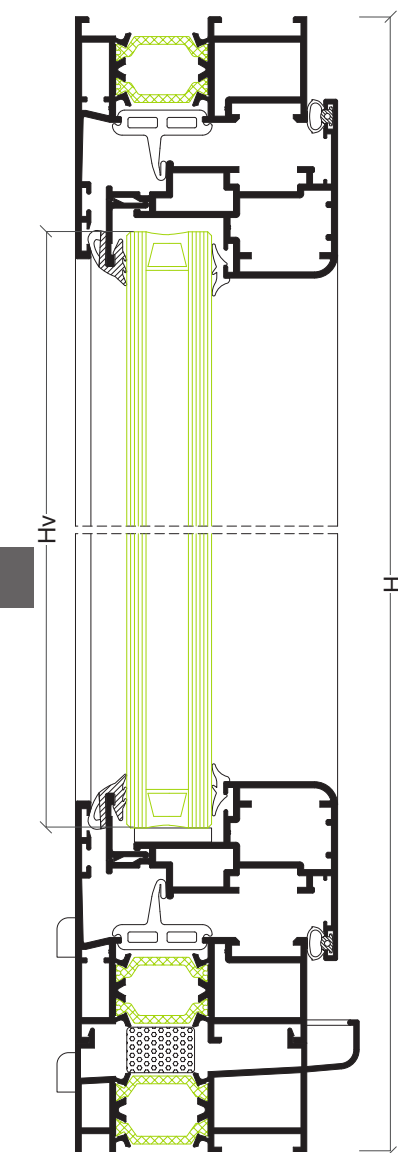
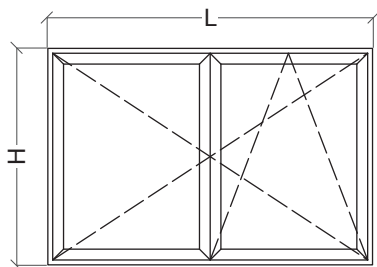
Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	2	---
30 92 01 00	Goteiras	4	4
30 92 02 XX	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 96 00 04	Esquadro janela	8	8
30 96 00 48	Esquadro alinhamento aro fixo	4	4
30 96 00 12	Jogo topos condensação	1	1
30 96 00 23	Esquadro alinhamento aro fixo	4	4
30 96 00 24	Esquadro alinhamento aro móvel	4	4
30 96 00 22	Esquadro alinhamento interior móvel	4	4
30 96 00 35	Canto vulcanizado	4	4
30 92 04 70	Espuma isolante	L	
30 96 00 27	Junta exterior folha oculta	2L+2H	
30 96 00 03	Junta central	2L+2H	
30 93 01 20	Junta interior	2L+2H	
---	Junta interior vidro	2L+2H	

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Vidro

Hv = H-139 mm	Lv = L-110 mm
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Janela 2 folhas abrir e oscilo-batente

Perfis

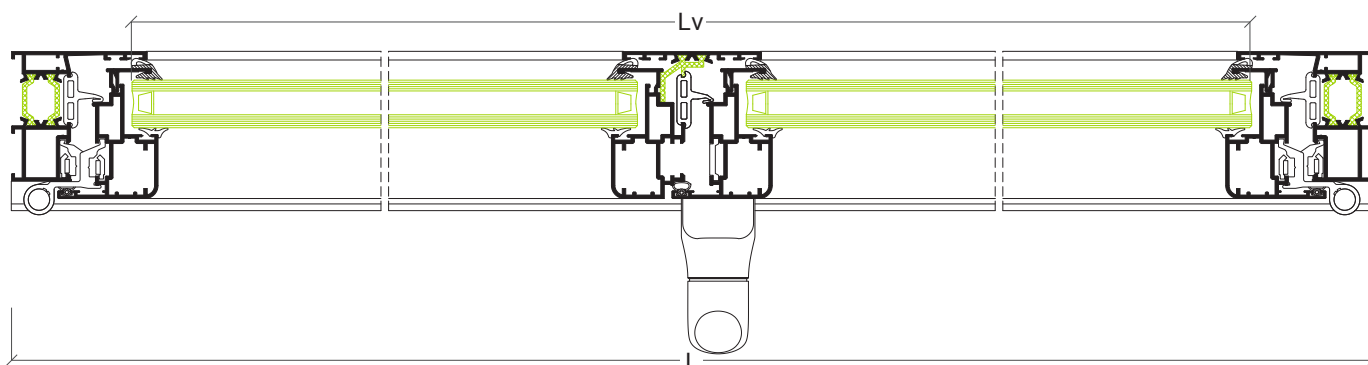
Desenho	Ref	Descrição	Corte	Quant	Medida
	ARi-43	Aro fixo folha oculta		2	L
				2	H-28.5 mm
	ARi-45	Aro móvel folha oculta		4	L/2-12 mm
				3	H-71.5 mm
	ARi-46	Complemento aro móvel inversor		1	H-159.5 mm
	ARi-44	Aro móvel		1	H-95.5 mm
	ARi-47	Bite folha oculta		4	L/2-63.5 mm
				3	H-122.5 mm
	CT-11	Soleira condensação		1	L
	AX-19	Vareta		1+1	L+H

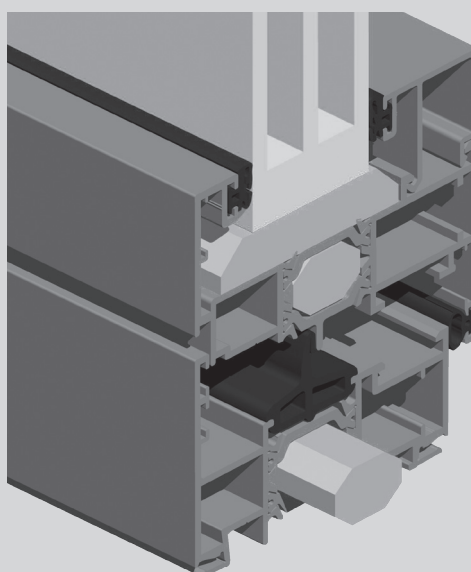
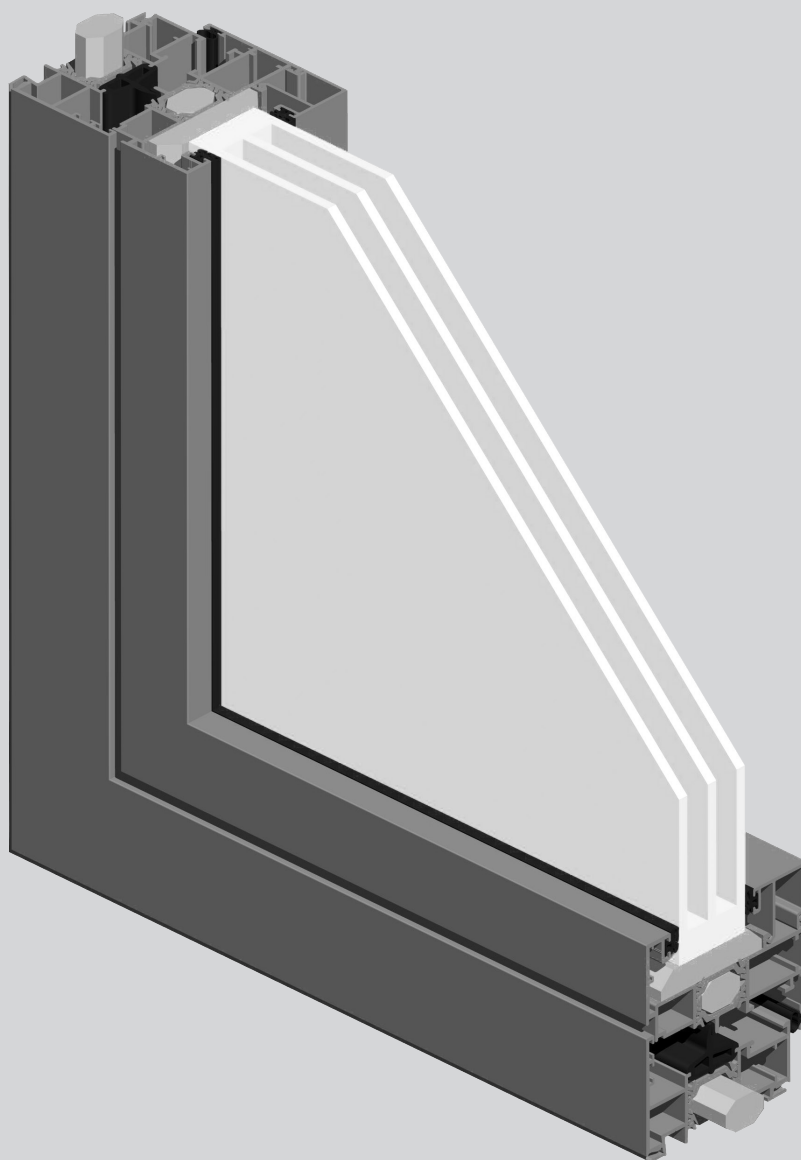
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	4	---
30 92 01 00	Goteiras	4	4
30 92 01 20	Jogo fecho C.E.	1	---
30 92 02 XX	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 24	Kit 2ª folha oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 96 00 04	Esquadro janela	12	12
30 96 00 48	Esquadro alinhamento aro fixo	4	4
30 96 00 12	Jogo topos condensação	1	1
30 96 00 23	Esquadro alinhamento aro fixo	4	4
30 96 00 24	Esquadro alinhamento aro móvel	8	8
30 96 00 22	Esquadro alinhamento interior móvel	4	4
30 96 00 26	Jogo topos inversor	1	1
30 96 00 35	Canto vulcanizado	4	4
30 92 04 70	Espuma isolante	L	
30 96 00 27	Junta exterior folha oculta	2L+4H	
30 96 00 03	Junta central	2L+3H	
30 93 01 20	Junta interior	2L+3H	
---	Junta interior vidro	2L+4H	

Vidro

Hv = H-139 mm	Lv = L/2-79 mm
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Sistema
AJi

Sistema AJi

Sistema de batente com RPT - 70 mm

Características do sistema

Sistema de batente com rotura térmica de elevadas prestações térmicas e acústicas.

O sistema AJi possibilita a execução de 3 versões de caixilharia:

1. Linha recta;
2. Linha curva;
3. Linha oval.

O sistema AJi permite a aplicação de vidros duplos ou triplos de alto rendimento de modo a responder às exigências de isolamento térmico e acústico.

Com um óptimo isolamento térmico aliado à aplicação de um inovador produto designado por bagueete ThermoProfile, o Sistema AJi proporciona elevadas prestações de conforto e de economia energética.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Rotura térmica obtida por inserção de varetas isolantes de poliamida tipo ómega de 24 mm reforçadas com 25% de fibra de vidro. Espessura média dos perfis de alumínio de 1.7 mm.

Aros fixos

Secção dos aros fixos de 70 mm com tripla câmara;

Perfis com rotura térmica com varetas de poliamida tipo ómega de 24 mm;

Aros fixos com duplo esquadro de aperto rápido e esquadros de alinhamento para montagem a meia esquadria;

Travessas com dupla união para um aperto mais eficaz;

Aros fixos tradicionais para o mercado interno;

Aros fixos com clip exterior e aba de remate directa de 25 mm ou 45 mm para o mercado francês;

Aro fixo com clip exterior e interior para aplicação de remate de 30, 50 ou 80 mm para o mercado francês;

Aro fixo de ligação ao sistema de correr com rotura térmica CW.

Aros móveis

Secção dos aros móveis de 78 mm com tripla câmara;

Aros móveis com rotura térmica através de varetas de poliamidas tipo ómega de 24 mm;

Aros móveis com duplo esquadro de aperto rápido e esquadros de alinhamento para montagem a meia esquadria;

Perfil inversor com olhal para uma melhor aplicação do topo inversor.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 340 mm - 1700 mm (L); 340 mm - 3000 mm (H);

Peso máximo para janelas ou portas de sacada com oscilo-batente até 170 Kg;

Peso máximo para portas de entrada até 160 Kg/folha;

Possibilidades de abertura: fixo, batente interior 1 ou 2 folhas com ou sem oscilo-batente, batente exterior, basculante, projectante, hármonio e oscilo-paralela;

Solução de perfil para portas pedonais ou de sacada de abertura interior ou exterior segundo norma PMR (pessoas com mobilidade reduzida);

Enchimento para vidro duplo ou triplo desde 20 mm até 55 mm;

Estanquidade assegurada através de juntas duplas em EPDM (interior e central).

Performances

Sistema certificado por laboratório notificado para Ensaios Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema AJi:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E900 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

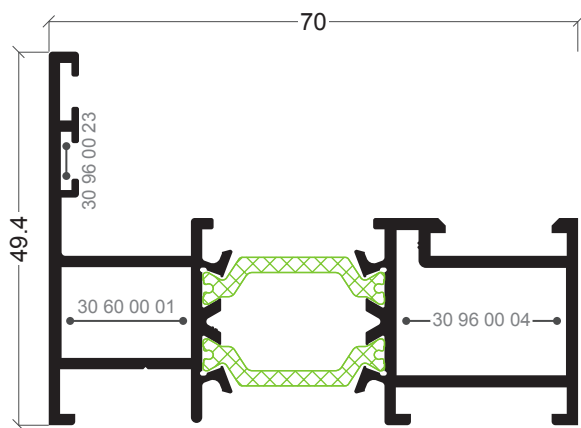
Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 1.50 m com vidro $U_g = 0.5 \text{ W/m}^2\text{K}$ com intercalar efeito "Warm Edge":

• $U_w = 1.26 \text{ W/m}^2\text{K}$

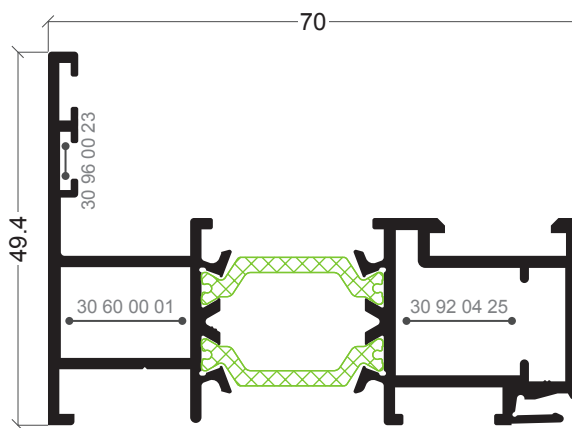
Coefficiente de atenuação acústica de vão de 2 folhas:

• $R_w (C ; C_{tr}) = 42 \text{ dB} (-1 ; -4)$

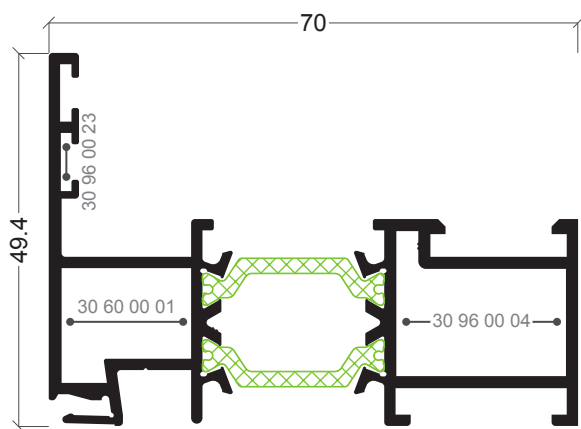
Zonas de aplicação segundo RCCTE (em função do valor U_g) : I1, I2, I3, V1, V2, V3



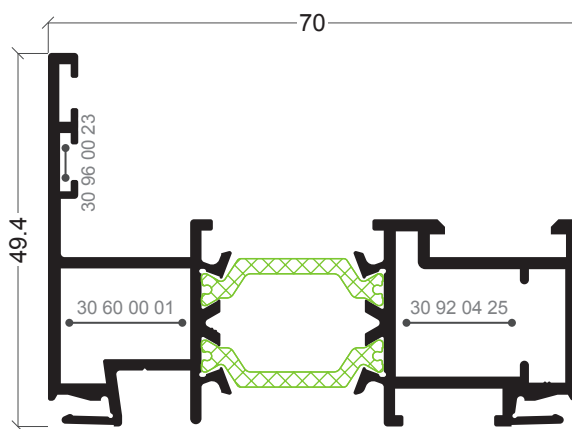
AJi-03
Aro fixo



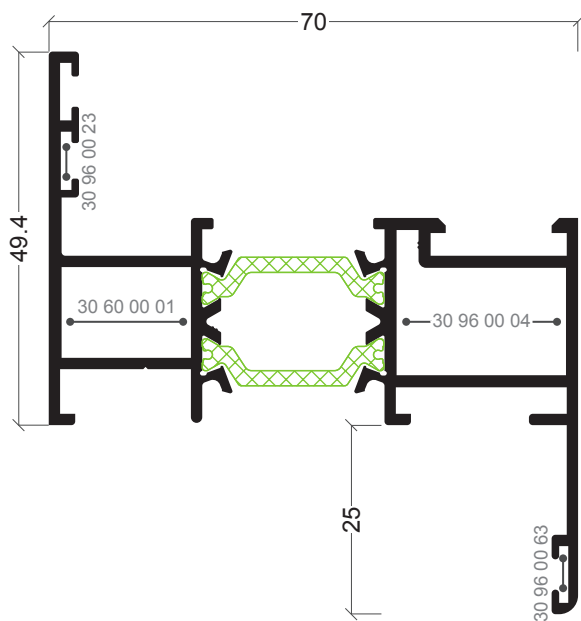
AJi-91
Aro fixo



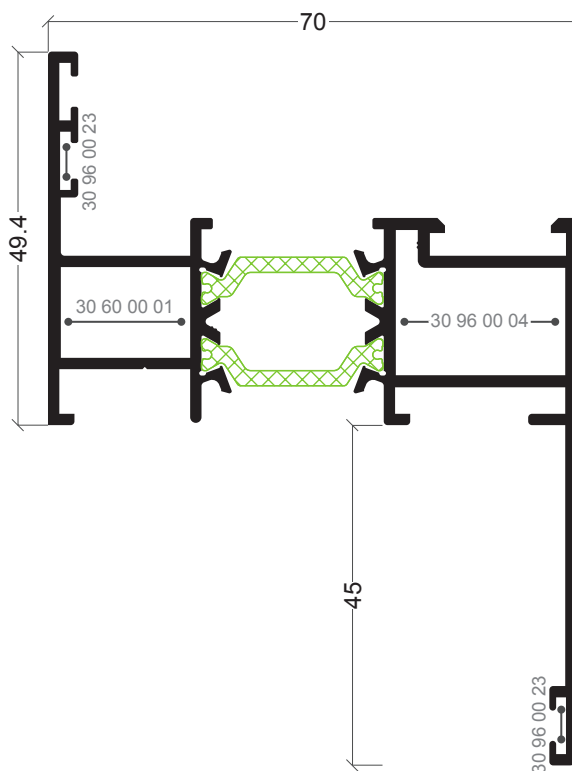
AJi-76
Aro fixo



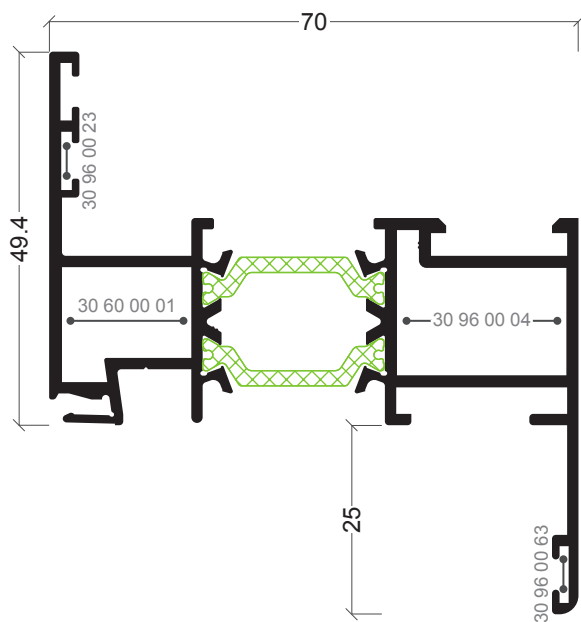
AJi-80
Aro fixo



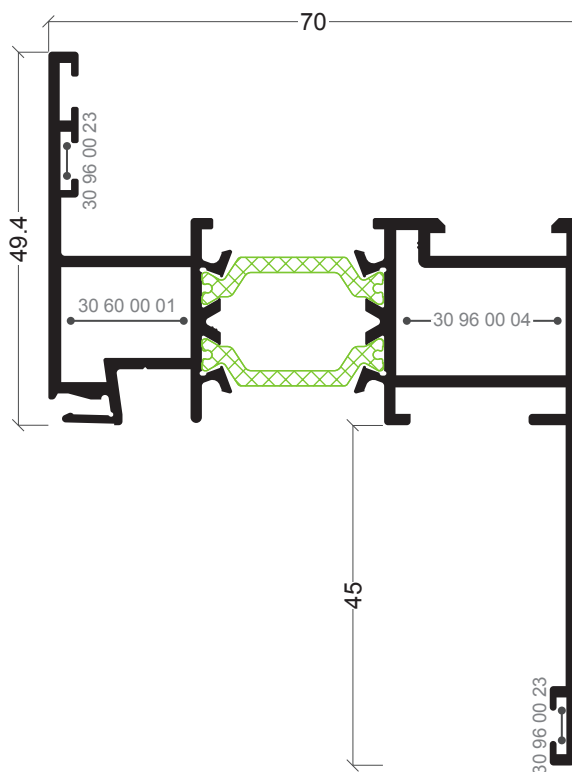
AJi-35
Aro fixo com remate 25 mm



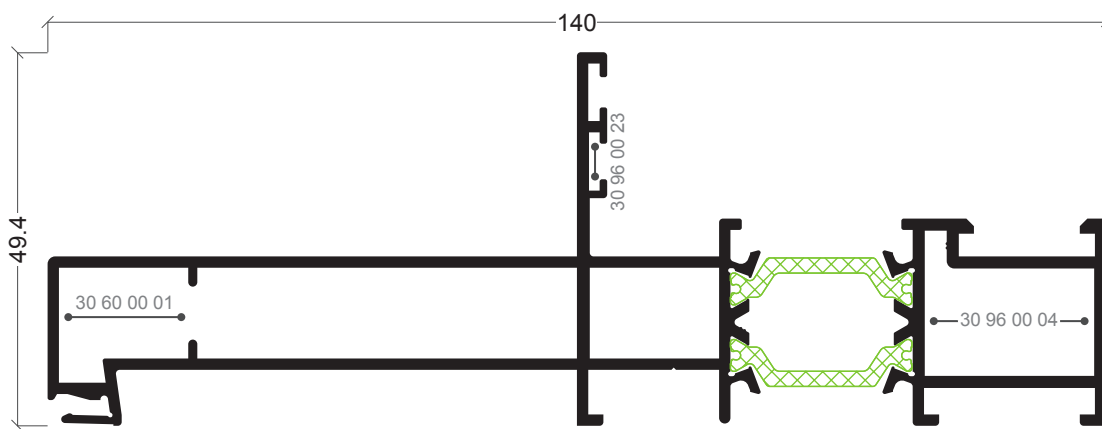
AJi-33
Aro fixo com remate 45 mm



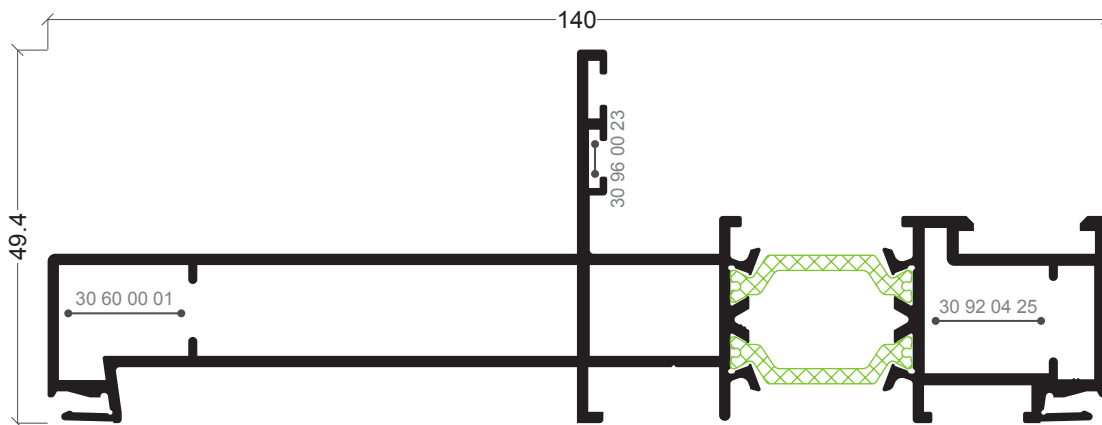
AJi-74
Aro fixo com remate 25 mm



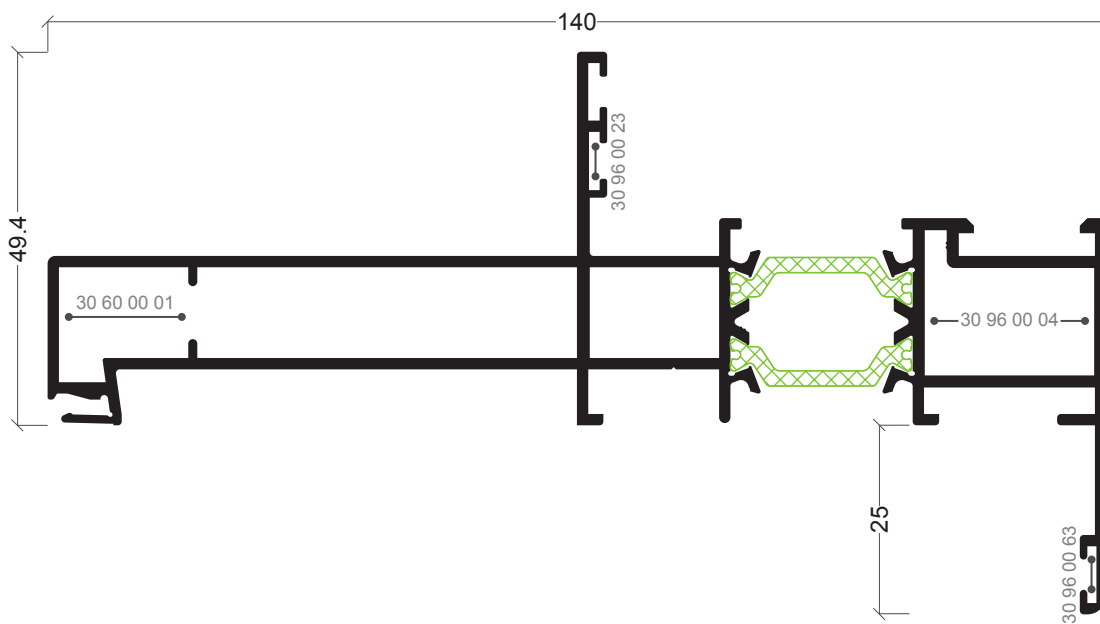
AJi-75
Aro fixo com remate 45 mm



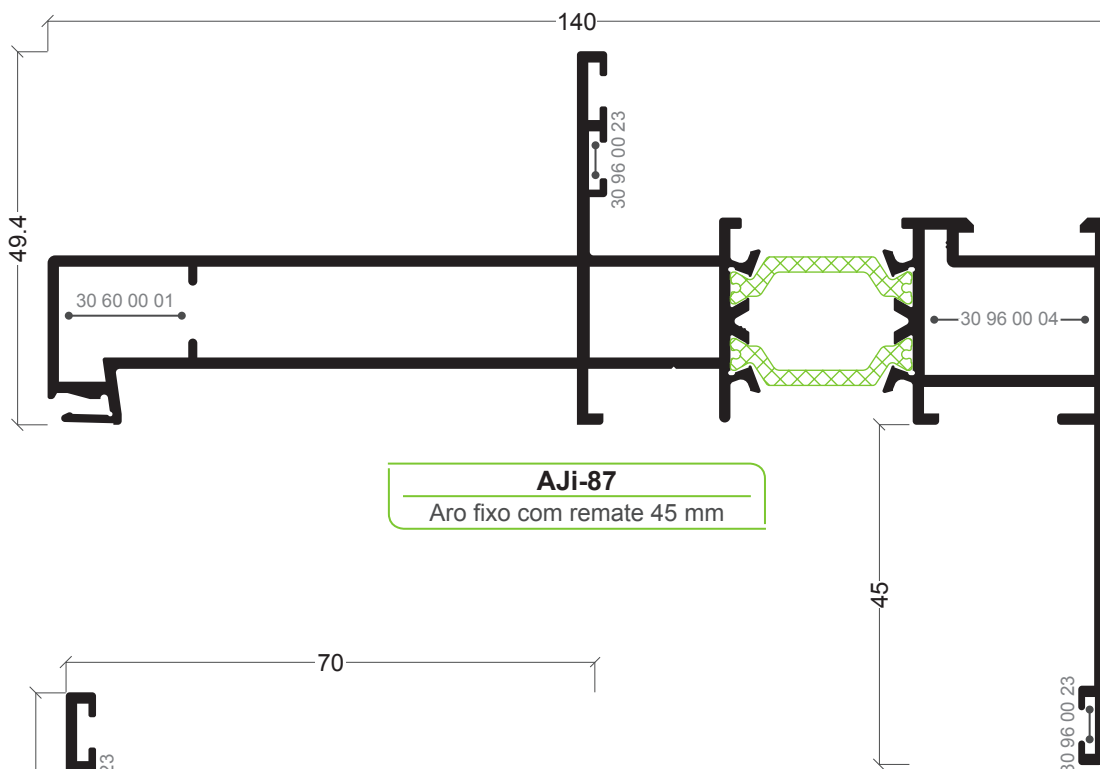
AJi-89
Aro fixo



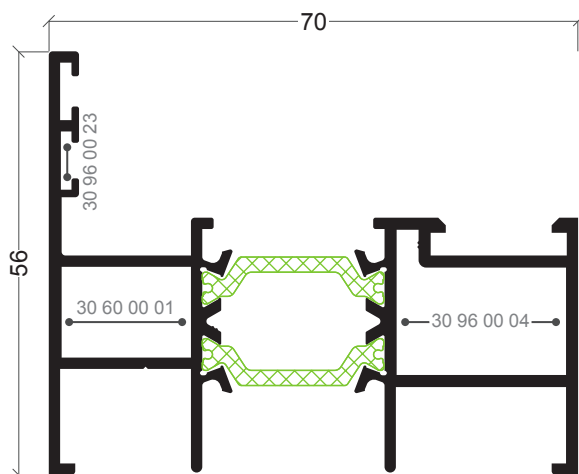
AJi-88
Aro fixo



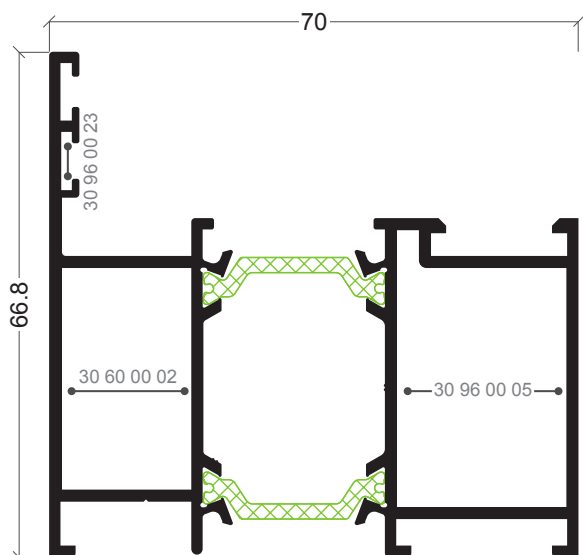
AJi-86
Aro fixo com remate 25 mm



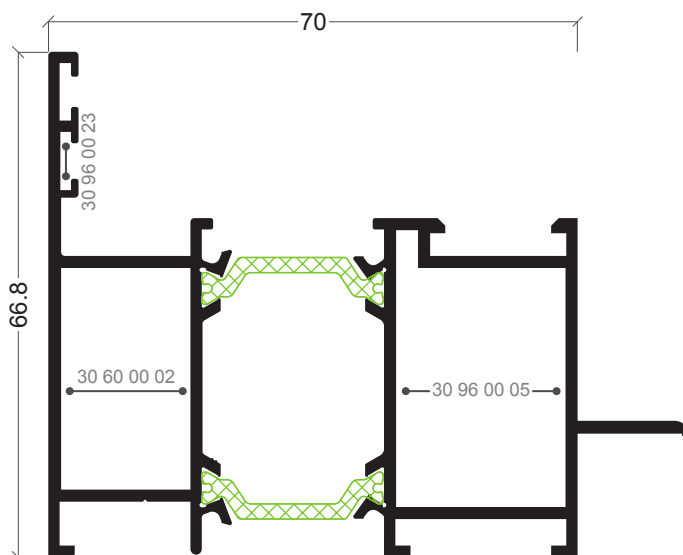
AJi-87
Aro fixo com remate 45 mm



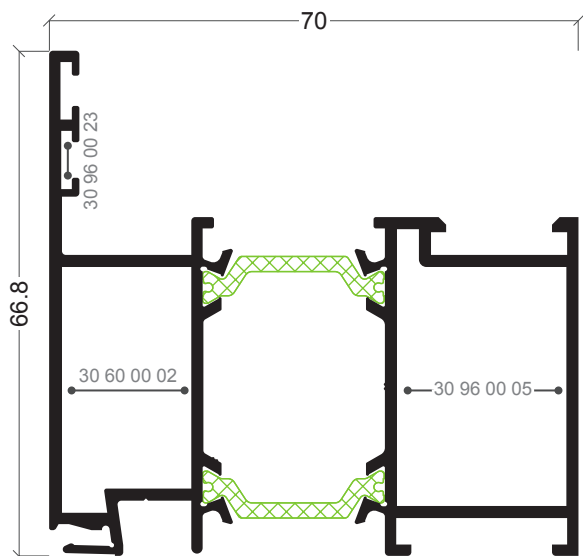
AJi-81
Aro fixo



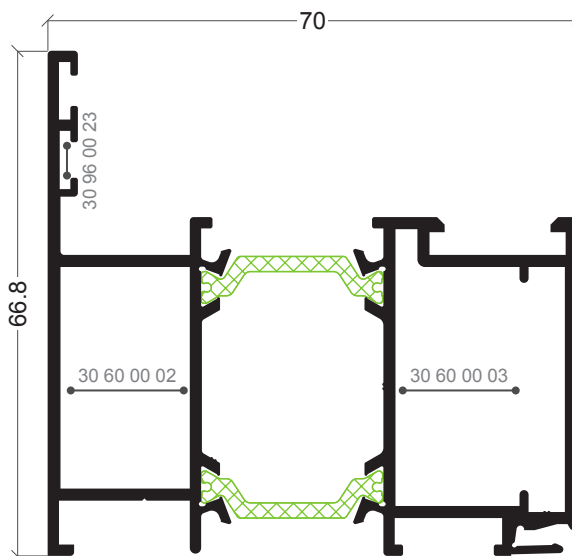
AJi-08
Aro fixo



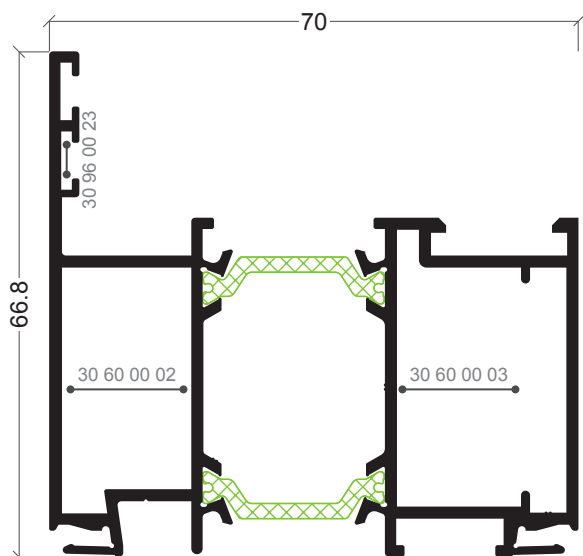
AJi-68
Aro fixo



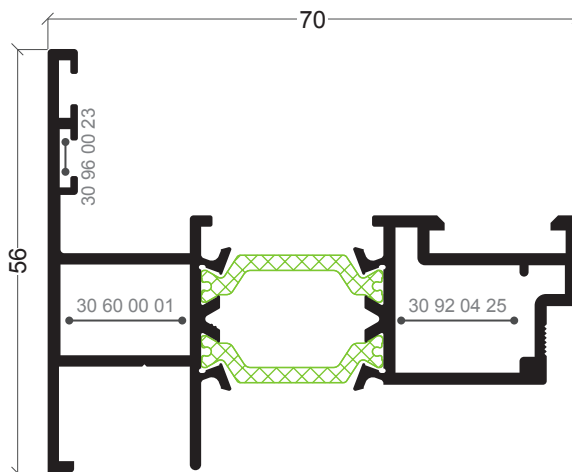
AJi-92
Aro fixo



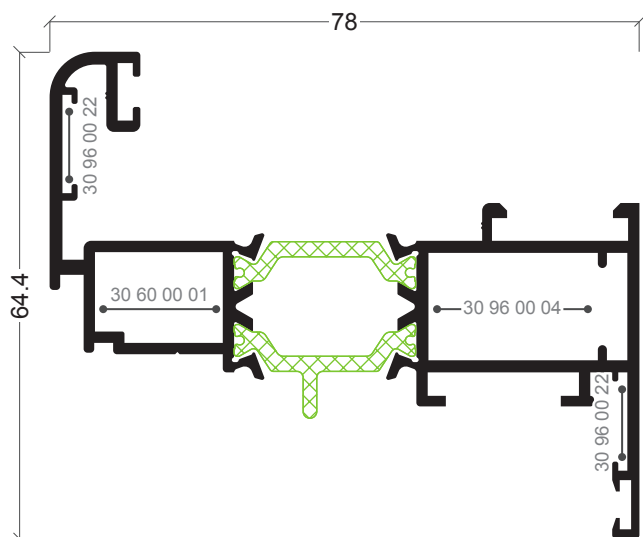
AJi-93
Aro fixo



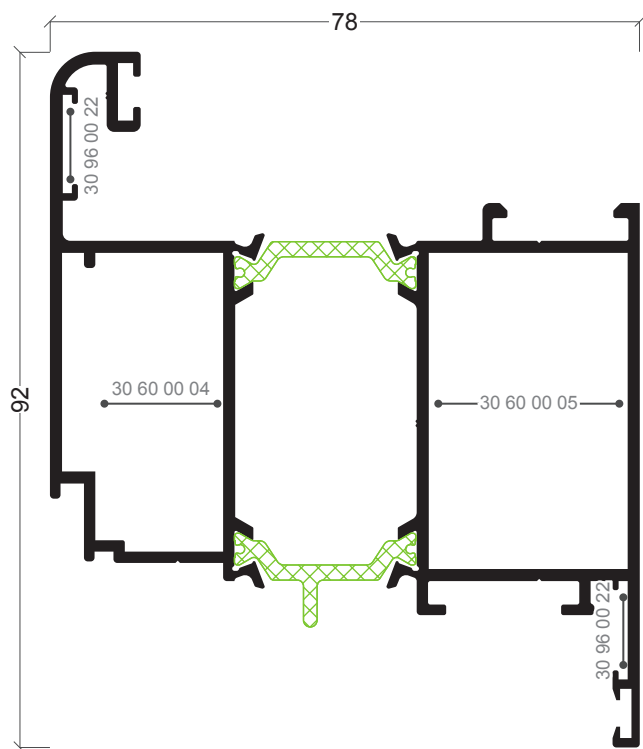
AJi-94
Aro fixo



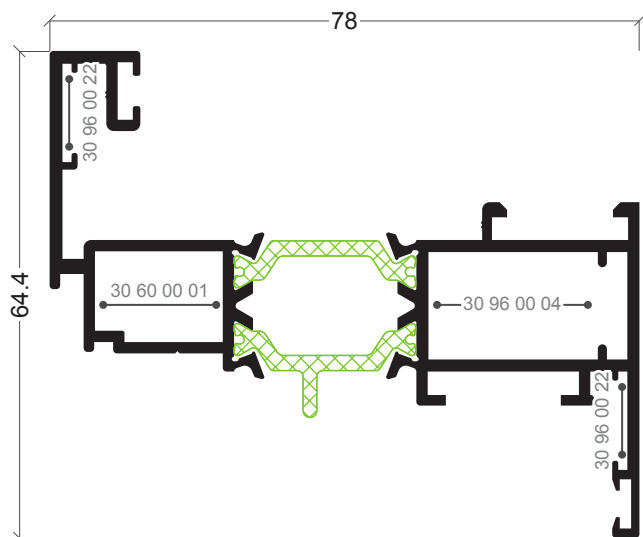
AJi-73
Inversor de sentido de abertura



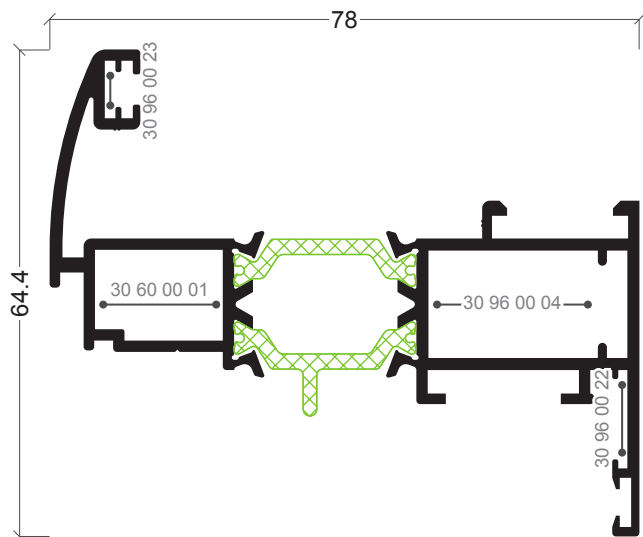
AJi-05
Aro móvil



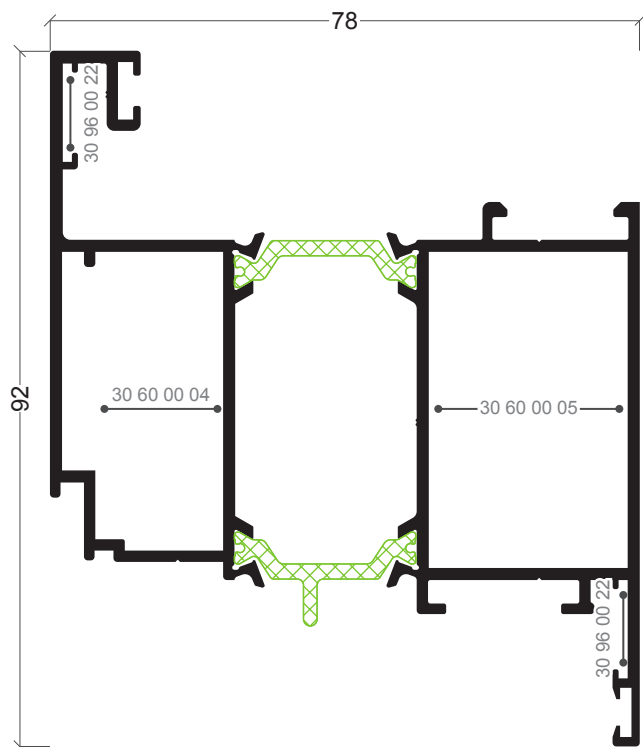
AJi-10
Aro móvil



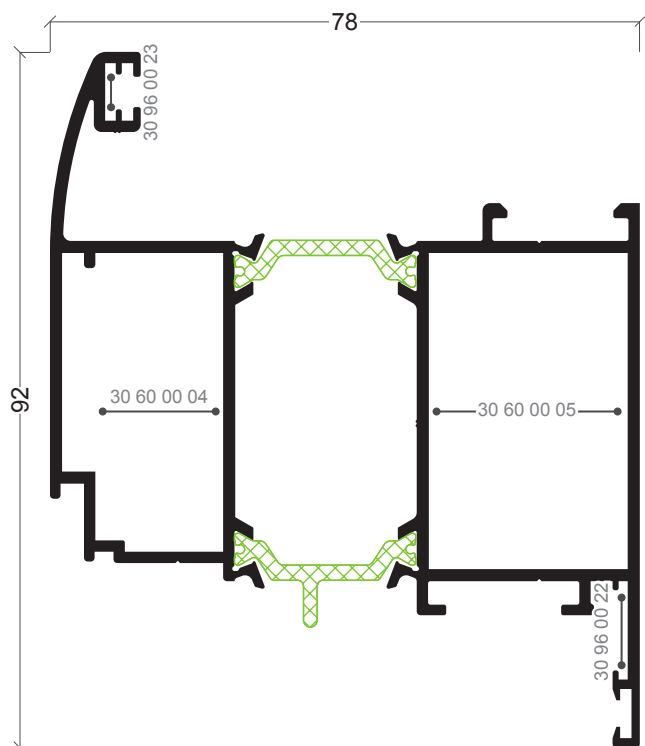
AJi-61
Aro móvil



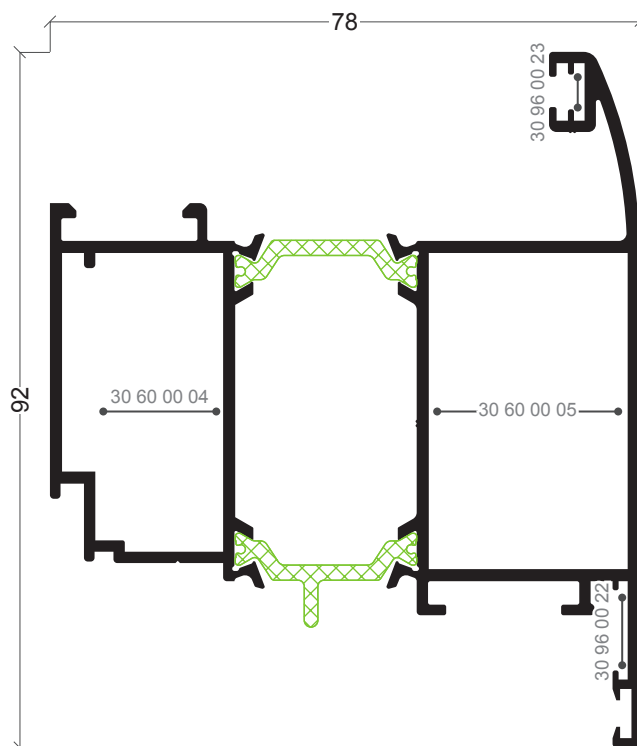
AJi-83
Aro móvil



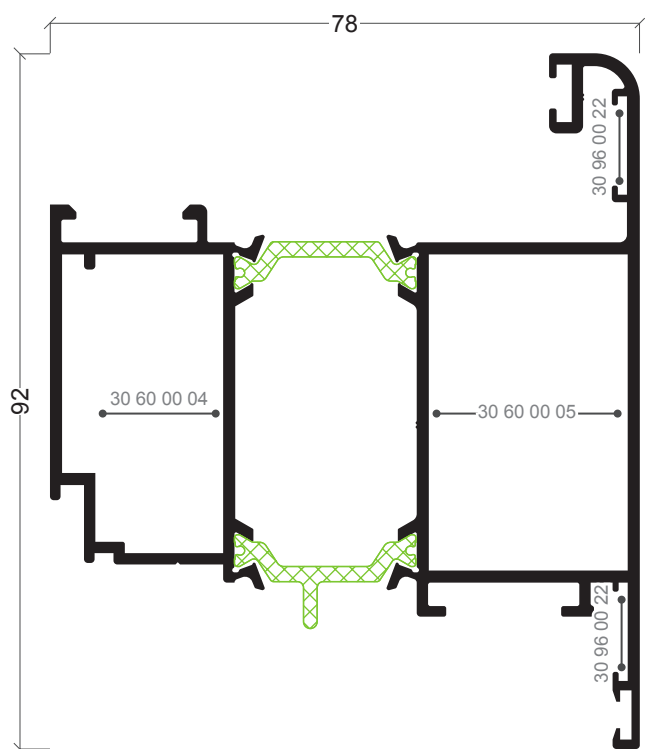
AJi-36
Aro móvil



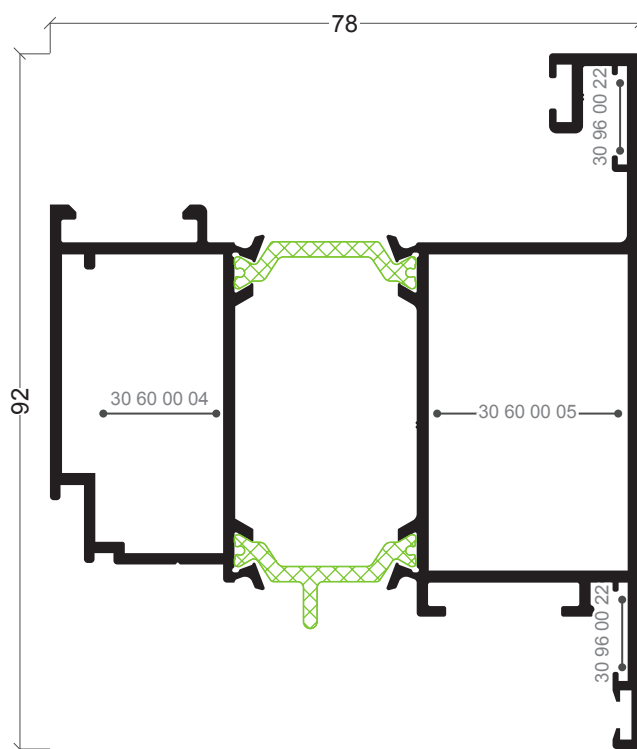
Aji-84
Aro móvel



Aji-85
Aro móvel

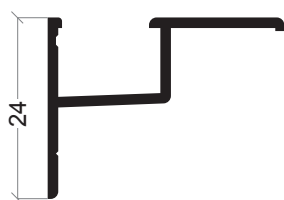


Aji-90
Aro móvel

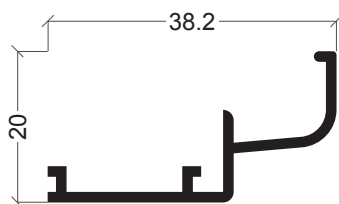


Aji-72
Aro móvel

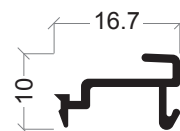
100



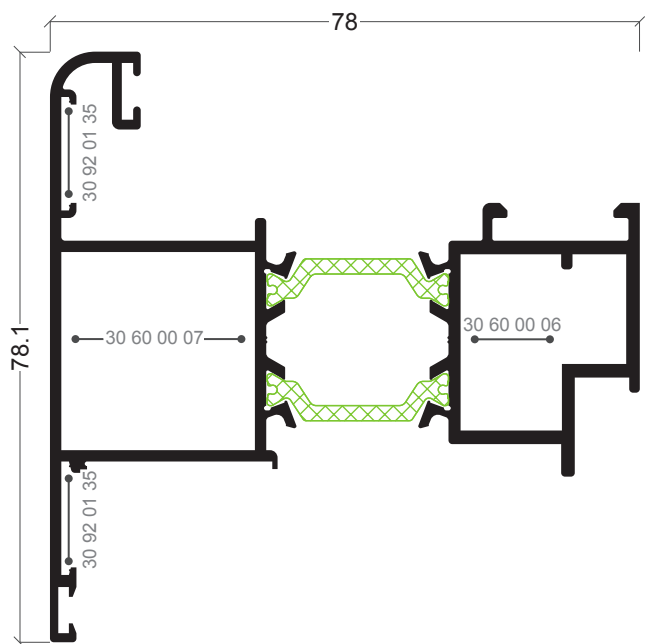
Y-20
Recolha de águas condensação



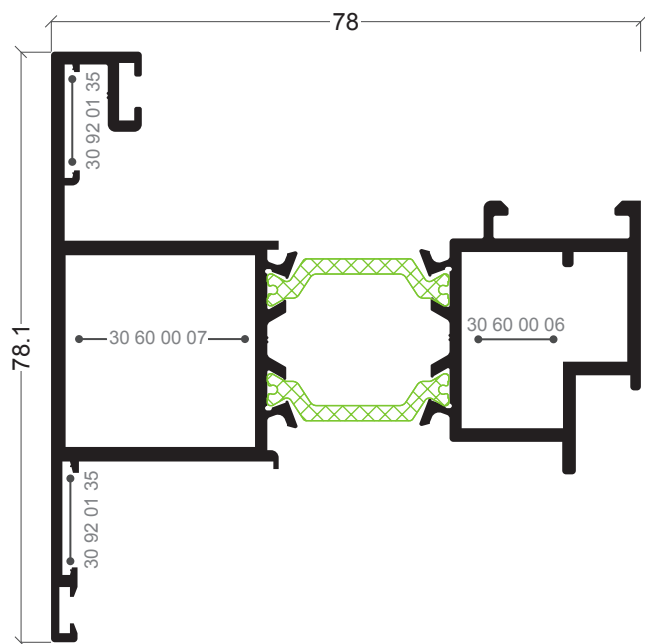
ARi-32
Complemento condensação



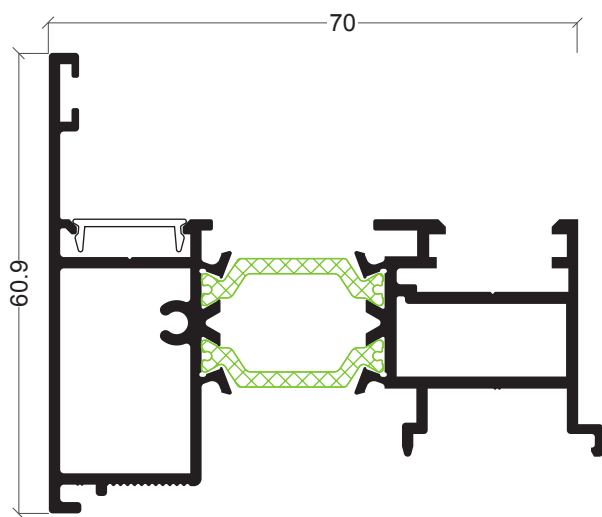
AX-33
Mola Bite



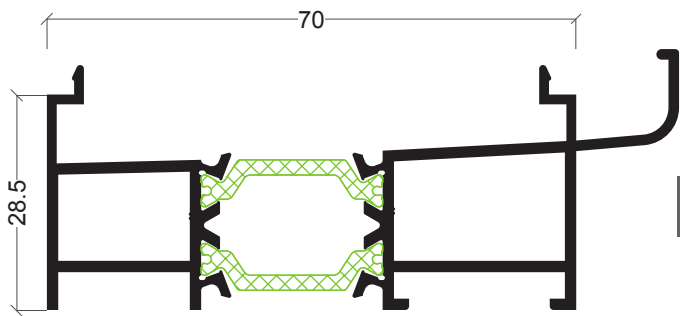
AJi-07
Aro móvel projectante



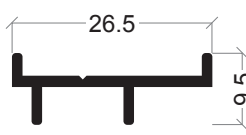
AJi-95
Aro móvel projectante



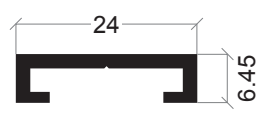
AJi-04
Inversor



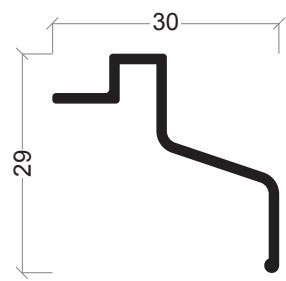
AJi-71
Soleira condensação



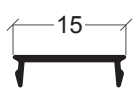
AXi-32
Complemento projectante



AXi-31
Guia projectante



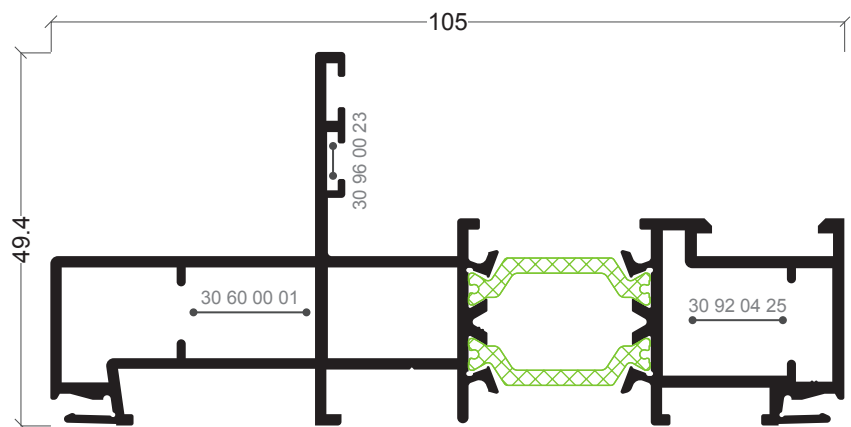
AXi-45
Pingadeira projectante



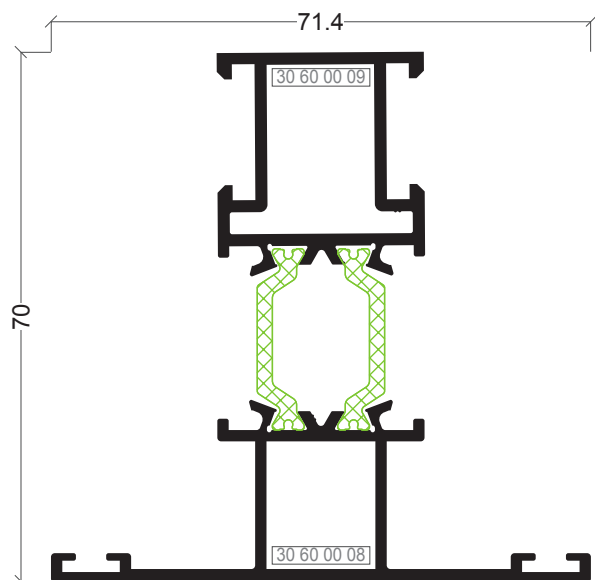
KL-04
Tampa



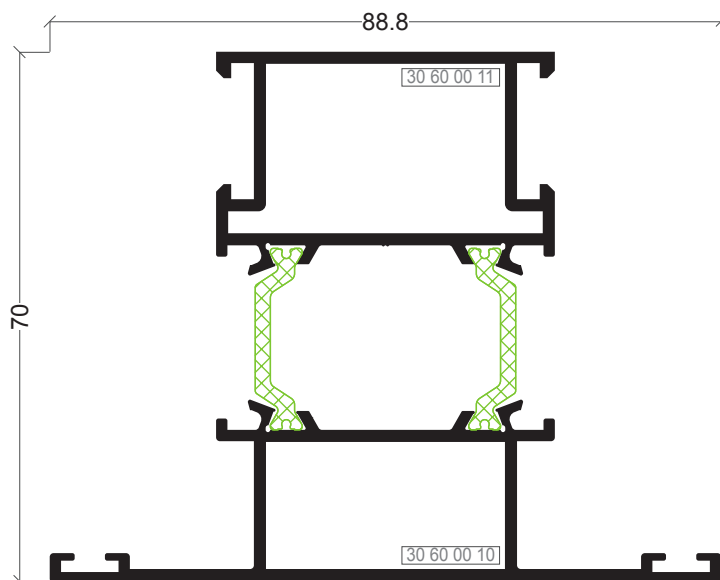
AX-19
Vareta



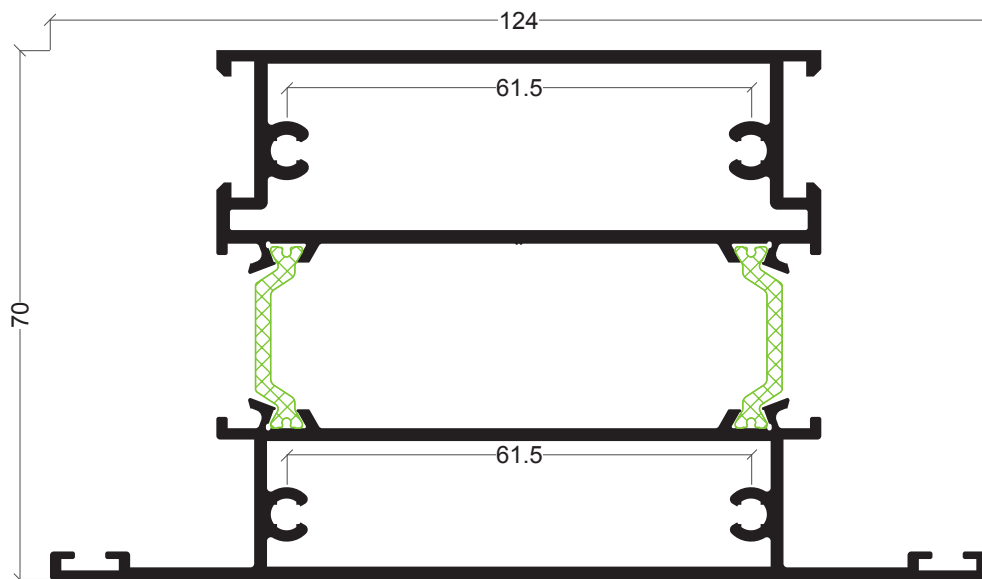
AJi-20
Perfil ligação CW



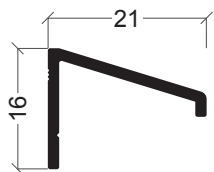
AJi-01
Travessa



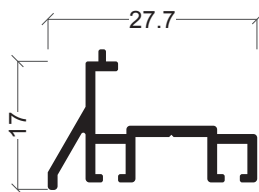
AJi-06
Travessa



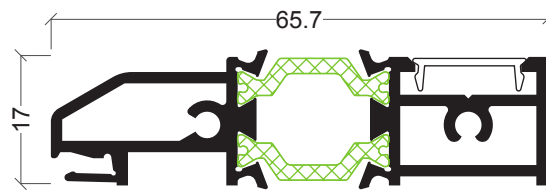
AJi-12
Travessa



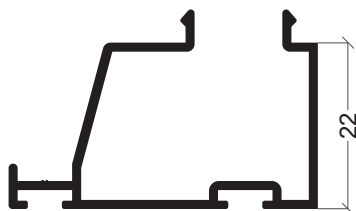
A1-46
Pingadeira janela



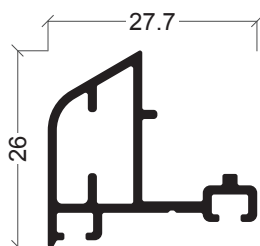
AJi-62
Pingadeira inferior porta sacada



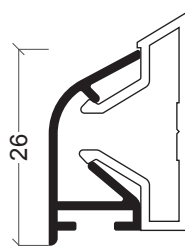
AJi-63
Remate inferior porta



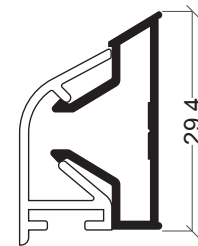
AJi-82
Bite remate



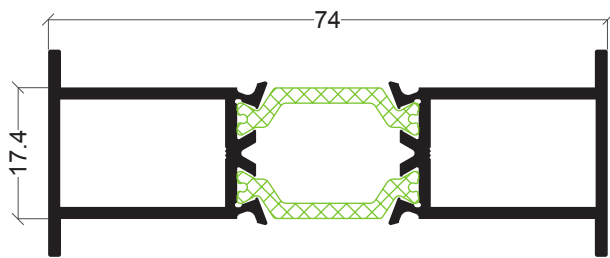
AZ-79
Pingadeira inferior de porta



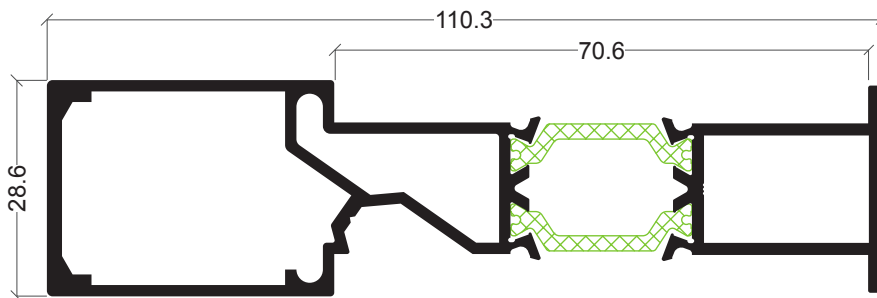
AZ-60
Pingadeira



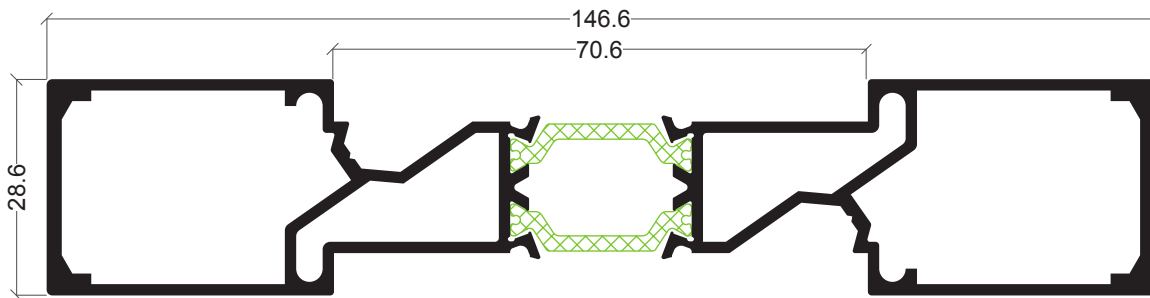
AZ-61
Clip pingadeira



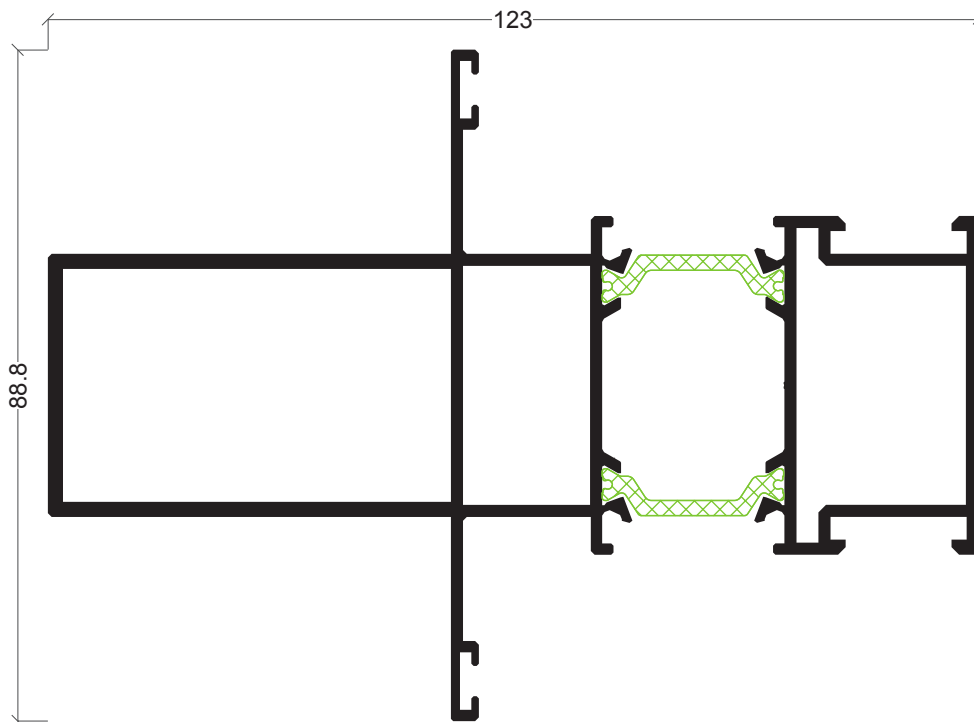
AJi-21
União de aros



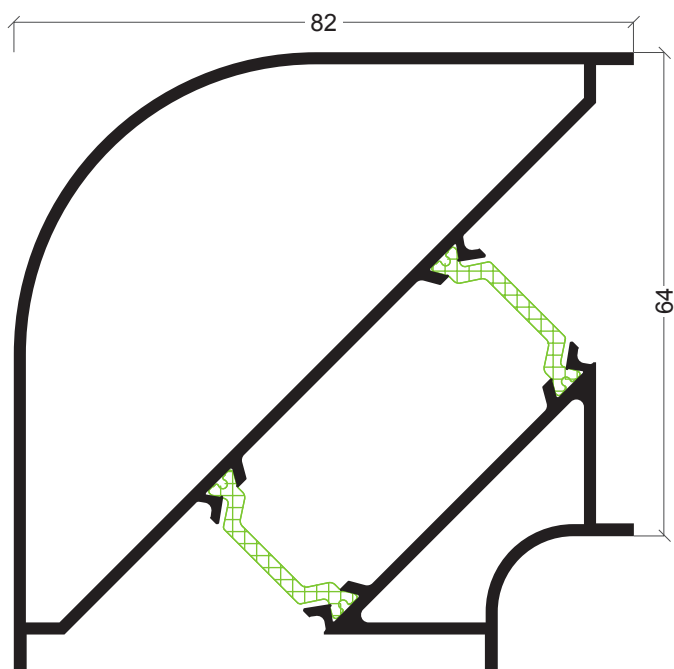
AJi-65
União de aros



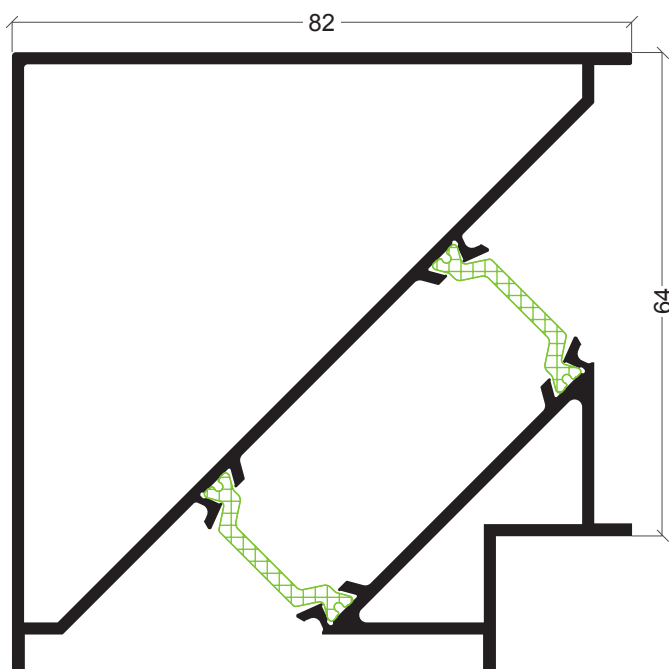
AJi-67
União de aros



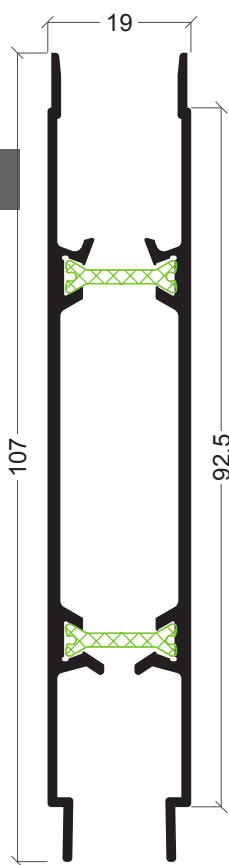
AJi-79
Montante recto



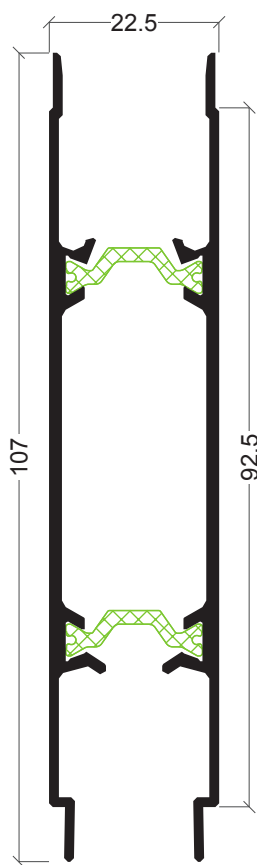
ARI-16
Esquina 90°



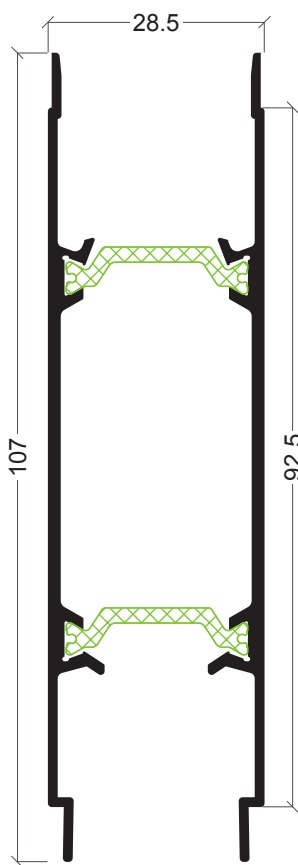
ARI-64
Esquina 90°



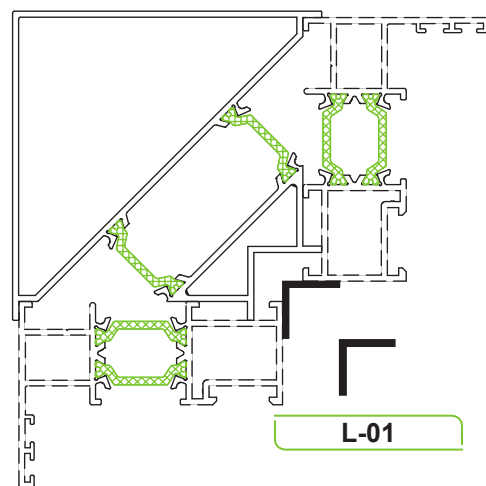
W-15



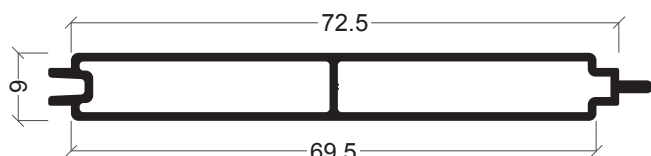
W-18



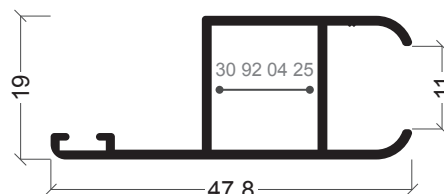
W-20



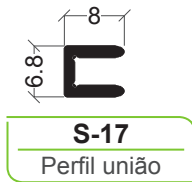
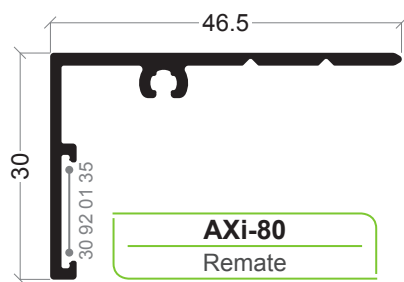
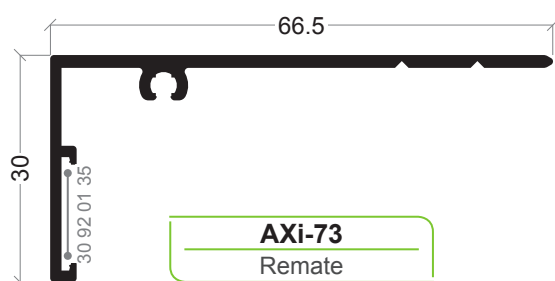
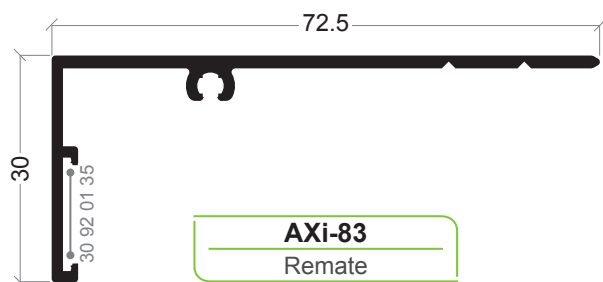
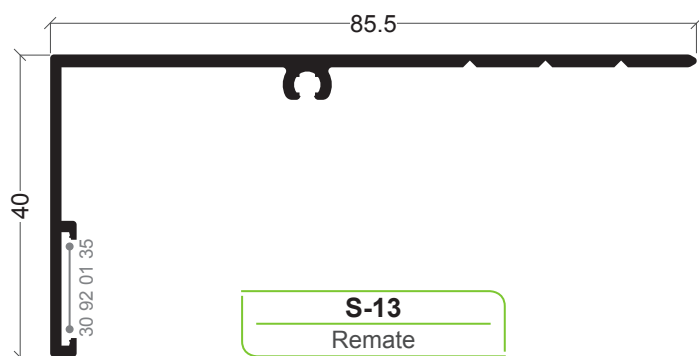
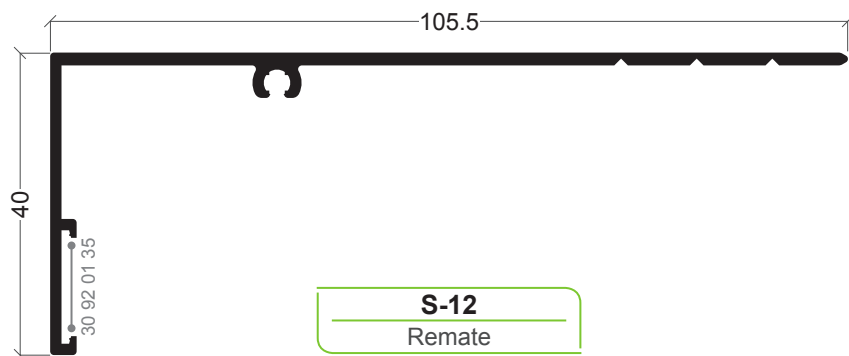
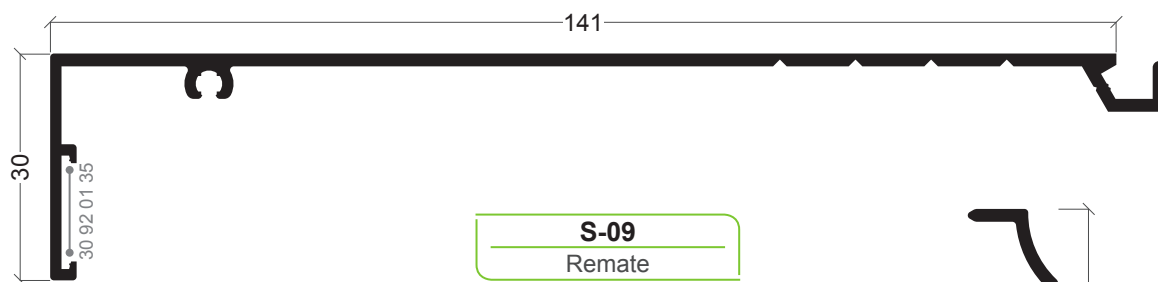
L-01



W-23
Régua tapa-luz

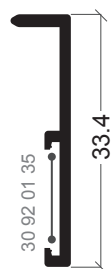


AZ-22
Tapa-luz



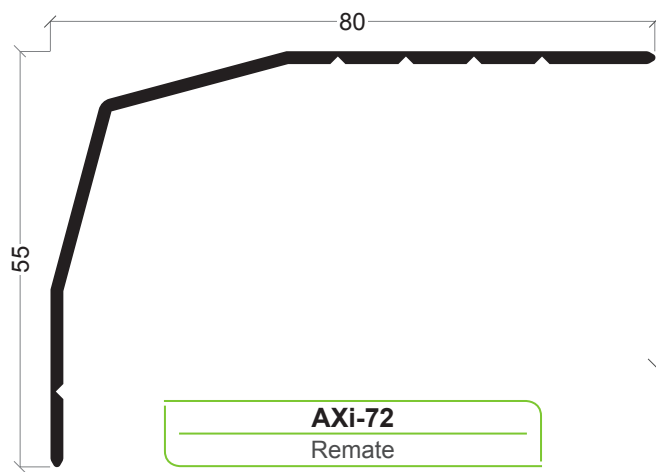
S-18
Remate

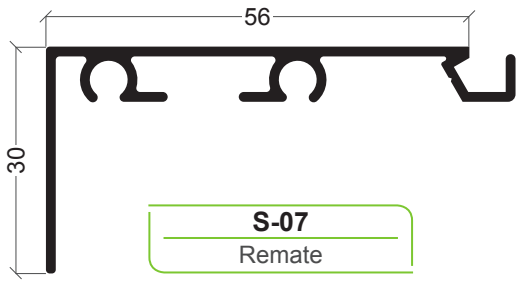
S-14
Remate



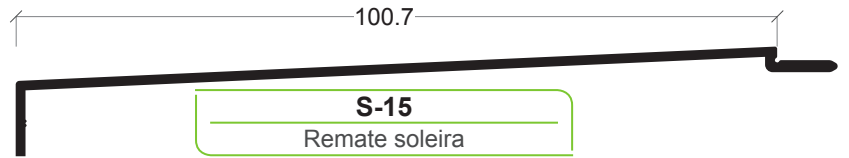
AXi-88
Complemento remate

AXi-91
Complemento remate

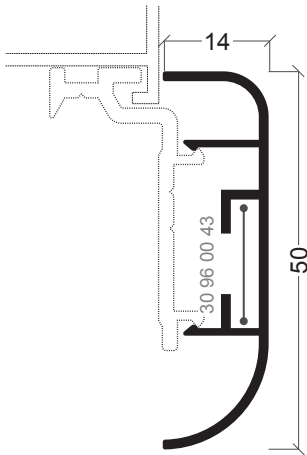




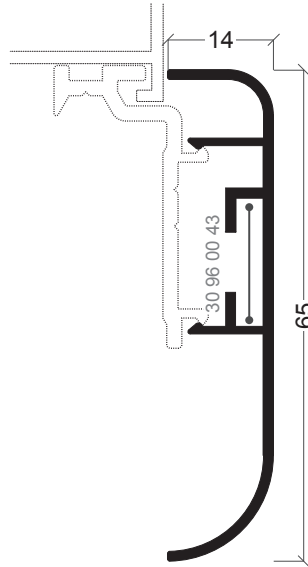
S-07
Remate



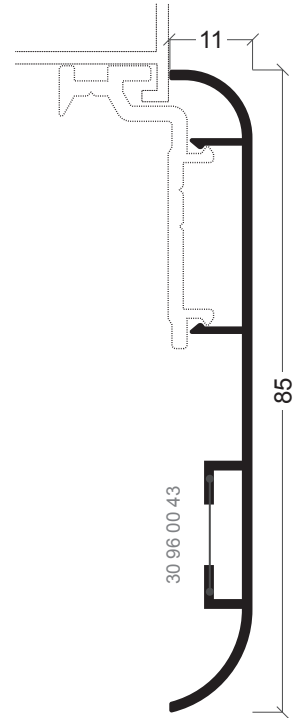
S-15
Remate soleira



ARi-27
Tapa juntas

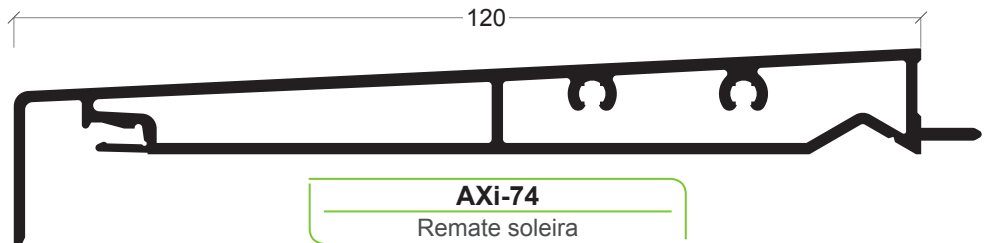


ARi-34
Tapa juntas

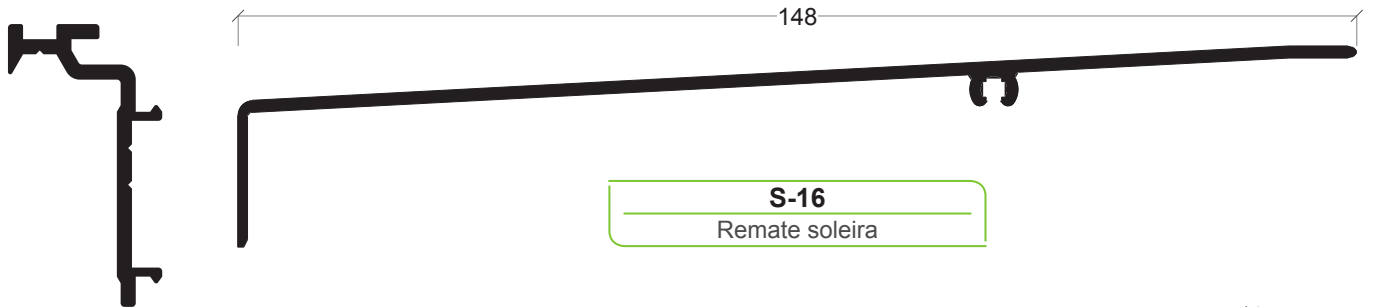


ARi-28
Tapa juntas

106



AXi-74
Remate soleira

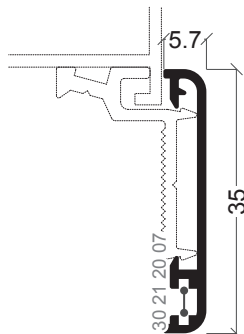


S-16
Remate soleira

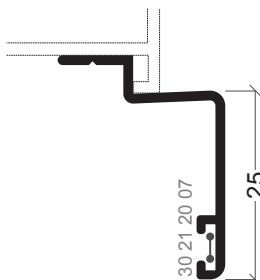
ARi-26
Mola tapa juntas



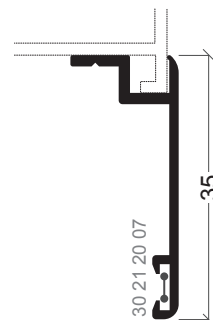
ARi-24
Mola tapa juntas



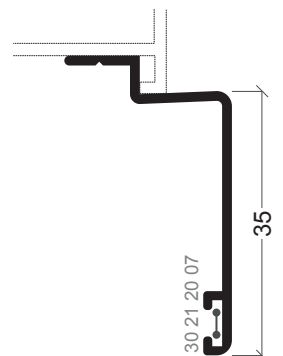
ARi-30
Tapa juntas



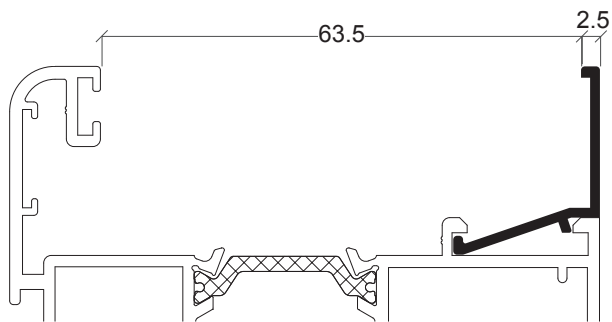
ARi-66
Tapa juntas



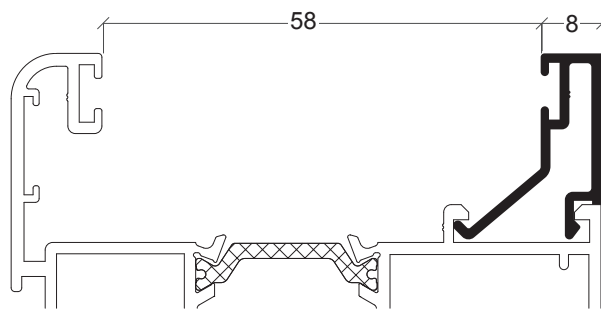
ARi-31
Tapa juntas



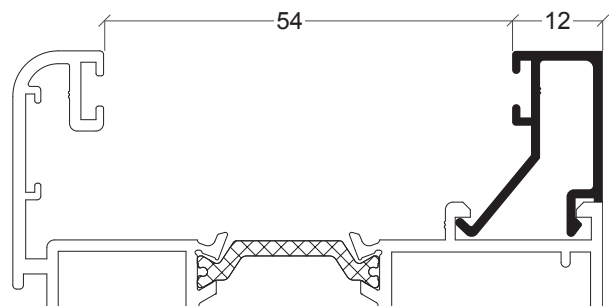
ARi-37
Tapa juntas



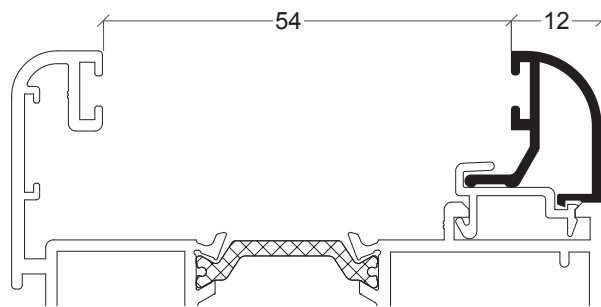
AX-69



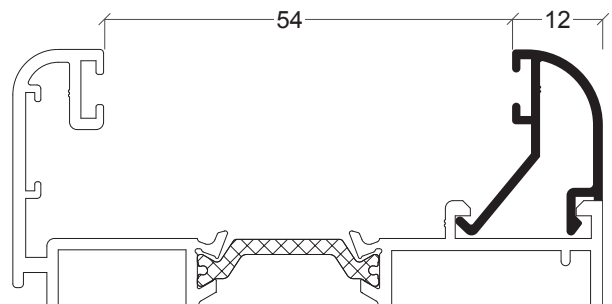
AX-74



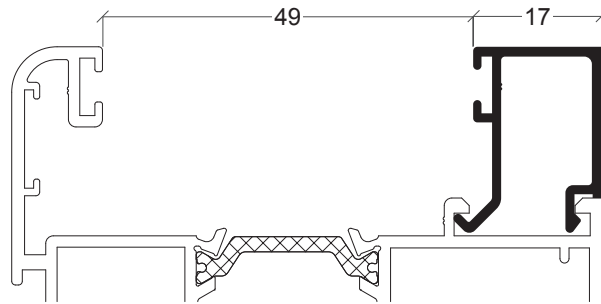
AX-36



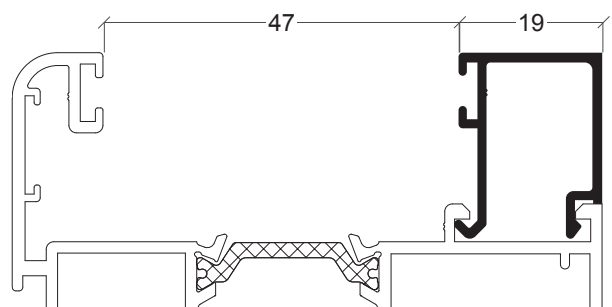
AX-37



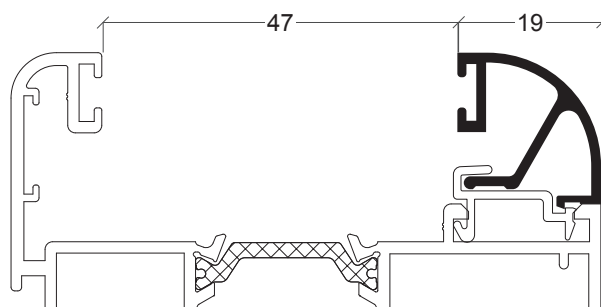
AZ-08



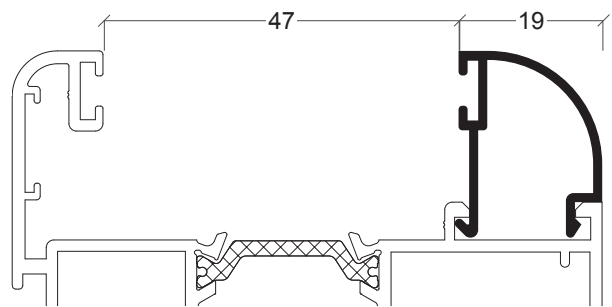
AX-46



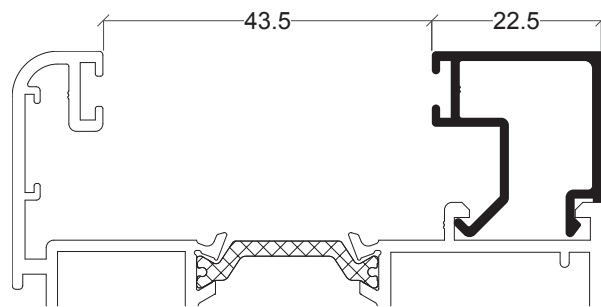
AX-35



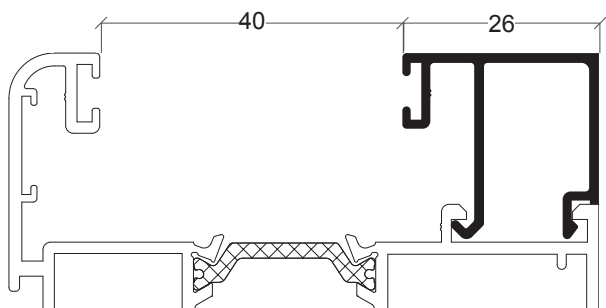
AX-30



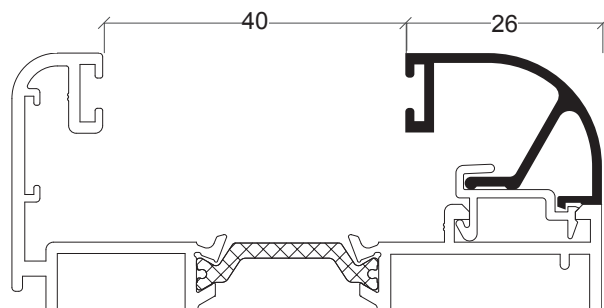
AZ-07



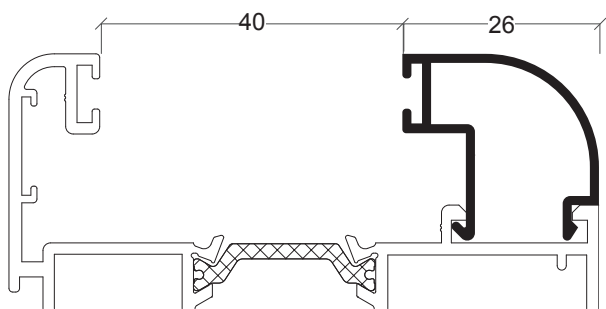
AX-78



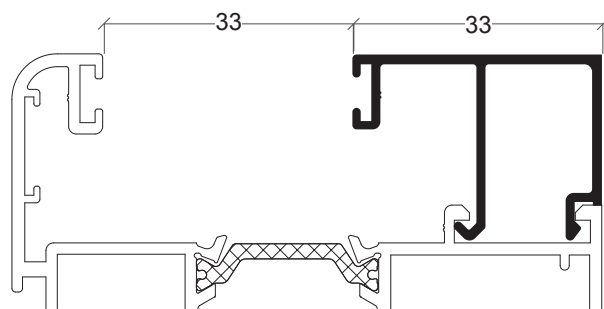
AX-31



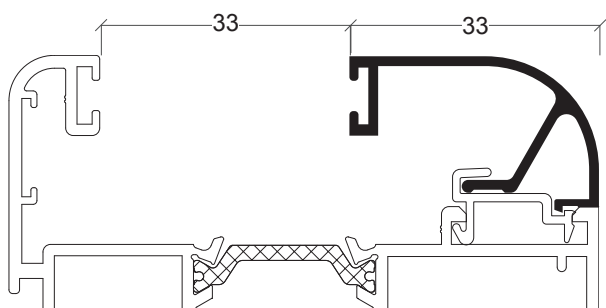
AX-29



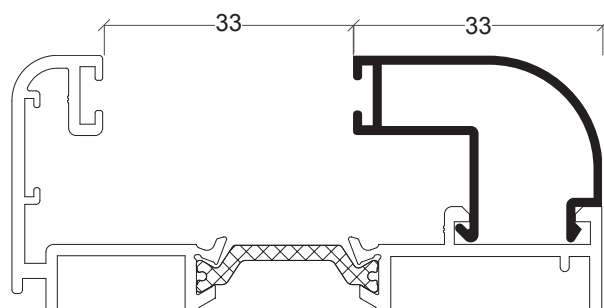
AZ-06



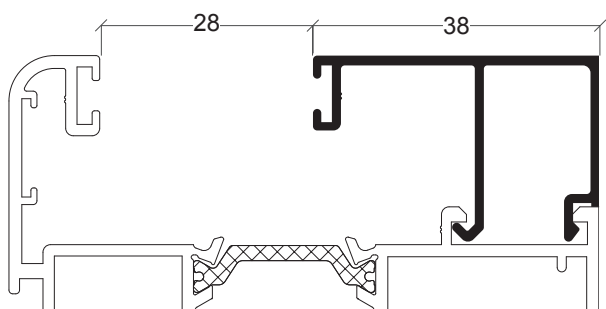
AX-34



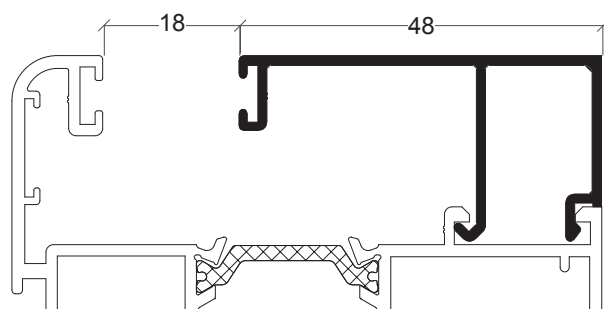
AX-39



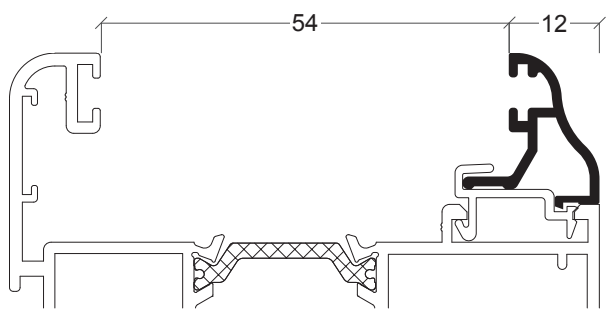
AZ-28



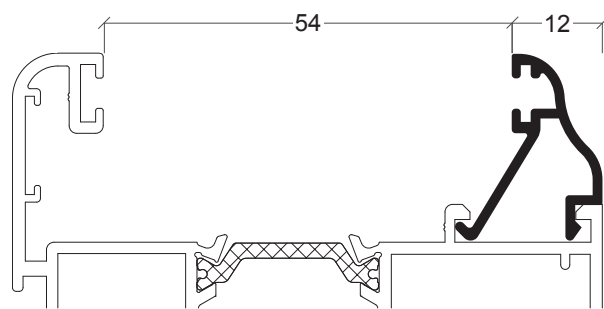
AX-32



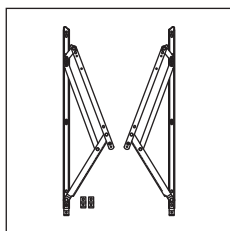
AX-80



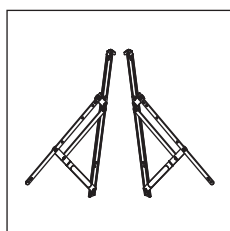
AX-72



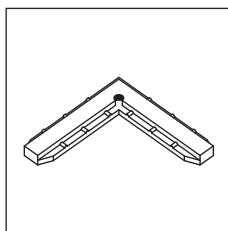
AX-73



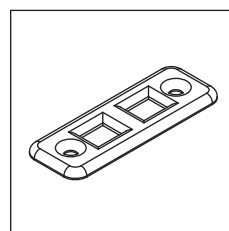
30 00 95 21
Jogo compasso (180 kg)



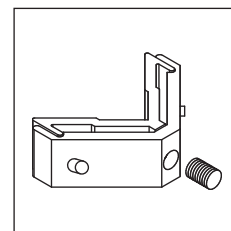
30 00 95 71
Jogo compasso (60 kg)



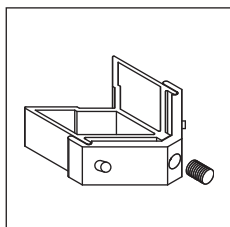
30 21 20 07
Esquadro de alinhamento



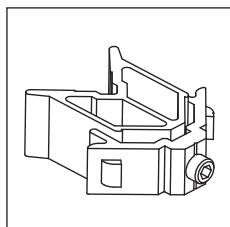
30 24 30 75
Contra-fecho inox



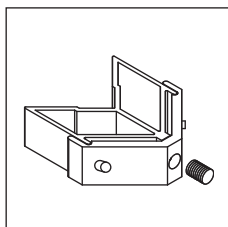
30 60 00 01
Esquadro exterior janela



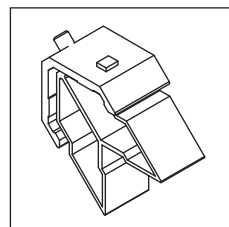
30 60 00 02
Esquadro exterior porta



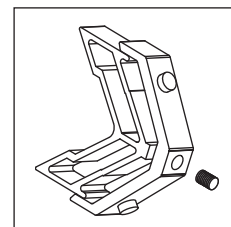
30 60 00 03
Esquadro interior porta com clip



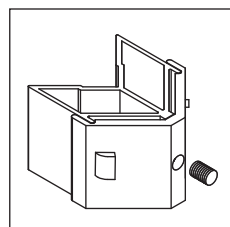
30 60 00 04
Esquadro exterior porta



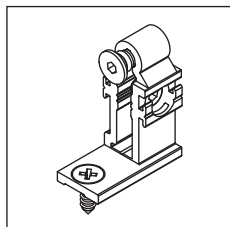
30 60 00 05
Esquadro interior porta



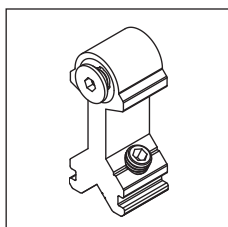
30 60 00 06
Esquadro interior projectante



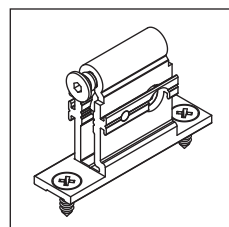
30 60 00 07
Esquadro exterior projectante



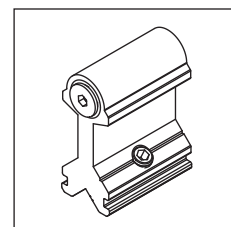
30 60 00 08
União travessa exterior pequena fixo



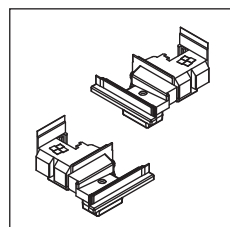
30 60 00 09
União travessa interior pequena



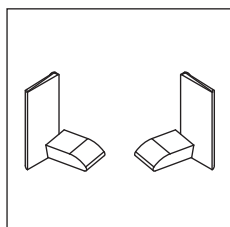
30 60 00 10
União travessa exterior grande fixo/móvel



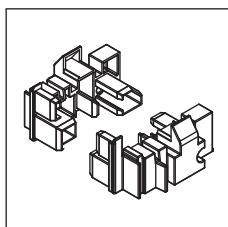
30 60 00 11
União travessa interior grande



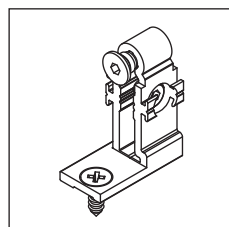
30 60 00 12
Conjunto topos inversor AJi



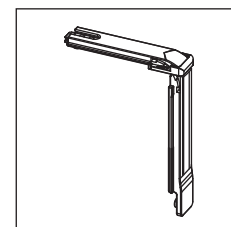
30 60 00 13
Conjunto topos AJi-62



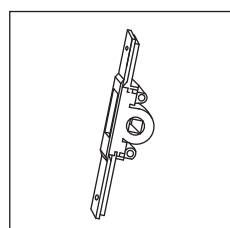
30 60 00 15
Conjunto topos AJi-63



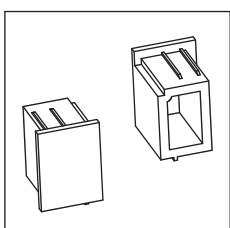
30 60 00 16
União travessa exterior pequena móvel



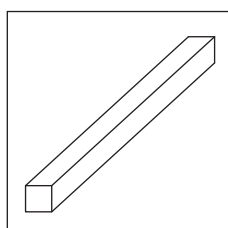
30 90 20 42
Ângulo de reenvio



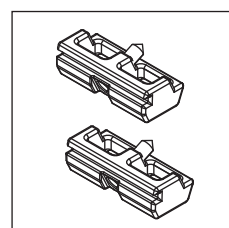
30 90 20 44
Transmissão para abertura exterior



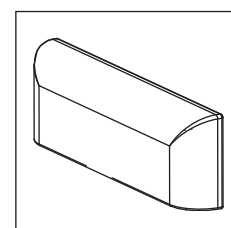
30 91 21 20
Jogo topos condensação Y-20



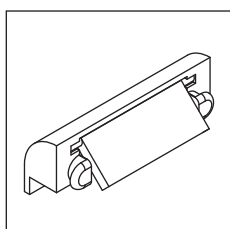
30 91 41 23
Perno 7 x 131 mm



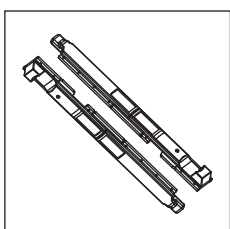
30 92 00 50
Complemento fecho



30 92 01 00/01
Goteira preto/branco



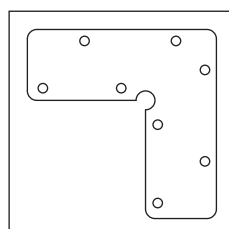
30 92 01 02/03
Goteira com válvula preto /branco



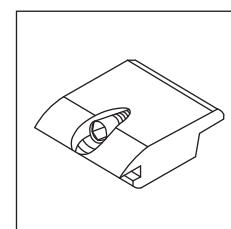
30 92 01 20
Jogo fecho C.E.



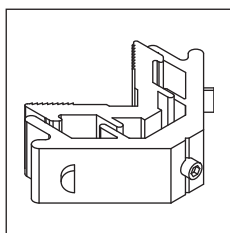
30 92 01 23
Jogo de passadores bidireccional C.E.



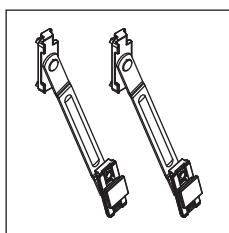
30 92 01 35
Esquadro de alinhamento



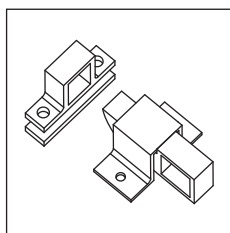
30 92 02 60
Apoio da folha



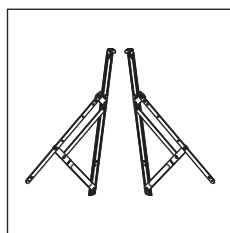
30 92 04 25
Esquadro interior janela fixo com clip



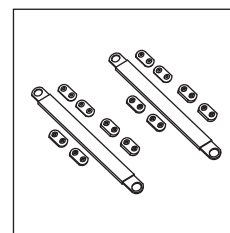
30 92 04 75
Jogo compassos basculante



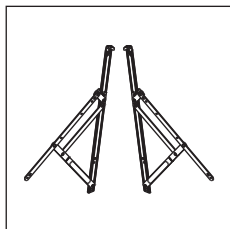
30 92 04 76/77
Fecho clack branco/preto



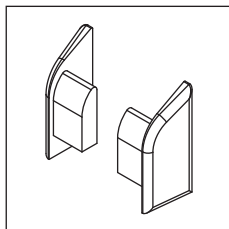
30 92 04 80
Compasso projectante deslizante até 50 kg / folha



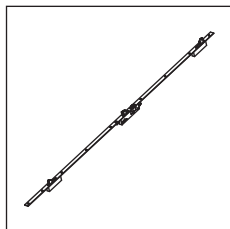
30 92 04 85
Jogo compassos



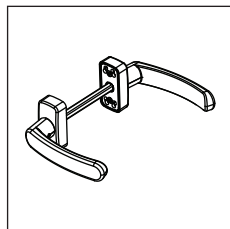
30 92 04 90
Compasso projectante deslizante até 70 kg / folha



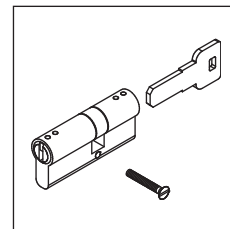
30 92 05 00
Jogo topos



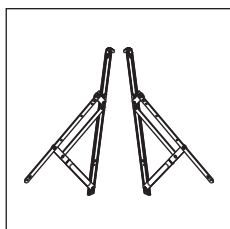
30 92 05 10
Fechadura 3 pontos (35 mm)



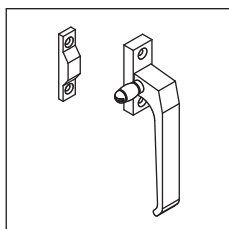
30 92 05 15
Fecho de alavanca com 5 pontos de fecho



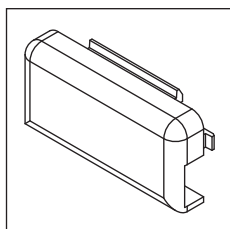
30 92 05 55
Canhão fechadura



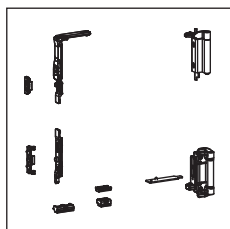
30 92 06 00
Compasso projectante deslizante até 20 kg / folha



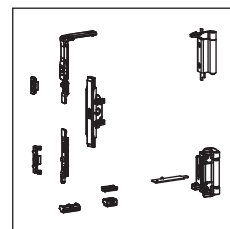
30 92 06 10/11
Cremone de lingueta branco/preto



30 92 13 04
Goteira preta

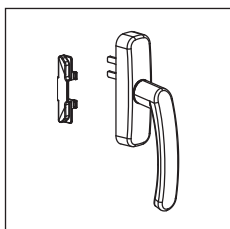


30 92 22 46/47
Kit OB sem cremone branco/preto

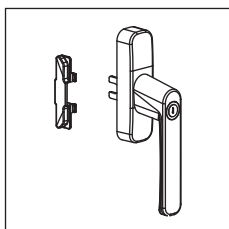


30 92 22 48/49
Kit OB com transmissão branco/preto sem puxador

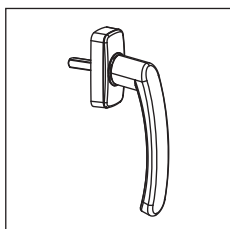
110



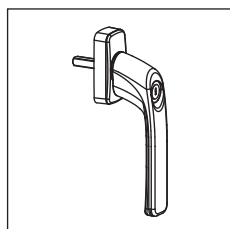
30 92 22 50/51
Cremone branco/preto



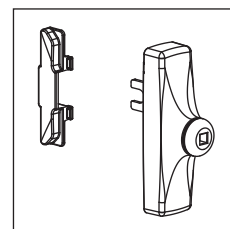
30 92 22 52/53
Cremone com chave branco/preto



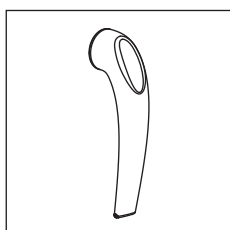
30 92 22 54/55
Puxador branco/preto



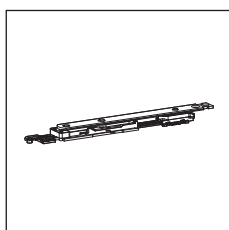
30 92 22 56/57
Puxador com chave branco/preto



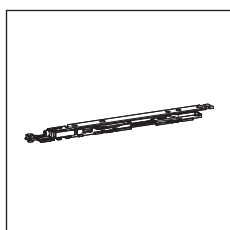
30 92 22 58/59
Cremone extraível branco/preto



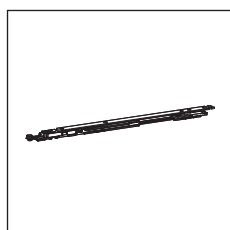
30 92 22 60/61
Punho extraível branco/preto



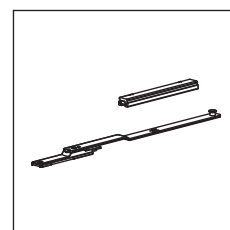
30 92 22 62
Compasso OB pequeno 340 - 441



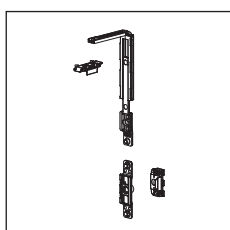
30 92 22 63
Compasso OB médio 442 - 750



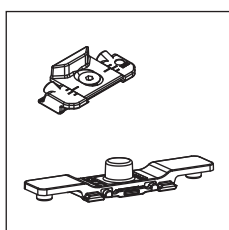
30 92 22 64
Compasso OB grande 751 - 1500



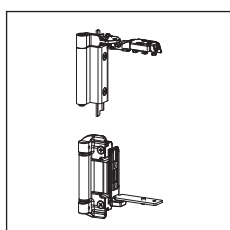
30 92 22 65
Compasso OB suplementar 1001 - 1500



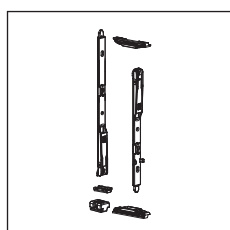
30 92 22 66
Kit 3º ponto OB



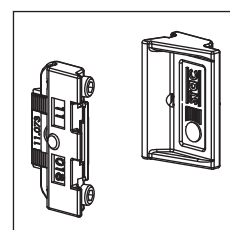
30 92 22 67
Ponto de fecho suplementar



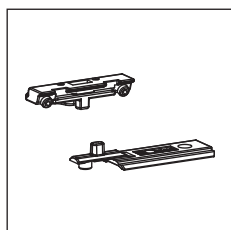
30 92 22 68/69
Kit dobradiça 2ª folha OB branco/preto



30 92 22 70
Kit fechos 2ª folha OB

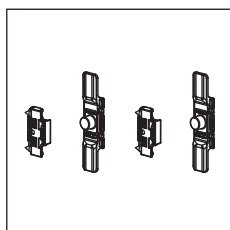


30 92 22 71
Conjunto ponto fecho suplementar folha passiva



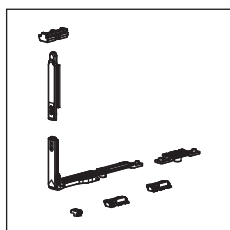
30 92 22 72

Conjunto micro-ventilação



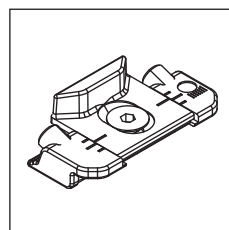
30 92 22 73

Kit batente 1 folha Anírius S/ cremone



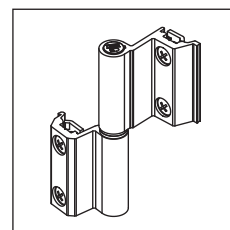
30 92 22 74

Kit batente 2 folhas Anírius S/ cremone



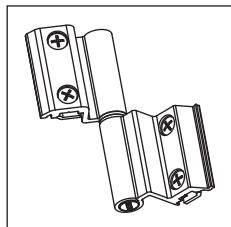
30 92 22 75

Ponto de fecho regulável (H > 1100 mm)



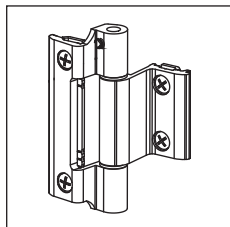
30 92 22 76/77

Dobradiça com afinação branco/preto



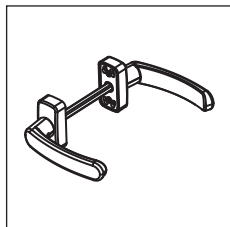
30 92 22 78/79

Dobradiça com afinação 3ª folha branco/preto



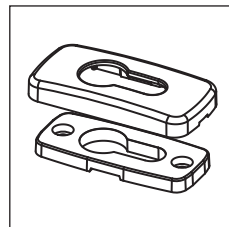
30 92 22 80/81

Dobradiça 3 nós reversível branco/preto



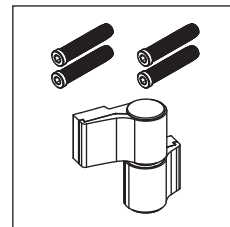
30 92 22 82/83

Puxador duplo branco/preto



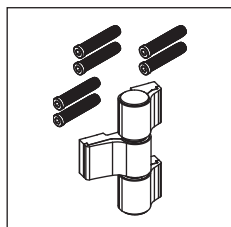
30 92 22 85/86

Escudo para canhão branco/preto



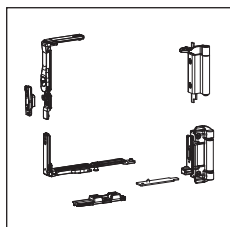
30 92 22 88/89

Dobradiça 2 abas porta c/ ressalto fixação directa branco/preto



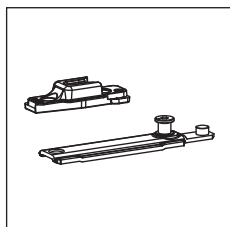
30 92 22 90/91

Dobradiça 3 abas porta c/ ressalto fixação directa branco/preto



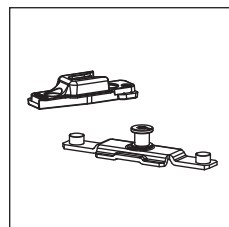
30 92 23 00/01

Kit oscilo-batente sem cremone branco/preto



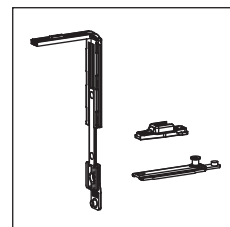
30 92 23 02

Conjunto ponto de fecho terminal



30 92 23 03

Conjunto ponto de fecho intermédio



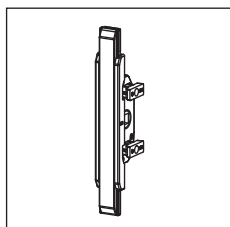
30 92 23 04

Kit ângulo de reenvio



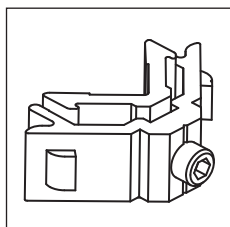
30 92 23 05

Jogo passadores OB bidirecional



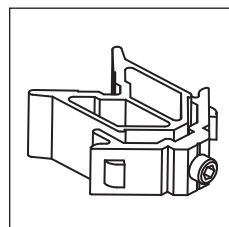
30 92 23 06

Transmissão



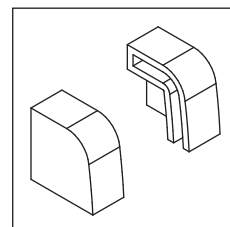
30 96 00 04

Esquadro interior janela



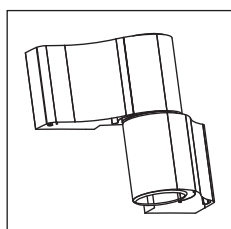
30 96 00 05

Esquadro interior aro fixo porta



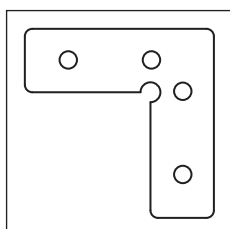
30 96 00 12

Jogo topos condensação



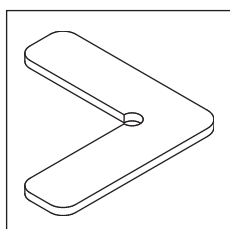
30 96 00 17/21

Dobradiça com ressalto branco/preto



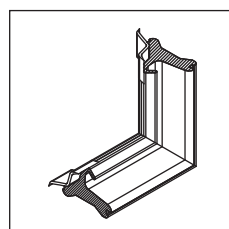
30 96 00 22

Esquadro alinhamento



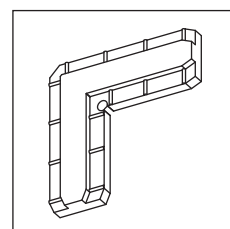
30 96 00 23

Esquadro alinhamento aro fixo



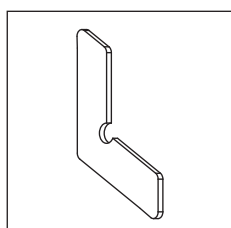
30 96 00 35

Canto vulcanizado



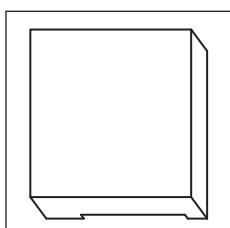
30 96 00 43

Esquadro alinhamento



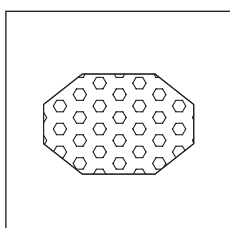
30 96 00 63

Esquadro alinhamento



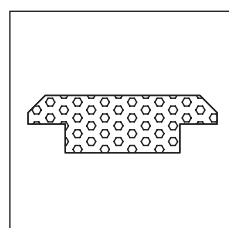
30 96 10 01

Calço para vidro aro móvel



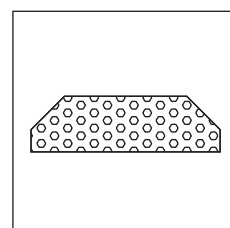
30 99 00 03

ThermoProfile ISO-03



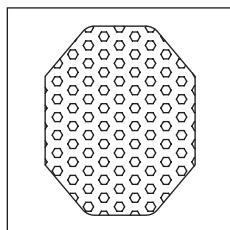
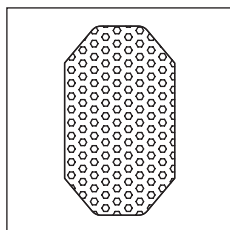
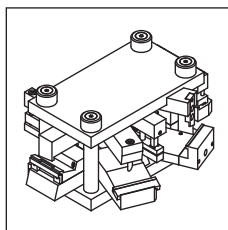
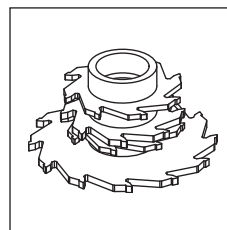
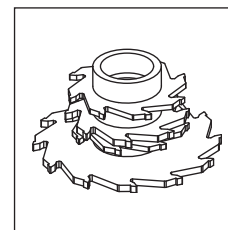
30 99 00 04





















ThermoProfile ISO-04


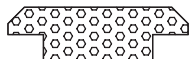





30 99 00 05

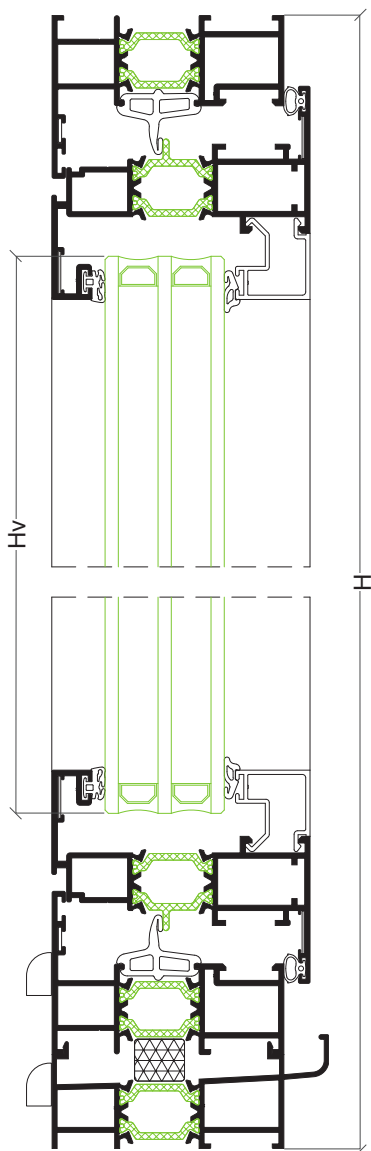
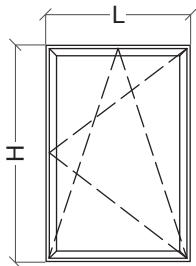
ThermoProfile ISO-05


30 99 00 08
 ThermoProfile ISO-08

30 99 00 12
 ThermoProfile ISO-12

33 98 11 99
 Cunho AJi

33 98 31 99
 Conjunto de frezas fixo

33 98 32 99
 Conjunto de frezas móvel

Referência	Desenho	Descrição
30 00 95 15		Junta de vedação curta AZ-79
30 60 00 14		Perfil pelúcia metálica 18 mm preto
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 60 00 18		Junta Isolante
30 92 04 70		Espuma isolante
30 93 00 60		Junta exterior do vidro (4 mm) preto
30 93 00 61		Junta de vedação exterior (2 mm) preto
30 93 00 62		Junta exterior plana para vidro (4 mm) preto
30 93 00 65		Junta interior para vidro (5 mm) preto
30 93 00 66		Junta interior para vidro (4 mm) preto
30 93 00 67		Junta interior para vidro (2 mm) preto
30 93 00 68		Junta interior para vidro (6/7 mm) preto
30 93 00 69		Junta interior para vidro (8/9 mm) preto
30 93 00 82		Junta vedação inferior AZ-79
30 93 01 20		Junta interior
30 94 01 46		Junta para veda-luz AZ-22
30 95 00 10		Pelúcia 7x9 mm
30 96 00 03		Junta central
30 96 00 09		Junta tapa-canal aro fixo
30 96 00 18		Junta interior (abertura projectante/deslizante)

Referência	ThermoProfile (Baguetes de 70 cm)	Aplicação
30 99 00 03		AJi-01; AJi-03; AJi-04; AJi-05; AJi-07; AJi-20; AJi-21; AJi-33; AJi-35; AJi-61; AJi-65; AJi-67; AJi-71; AJi-73; AJi-74; AJi-75; AJi-76; AJi-80; AJi-81; AJi-83; AJi-86; AJi-87; AJi-88; AJi-89; AJi-91; AJi-95
30 99 00 04		AJi-01; AJi-03; AJi-06; AJi-08; AJi-12; AJi-20; AJi-33; AJi-35; AJi-68; AJi-73; AJi-74; AJi-75; AJi-76; AJi-79; AJi-80; AJi-81; AJi-86; AJi-87; AJi-88; AJi-89; AJi-91; AJi-92; AJi-93; AJi-94
30 99 00 05		AJi-05; AJi-07; AJi-10; AJi-36; AJi-61; AJi-72; AJi-83; AJi-84; AJi-85; AJi-90; AJi-95
30 99 00 08		AJi-06; AJi-08; AJi-68; AJi-79; AJi-92; AJi-93; AJi-94
30 99 00 12		AJi-10; AJi-16; AJi-36; AJi-64; AJi-72; AJi-84; AJi-85; AJi-90

Janela 1 folha abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AJi-03	Aro fixo		2	L
				2	H-28.5 mm
	AJi-61	Aro móvel		2	L-43 mm
				2	H-71.5 mm
	---	Bite		2	L-132 mm
				2	H-200.5 mm
	AX-19	Vareta		várias	---
	AJi-71	Soleira		1	L

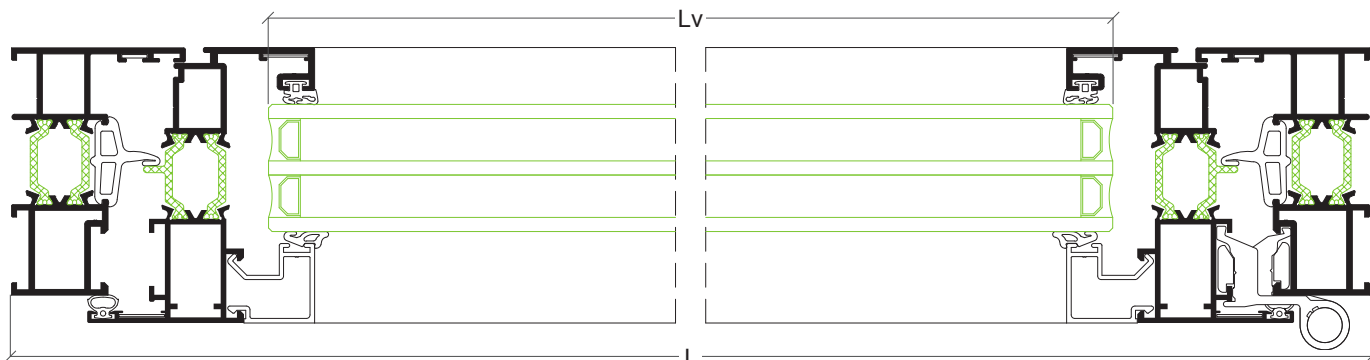
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 96 00 04	Esquadro interior	8	
30 60 00 01	Esquadro exterior	8	
30 96 00 23	Esquadro alinhamento fixo	4	
30 96 00 22	Esquadro alinhamento móvel	8	
30 96 10 01	Calço para vidro	4	6
30 92 22 (XX)	Cremones	1	
---	Ferragem oscilo-batente (ver páginas 27/28)	---	1
30 92 22 73	Kit batente 1 folha sem cremone	1	---
30 92 22 76/77	Dobradiça com afinação branco/preto	2 ou mais	---
30 92 22 75	Ponto de fecho regulável (H > 1100 mm)	1	---
30 92 02 60	Apoio da folha	1	---
30 92 01 02	Goteira com válvula preto	4 ou mais	
30 96 00 12	Jogo topos condensação	1	
30 92 04 70	Espuma isolante	L	
30 93 01 20	Junta interior	2L+2H	
30 96 00 03	Junta central	2L+2H	
30 96 00 35	Canto vulcanizado	4	
---	Junta para vidro (exterior)	2L+2H	
---	Junta para vidro (interior)	2L+2H	

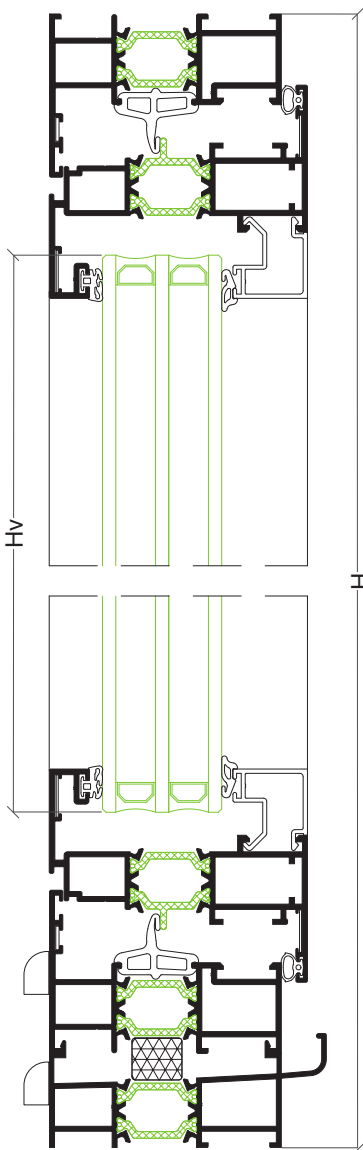
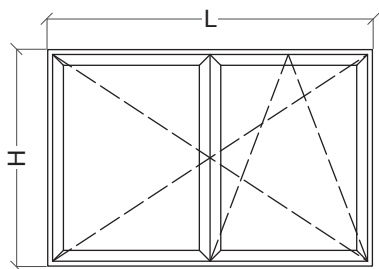
113

Vidro

Hv = H-174 mm	Lv = L-146 mm
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Janela 2 folhas abrir e oscilo-batente



Perfis

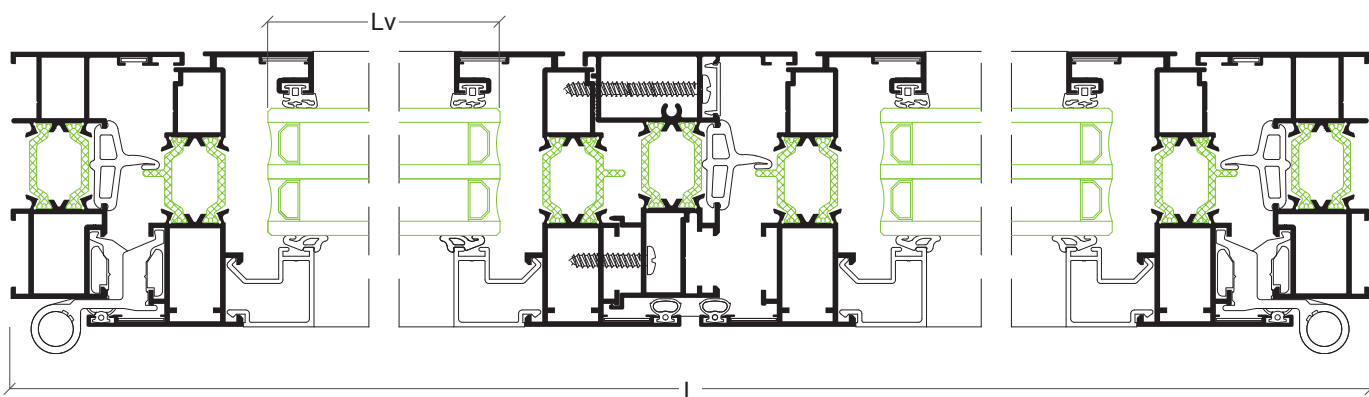
Desenho	Ref	Descrição	Corte	Quant	Medida
	AJi-03	Aro fixo		2	L
				2	H-28.5 mm
	AJi-61	Aro móvel		2	L/2-24 mm
				2	H-71.5 mm
	---	Bite		4	L/2-113 mm
				4	H-200.5 mm
	AX-19	Vareta		várias	---
	AJi-04	Inversor		1	H-139.5 mm
	KL-04	Perfil tampa		1	H-139.5 mm
	AJi-71	Soleira		1	L

Acessórios e Juntas

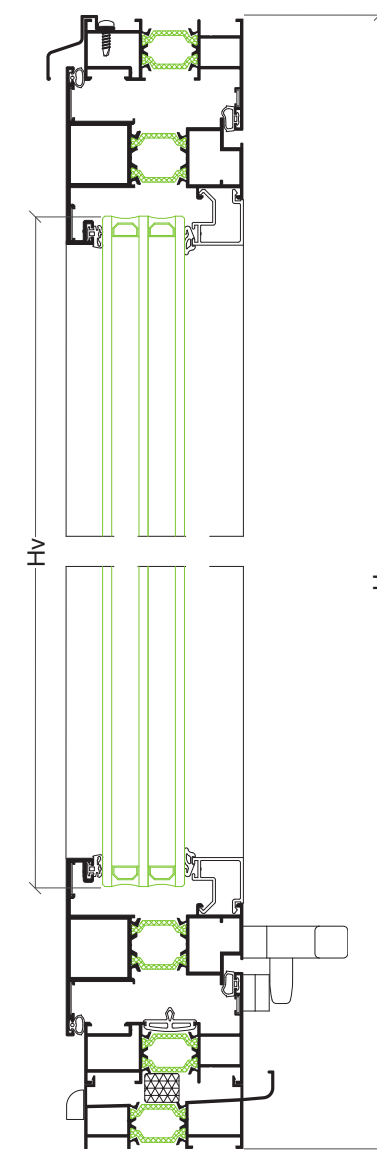
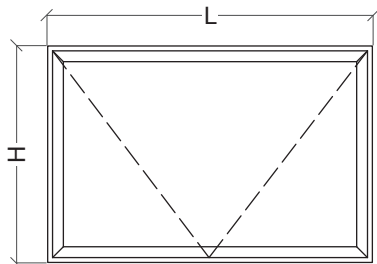
Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 96 00 04	Esquadro interior		12
30 60 00 01	Esquadro exterior		12
30 96 00 23	Esquadro alinhamento fixo		4
30 96 00 22	Esquadro alinhamento móvel		16
30 96 10 01	Calço para vidro	8	12
30 92 22 (XX)	Cremona		1
---	Ferragem oscilo-batente (ver páginas 27/28)	---	1
30 92 22 74	Kit batente 2 folhas sem cremone	1	---
30 92 01 23	Jogo de passadores bidireccional C.E.	1	---
30 92 22 76/77	Dobradiça com afinação branco/preto	4 ou mais	---
30 92 22 75	Ponto de fecho regulável (H > 1100 mm)	1	---
30 92 02 60	Apoio da folha	1	---
30 92 01 02	Goteira com válvula preto		4 ou mais
30 60 00 12	Jogo topos inversor		1
30 96 00 12	Jogo topos condensação		1
30 92 04 70	Espuma isolante		L
30 93 01 20	Junta interior		2L+4H
30 96 00 03	Junta central		2L+3H
30 96 00 35	Canto vulcanizado		4
---	Junta para vidro (exterior)		2L+4H
---	Junta para vidro (interior)		2L+4H

Vidro

Hv = H-174 mm	Lv = L-127 mm
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Janela projectante



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AJi-03	Aro fixo		2	L
				2	H-28.5 mm
	AJi-95	Aro móvel		2	L-43 mm
				2	H-71.5 mm
	---	Bite		2	L-159.5 mm
				2	H-228 mm
	AJi-71	Soleira		1	L
	AXi-45	Pingadeira		1	L
	AXi-32	Complemento		1	segundo medida do compasso

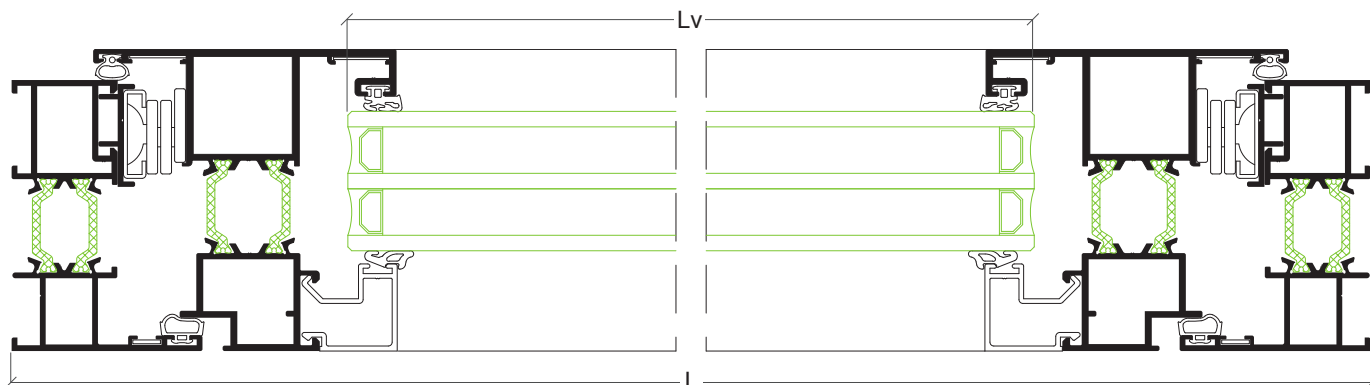
Acessórios e Juntas

Referência	Descrição	Quantidade
30 96 00 04	Esquadro interior	4
30 60 00 01	Esquadro exterior	4
30 96 00 23	Esquadro alinhamento fixo	4
30 92 01 35	Esquadro alinhamento móvel	8
30 96 00 06	Esquadro interior	4
30 96 00 07	Esquadro exterior	4
30 96 10 01	Calço para vidro	4
30 96 06 10 ou 11	Cremona de lingueta	2
---	Jogo compasso projectante	1
30 92 01 02	Goteira com válvula preto	2 ou mais
30 96 00 12	Jogo topos condensação	1
30 92 04 70	Espuma isolante	L
30 93 01 20	Junta exterior	2L+2H
30 96 00 18	Junta interior projectante deslizante	2L+2H
30 96 00 09	Junta tapa-canal	L
---	Junta para vidro (exterior)	2L+2H
---	Junta para vidro (interior)	2L+2H

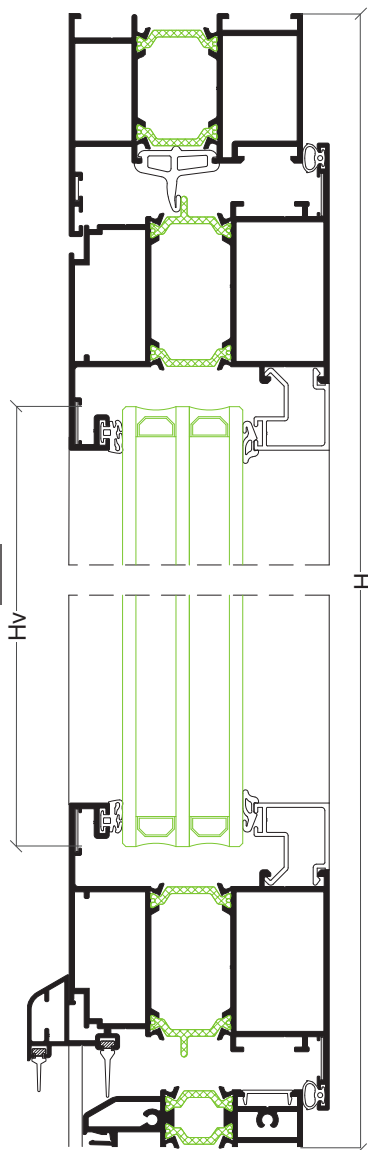
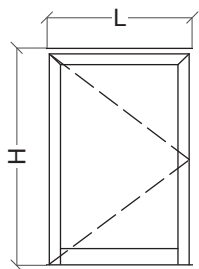
115

Vidro

Hv = H-202 mm	Lv = L-173 mm
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Porta 1 folha



Perfis

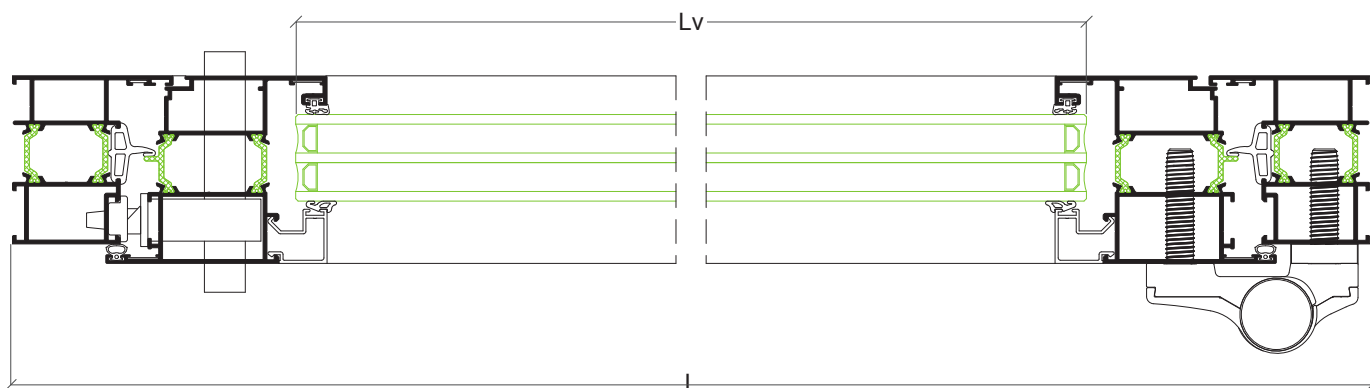
Desenho	Ref	Descrição	Corte	Quant	Medida
	AJi-08	Aro fixo		1	L
				2	H
	AJi-36	Aro móvel		2	L-78 mm
				2	H-50 mm
	---	Bite		2	L-222 mm
				2	H-234 mm
	AJi-63	Remate inferior porta		1	L-80.5 mm
	AZ-79	Pingadeira		1	L-135 mm
	KL-04	Perfil tampa		1	L-90 mm

Acessórios e Juntas

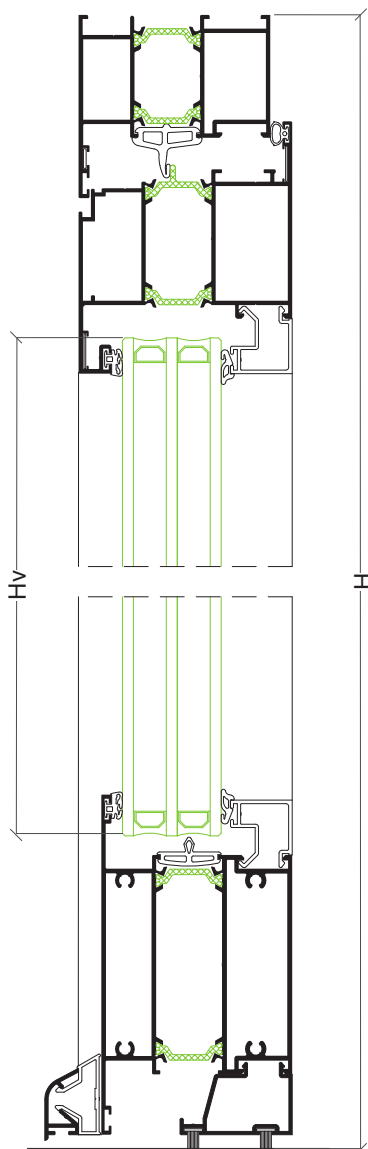
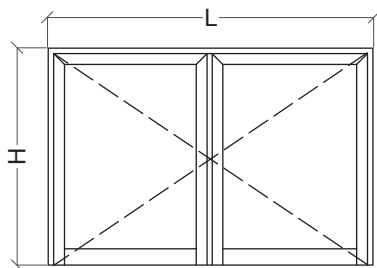
Referência	Descrição	Quantidade
30 96 00 05	Esquadro interior	2
30 60 00 02	Esquadro exterior	2
30 60 00 05	Esquadro interior móvel	4
30 60 00 04	Esquadro exterior móvel	4
30 96 00 23	Esquadro alinhamento fixo	2
30 96 00 22	Esquadro alinhamento móvel	8
30 96 10 01	Calço para vidro	4
30 92 22 88 ou 89	Dobradiça 2 abas porta	2
30 92 05 10	Fechadura 3 pontos	1
30 92 22 82 ou 83	Puxador duplo	1
30 92 22 85 ou 86	Escudo para canhão	2
30 92 05 55	Canhão fechadura	1
30 93 01 20	Junta interior	2L+2H
30 96 00 03	Junta central	L+2H
30 96 00 35	Canto vulcanizado	2
30 92 05 00	Conjunto topos pingadeira	1
30 00 95 15	Junta inferior curta	L
30 93 00 82	Junta inferior	L
---	Junta para vidro (exterior)	2L+2H
---	Junta para vidro (interior)	2L+2H

Vidro

Hv = H-208 mm	Lv = L-236 mm
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Porta 2 folhas



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AJi-08	Aro fixo		1	L
				2	H
	AJi-36	Aro móvel		2	L/2-41.5 mm
				4	H-44 mm
	---	Bíte		4	L/2-185.5 mm
				4	H-258 mm
	AJi-04	Inversor		1	H-78 mm
	KL-04	Perfil tampa		1	H-78 mm
	AJi-12	Travessa		2	L/2-176.5 mm
	AJi-82	Bíte remate		2	L/2-185.5 mm
	AZ-60	Pingadeira		1	L/2-103 mm
				1	L/2-39 mm
	AZ-61	Suplemento pingadeira		2	L/2-226 mm

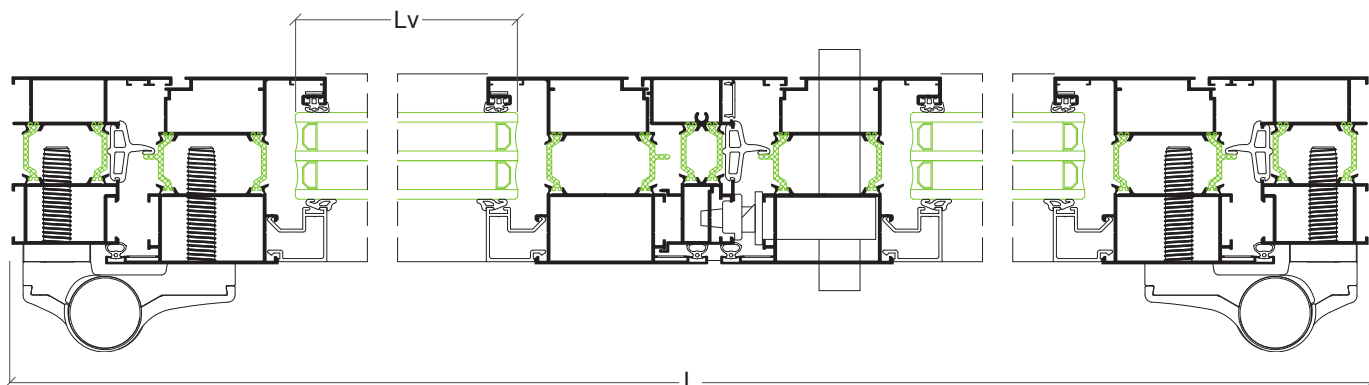
Acessórios e Juntas

Referência	Descrição	Quantidade
30 96 00 05	Esquadro interior	2
30 60 00 02	Esquadro exterior	2
30 60 00 05	Esquadro interior móvel	4
30 60 00 04	Esquadro exterior móvel	4
30 96 00 23	Esquadro alinhamento fixo	2
30 96 00 22	Esquadro alinhamento móvel	8
30 60 00 12	Jogo topos inversor	1
30 92 22 88 ou 89	Dobradiça 2 abas porta	4
30 92 05 10	Fechadura 3 pontos	1
30 92 22 82 ou 83	Puxador duplo	1
30 92 22 85 ou 86	Escudo para canhão	2
30 92 05 55	Canhão fechadura	1
30 92 00 50	Contra-fecho	1
30 24 30 75	Contra-fecho inferior	1
30 92 01 20	Jogo fecho C.E.	1
30 93 01 20	Junta interior	L+4H
30 96 00 03	Junta central	L+3H
30 96 00 35	Canto vulcanizado	2
30 92 05 00	Conjunto topos pingadeira	1
30 95 00 10	Pelúcia	2L
---	Junta para vidro (exterior)	2L+4H
---	Junta para vidro (interior)	2L+4H
30 96 00 09	Junta tapa-canal	2L

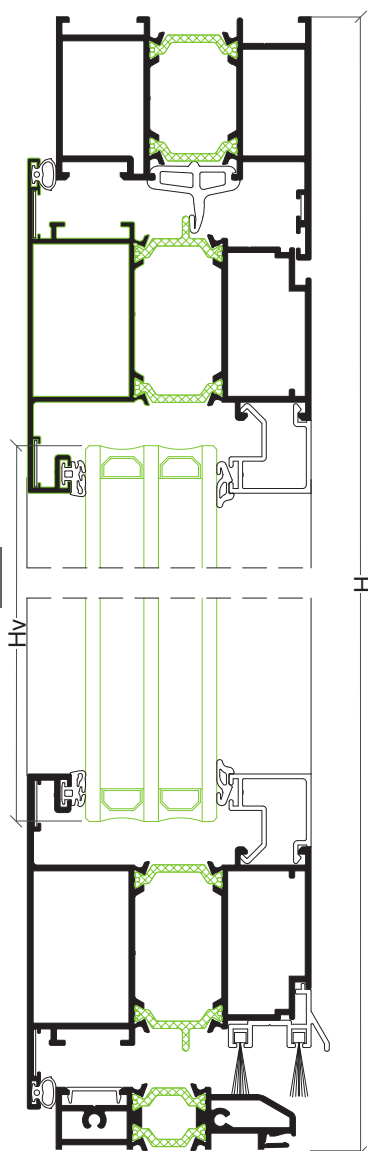
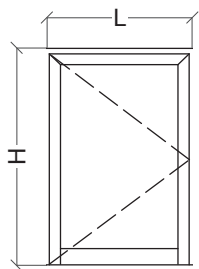
117

Vidro

Hv = H-232 mm	Lv = L/2-200 mm
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Porta 1 folha abertura exterior



Perfis

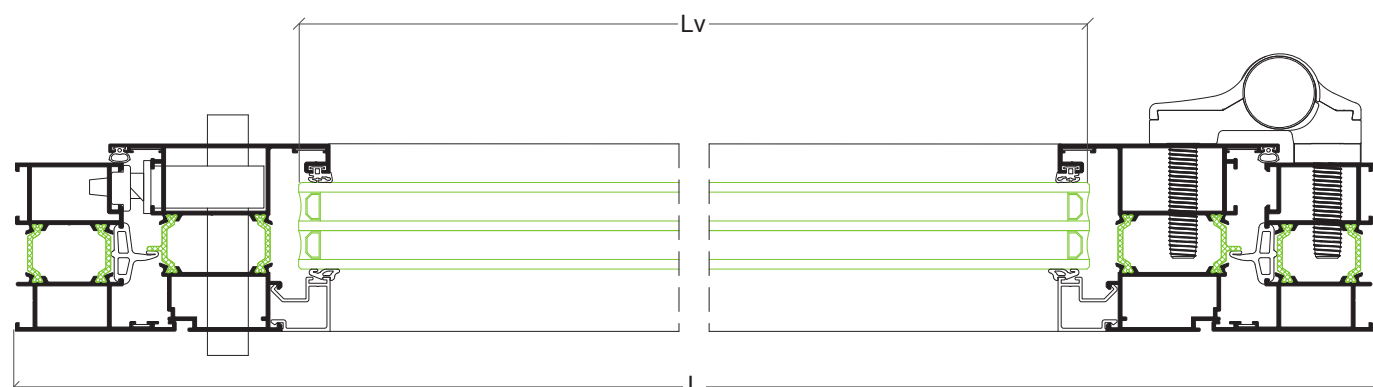
Desenho	Ref	Descrição	Corte	Quant	Medida
	AJi-08	Aro fixo		1	L
				2	H
	AJi-72	Aro móvel		2	L-78 mm
				2	H-50 mm
	---	Bite		2	L-222 mm
				2	H-234 mm
	AJi-63	Remate inferior porta		1	L-80.5 mm
	AJi-62	Pingadeira		1	---
	KL-04	Perfil tampa		1	L-90 mm

Acessórios e Juntas

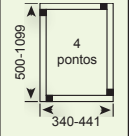
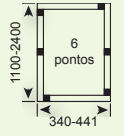
Referência	Descrição	Quantidade
30 96 00 05	Esquadro interior	2
30 60 00 02	Esquadro exterior	2
30 60 00 05	Esquadro interior móvel	4
30 60 00 04	Esquadro exterior móvel	4
30 96 00 23	Esquadro alinhamento fixo	2
30 96 00 22	Esquadro alinhamento móvel	8
30 96 10 01	Calço para vidro	4
30 92 22 88 ou 89	Dobradiça 2 abas porta	2
30 92 05 10	Fechadura 3 pontos	1
30 92 22 82 ou 83	Puxador duplo	1
30 92 22 85 ou 86	Escudo para canhão	2
30 92 05 55	Canhão fechadura	1
30 93 01 20	Junta interior	2L+2H
30 96 00 03	Junta central	L+2H
30 96 00 35	Canto vulcanizado	2
30 60 00 13	Conjunto topos AJi-62	1
30 60 00 14	Pelúcia preta 18 mm	2L
---	Junta para vidro (exterior)	2L+2H
---	Junta para vidro (interior)	2L+2H

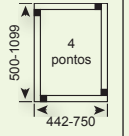

Vidro

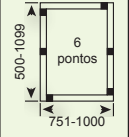
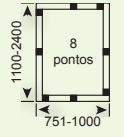
Hv = H-208 mm	Lv = L-236 mm
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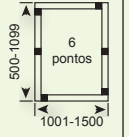
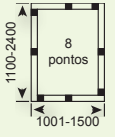


Ferragens para oscilo-batente

Designação	Referência		
Kit oscilo-batente	30 92 22 46 (branco) 30 92 22 47 (preto)	1	
Cremones	30 92 22 50 ou 51 ou 30 92 22 52 ou 53 ou 30 92 22 58 + 30 92 22 60 ou 30 92 22 59 + 30 92 22 61	1	
Compasso pequeno	30 92 22 62	1	
Kit fecho 3º ponto	30 92 22 66		1

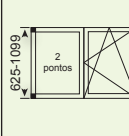
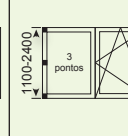
Designação	Referência		
Kit oscilo-batente	30 92 22 46 (branco) 30 92 22 47 (preto)	1	
Cremones	30 92 22 50 ou 51 ou 30 92 22 52 ou 53 ou 30 92 22 58 + 30 92 22 60 ou 30 92 22 59 + 30 92 22 61	1	
Compasso médio	30 92 22 63	1	
Kit fecho 3º ponto	30 92 22 66		1

Designação	Referência		
Kit oscilo-batente	30 92 22 46 (branco) 30 92 22 47 (preto)	1	
Cremones	30 92 22 50 ou 51 ou 30 92 22 52 ou 53 ou 30 92 22 58 + 30 92 22 60 ou 30 92 22 59 + 30 92 22 61	1	
Compasso grande	30 92 22 64	1	
Kit fecho 3º ponto	30 92 22 66	1	2

Designação	Referência		
Kit oscilo-batente	30 92 22 46 (branco) 30 92 22 47 (preto)	1	
Cremones	30 92 22 50 ou 51 ou 30 92 22 52 ou 53 ou 30 92 22 58 + 30 92 22 60 ou 30 92 22 59 + 30 92 22 61	1	
Compasso grande	30 92 22 64	1	
Compasso suplementar	30 92 22 65	1	
Kit fecho 3º ponto	30 92 22 66	1	2

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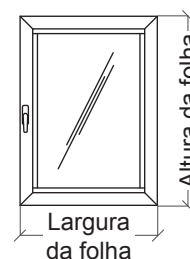
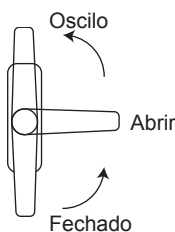
Ferragens para a 2ª folha

Designação	Referência		
Kit dobradiça 2ª folha	30 92 22 68 (branco) 30 92 22 69 (preto)	1	
Kit fechos para 2ª folha	30 92 22 70	1	
Conjunto ponto fecho suplementar	30 92 22 71		1

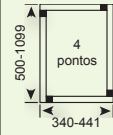

Peso máximo da folha: 120 kg (alumínio + vidro)

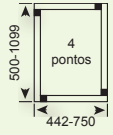

(confirmar com o quadro de dimensão/aplicação do mapa de montagem da ferragem O-B)

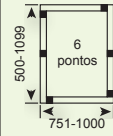
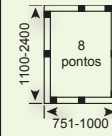
Largura mínima: 340 mm / Largura máxima: 1500 mm
 Altura mínima: 500 mm / Altura máxima: 2400 mm (vão de 1 folha)
 Altura mínima: 625 mm / Altura máxima: 2400 mm (vão de 2 folhas)

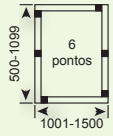
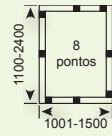


Ferragens para oscilo-batente com transmissão

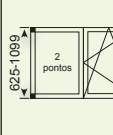
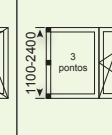
Designação	Referência		
Kit oscilo-batente com transmissão	30 92 22 48 (branco) 30 92 22 49 (preto)	1	
Puxador	30 92 22 54 ou 55 ou 30 92 22 56 ou 57	1	
Compasso pequeno	30 92 22 62	1	
Kit fecho 3º ponto	30 92 22 66		1

Designação	Referência		
Kit oscilo-batente com transmissão	30 92 22 48 (branco) 30 92 22 49 (preto)	1	
Puxador	30 92 22 54 ou 55 ou 30 92 22 56 ou 57	1	
Compasso médio	30 92 22 63	1	
Kit fecho 3º ponto	30 92 22 66		1

Designação	Referência		
Kit oscilo-batente	30 92 22 48 (branco) 30 92 22 49 (preto)	1	
Puxador	30 92 22 54 ou 55 ou 30 92 22 56 ou 57	1	
Compasso grande	30 92 22 64	1	
Kit fecho 3º ponto	30 92 22 66	1	2

Designação	Referência		
Kit oscilo-batente	30 92 22 48 (branco) 30 92 22 49 (preto)	1	
Puxador	30 92 22 54 ou 55 ou 30 92 22 56 ou 57	1	
Compasso grande	30 92 22 64	1	
Compasso suplementar	30 92 22 65	1	
Kit fecho 3º ponto	30 92 22 66	1	2

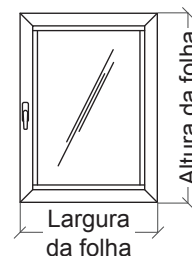
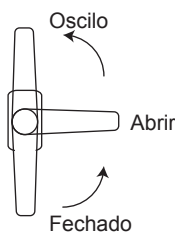
Ferragens para a 2ª folha

Designação	Referência		
Kit dobradiça 2ª folha	30 92 22 68 (branco) 30 92 22 69 (preto)	1	
Kit fechos para 2ª folha	30 92 22 70	1	
Conjunto ponto fecho suplementar	30 92 22 71		1

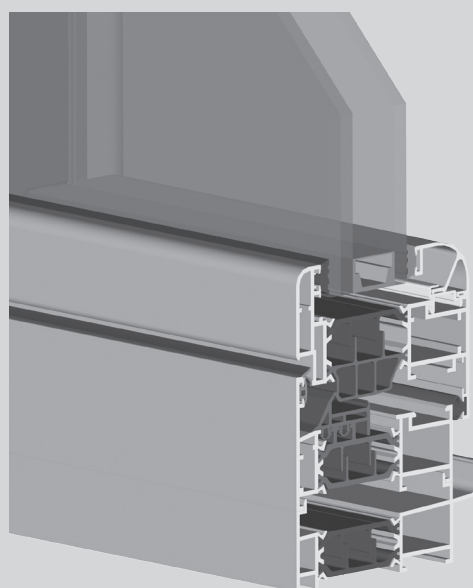
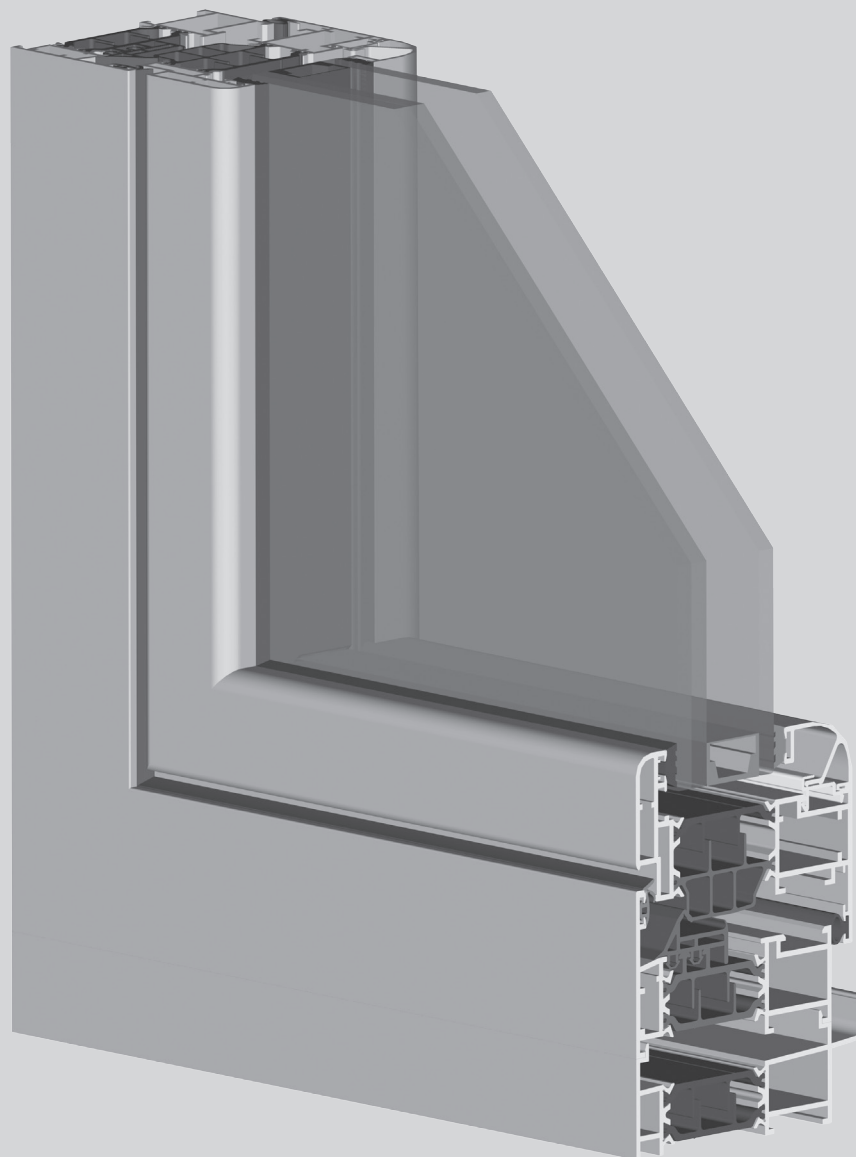
Peso máximo da folha: 120 kg (alumínio + vidro)

(confirmar com o quadro de dimensão/aplicação do mapa de montagem da ferragem O-B)

Largura mínima: 340 mm / Largura máxima: 1500 mm
 Altura mínima: 500 mm / Altura máxima: 2400 mm (vão de 1 folha)
 Altura mínima: 625 mm / Altura máxima: 2400 mm (vão de 2 folhas)



As medidas indicadas reportam-se às dimensões da folha móvel do vão



Sistema

AKi

Sistema AKi

Sistema de batente com RPT - 75 mm

Características do sistema

Sistema de batente com rotura térmica de elevadas prestações térmicas e acústicas.

O sistema AKi possibilita a execução de 5 versões de caixilharia:

1. Linha recta;
2. Linha curva;
3. Linha tradição;
4. Linha oval;
5. Folha Oculta 3D.

O sistema AKi permite a aplicação de vidros duplos ou triplos de alto rendimento de modo a responder às exigências de isolamento térmico e acústico.

A versão AKi Folha Oculta permite a ocultação do aro móvel.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02;

Rotura térmica obtida por inserção de varetas isolantes de poliamida tipo ómega de 39 mm, reforçadas com 25% de fibra de vidro;

Espessura média dos perfis de alumínio de 1.5 mm para janelas e de 1.7 mm para portas.

Aros fixos

Secção dos aros fixos de 75 mm ou 99.5 mm com tripla câmara;

Aros fixos com esquadros duplos para montagem a meia esquadria;

Aros fixos tradicionais para mercado interno;

Aros fixos com clip exterior e aba de remate direta de 25 mm ou 45 mm;

Aros fixos com clip exterior e interior para aplicação de remate de 30 mm.

Aros móveis

Secção dos aros móveis de 83 mm com tripla câmara;

Enchimento para vidro duplo ou triplo de 24 mm a 60 mm no sistema AKi;

Enchimento para vidro duplo ou triplo até 34 mm no sistema AKi Folha Oculta 3D;

Aros móveis de linha recta, curva ou tradição;

Aros móveis com esquadros duplos para montagem a meia esquadria;

Perfil inversor de linha recta.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 457 mm - 1700 mm (L); 600 mm - 2700 mm (H);

Possibilidades de abertura: fixo, batente interior 1 ou 2 folhas com oscilo-batente, exterior, basculante, projectante, pivotante, harmónio e oscilo-paralela;

Estanquidade assegurada através de juntas triplas em EPDM.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema AKi tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E750 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema AKi tipologia porta:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E1200 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)
4. Resistência à torção estática: Apto 350N (norma de ensaio EN 14609)

Categorias alcançadas na avaliação do sistema AKi - Folha Oculta 3D tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 8A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Coefficiente de transmissão térmica de vão de 2 folhas, sistema AKi, com 1.20 m x 1.50 m com vidro $U_g = 0.5 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.00 \text{ W/m}^2\text{K}$

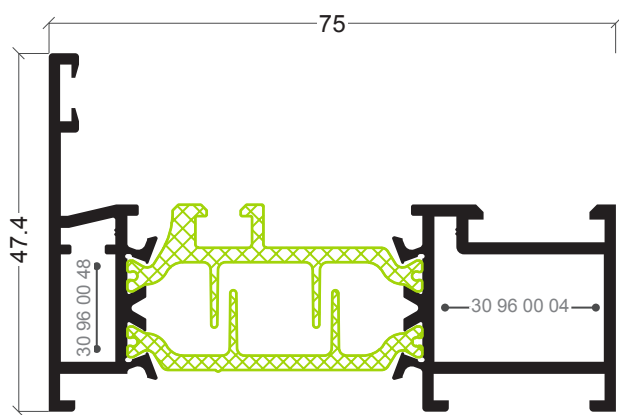
Coefficiente de transmissão térmica de vão de 2 folhas, sistema AKi - Folha Oculta 3D, com 1.80m x 2.20m com vidro $U_g = 0.7 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.11 \text{ W/m}^2\text{K}$

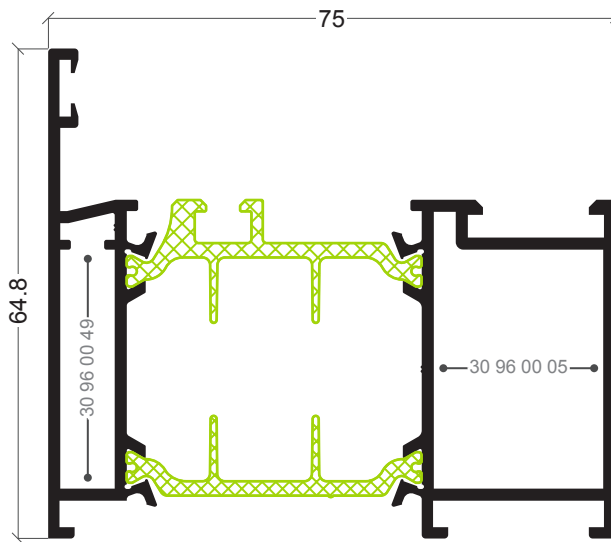
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 5/16/5:

• $R_w \text{ (C; Ctr)} = 35 \text{ dB (-2; -4)}$

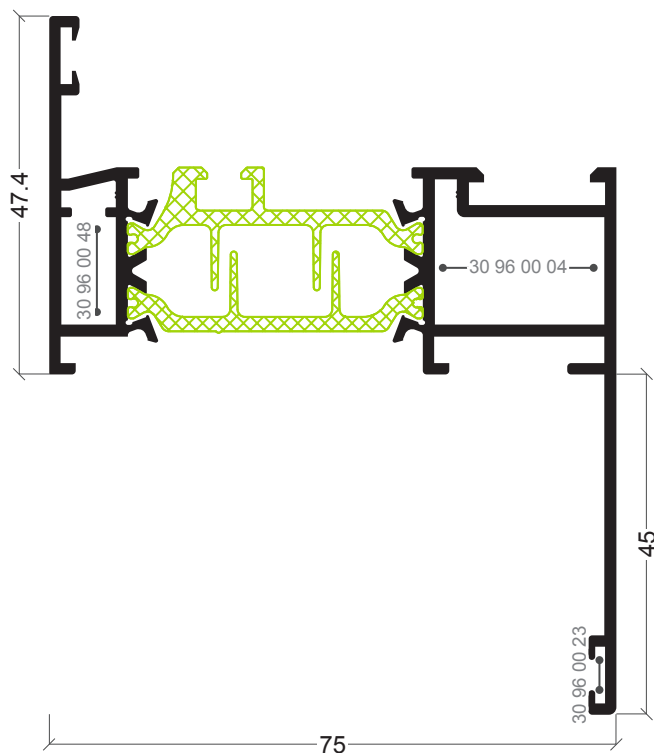
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3.



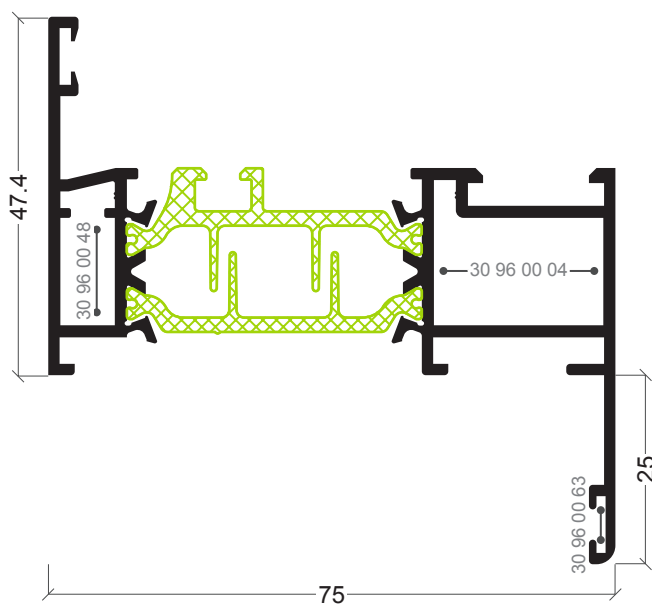
AKi-03
Aro fixo



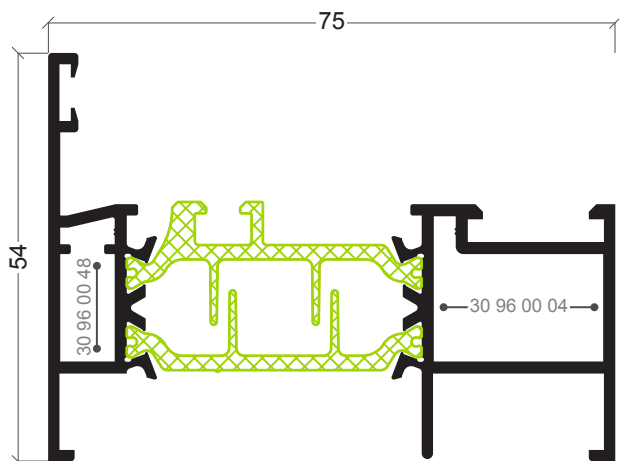
AKi-08
Aro fixo



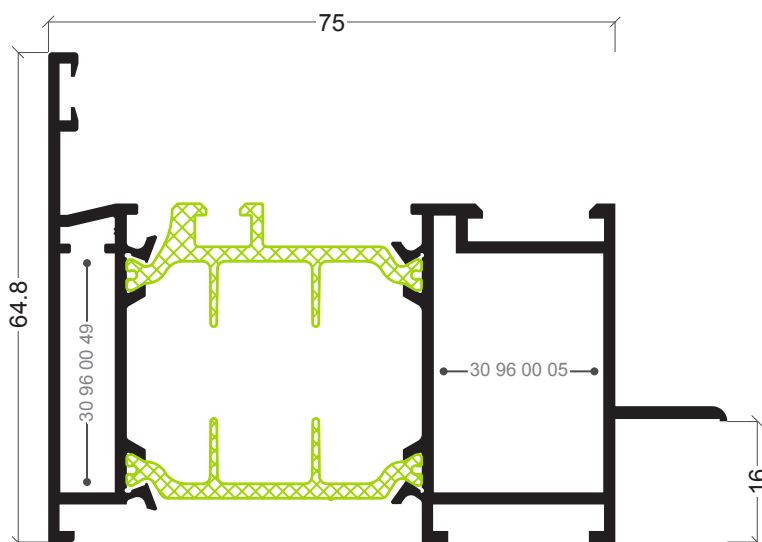
AKi-33
Aro fixo com remate 45 mm



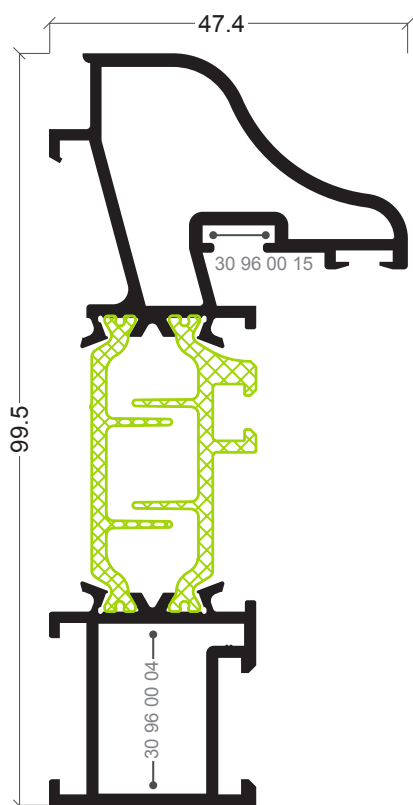
AKi-35
Aro fixo com remate 25 mm



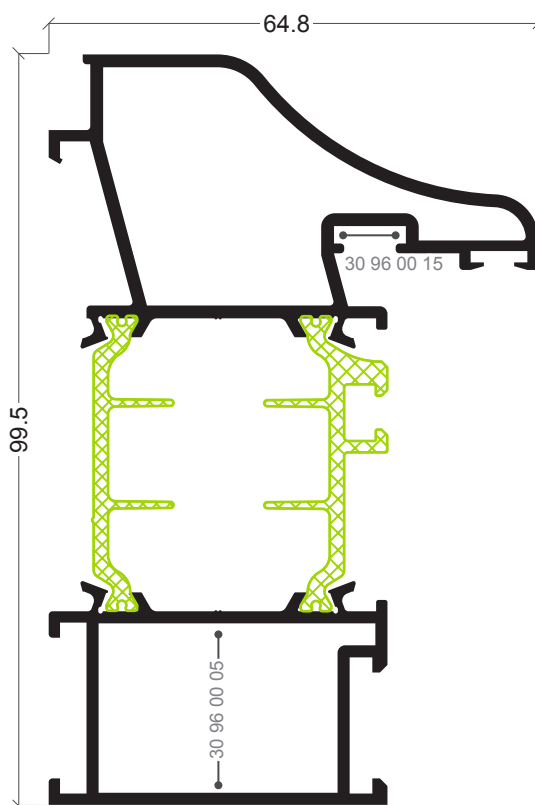
AKi-81
Aro fixo



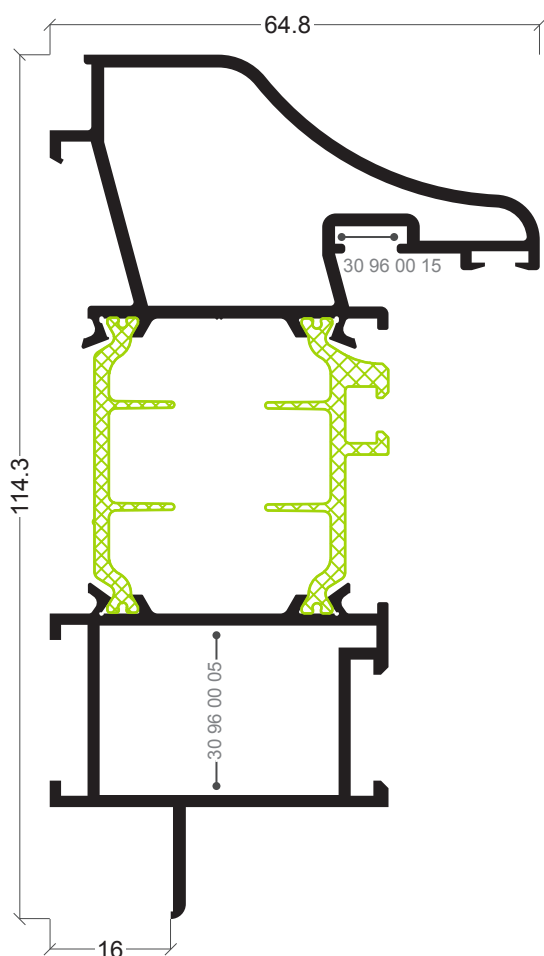
AKi-68
Aro fixo para apanelado



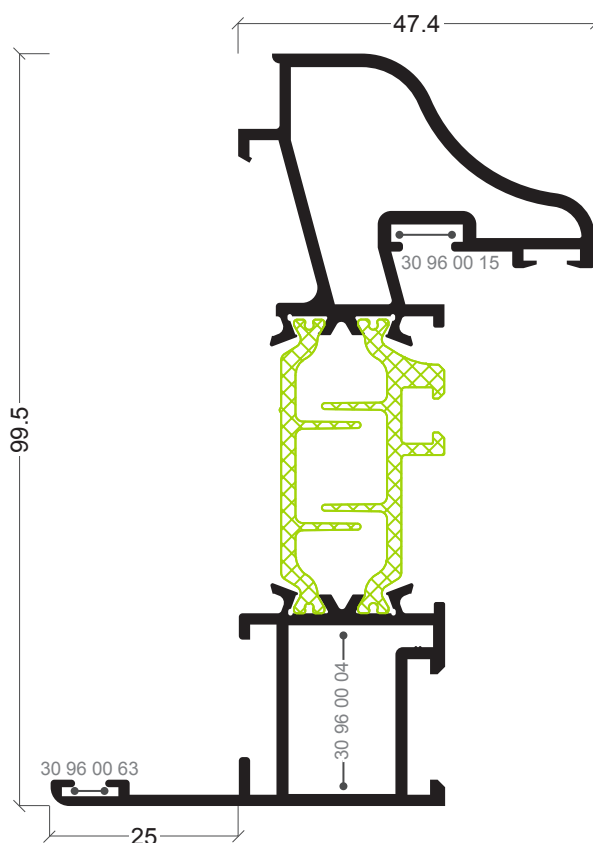
AKi-57
Aro fixo



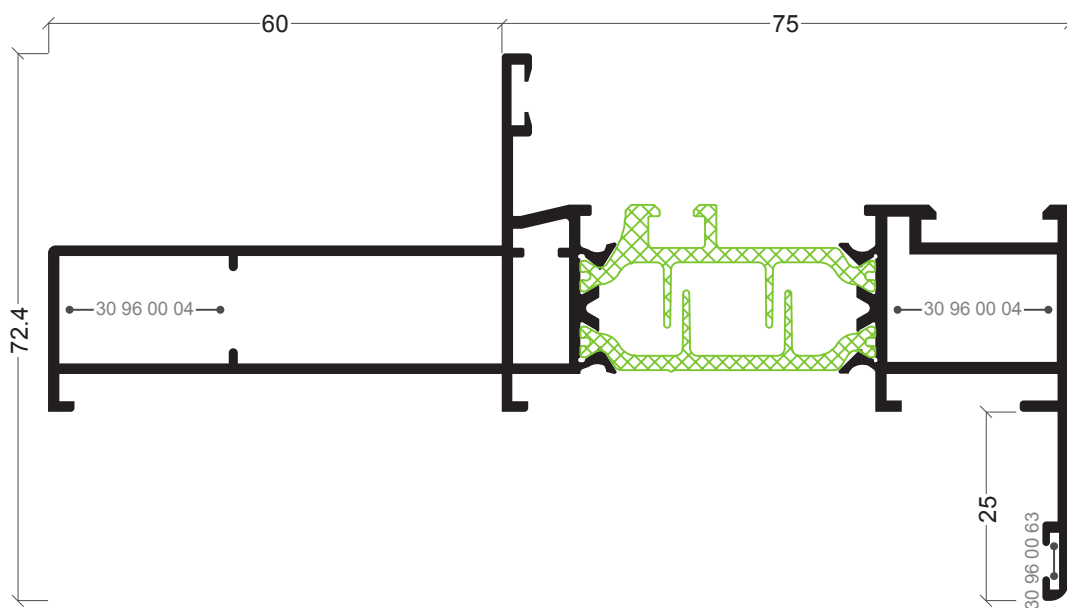
AKi-59
Aro fixo



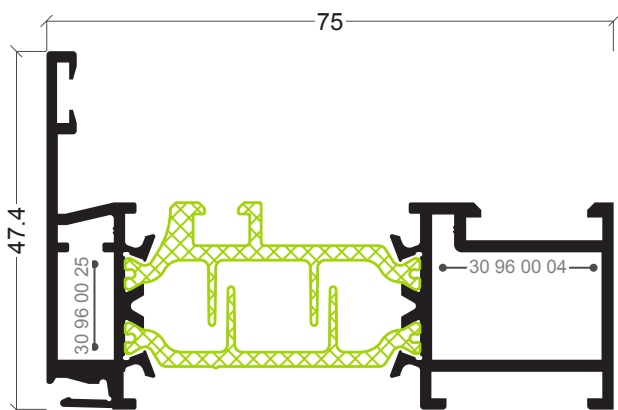
AKi-69
Aro fixo para apanelado



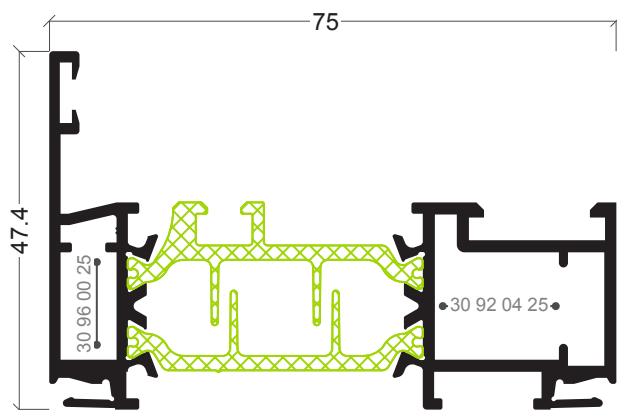
AKi-77
Aro fixo com remate



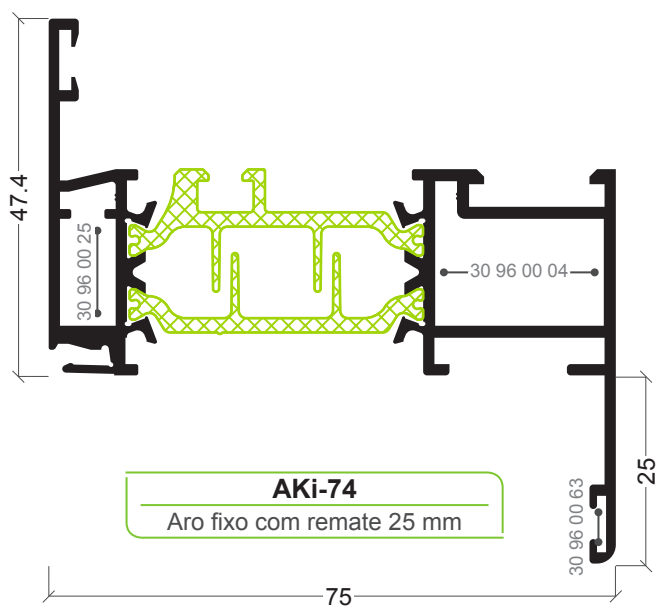
AKi-86
Aro fixo com remate



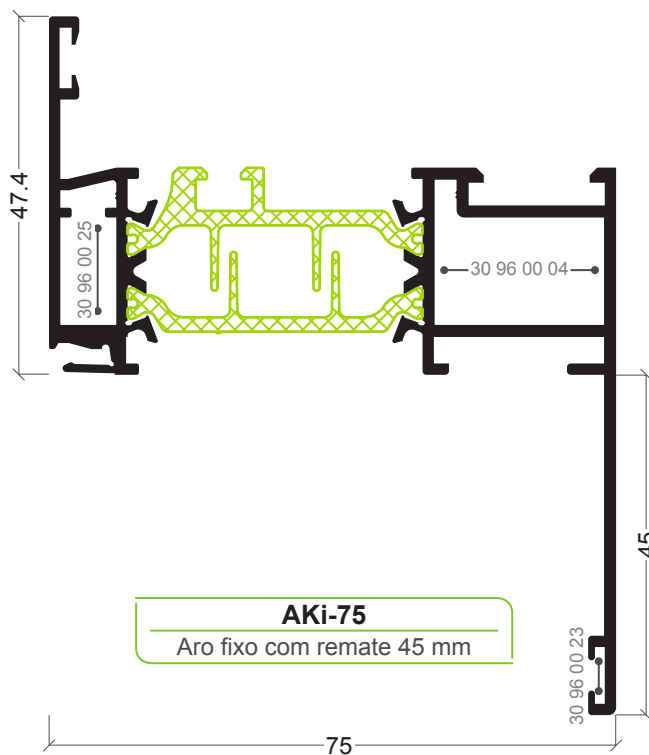
AKi-76
Aro fixo



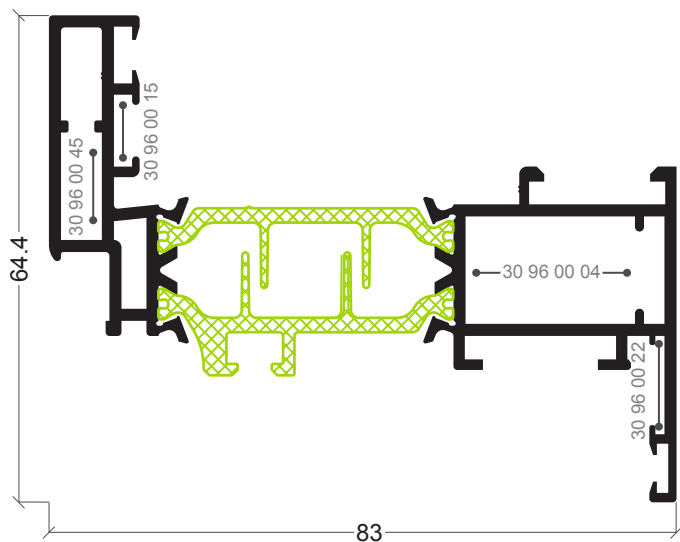
AKi-80
Aro fixo com clip interior/exterior



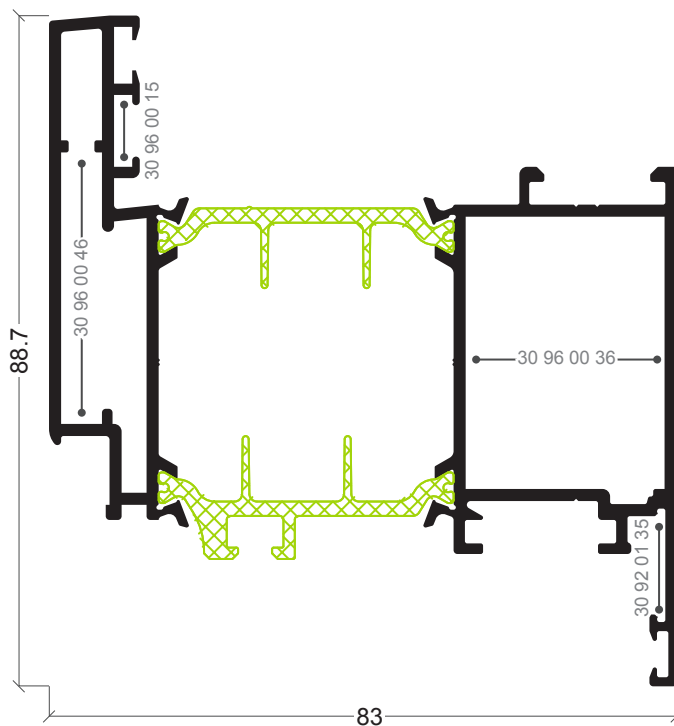
AKi-74
Aro fixo com remate 25 mm



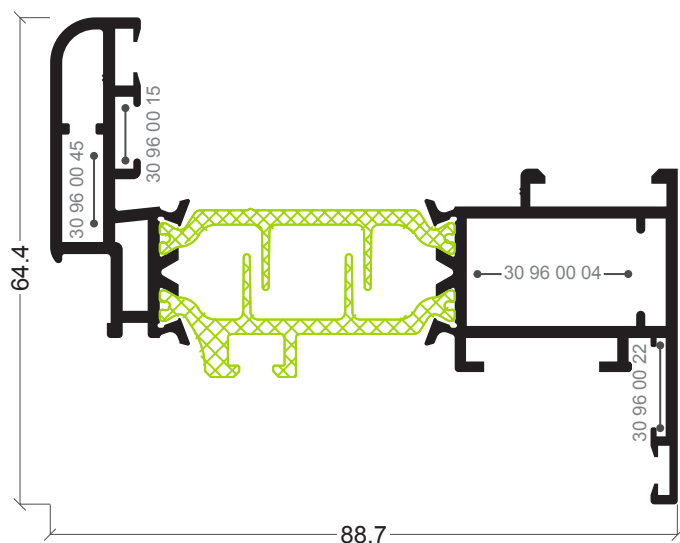
AKi-75
Aro fixo com remate 45 mm



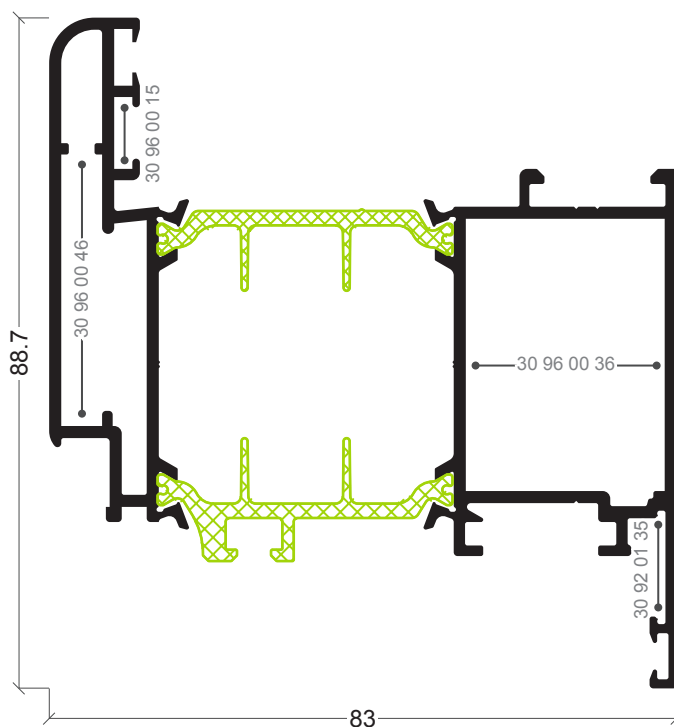
AKi-61
Aro móvel



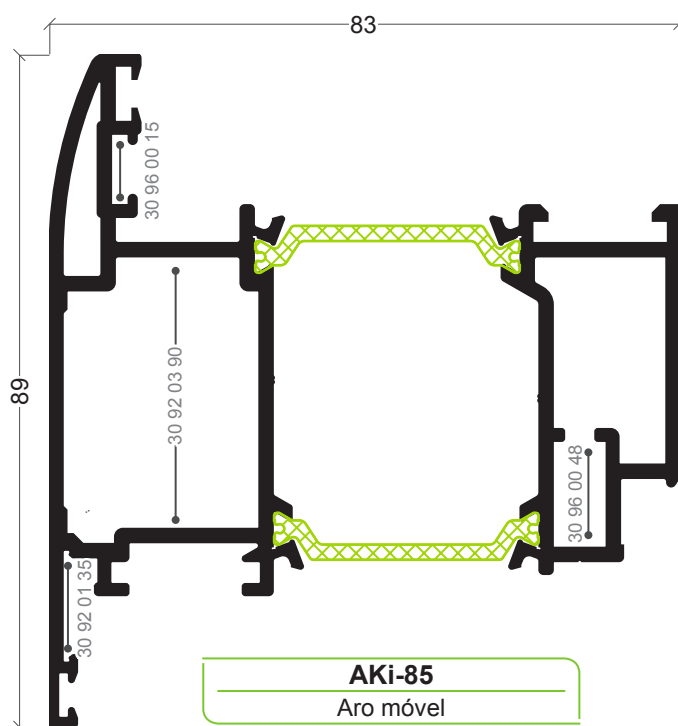
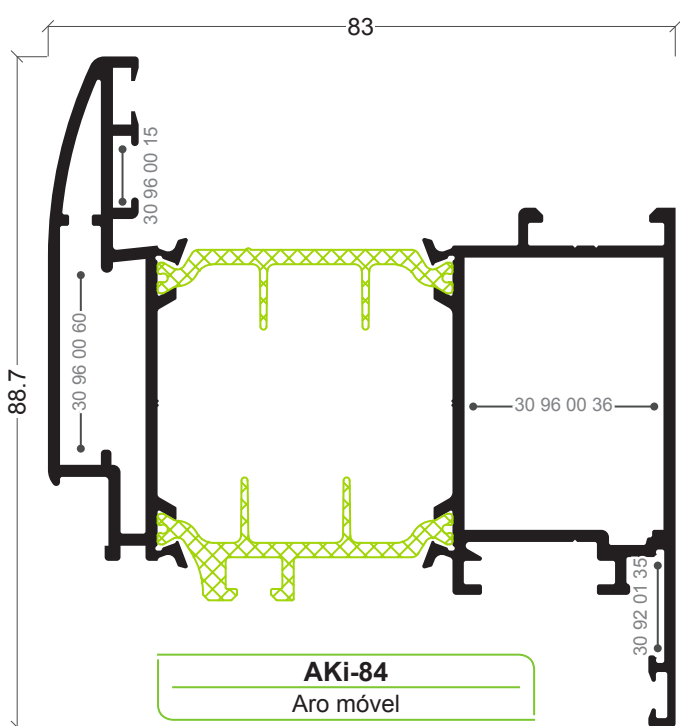
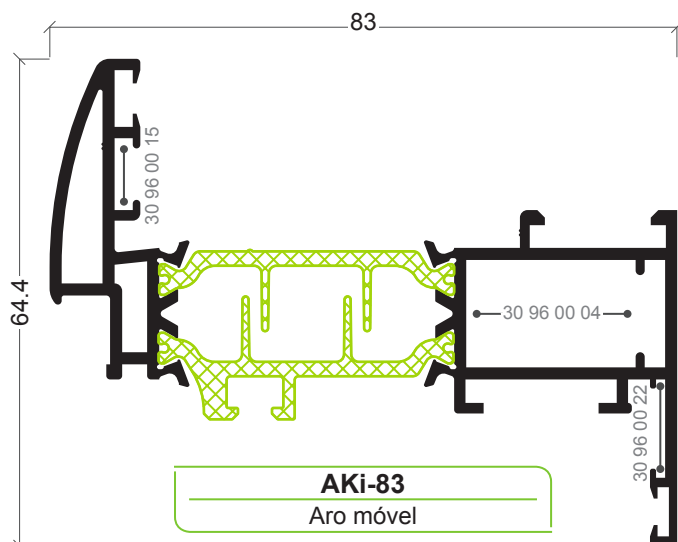
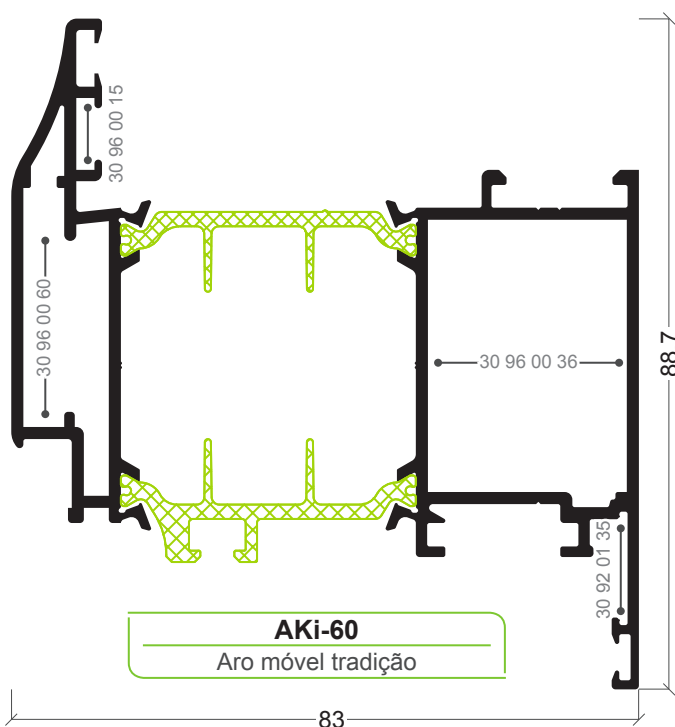
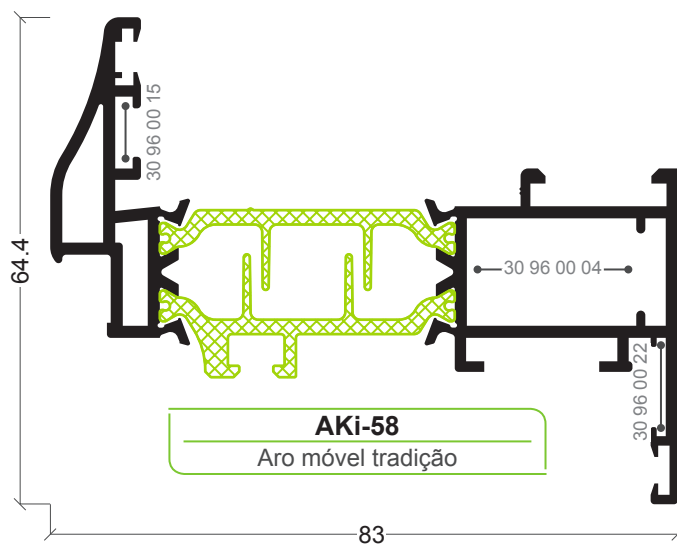
AKi-36
Aro móvel

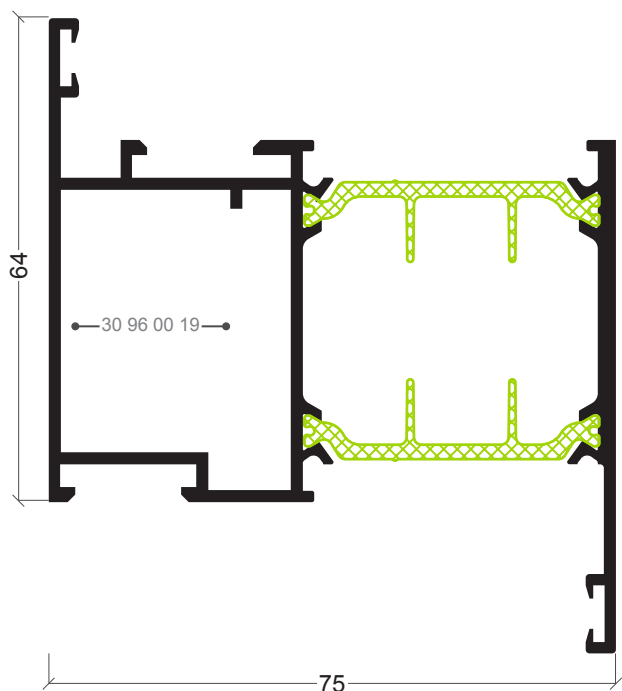


AKi-05
Aro móvel

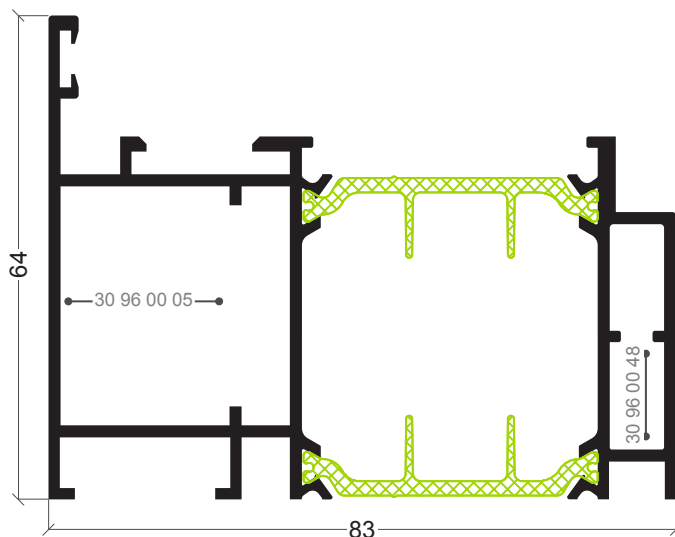


AKi-10
Aro móvel

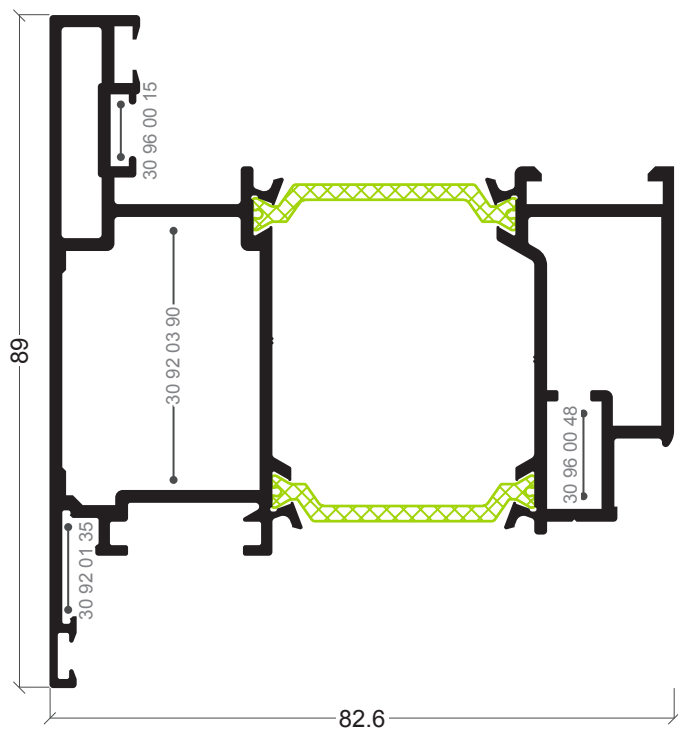




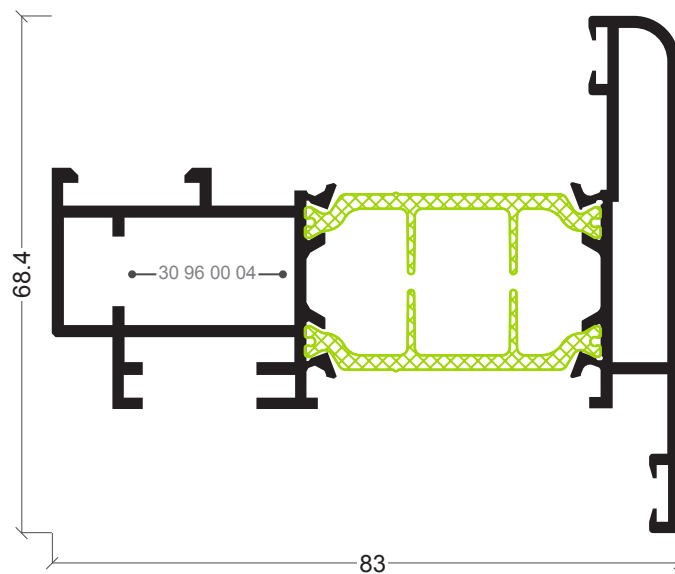
AKi-11
Aro fixo ab.exterior c/ fixo lateral



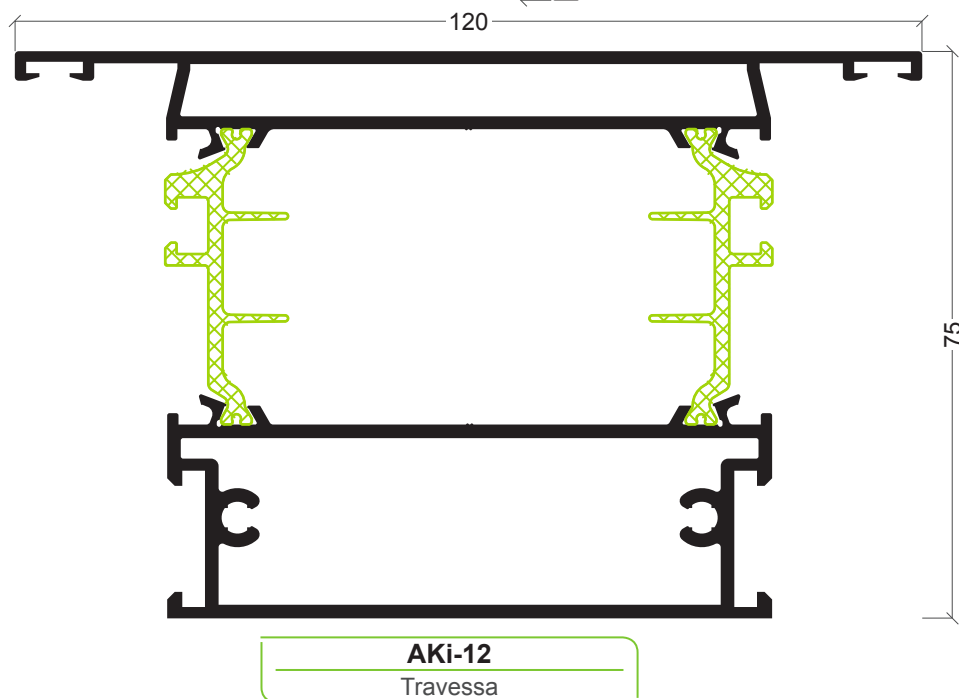
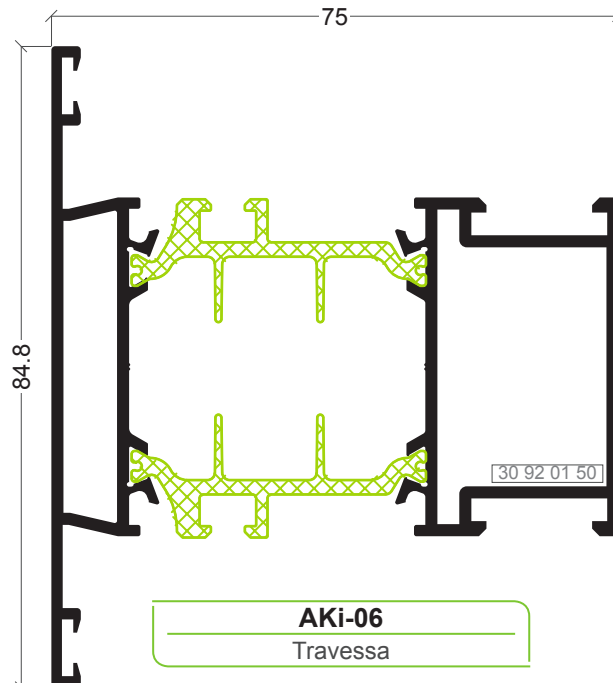
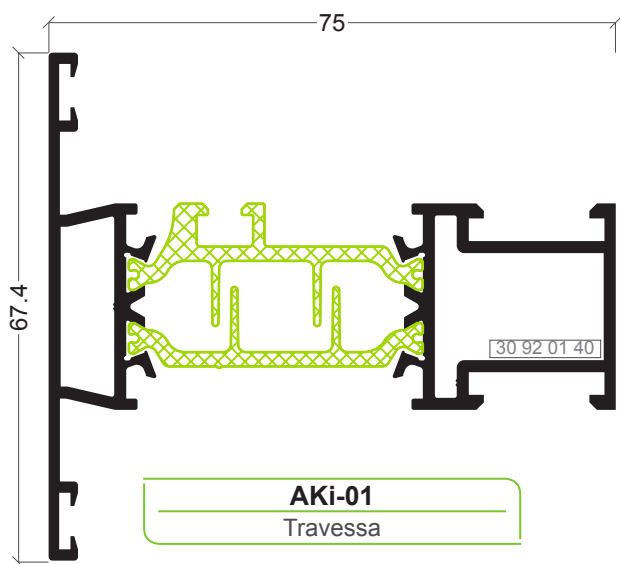
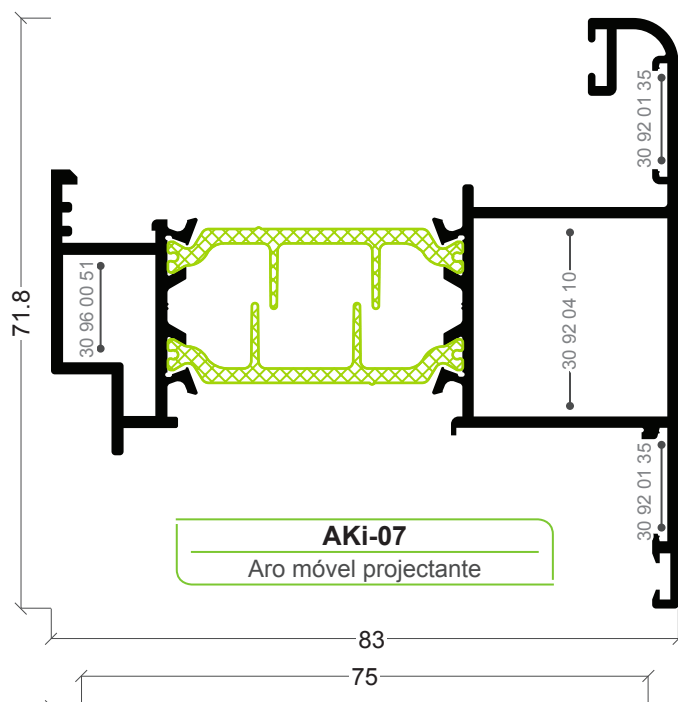
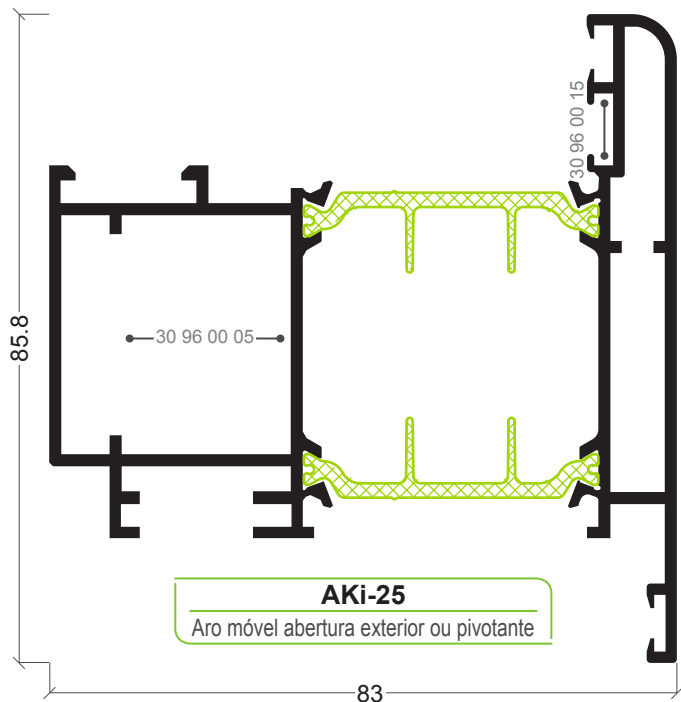
AKi-09
Aro fixo abertura exterior AKi-25

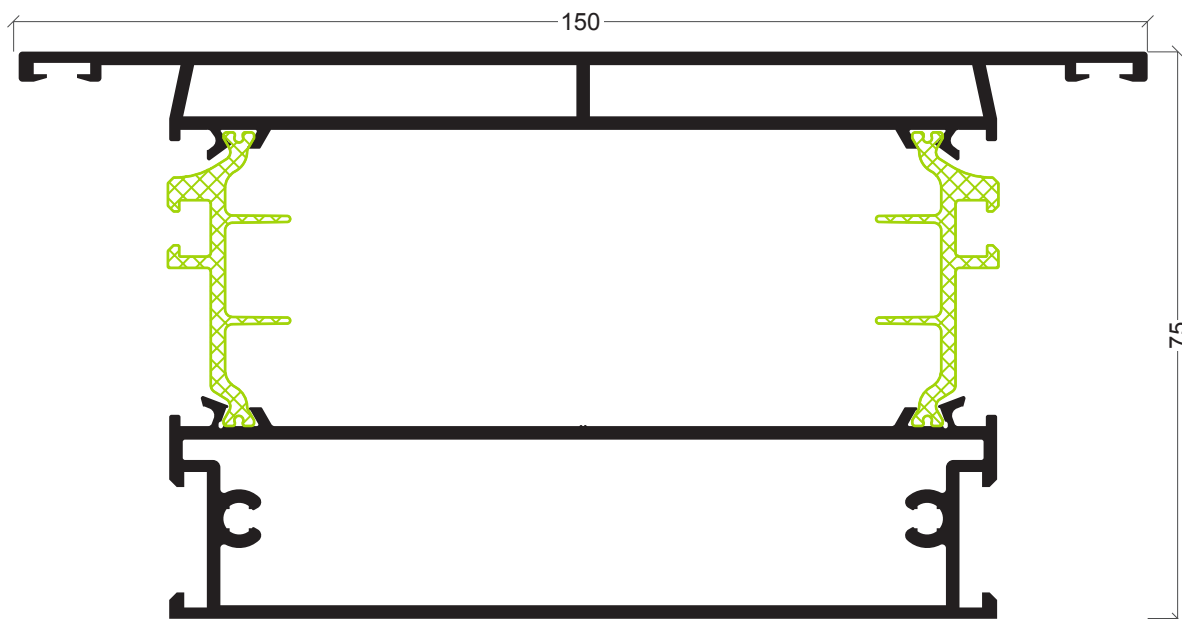


AKi-72
Aro móvel abertura exterior

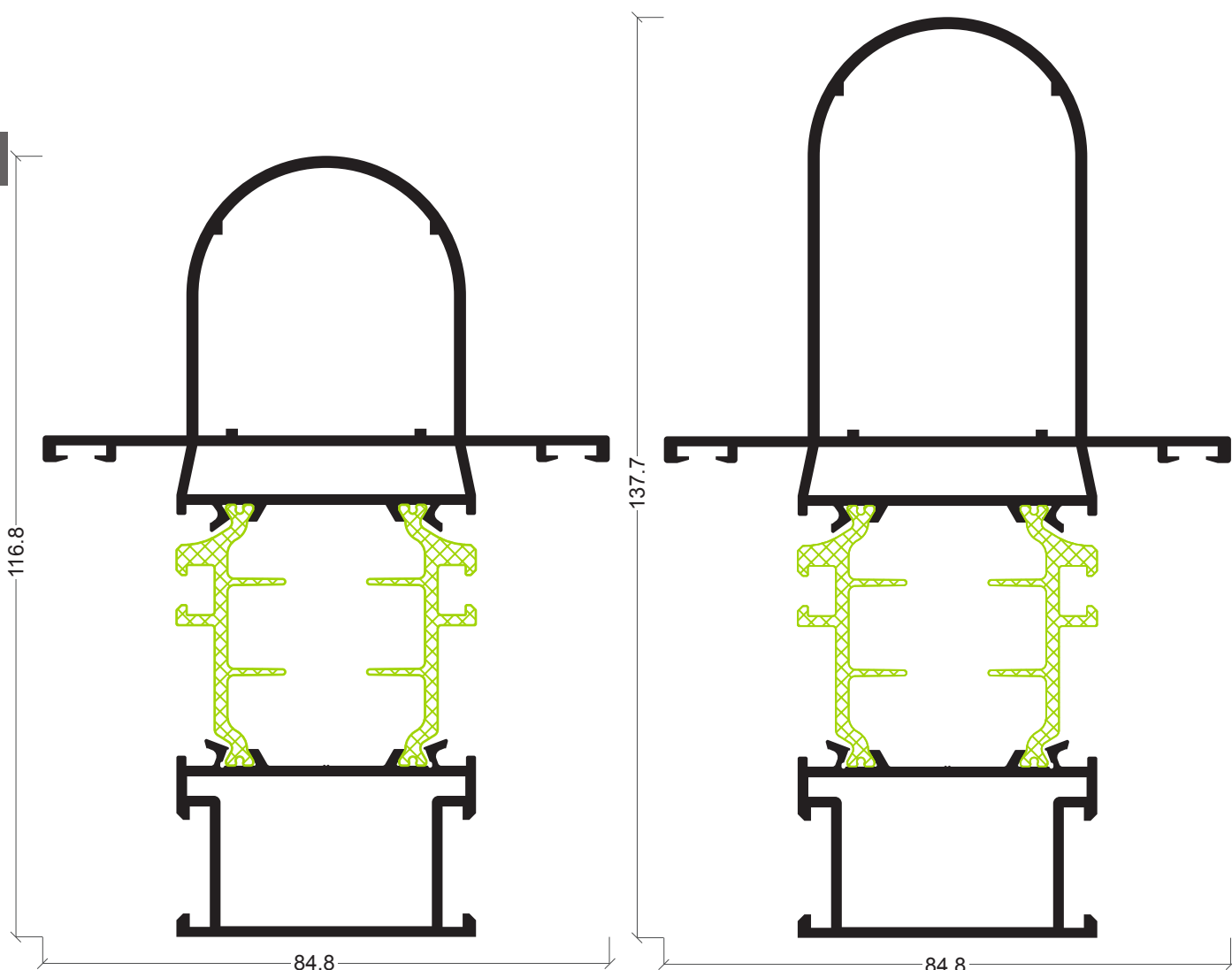


AKi-02
Aro móvel pivotante



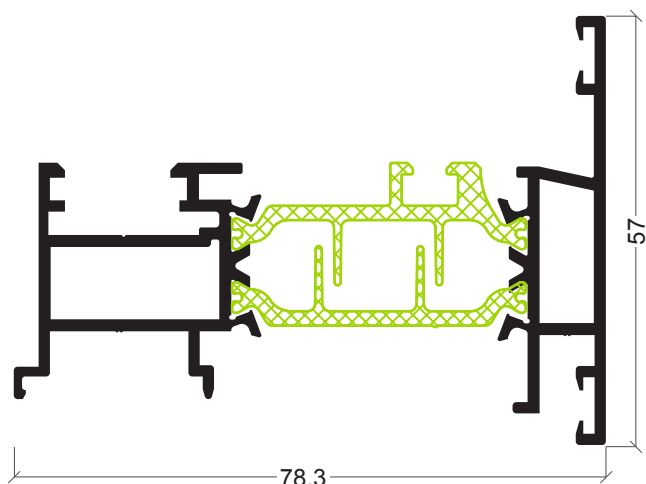


AKi-13
Travessa

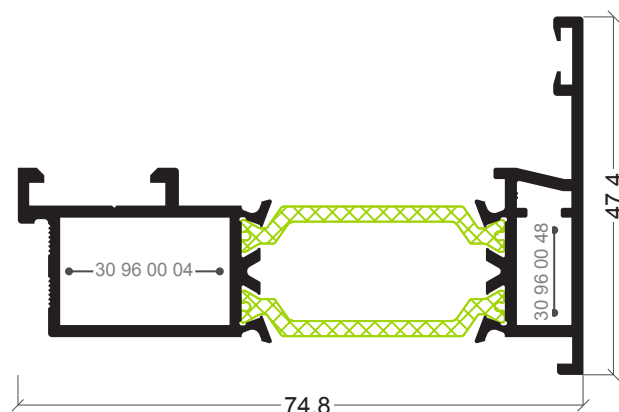


AKi-17
Montante

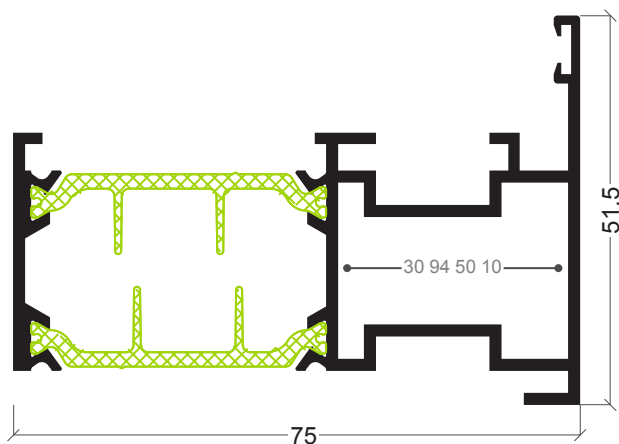
AKi-18
Montante



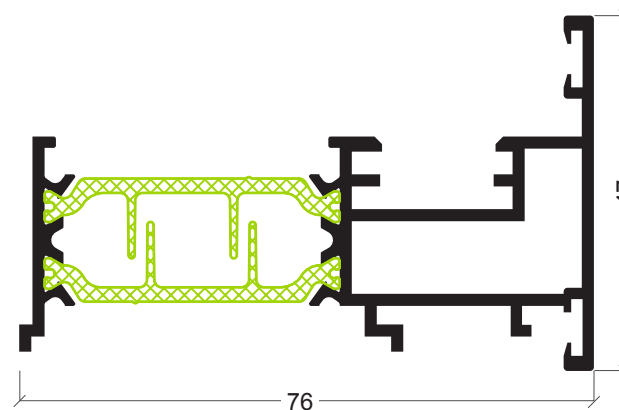
AKi-04
Inversor



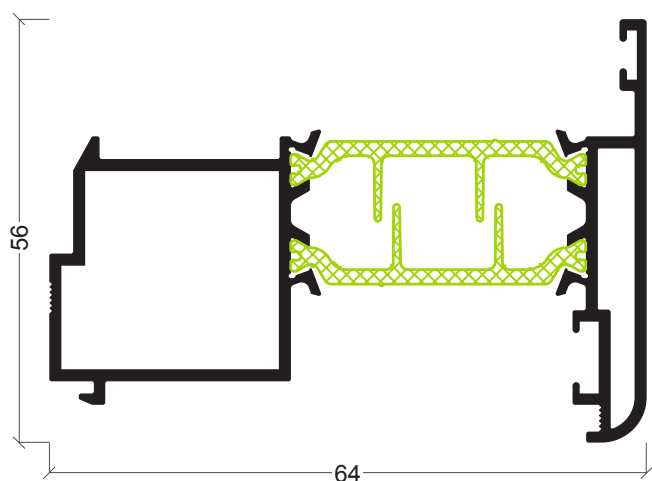
AKi-73
Inversor de sentido de abertura



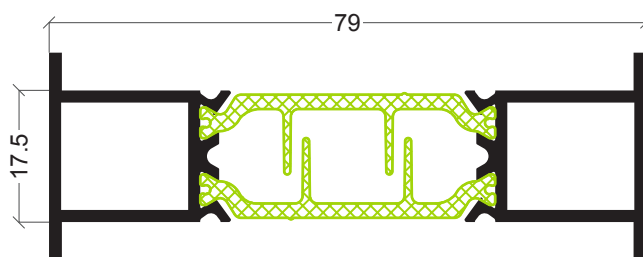
AKi-14
Inversor pivotante



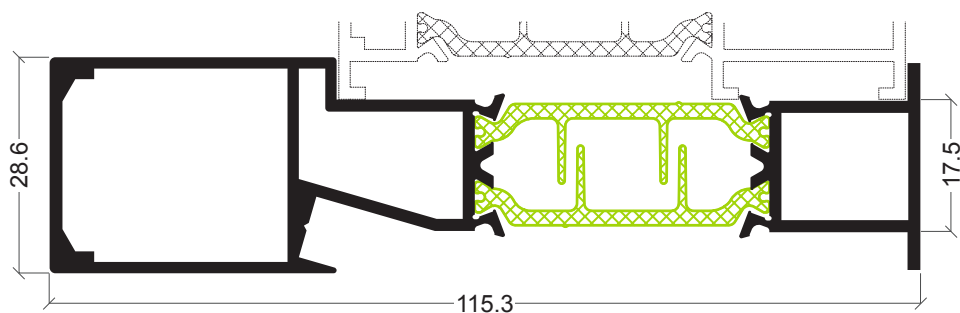
AKi-15
Inversor para AKi-25



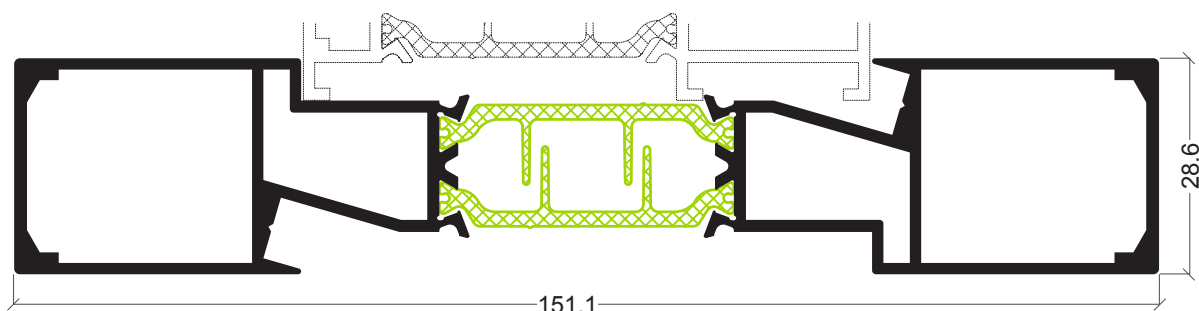
AKi-51
Inversor projectante



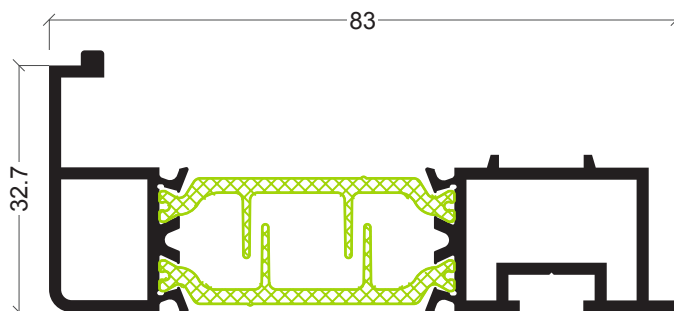
AKi-21
União de aros



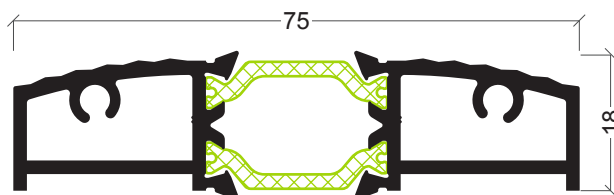
AKi-65
União de aros com reforço



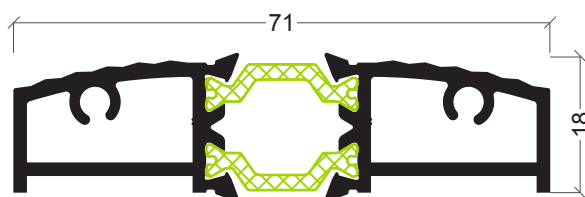
AKi-67
União de aros com reforço



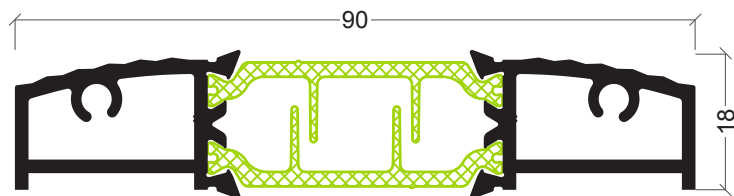
AKi-23
Remate almofada



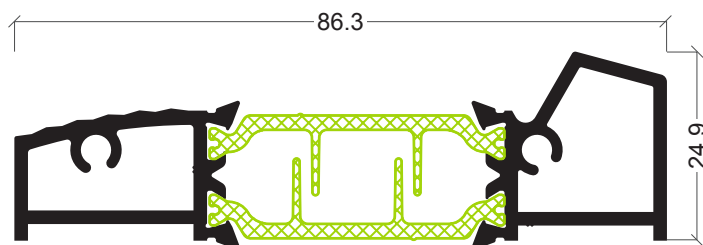
ATi-69
Remate inferior porta



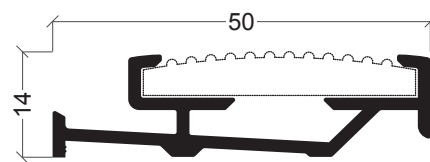
AKi-82
Remate inferior porta



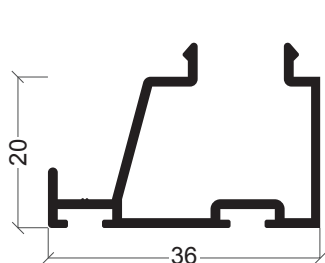
AKi-70
Remate inferior porta



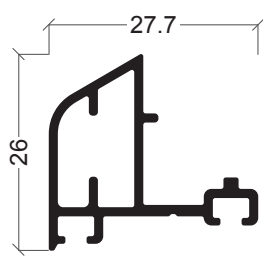
AKi-63
Remate inferior porta



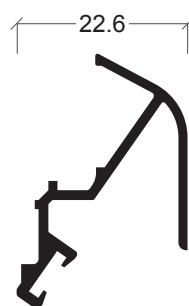
AZ-69
Remate inferior porta



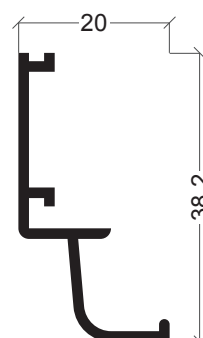
AX-15
Bite remate



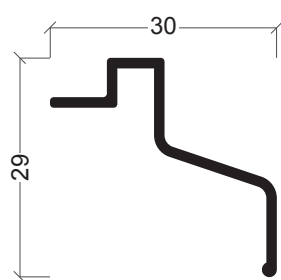
AZ-79
Pingadeira



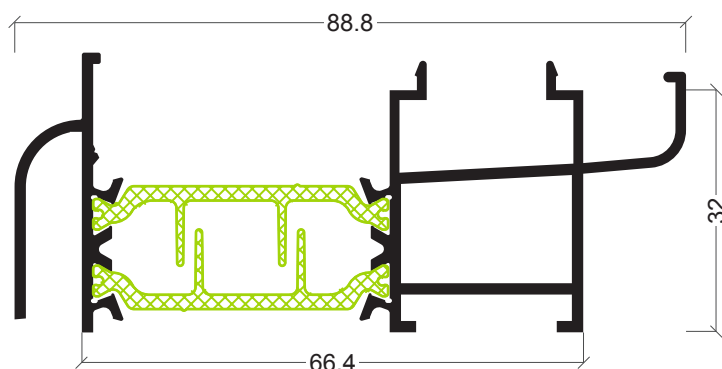
ARi-62
Pingadeira inferior porta



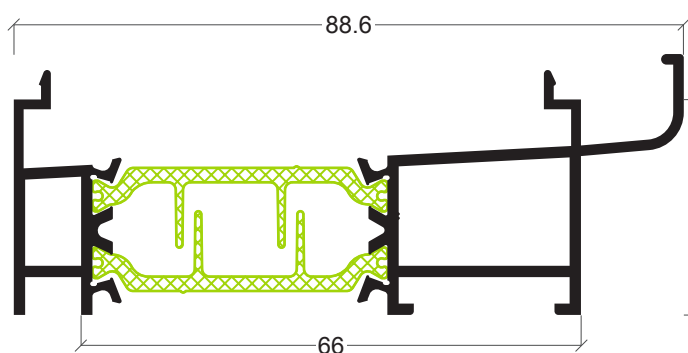
ARi-32
Complemento condensação



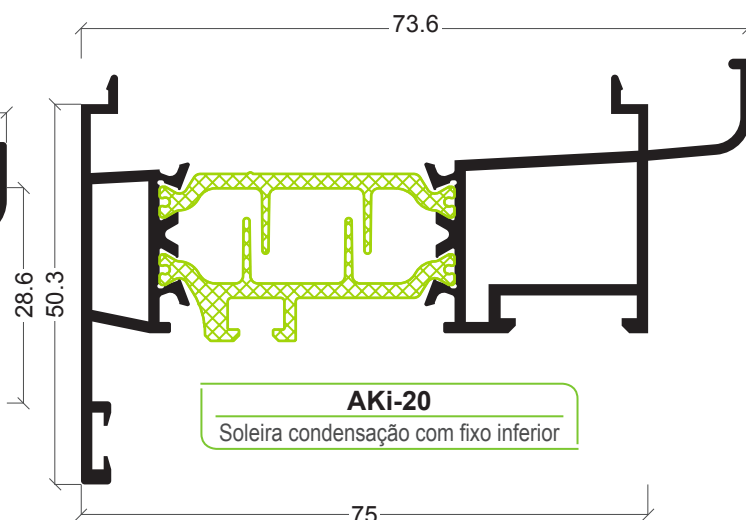
AXi-45
Pingadeira



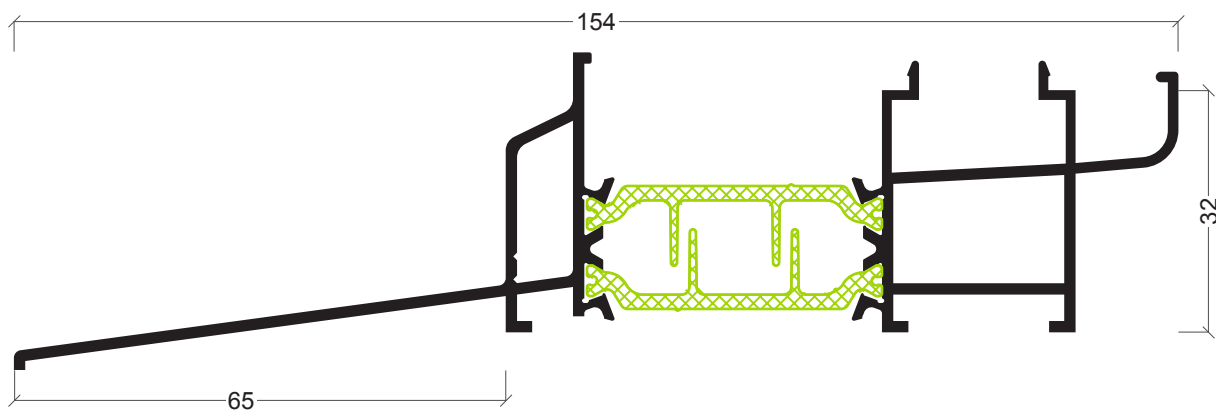
AKi-49
Soleira condensação



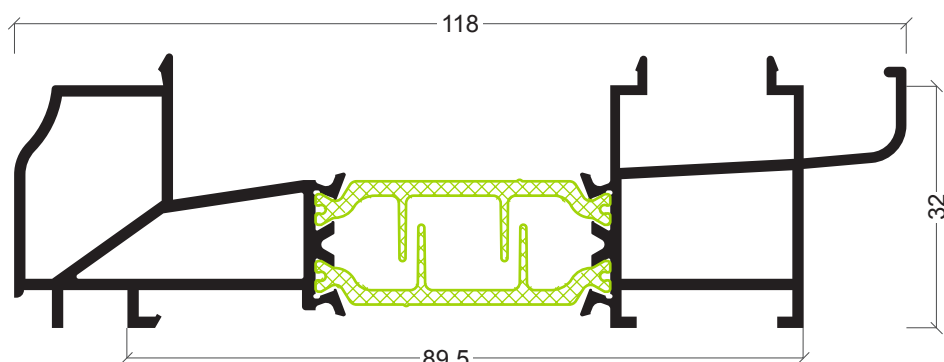
AKi-71
Soleira condensação



AKi-20
Soleira condensação com fixo inferior



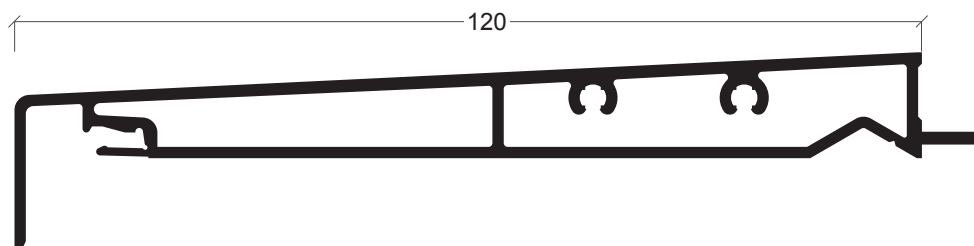
AKi-50
Soleira condensação com pingadeira



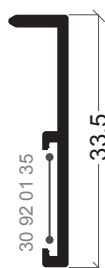
AKi-56
Soleira condensação tradição



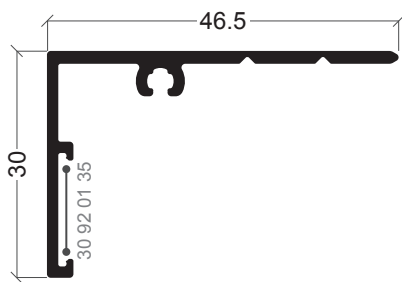
AXi-91
Complemento remate



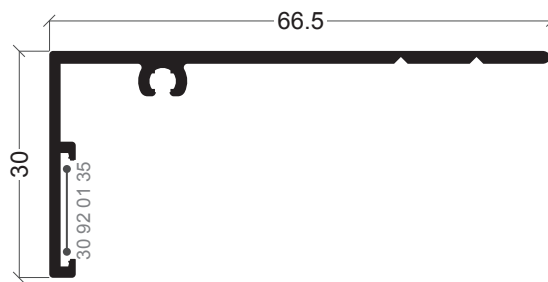
AXi-74
Remate soleira



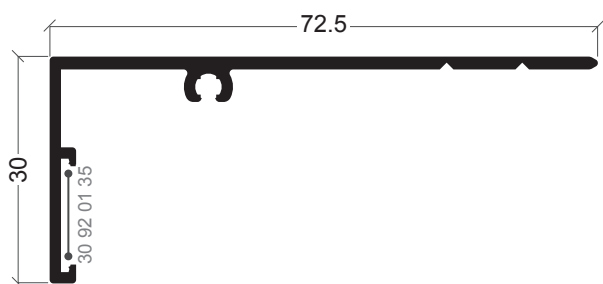
AXi-88
Complemento remate



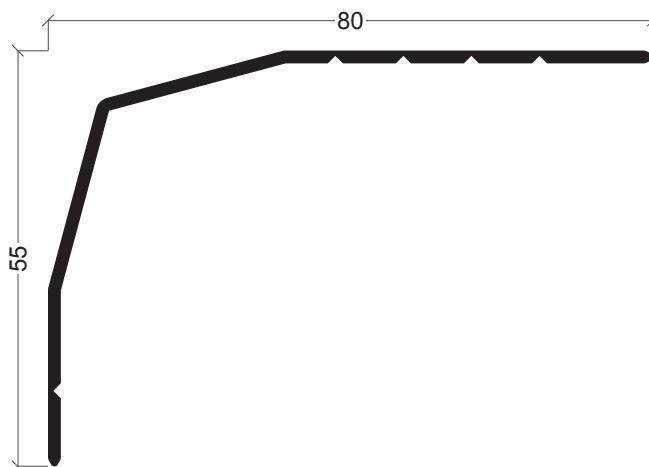
AXi-80
Remate



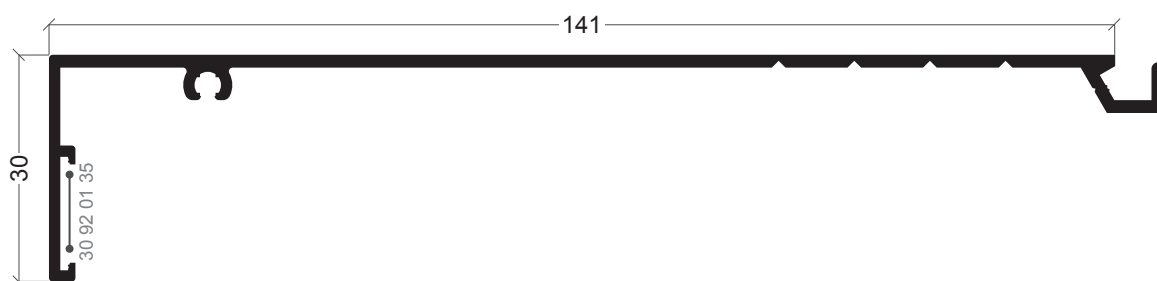
AXi-73
Remate



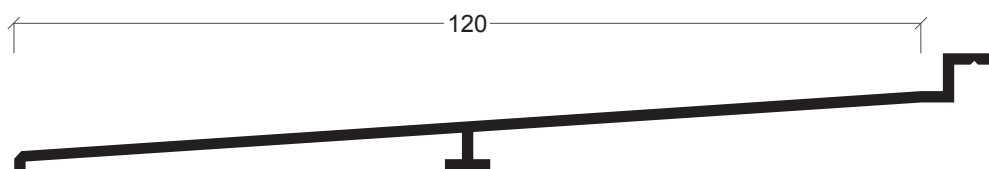
AXi-83
Remate



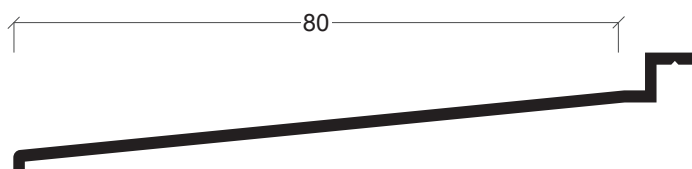
AXi-72
Remate



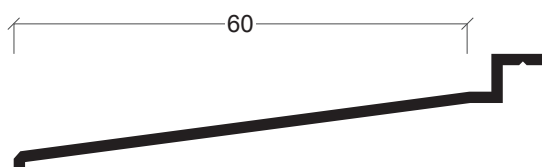
S-09
Remate



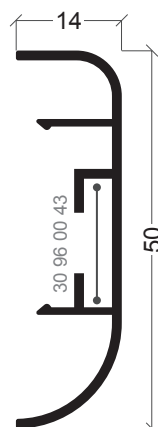
AZ-24
Pingadeira 120 mm



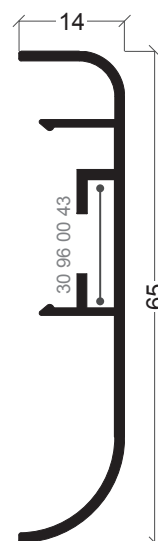
AZ-30
Pingadeira 80 mm



AZ-23
Pingadeira 60 mm



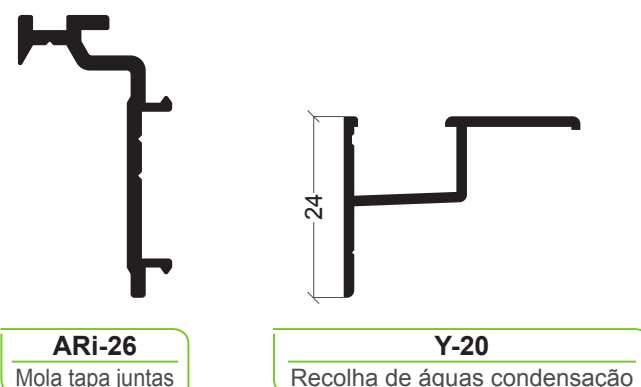
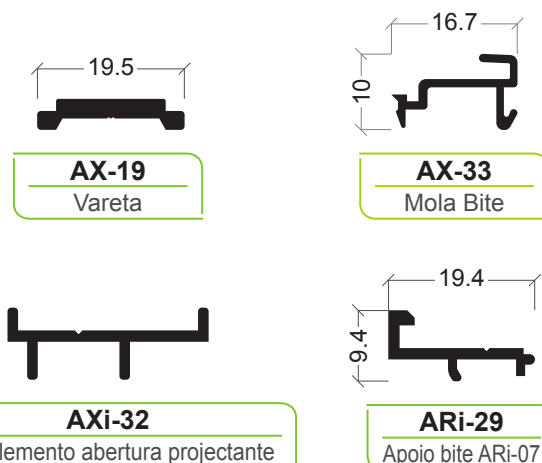
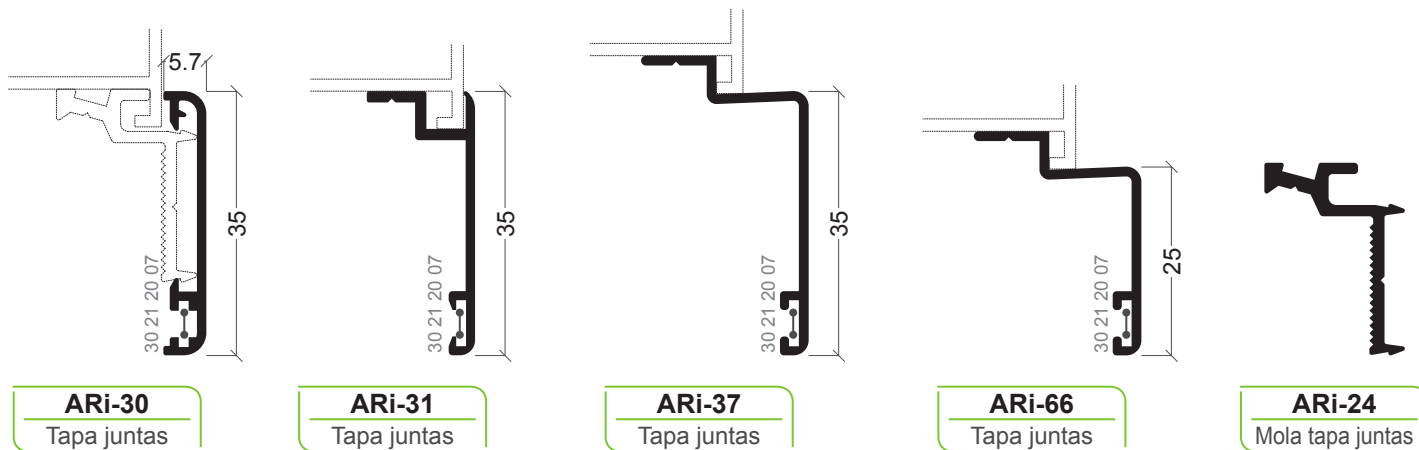
ARi-27
Tapa juntas



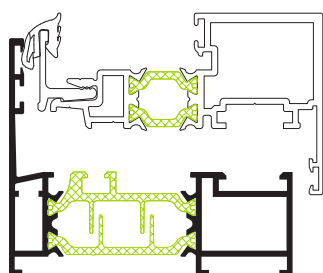
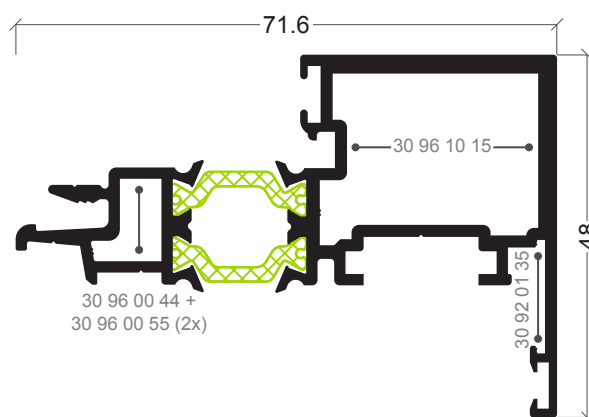
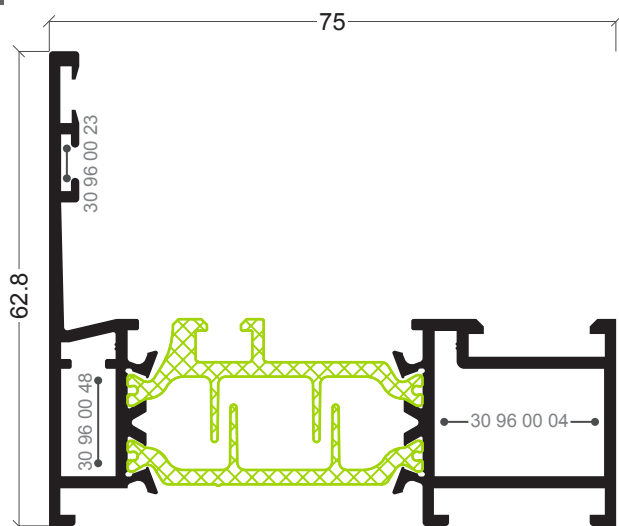
ARi-34
Tapa juntas

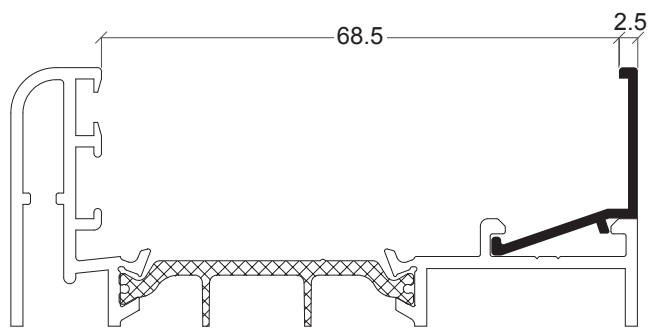


ARi-28
Tapa juntas

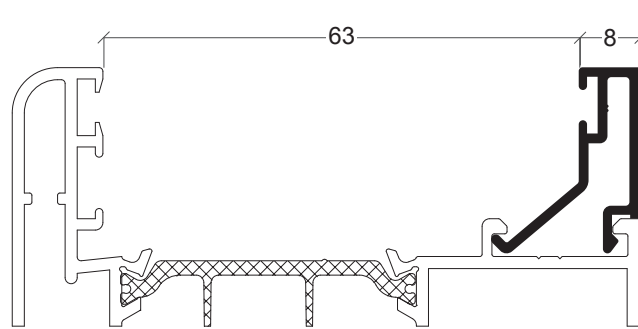


136

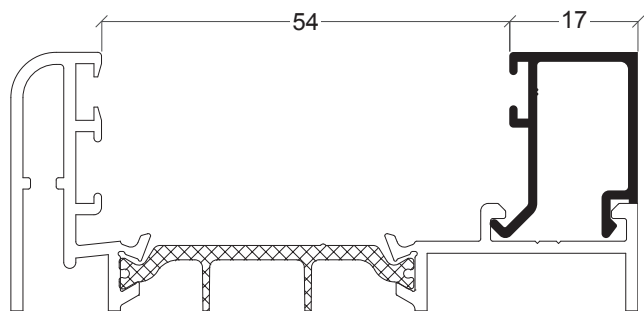




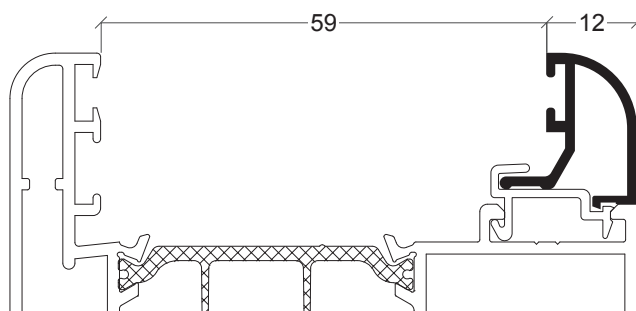
AX-69



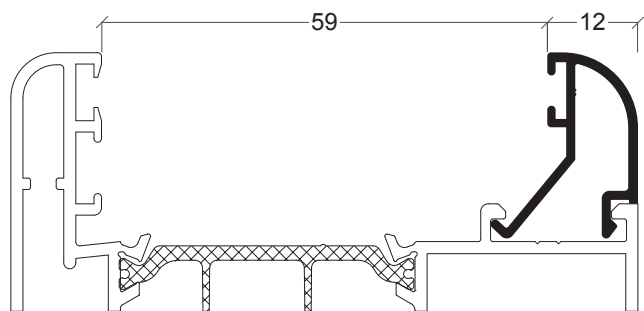
AX-74



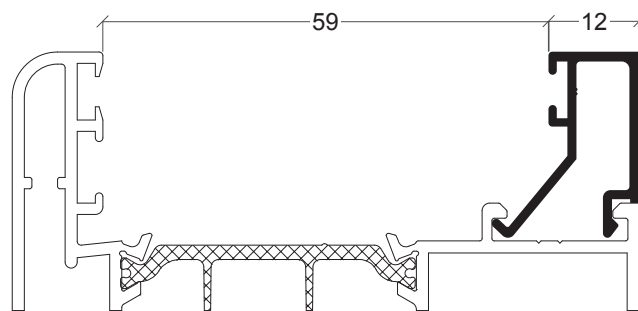
AX-46



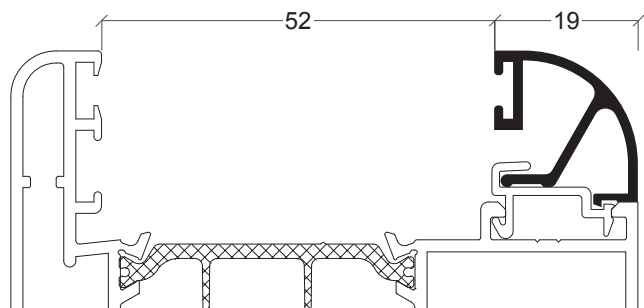
AX-37



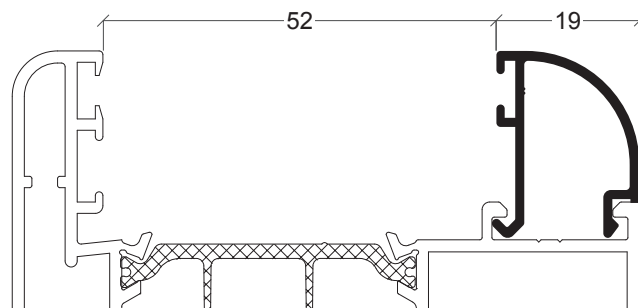
AZ-08



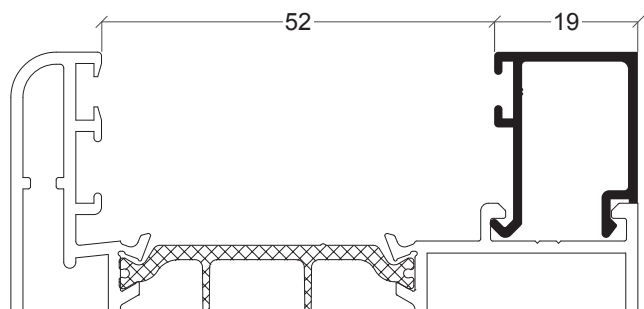
AX-36



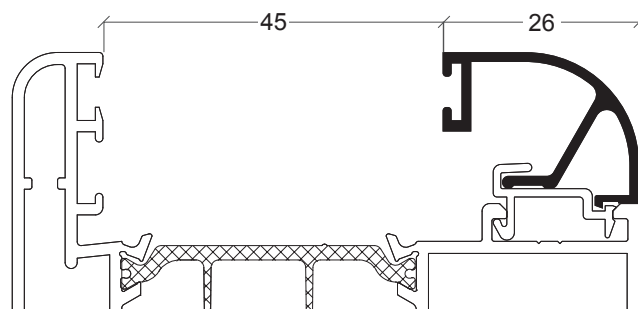
AX-30



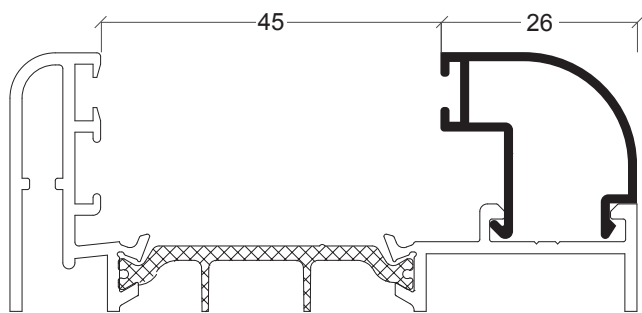
AZ-07



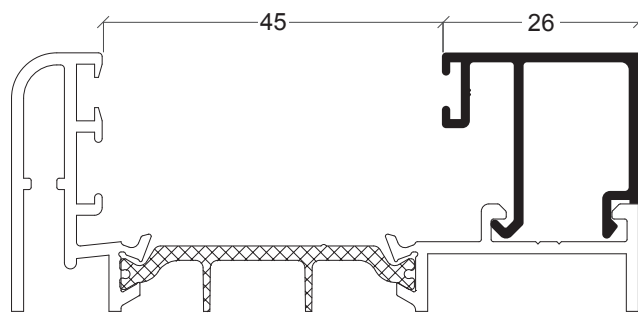
AX-35



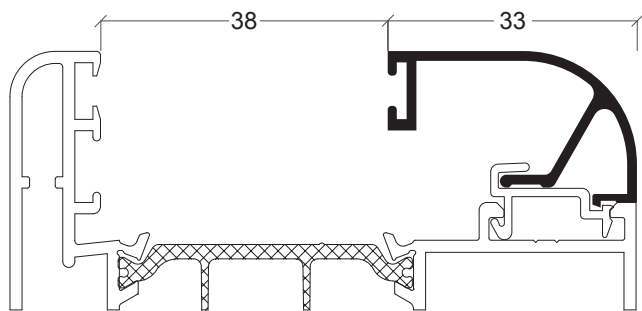
AX-29



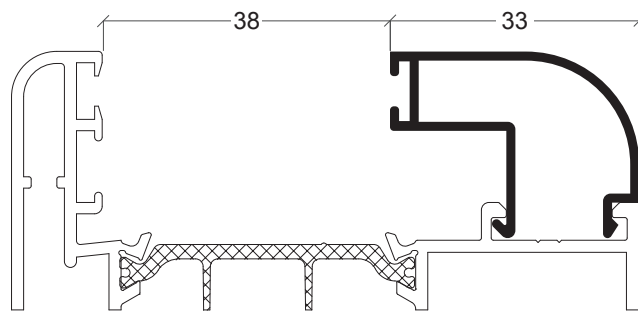
AZ-06



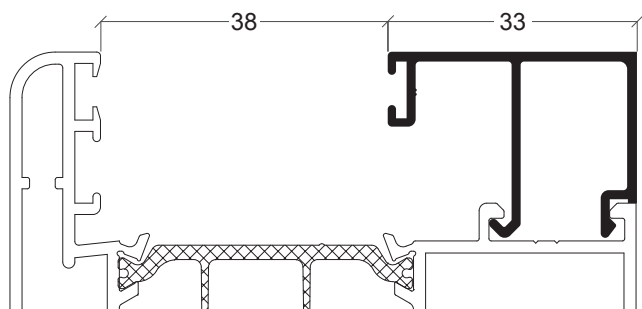
AX-31



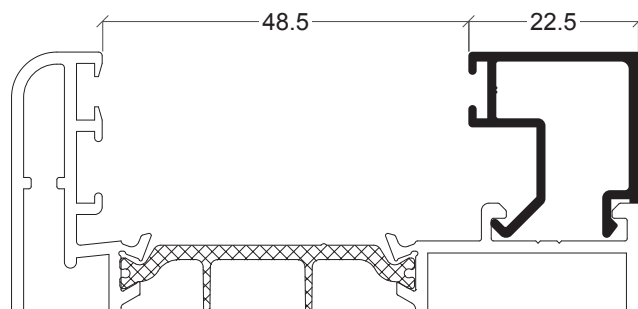
AX-39



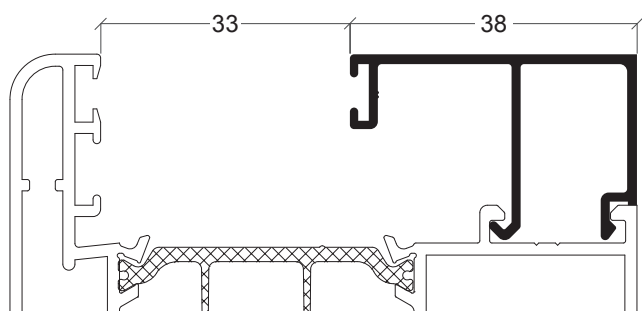
AZ-28



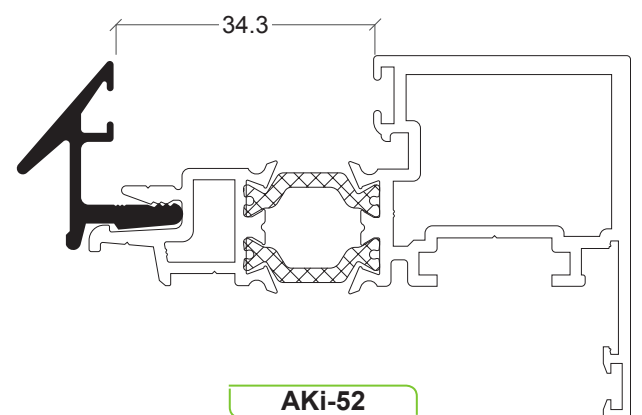
AX-34



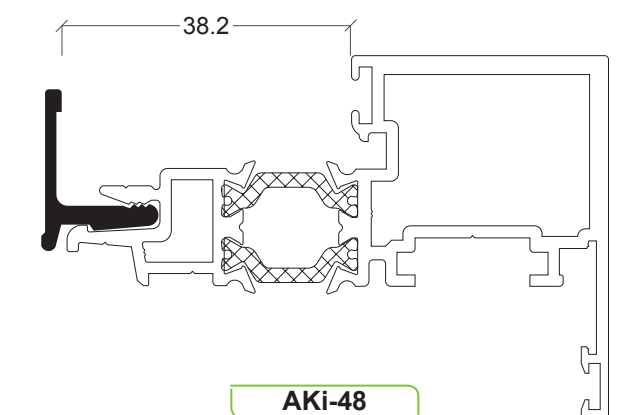
AX-78



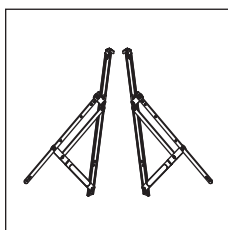
AX-32



AKi-52

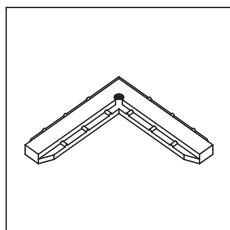


AKi-48



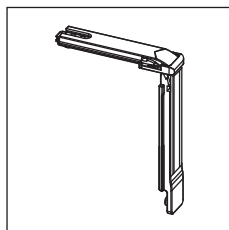
30 00 95 71

Compasso projectante
deslizante até 100 kg/folha



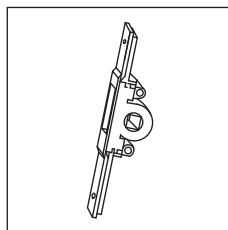
30 21 20 07

Esquadro de
alinhamento



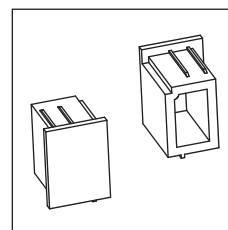
30 90 20 42

Ângulo de reenvio



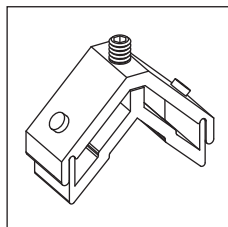
30 90 20 44

Transmissão para
abertura exterior



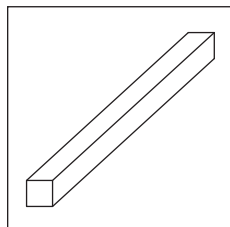
30 91 21 20

Jogo topos condensação
para Y-20



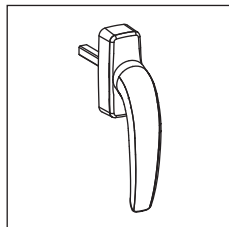
30 91 40 15

Esquadro aro fixo AKi-38



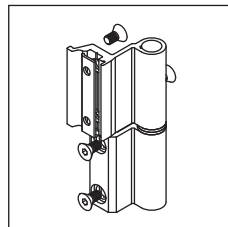
30 91 41 23

Perno 7x131 mm



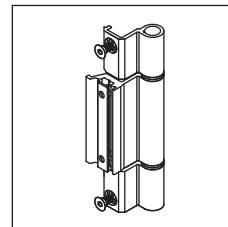
30 91 41 47/48

Cremone pivotante especial
branco/preto



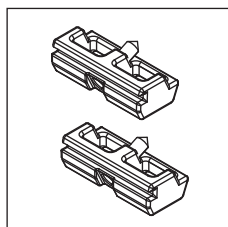
30 92 00 20/21

Dobradiça C.E. branco/
preto



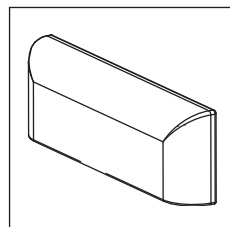
30 92 00 26/27/28

Dobradiça três nós
(bruto/branco/preto)



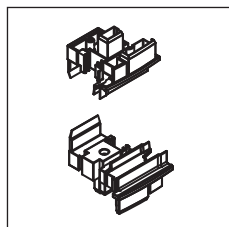
30 92 00 50

Contra-fecho



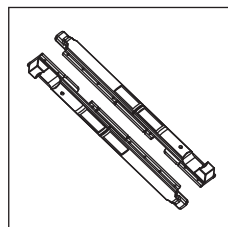
30 92 01 00/01

Goteiras preto/branco



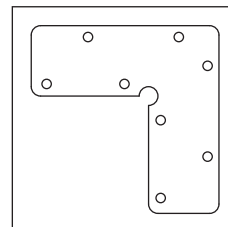
30 92 01 14

Conjunto topos inversor
com furo AKi folha oculta



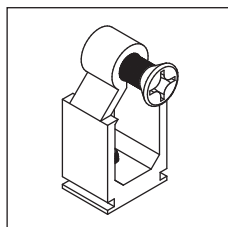
30 92 01 20

Jogo fecho C.E.



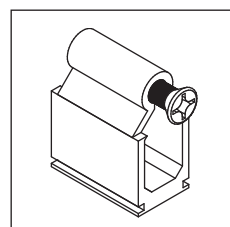
30 92 01 35

Esquadro alinhamento
móvel



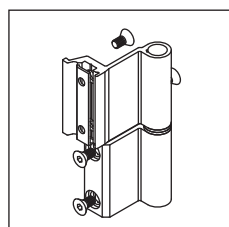
30 92 01 40

União topos janela



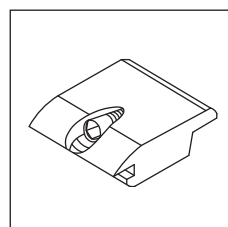
30 92 01 50

União topos porta



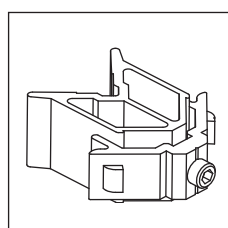
30 92 01 70/80

Dobradiça 3 folhas
branco/preto



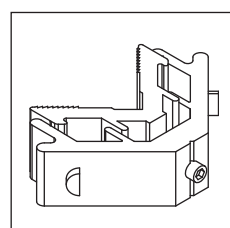
30 92 02 60

Apoio da folha



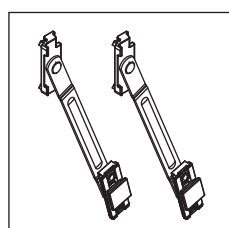
30 92 03 90

Esquadro porta



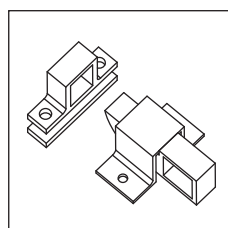
30 92 04 25

Esquadro AKi-80



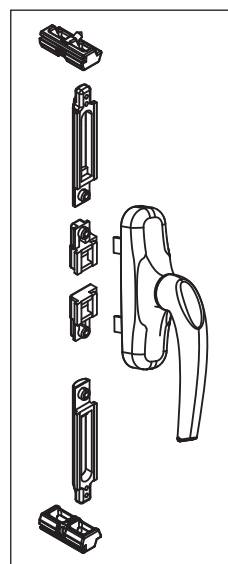
30 92 04 75

Jogo compasso
basculante



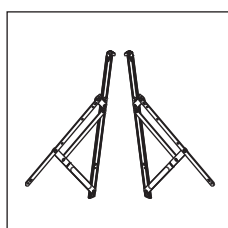
30 92 04 76/77

Fecho clack (branco/
preto)



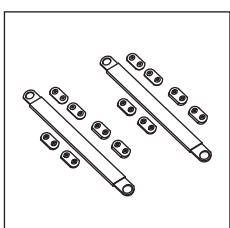
30 92 03 10/11

Kit cremone branco/preto



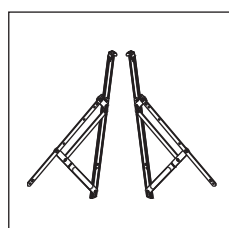
30 92 04 80

Compasso projectante
deslizante até 50 kg/folha



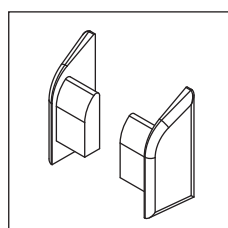
30 92 04 85

Jogo compasso



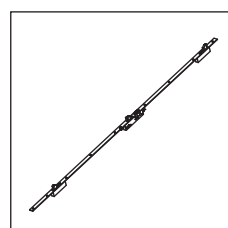
30 92 04 90

Compasso projectante
deslizante até 70 kg/folha



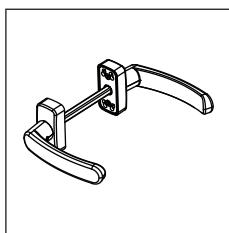
30 92 05 00

Jogo topos AZ-60



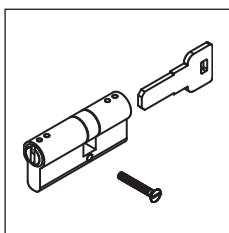
30 92 05 10

Fechadura 3 pontos
(35 mm)



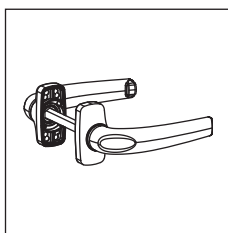
30 92 05 15

Fecho de alavanca com 5 pontos de fecho



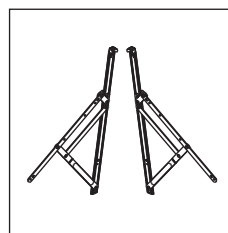
30 92 05 55

Canhão fechadura



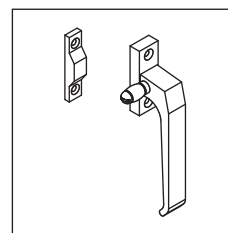
30 92 05 60/61

Puxador duplo branco/preto



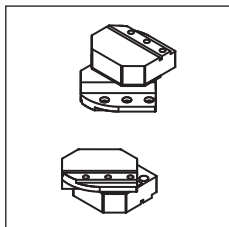
30 92 06 00

Compasso projectante deslizando até 20 kg/folha



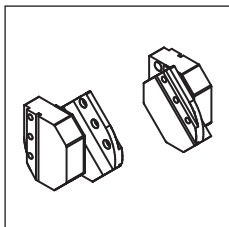
30 92 06 10/11

Cremona de lingueta branco/preto



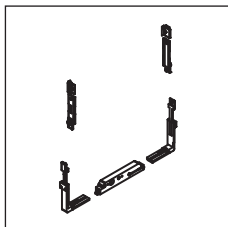
30 92 07 12

Jogo pivotante vertical especial AKi preto (130Kg)



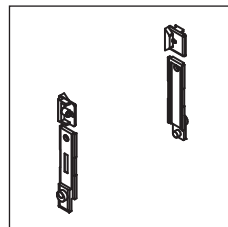
30 92 07 13

Jogo pivotante horizontal especial AKi preto (130Kg)



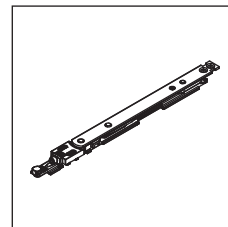
30 92 07 16

Fecho perimetral pivotante especial



30 92 07 17

Fecho suplementar pivotante especial



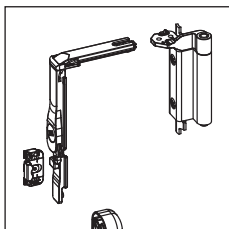
30 92 12 11/12

Compasso oscilo 400/500



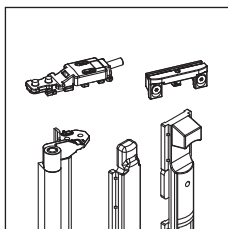
30 92 12 13

Compasso suplementar AKi



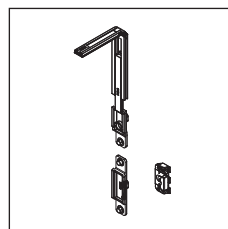
30 92 12 20/21

Kit oscilobatente branco/preto



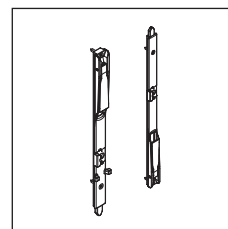
30 92 12 24/25

Kit 2ª folha OB branco/preto



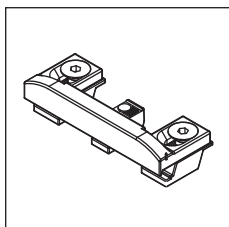
30 92 12 45

Kit fecho 3º ponto AKi



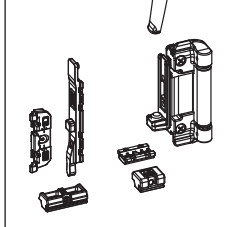
30 92 12 50

Jogo passadores AKi (Zamack)



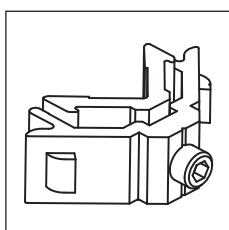
30 92 12 55

Ponto de fecho regulável



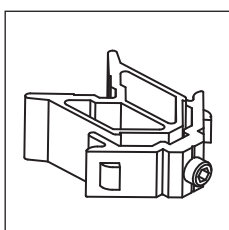
30 95 52 15

Ponto de fecho suplementar



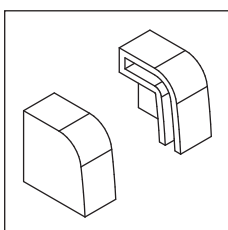
30 96 00 04

Esquadro janela



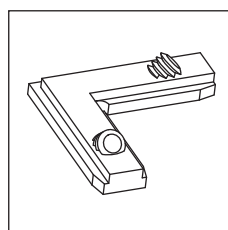
30 96 00 05

Esquadro aro fixo porta



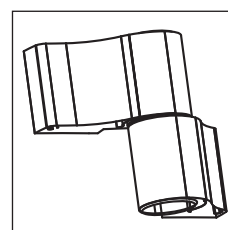
30 96 00 12

Jogo topos condensação



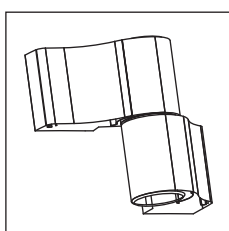
30 96 00 15

Esquadro alinhamento móvel



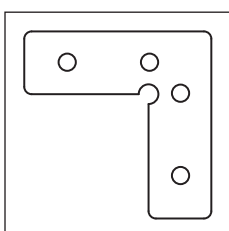
30 96 00 16/20

Dobradiça lisa branco/preto



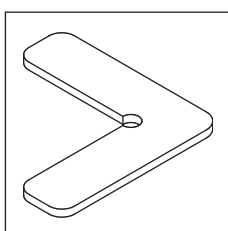
30 96 00 17/21

Dobradiça com ressalto branco/preto



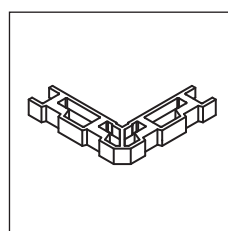
30 96 00 22

Esquadro alinhamento especial



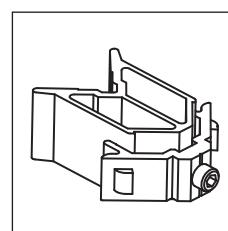
30 96 00 23

Esquadro alinhamento aro fixo



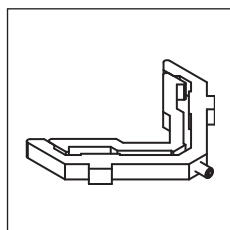
30 96 00 25

Esquadro exterior aro fixo



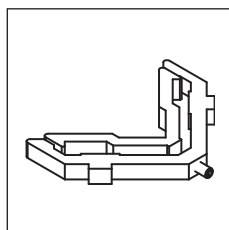
30 96 00 36

Esquadro aro móvel porta



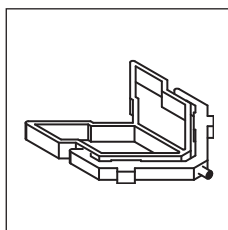
30 96 00 38

Esquadro alinhamento móvel janela



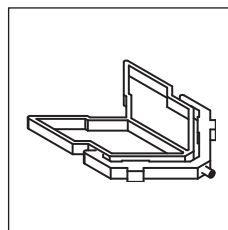
30 96 00 39

Esquadro alinhamento aro fixo janela



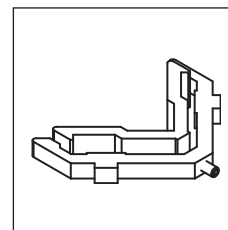
30 96 00 40

Esquadro alinhamento aro fixo porta



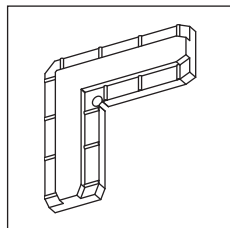
30 96 00 41

Esquadro alinhamento aro móvel porta



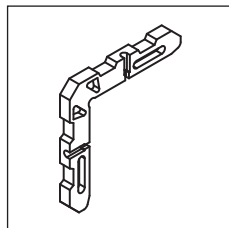
30 96 00 42

Esquadro perfil AKi-07



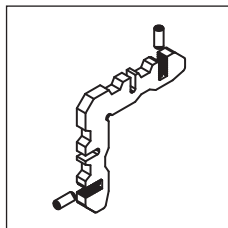
30 96 00 43

Esquadro alinhamento



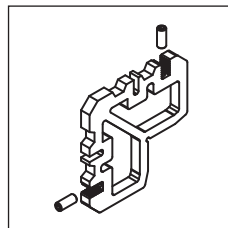
30 96 00 44

Esquadro exterior AKi-78



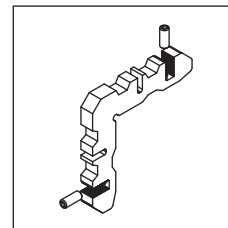
30 96 00 45

Esquadro de alinhamento 5.2x14 com parafusos



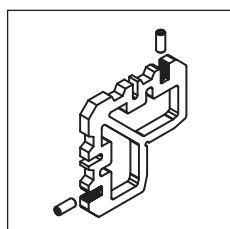
30 96 00 46

Esquadro de alinhamento 5.2x36 com parafusos



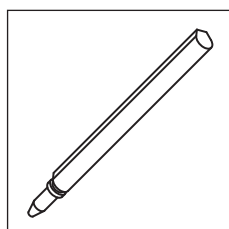
30 96 00 48

Esquadro de alinhamento 7x14 c/ parafusos



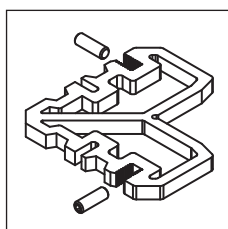
30 96 00 49

Esquadro de alinhamento aro fixo com parafusos



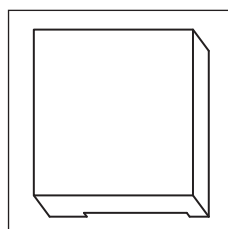
30 96 00 55

Perno alternativo para fixação de esquadro



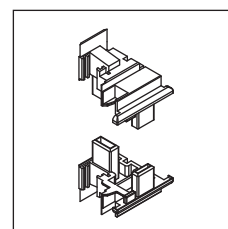
30 96 00 60

Esquadro de alinhamento 5.2x31.6 com parafusos



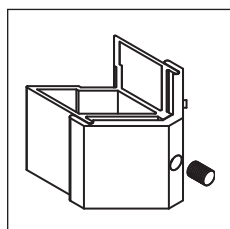
30 96 10 01

Calço para vidro



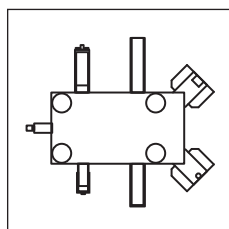
30 96 10 08

Jogo topos inversor AKi-04



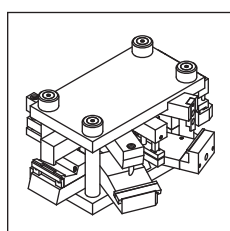
30 96 10 15

Esquadro interior AKi-78



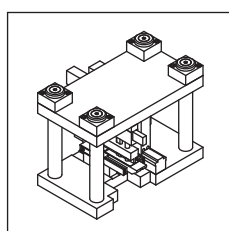
33 20 70 03

Cunho AKi folha oculta 3D



33 96 79 99

Cunho C.E.

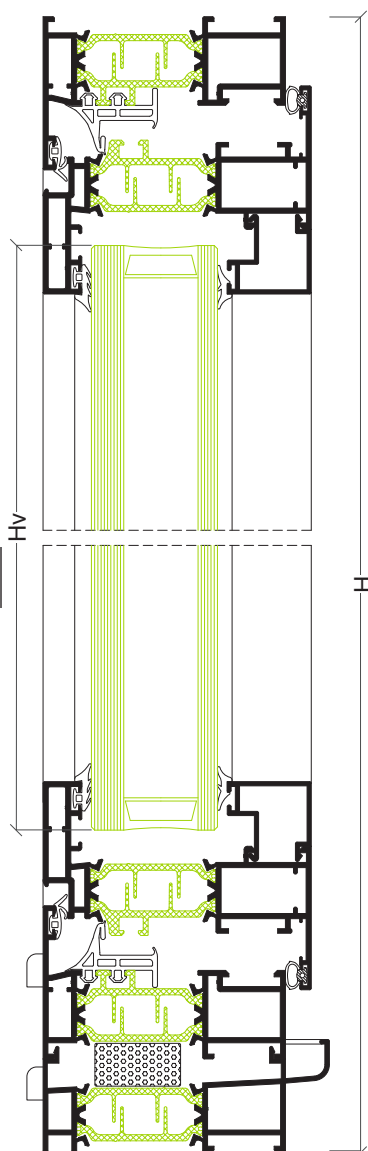
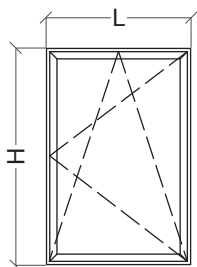


33 96 87 99

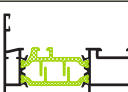


Cunho esquadro interior e exterior ARI/AKi

Referência	Desenho	Descrição
30 00 95 15		Junta vedação interior curta
30 20 26 03		Junta vedação vidro
30 20 70 03		Pelúcia remate porta 11x12 mm
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 92 04 70		Espuma isolante
30 93 00 60		Vedante exterior de vidro (opcional)
30 93 00 61		Junta vedação exterior vidro 2 mm
30 93 00 62		Junta plana para vidro
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 93 00 70		Vedante interior de vidro (opcional)
30 93 00 80		Junta de vedação inferior AKi-42
30 93 00 82		Junta vedação inferior
30 93 01 20		Junta interior
30 93 01 30		Junta exterior (abertura exterior/projectante)
30 95 00 10		Pelúcia 7x9 mm
30 96 00 02		Junta exterior
30 96 00 18		Junta interior (abertura projectante/deslizante)
30 96 00 27		Junta exterior folha oculta 1D
30 96 10 04		Junta central
30 96 10 05		Junta vedação AKi - folha oculta 3D
30 96 10 09		Junta central AKi-09/AKi-25
30 96 10 12		Junta isolante

Janela 1 folha abrir e oscilo-batente



Perfis

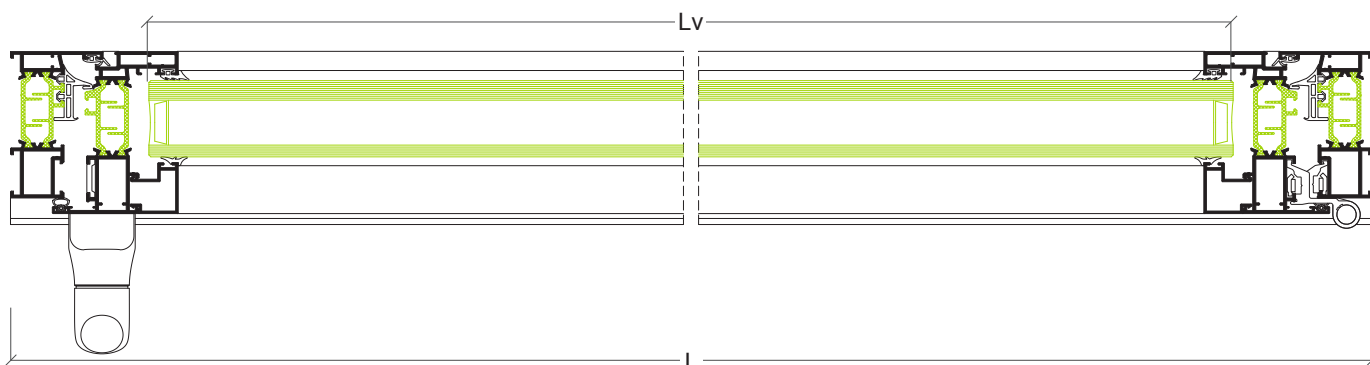
Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-03	Aro fixo		2	L
				2	H-28.5 mm
	AKi-61	Aro móvel		2	L-43 mm
				2	H-71.5 mm
	---	Bite		2	L-132 mm
				2	H-200.5 mm
	AKi-71	Soleira condensação		1	L
	AX-19	Vareta		1+1	Apro. H+L

Acessórios e Juntas

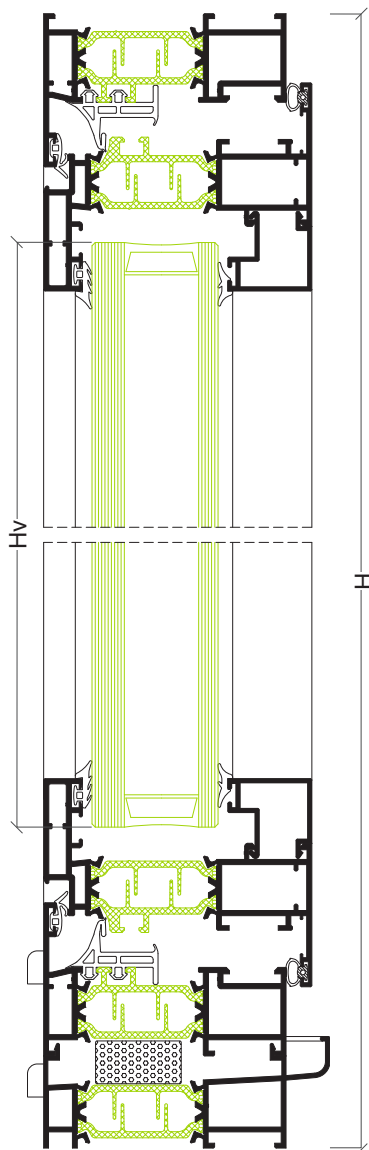
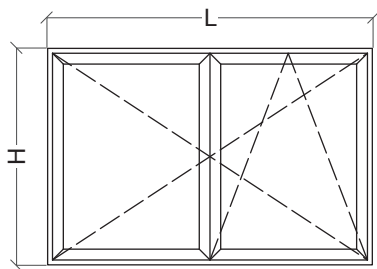
Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	2	---
30 92 01 00	Goteiras	4	4
30 92 12 XX	Compasso O.B.	---	1
30 92 12 20	Kit oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 96 00 04	Esquadro janela	8	8
30 96 00 48	Esquadro alinhamento aro fixo	4	4
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	4	4
30 96 00 22	Esquadro alinhamento móvel	4	4
30 96 00 45	Esquadro alinhamento exterior móvel	4	4
30 96 10 01	Calço para vidro	4	4
30 92 04 70	Espuma isolante	L	
30 96 00 02	Junta exterior	2L+2H	
30 96 10 04	Junta central	2L+2H	
30 93 01 20	Junta interior	2L+2H	
---	Junta exterior vidro	2L+2H	
---	Junta interior vidro	2L+2H	

Vidro

Hv = H-174 mm	Lv = L-146 mm
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Janela 2 folhas abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-03	Aro fixo		2	L
				2	H-28.5 mm
	AKi-61	Aro móvel		2	L/2-24 mm
				2	H-71.5 mm
	AKi-04	Inversor		1	H-139.5 mm
	---	Bite		4	L/2-113 mm
				4	H-200.5 mm
	AKi-71	Soleira condensação		1	L
	AX-19	Vareta		1+1	Apro. H+L

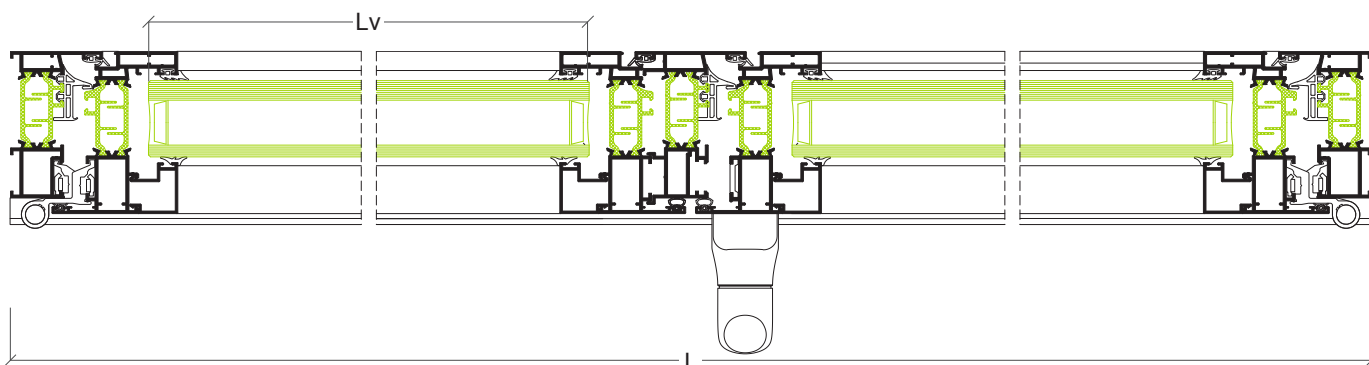
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	4	---
30 92 01 00	Goteiras	4	4
30 92 01 20	Jogo fecho C.E.	1	---
30 92 12 XX	Compasso O.B.	---	1
30 92 12 20	Kit oscilo-batente	---	1
30 92 12 24	Kit 2ª folha oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 96 00 04	Esquadro janela	12	12
30 96 00 48	Esquadro alinhamento aro fixo	8	8
30 96 10 08	Jogo topos inversor	1	1
30 96 00 12	Jogo topos condensação	1	1
30 96 00 15	Esquadro alinhamento móvel	8	8
30 96 00 22	Esquadro alinhamento móvel	8	8
30 96 00 45	Esquadro alinhamento exterior móvel	4	4
30 96 10 01	Calço para vidro	4	4
30 92 04 70	Espuma isolante	L	
30 96 00 02	Junta exterior	2L+4H	
30 96 10 04	Junta central	2L+3H	
30 93 01 20	Junta interior	2L+4H	
---	Junta exterior vidro	2L+2H	
---	Junta interior vidro	2L+2H	

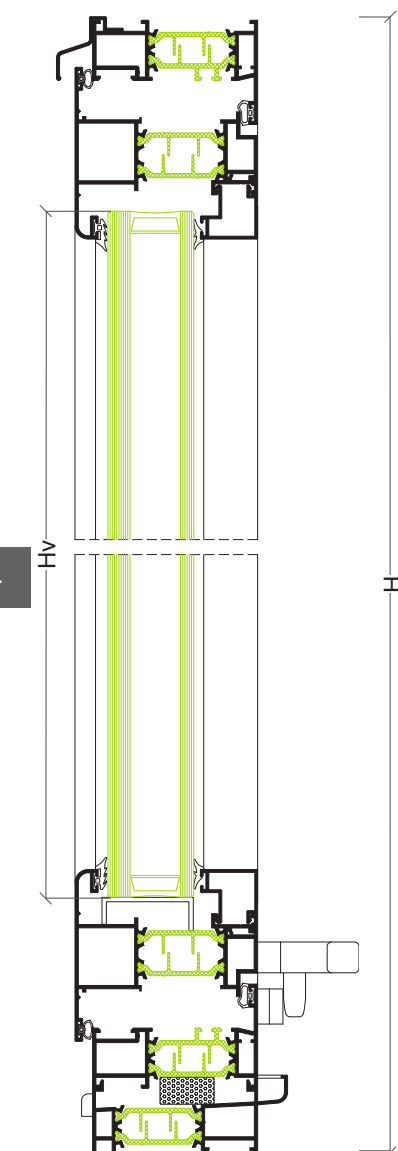
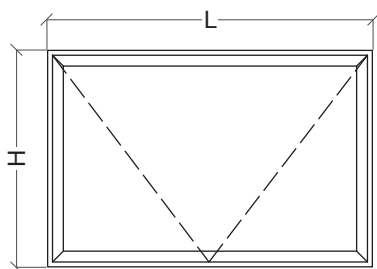
143

Vidro

Hv = H-174 mm	Lv = L/2-127 mm
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Janela 1 folha projectante deslizante



Perfis

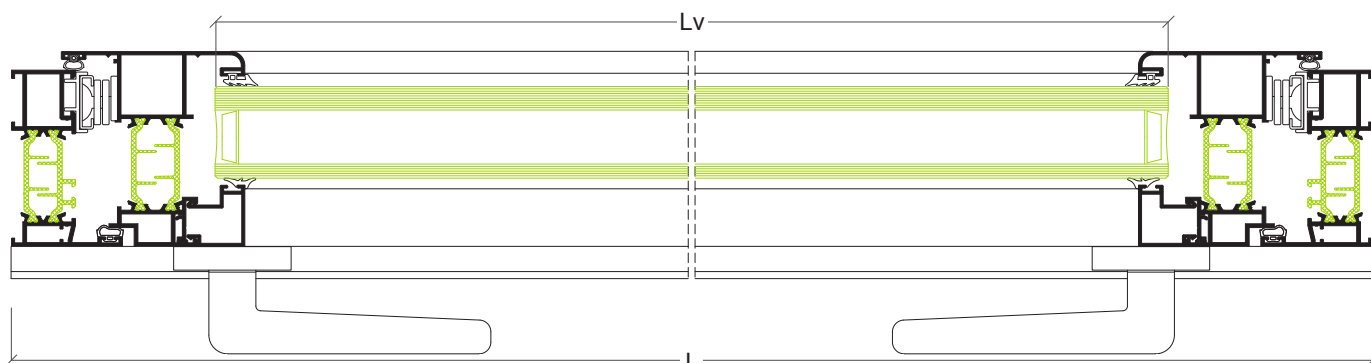
Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-03	Aro fixo		2	L
				2	H-28.5 mm
	AKi-07	Aro móvel abertura projectante deslizante		2	L-43 mm
				2	H-71.5 mm
	---	Bite		4	L-159 mm
				4	H-227.5 mm
	AXi-45	Pingadeira superior		1	L
	AXi-32	Complemento abertura projectante		2	segundo medida compasso
	ARi-29	Apoio bite		2	L-140 mm
				2	H-168.5 mm
	AKi-71	Soleira condensação		1	L

Acessórios e Juntas

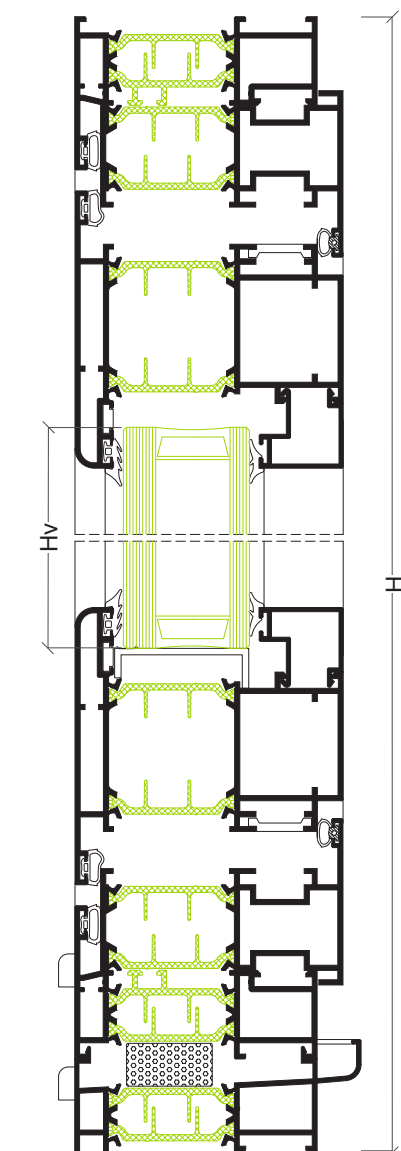
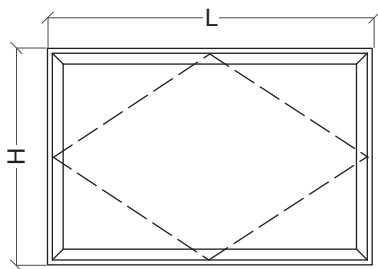
Referência	Descrição	Quantidade
30 92 01 00	Goteiras	2
30 92 04 10	Esquadro janela	4
30 92 04 90	Jogo compasso projectante deslizante 550	1
30 92 06 10	Cremona de lingueta	2
30 92 04 10	Esquadro janela abertura exterior	4
30 96 00 12	Jogo topos condensação	1
30 96 00 48	Esquadro alinhamento aro fixo	4
30 96 00 42	Esquadro alinhamento interno móvel	4
30 92 04 70	Espuma isolante	L
30 93 01 20	Junta exterior	2L+2H
30 96 00 18	Junta interior projectante deslizante	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-201 mm	Lv = L-173 mm
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Janela pivotante horizontal



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-03	Aro fixo		2	L
				2	H-28.5 mm
	AKi-25	Aro móvel abertura exterior		2	L-107 mm
				2	H-135.5 mm
	AKi-14	Inversor pivotante superior		1	L-46 mm
				2	H/2-23 mm
	AKi-14	Inversor pivotante inferior		1	L-46 mm
				2	H/2-51.5 mm
	---	Bite		2	L-239 mm
				2	H-307.5 mm
	AKi-71	Soleira condensação		1	L
	AX-19	Vareta		1+1	L+H
				1+1	L+H

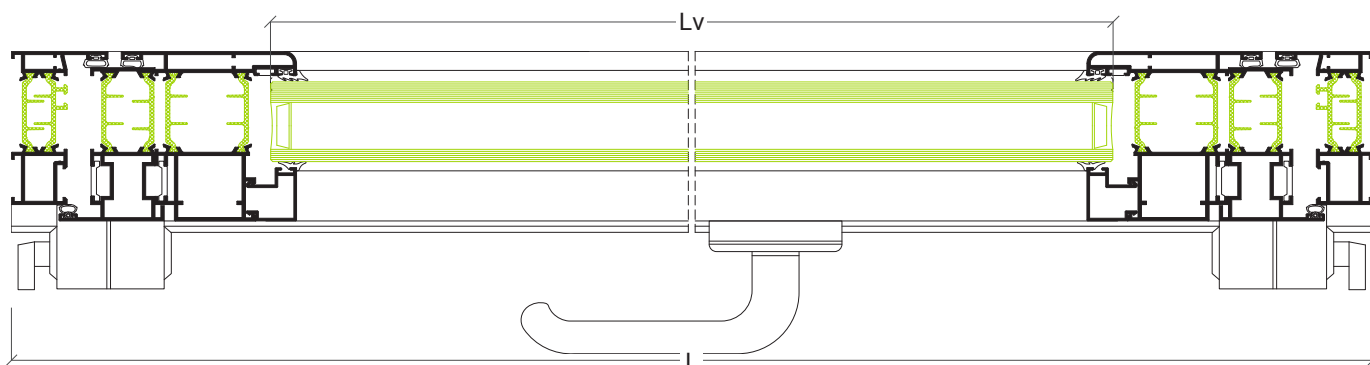
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 94 50 10	Esquadro inversor	4
30 96 00 04	Esquadro janela	4
30 96 00 05	Esquadro móvel	4
30 96 00 48	Esquadro alinhamento exterior janela	4
30 96 00 12	Jogo topos condensação	1
30 92 07 13	Jogo pivotante horizontal	1
30 92 07 16	Fecho perimetral pivotante	1
30 96 00 15	Esquadro alinhamento móvel	4
30 91 41 48	Cremone	1
30 92 04 70	Espuma isolante	L
30 96 00 18	Junta exterior	4L+4H
30 93 01 20	Junta interior	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

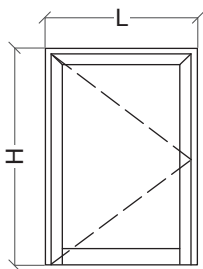
145

Vidro

Hv = H-281 mm	Lv = L-253 mm
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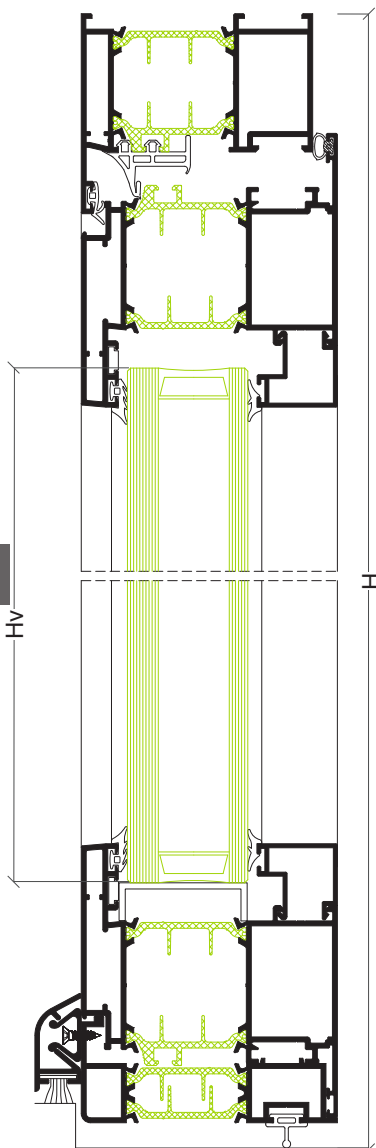


Porta 1 folha



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-08	Aro fixo		1	L
				2	H
	AKi-36	Aro móvel		2	L-78 mm
				2	H-46 mm
	AKi-23	Almofada		1	L-147 mm
	---	Bite		4	L-216 mm
				4	H-226 mm
	AZ-60	Pingadeira		1	L-148 mm

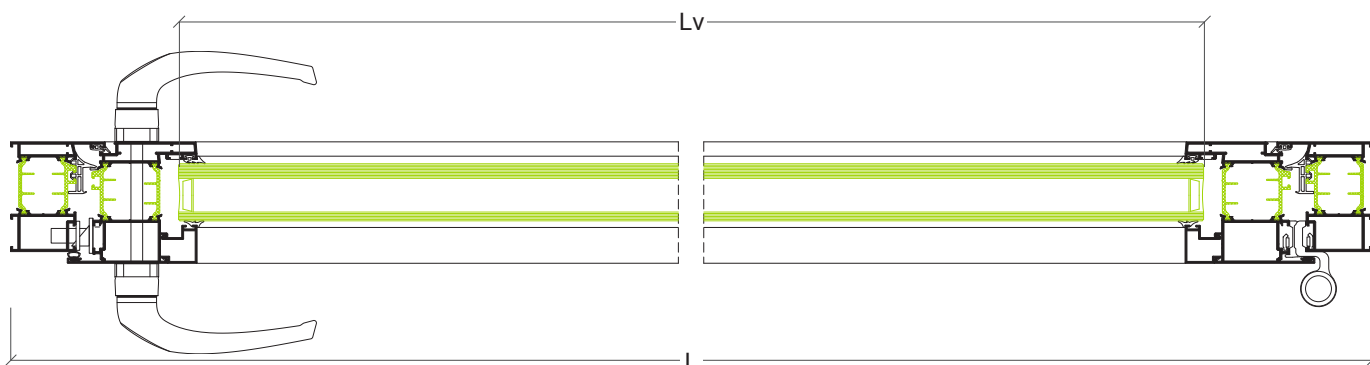


Acessórios e Juntas

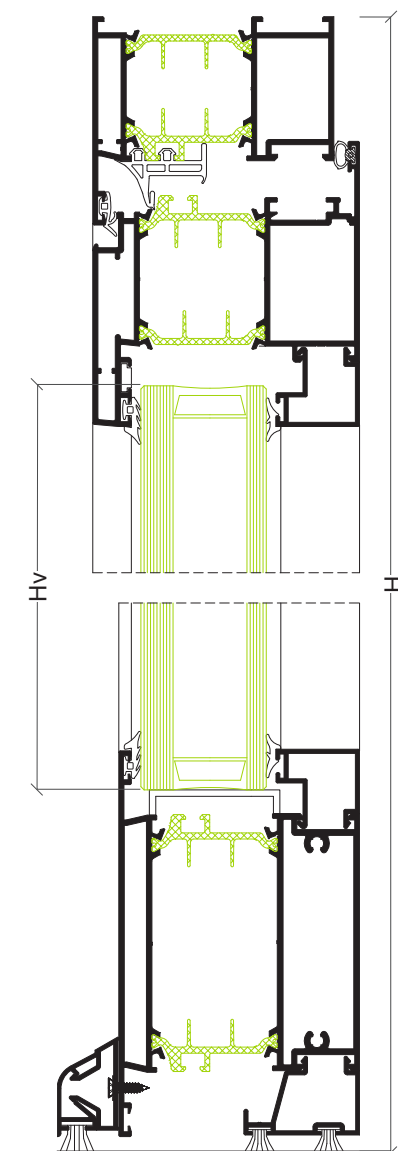
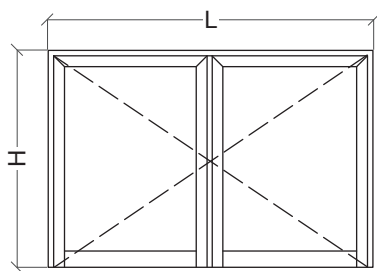
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	3
30 92 01 35	Esquadro alinhamento móvel	4
30 92 05 10	Fechadura 3 pontos	1
30 92 05 55	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 05	Esquadro aro porta	2
30 96 00 15	Esquadro alinhamento móvel	4
30 96 00 36	Esquadro móvel porta	4
30 96 00 46	Esquadro alinhamento aro móvel porta	4
30 96 00 49	Esquadro alinhamento aro fixo	2
31 03 40 00	Mola para pingadeira	A cada 200 mm
30 92 05 00	Jogo topos AZ-60	1
30 96 10 01	Calço para vidro	4
30 93 00 80	Junta inferior	L
30 96 00 02	Junta exterior	L+2H
30 96 10 04	Junta central	L+2H
30 93 01 20	Junta interior	L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-200 mm	Lv = L-230 mm
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Porta 2 folhas



Perfis

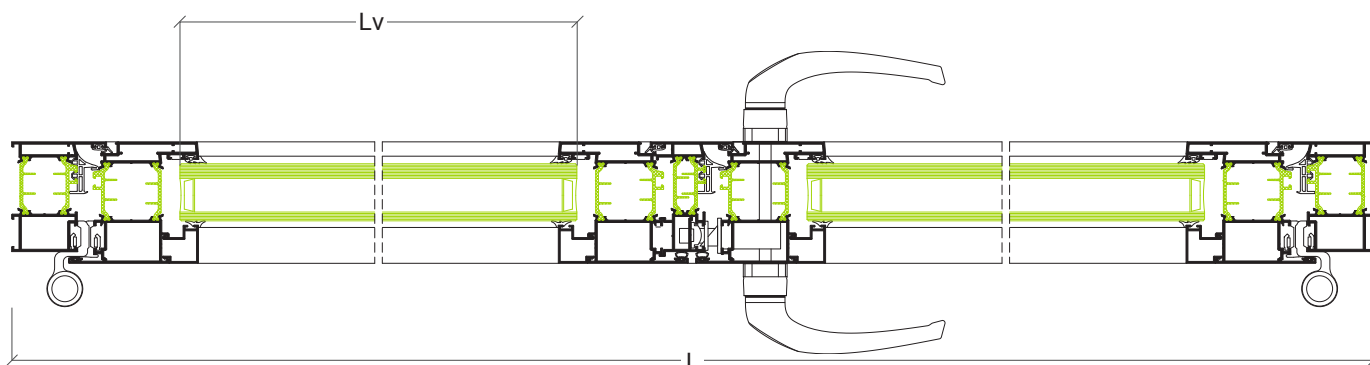
Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-08	Aro fixo		1	L
				2	H
	AKi-10	Aro móvel		2	L/2-41.5 mm
				4	H-44 mm
	AKi-04	Inversor		1	H-78 mm
	AKi-12	Travessa		1	L/2-169.5 mm
	---	Bite		8	L-179 mm
				4	H-253 mm
	AZ-60	Pingadeira		1	L/2-112.5 mm
				1	L/2-43 mm
	AZ-61	Suplemento para pingadeira		2	L/2-219.5 mm
	AX-15	Bite remate		2	L/2-160.5 mm

Acessórios e Juntas

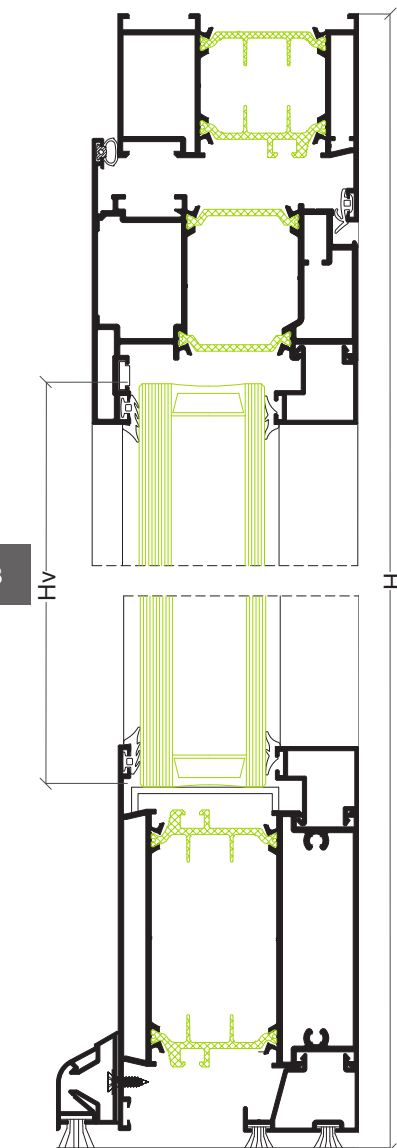
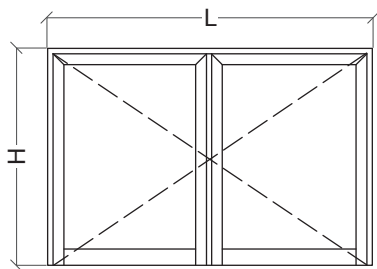
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	6
30 92 01 20	Jogo fecho C.E.	1
30 92 01 35	Esquadro alinhamento móvel	8
30 92 05 10	Fechadura 3 pontos	1
30 92 05 55	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 05	Esquadro aro porta	2
30 96 10 08	Jogo topos inversor	1
30 96 00 15	Esquadro alinhamento móvel	8
30 96 00 36	Esquadro móvel porta	4
30 96 00 46	Esquadro alinhamento aro móvel porta	8
30 96 00 49	Esquadro alinhamento aro fixo	2
30 95 00 10	Pelúcia 7x9 mm	2L
30 95 05 00	Jogo topos AZ-60	1
30 96 10 01	Calço para vidro	8
30 96 00 02	Junta exterior	L+4H
30 96 10 04	Junta central	L+3H
30 93 01 20	Junta interior	L+4H
---	Junta exterior vidro	2L+4H
---	Junta interior vidro	2L+4H

Vidro

Hv = H-227 mm	Lv = L/2-193 mm
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Porta 2 folhas abertura exterior



Perfis

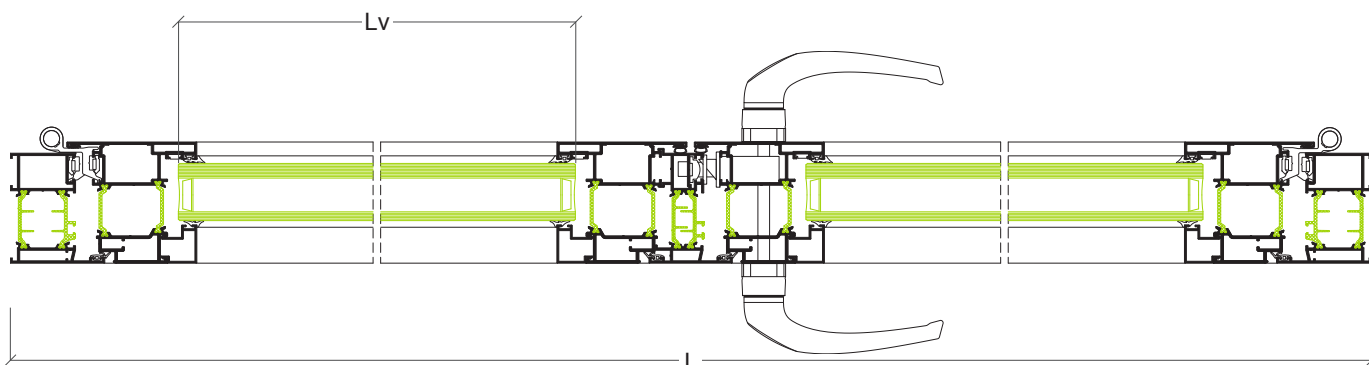
Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-08	Aro fixo		1	L
				2	H
	AKi-72	Aro móvel abertura exterior		2	L/2-41.5 mm
				4	H-44 mm
	AKi-04	Inversor		1	H-78 mm
	AKi-12	Travessa		1	L/2-169.5 mm
	AX-15	Bite remate		2	L/2-160.5 mm
	---	Bite		4	L/2-179 mm
				4	H-253 mm
	AZ-60	Pingadeira		1	L/2-112.5 mm
				1	L/2-43 mm
	AZ-61	Suplemento para pingadeira		2	L/2-219.5 mm

Acessórios e Juntas

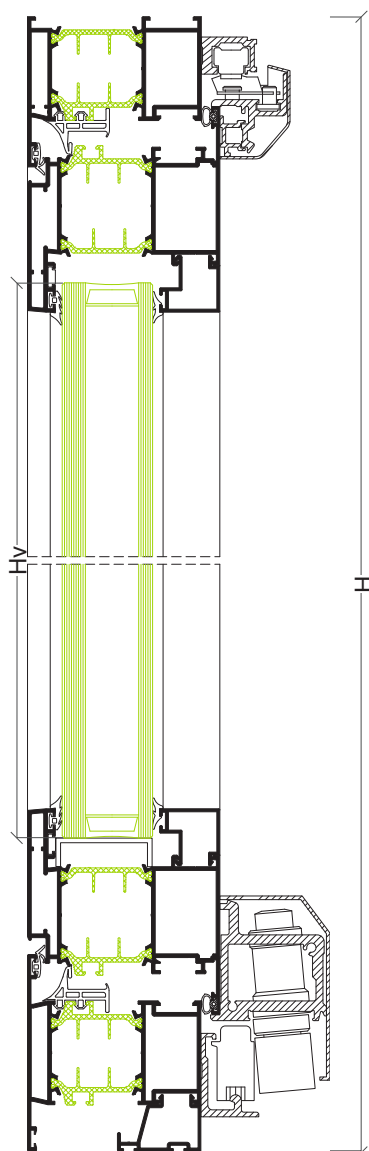
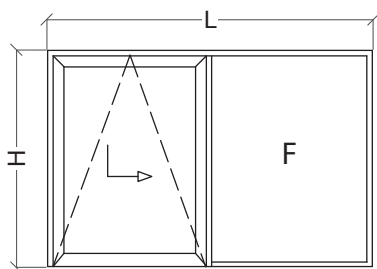
Referência	Descrição	Quantidade
30 92 01 20	Jogo fecho C.E.	1
30 92 05 10	Fechadura 3 pontos	1
30 92 05 55	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 96 00 05	Esquadro porta	2
30 96 10 08	Jogo topos inversor	1
30 92 00 20	Dobradiça C.E.	6
30 95 00 10	Pelúcia 7x9 mm	2L
30 95 05 00	Jogo topos AZ-60	1
30 92 03 90	Esquadro móvel exterior	4
30 92 01 35	Esquadro alinhamento móvel	4
30 96 00 15	Esquadro alinhamento móvel exterior	4
30 96 00 45	Esquadro móvel interior	4
30 96 00 49	Esquadro alinhamento aro fixo	2
30 93 01 20	Junta exterior	2L
30 96 00 02	Junta interior	L+4H
---	Junta exterior vidro	2L+4H
---	Junta interior vidro	2L+4H

Vidro

Hv = H-228 mm	Lv = L/2-194 mm
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Porta oscilo-paralela com fixo lateral



Perfis

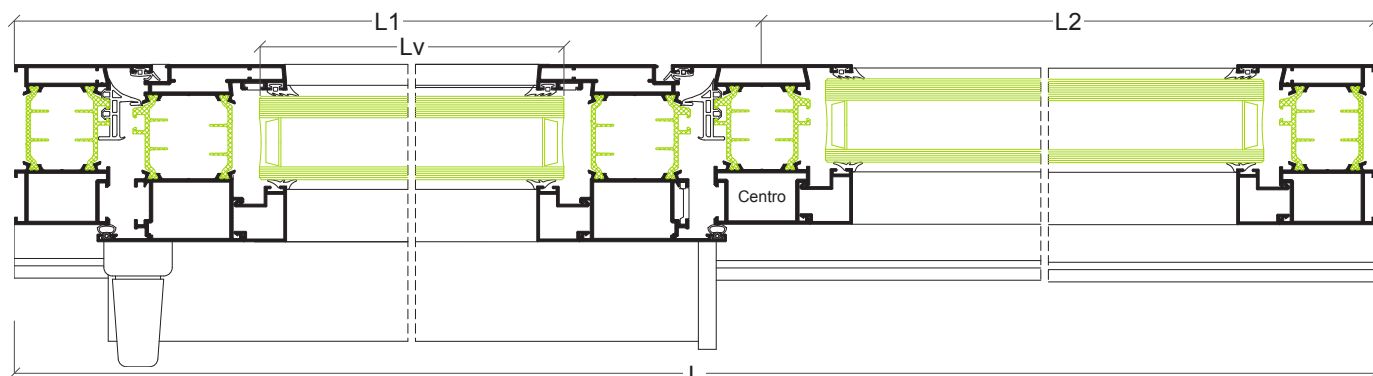
Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-08	Aro fixo		1	L
				2	H
	AKi-06	Travessa		1	L-80.5 mm
				1	H-100.5 mm
	AKi-36	Aro móvel		2	L1-55.5 mm
				4	H-98 mm
	---	Bite (folha)		2	L1-193 mm
				2	H-275.5 mm
	---	Bite (fixo)		2	L2-67.5 mm
				2	H-150 mm
	AX-15	Bite remate		1	L-90 mm
	AX-19	Vareta		1+1	Aprox. L+H

Acessórios e Juntas

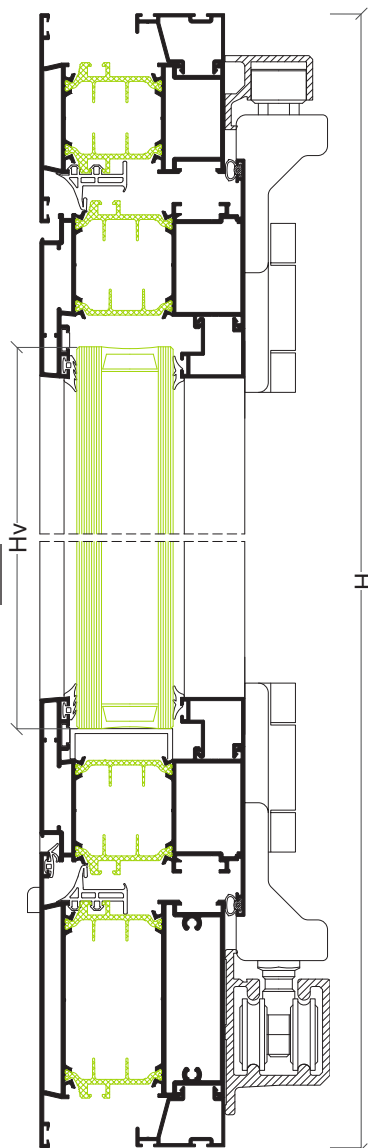
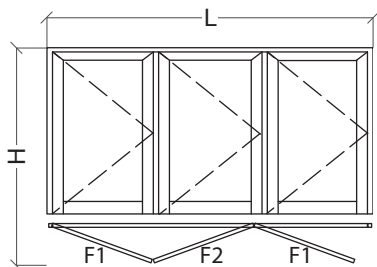
Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 01 35	Esquadro alinhamento móvel	4
30 92 01 50	União topos porta	4
30 96 00 05	Esquadro aro fixo	2
30 96 00 15	Esquadro alinhamento móvel	4
30 96 00 36	Esquadro aro móvel	4
30 96 00 46	Esquadro alinhamento exterior aro móvel	4
30 96 00 49	Esquadro alinhamento aro fixo	2
---	Kit oscilo-paralela	1
30 96 10 01	Calço para vidro	4
30 96 00 02	Junta exterior	2L1+2H
30 96 10 04	Junta central	2L1+2H
30 93 01 20	Junta interior	2L1+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv folha = H-249 mm	Lv folha = L1-206 mm	
Hv fixo = H-124 mm	Lv fixo = L2-81 mm	
	Mínimo	Máximo
Largura da folha	700 mm	1650 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 150 kg		



Porta 3 folhas harmónio



Perfis

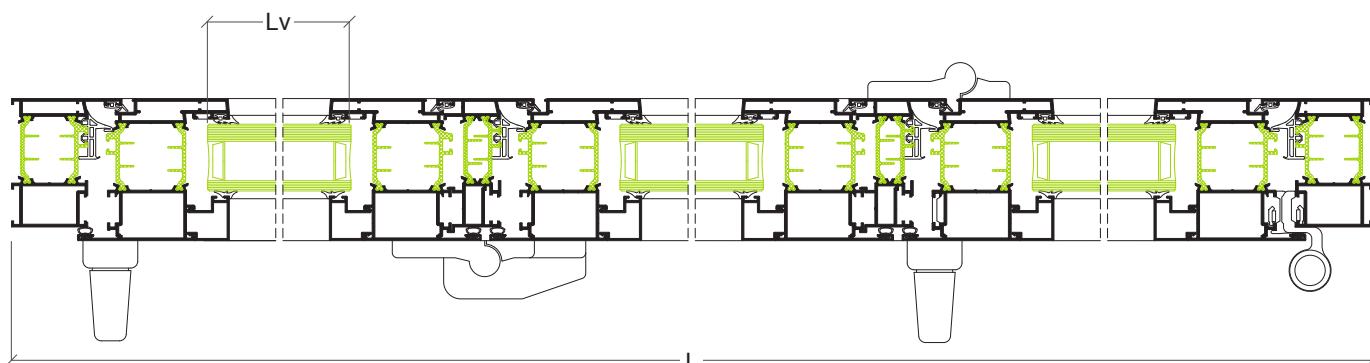
Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-08	Aro fixo		2	H
	AKi-06	Travessa		1	L-80.5 mm
	AKi-12	Travessa		1	L-80.5 mm
	AKi-36	Aro móvel		6	consultar
				6	consultar
	AKi-04	Inversor		2	consultar
	---	Bite (folha)		6	consultar
				6	consultar
	AX-15	Bite remate		2	L-90 mm
	AX-19	Vareta		2	2H

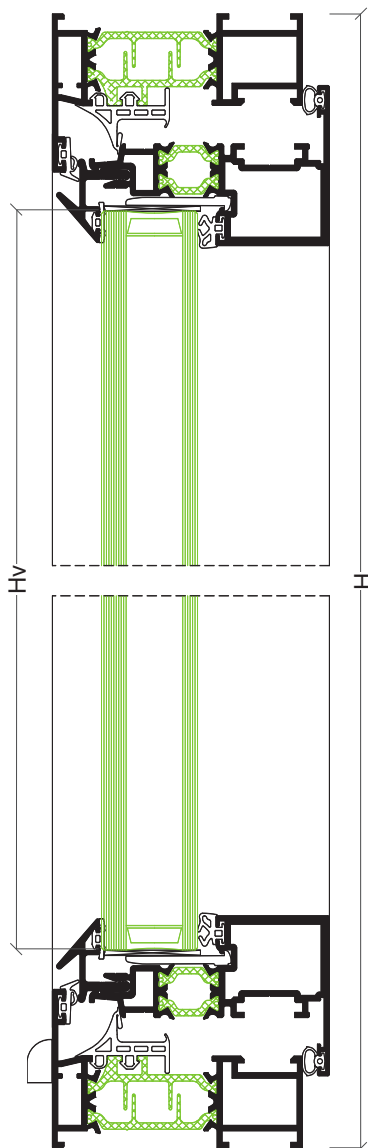
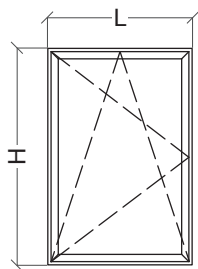
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 01 00	Goteiras	6
30 92 01 35	Esquadro alinhamento móvel	12
30 96 10 08	Jogo topos inversor	2
30 96 00 15	Esquadro alinhamento aro móvel	12
30 96 00 36	Esquadro aro móvel porta	12
30 96 00 46	Esquadro alinhamento exterior porta	12
---	Kit harmónio (3+0)	1
30 92 01 50	União topo porta	2
30 92 01 20	Jogo fecho C.E.	1
30 96 10 01	Calço para vidro	12
30 96 00 02	Junta exterior	2L+6H
30 96 10 04	Junta central	2L+4H
30 93 01 20	Junta interior	2L+6H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = consultar	Lv Folha 1 = consultar	
	Lv Folha 2 = consultar	
	Mínimo	Máximo
Largura da folha	600 mm	900 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 80 kg		



Janela 1 folha oscilo-batente (3D)

Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-03	Aro fixo		2	L
				2	H
	AKi-78	Aro móvel		2	L-43 mm
				2	H-43 mm
	AKi-52	Bite		2	L-87 mm
				2	H-87 mm
	AX-19	Vareta		várias	---

* Preferencialmente cortar juntamente com o perfil AKi-78

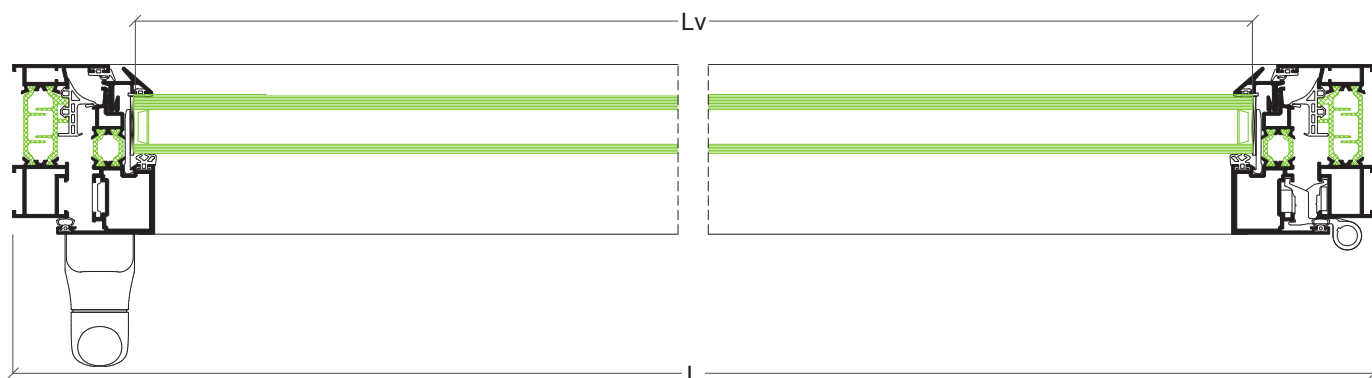
Acessórios e Juntas

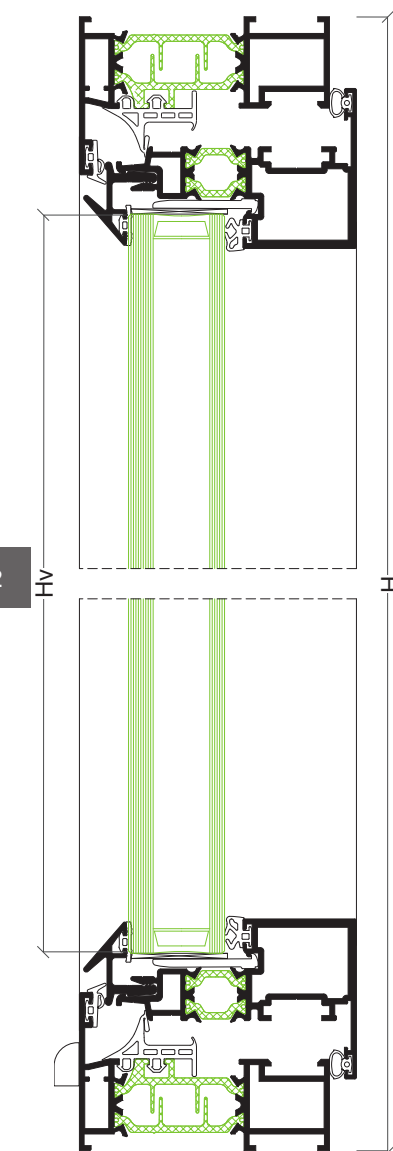
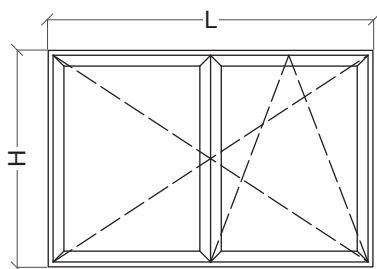
Referência	Descrição	Quantidade
30 96 00 04	Esquadro interior aro fixo	4
30 96 00 39 ou 48	Esquadro exterior aro fixo	4
30 96 10 15	Esquadro interior aro móvel	4
30 96 00 44	Esquadro exterior aro móvel	4
30 96 00 55	Pino para esquadro	8
30 92 01 35	Esquadro de alinhamento	4
30 92 01 02	Goteira com válvula (cor preto)	2 ou mais
30 96 10 05	Junta vedação AKi - folha oculta 3D	2L+2H
30 96 00 02	Junta exterior	L+2H
30 96 10 04	Junta central	2L+2H
30 93 01 20	Junta interior	2L+2H
---	Junta interior vidro	2L+2H
---	Ferragem oscilo-batente	---

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Vidro

Hv = H-115 mm	Lv = L-115 mm
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Janela 2 folhas oscilo-batente (3D)

Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AKi-03	Aro fixo		2	L
				2	H
	AKi-78	Aro móvel		4	(L/2)-24 mm
				4	H-43 mm
	AKi-52	Bite		4	(L/2)-68 mm
				4	H-87 mm
	AKi-04	Inversor		1	H-119 mm
	AX-19	Vareta		várias	---

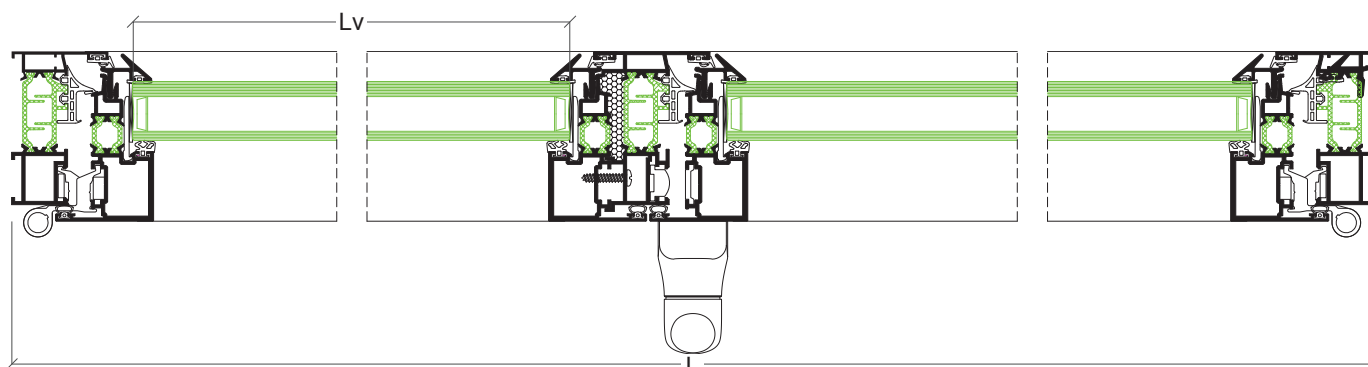
* Preferencialmente cortar juntamente com o perfil AKi-78

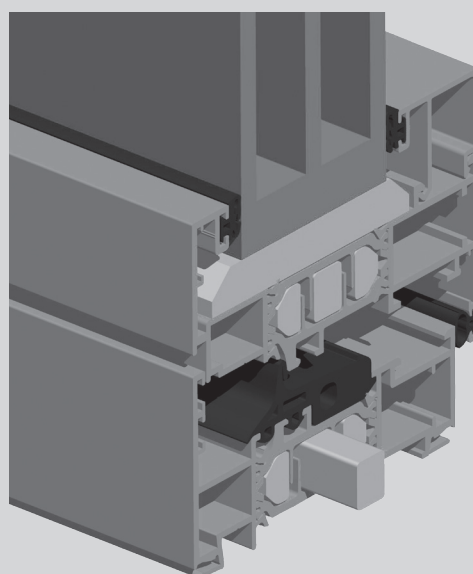
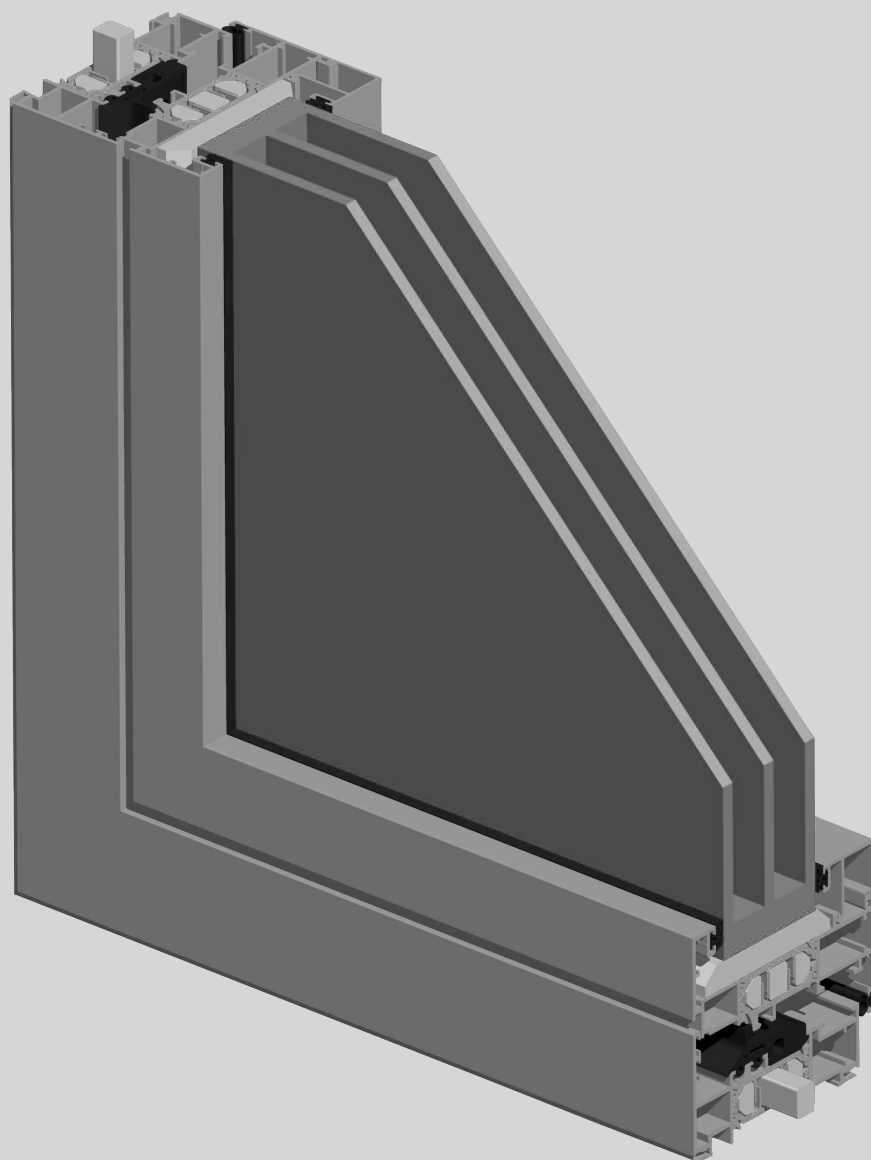
Acessórios e Juntas

Referência	Descrição	Quantidade
30 96 00 04	Esquadro interior aro fixo	4
30 96 00 39 ou 48	Esquadro exterior aro fixo	4
30 96 10 15	Esquadro interior aro móvel	8
30 96 00 44	Esquadro exterior aro móvel	8
30 96 00 55	Pino para esquadro 30 96 00 44	16
30 92 01 35	Esquadro de alinhamento	8
30 92 01 02	Goteira com válvula (cor preto)	2 ou mais
30 92 01 14	Conjunto topo inversor	1
30 92 02 60	Calço de apoio da folha passiva	1
30 96 10 05	Junta vedação AKi - folha oculta 3D	2L+4H
30 96 00 02	Junta exterior	L+4H
30 96 10 04	Junta central	2L+3H
30 93 01 20	Junta interior	2L+4H
---	Junta interior vidro	2L+4H
---	Ferragem oscilo-batente	---

Vidro

Hv = H-115 mm	Lv = (L/2)-96 mm
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Sistema
APi

Sistema API

Sistema de batente com RPT - 85 mm

Características do sistema

Sistema de batente com rotura térmica de elevadas prestações térmicas e acústicas.

O sistema API possibilita a execução de 3 versões de caixilharia:

1. Linha recta;
2. Linha curva;
3. Linha oval.

O sistema API permite a aplicação de vidros duplos ou triplos de alto rendimento de modo a responder às exigências de isolamento térmico e acústico.

Com um óptimo isolamento térmico aliado à aplicação de um inovador produto designado por bagueete ThermoProfile, o Sistema API proporciona elevadas prestações de conforto e de economia energética.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Rotura térmica obtida por inserção de varetas isolantes de poliamida tipo ómega de 39 mm reforçadas com 25% de fibra de vidro. Espessura média dos perfis de alumínio de 1.7 mm.

Aros fixos

Secção dos aros fixos de 85 mm com tripla câmara;

Perfis com rotura térmica com varetas de poliamida tipo ómega de 39 mm;

Aros fixos com duplo esquadro de aperto rápido e esquadros de alinhamento para montagem a meia esquadria;

Travessas com dupla união para um aperto mais eficaz;

Aros fixos tradicionais para o mercado interno;

Aros fixos com clip exterior e aba de remate directa de 25 mm ou 45 mm para o mercado francês;

Aro fixo com clip exterior e interior para aplicação de remate de 30, 50 ou 80 mm para o mercado francês;

Aros móveis

Secção dos aros móveis de 93 mm com tripla câmara;

Aros móveis com rotura térmica através de varetas de poliamidas tipo ómega de 39 mm;

Aros móveis com duplo esquadro de aperto rápido e esquadros de alinhamento para montagem a meia esquadria;

Perfil inversor com olhal para uma melhor aplicação do topo inversor.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 457 mm - 1700 mm (L); 457 mm - 3000 mm (H);

Peso máximo para janelas ou portas de sacada com oscilo-batente até 170 Kg;

Peso máximo para portas de entrada até 160 Kg/folha;

Possibilidades de abertura: fixo, batente interior 1 ou 2 folhas com ou sem oscilo-batente, batente exterior, basculante, projectante, hármónio e oscilo-paralela;

Solução de perfil para portas pedonais ou de sacada de abertura interior ou exterior segundo norma PMR (pessoas com mobilidade reduzida);

Enchimento para vidro duplo ou triplo desde 24 mm até 70 mm;

Estanquidade assegurada através de juntas duplas em EPDM (interior e central), com junta central termo-isolante de bi-material.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema API:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E1500 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

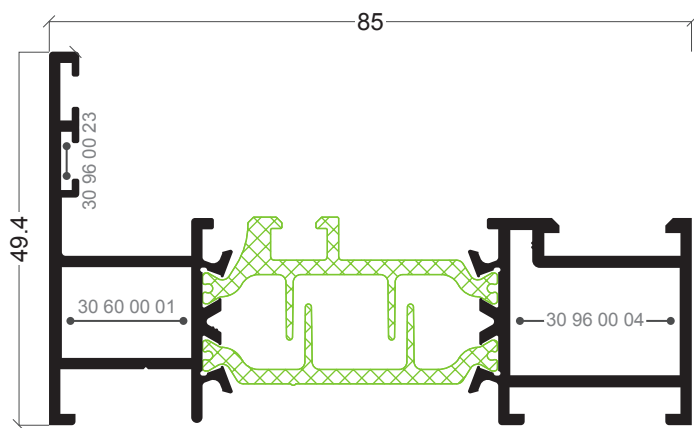
Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 1.50 m com vidro $U_g = 0.5 \text{ W/m}^2\text{K}$ com intercalar efeito "Warm Edge":

• $U_w = 1.09 \text{ W/m}^2\text{K}$

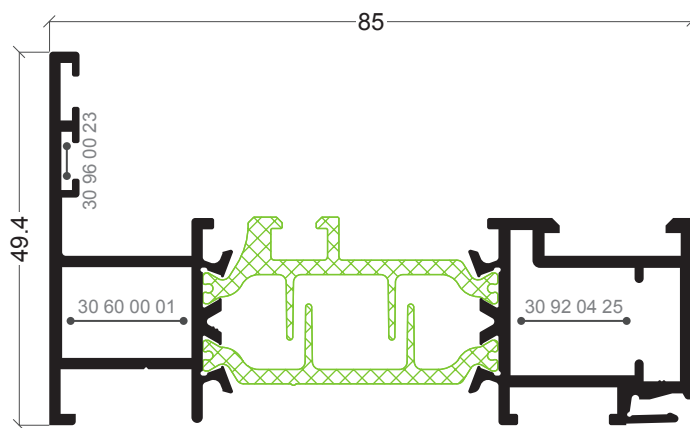
Coefficiente de atenuação acústica de vão de 2 folhas:

• $R_w (C ; C_{tr}) = 41 \text{ dB} (-2 ; -5)$

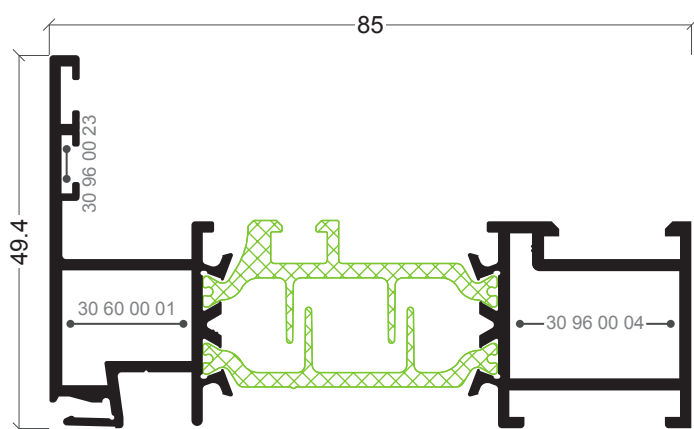
Zonas de aplicação segundo RCCTE (em função do valor U_g) : I1, I2, I3, V1, V2, V3



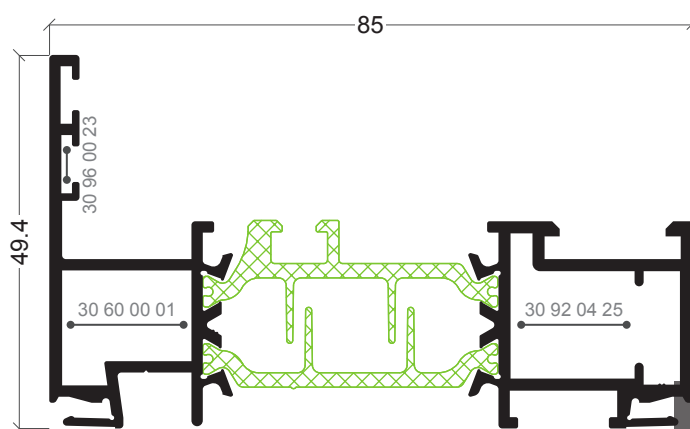
API-03
Aro fixo



API-91
Aro fixo

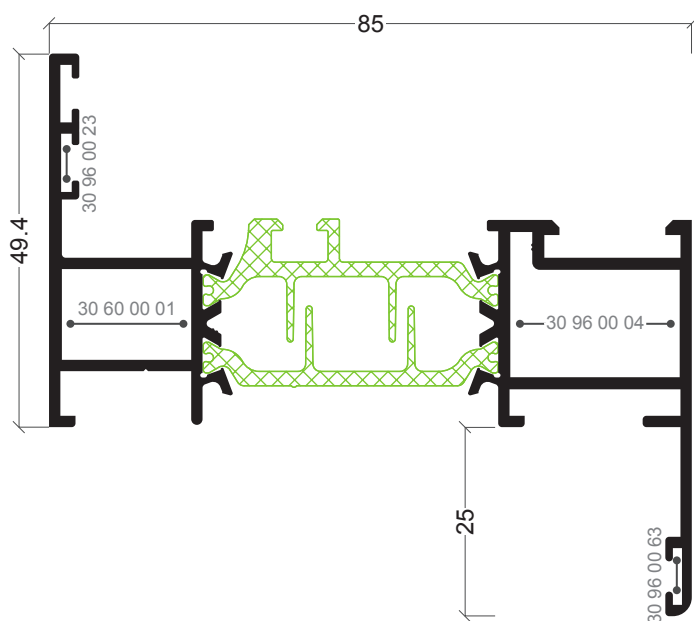


API-76
Aro fixo

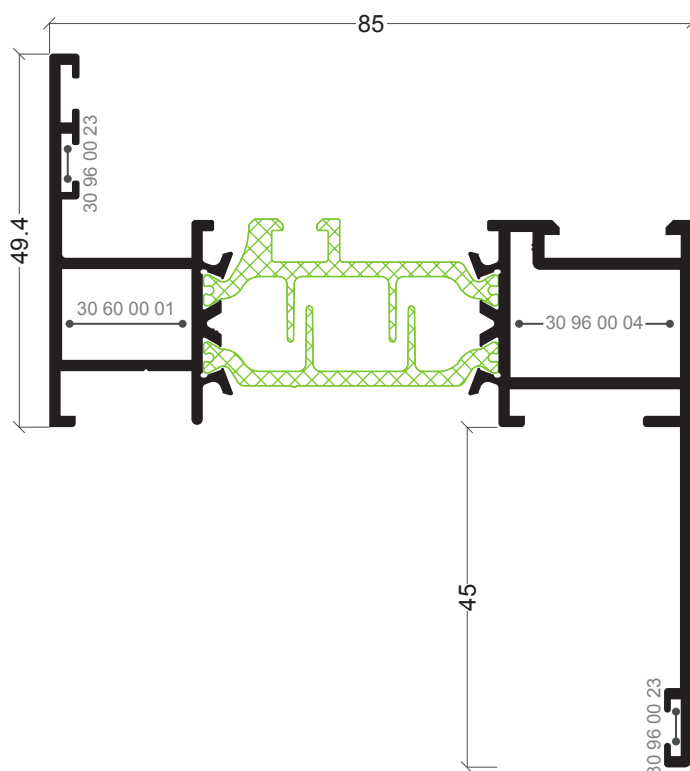


API-80
Aro fixo

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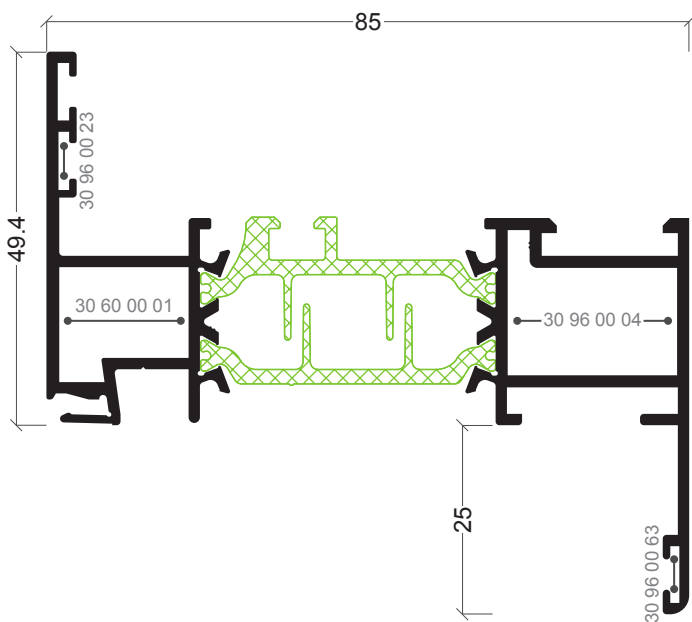


API-35
Aro fixo com remate 25 mm

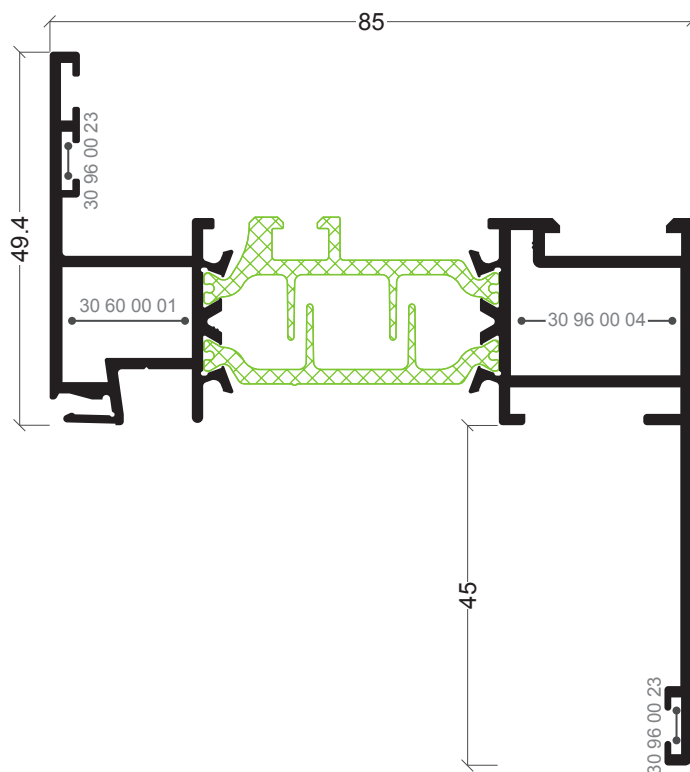


API-33
Aro fixo com remate 45 mm

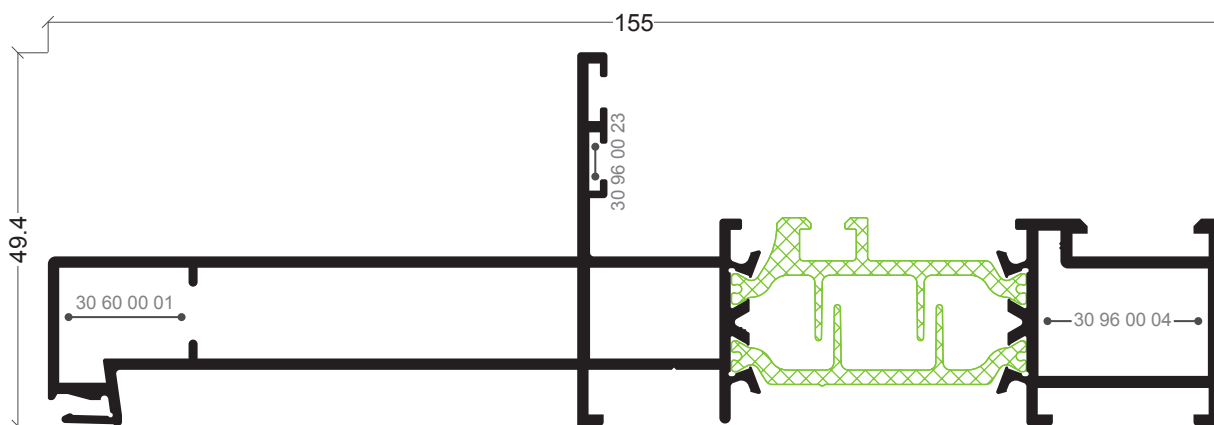
30 96 00 23



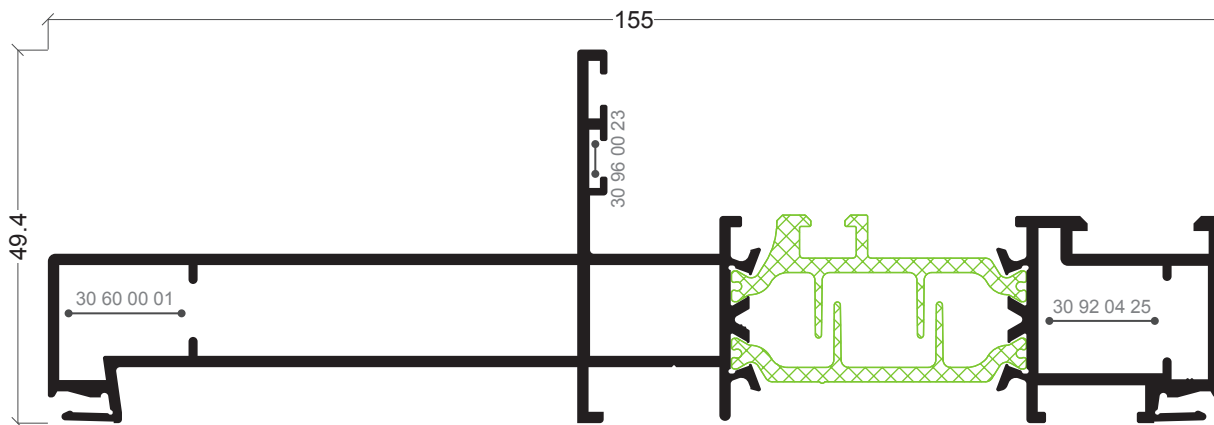
APi-74
Aro fixo com remate 25 mm



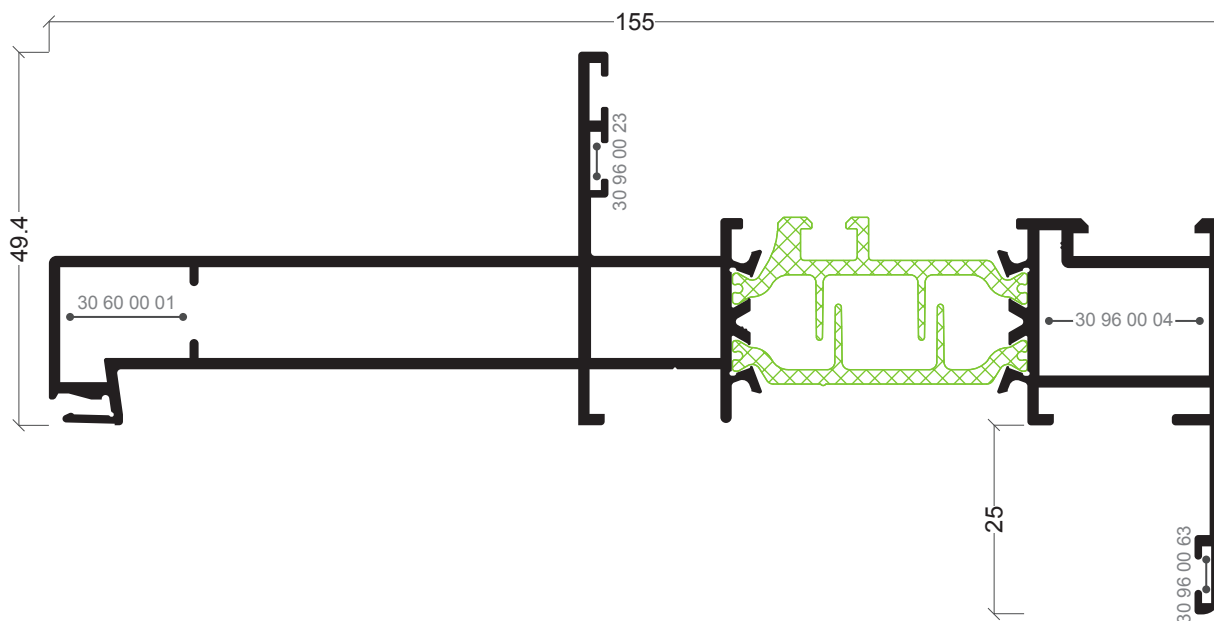
APi-75
Aro fixo com remate 45 mm



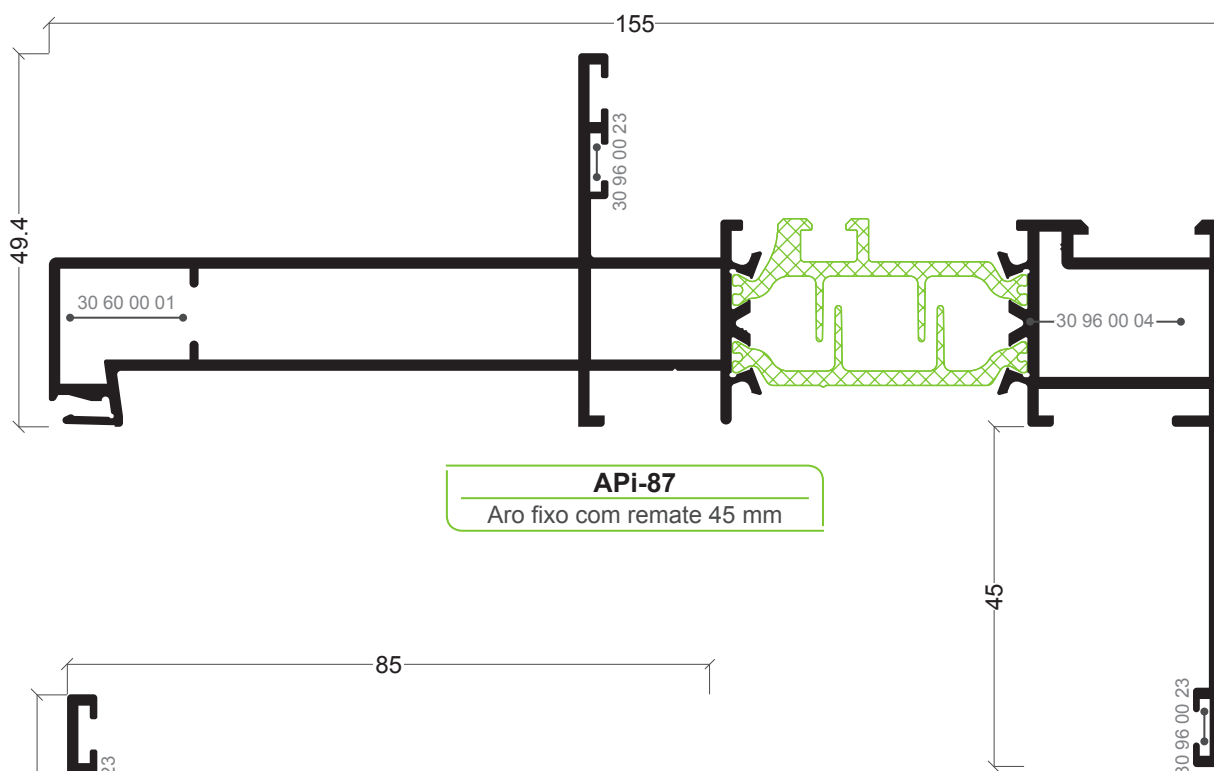
APi-89
Aro fixo



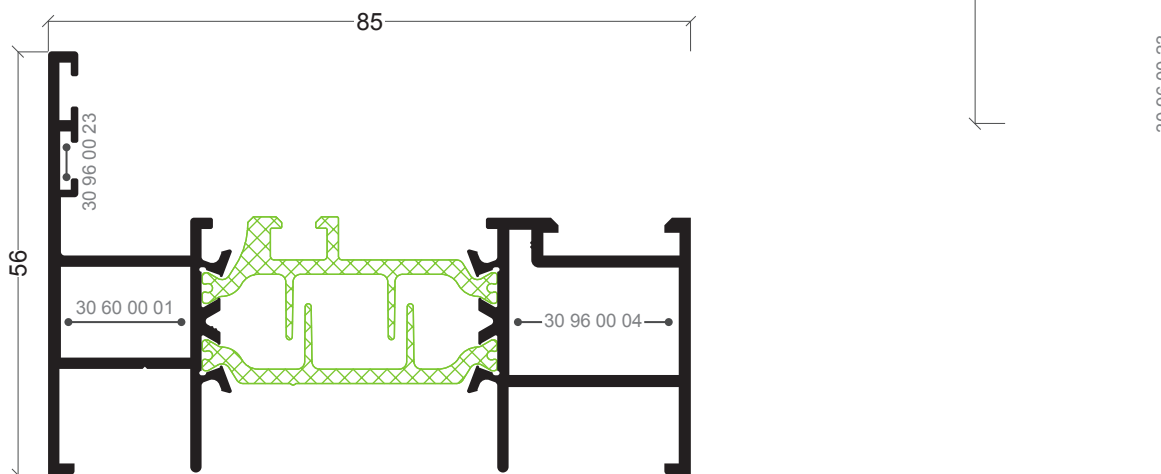
APi-88
Aro fixo



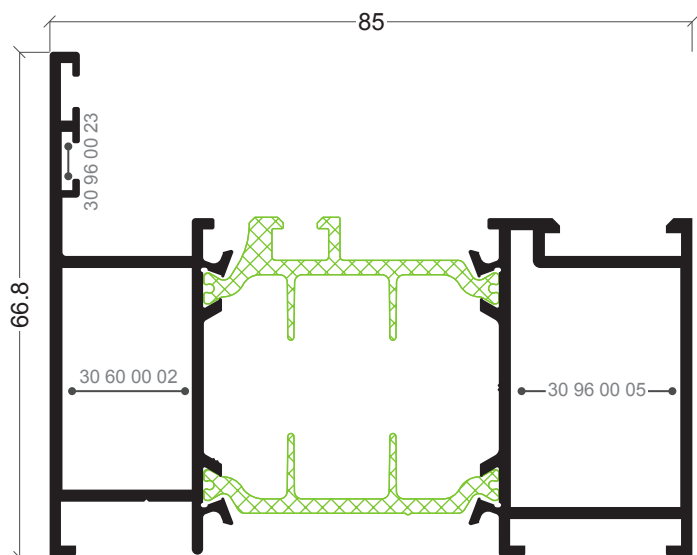
APi-86
Aro fixo com remate 25 mm



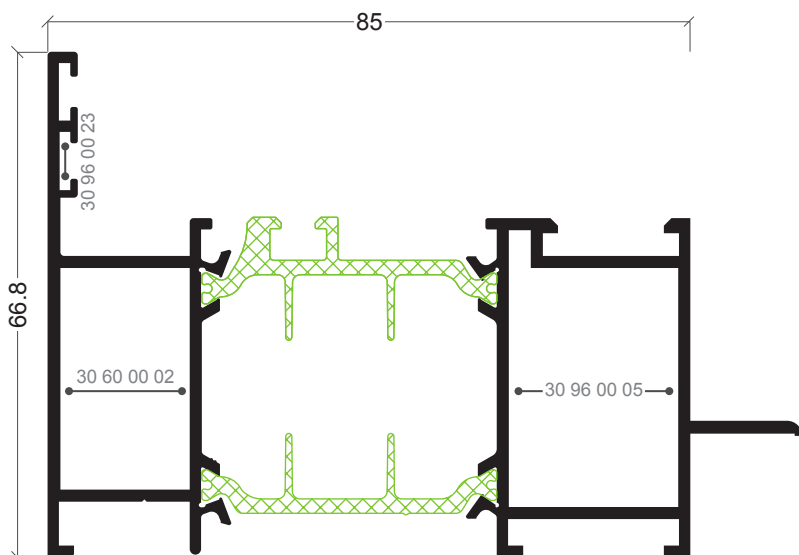
APi-87
Aro fixo com remate 45 mm



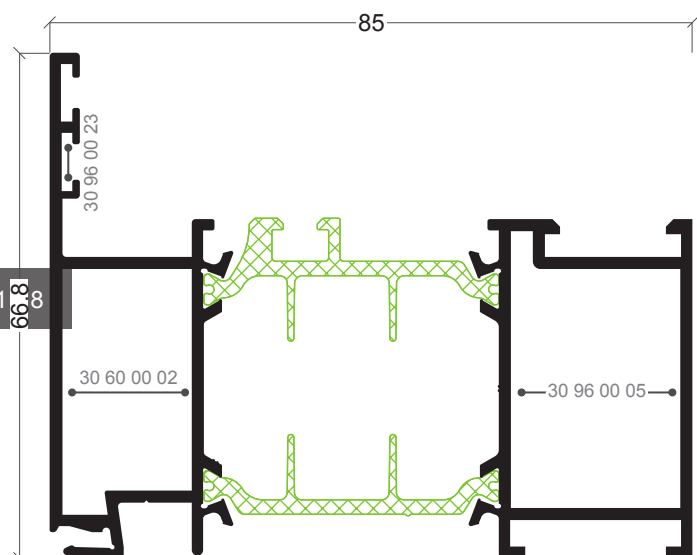
APi-81
Aro fixo



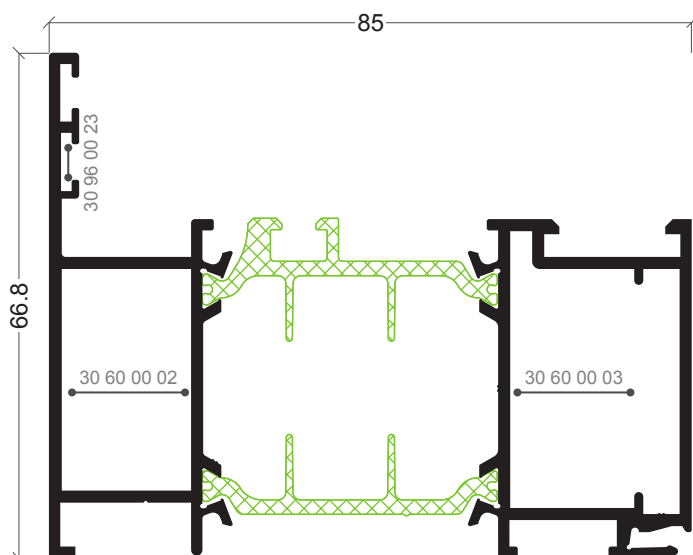
API-08
Aro fixo



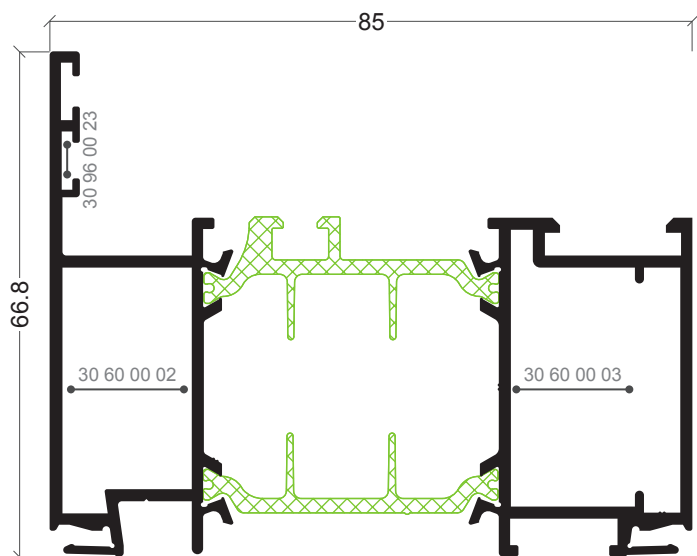
API-68
Aro fixo



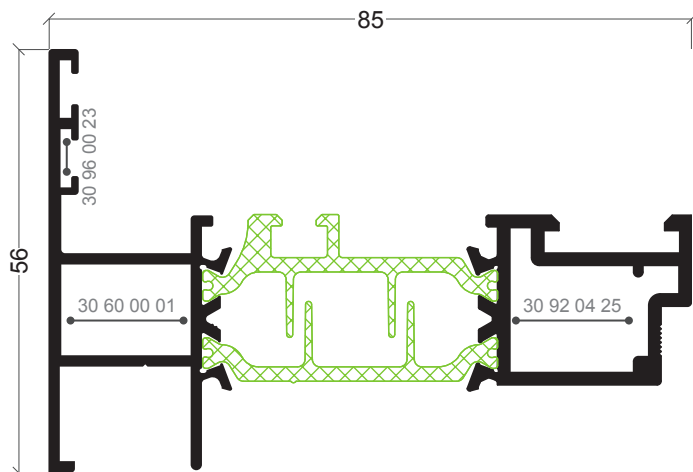
API-92
Aro fixo



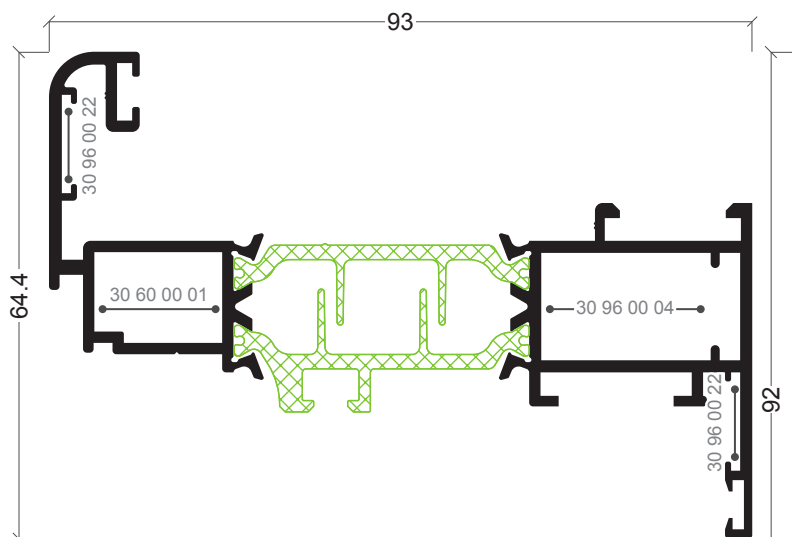
API-93
Aro fixo



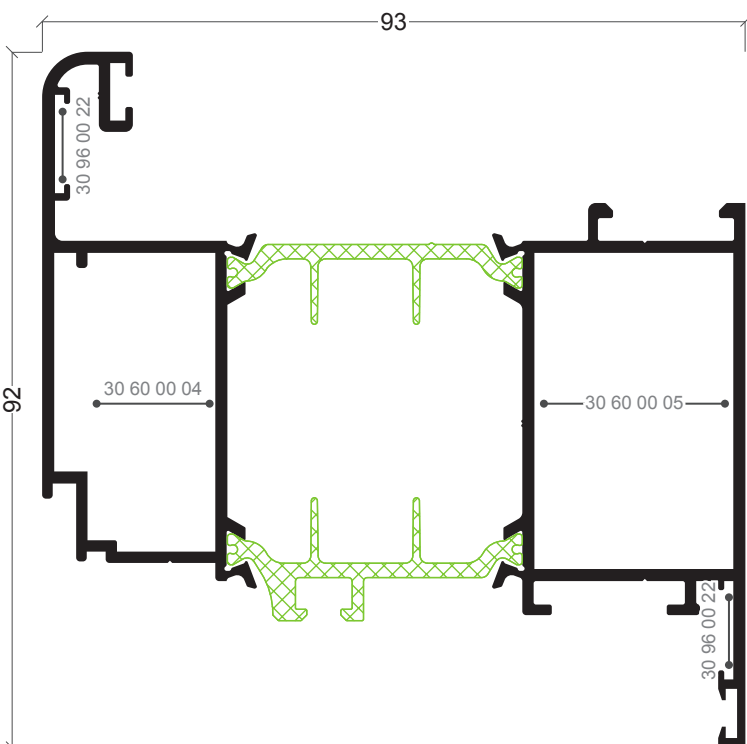
API-94
Aro fixo



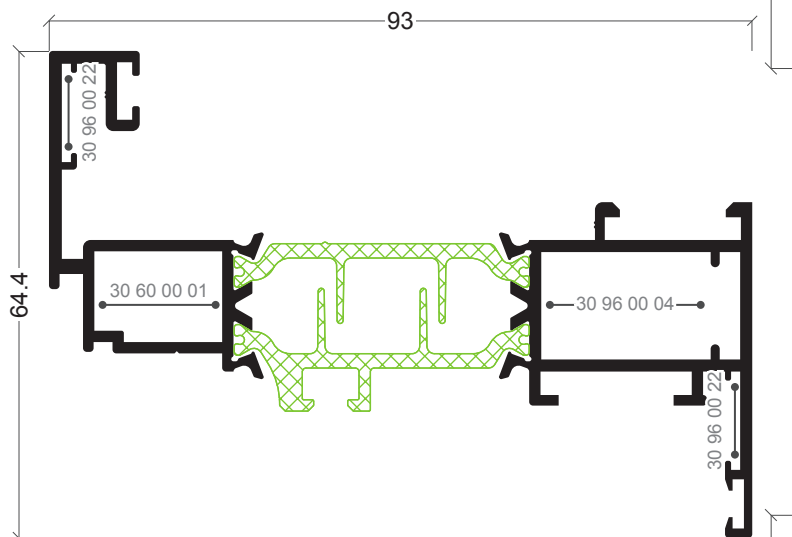
API-73
Inversor de sentido de abertura



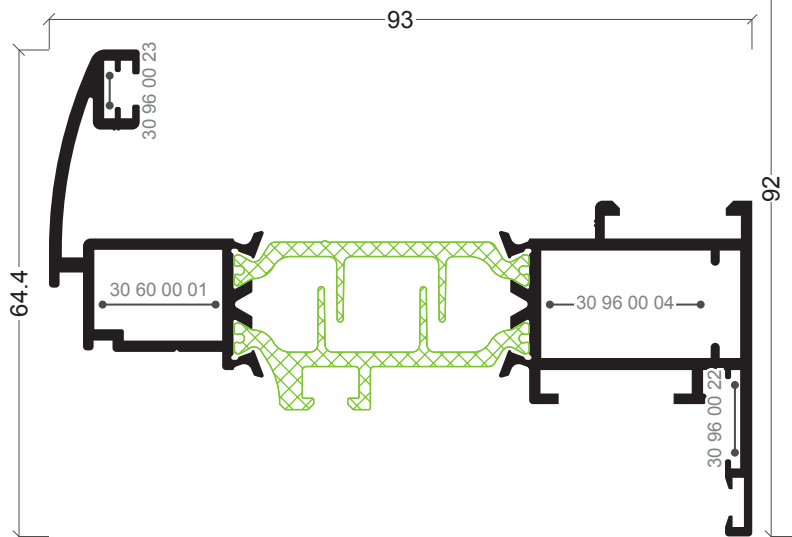
APi-05
Aro móvil



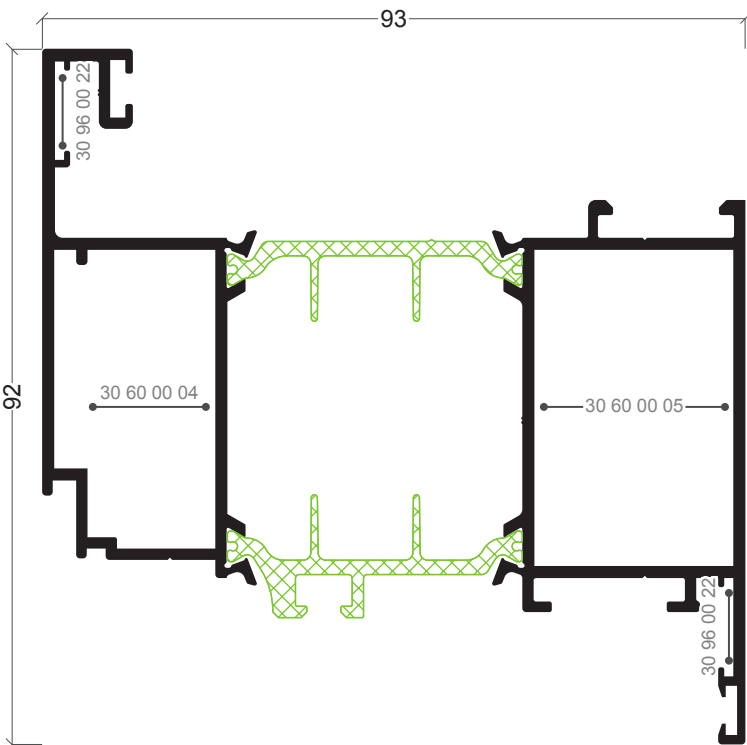
APi-10
Aro móvil



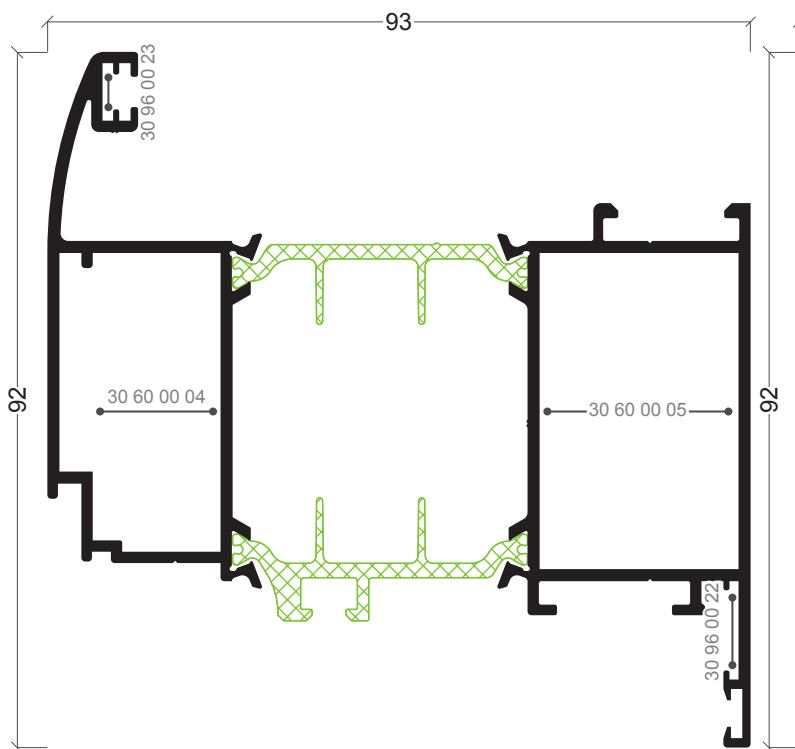
APi-61
Aro móvil



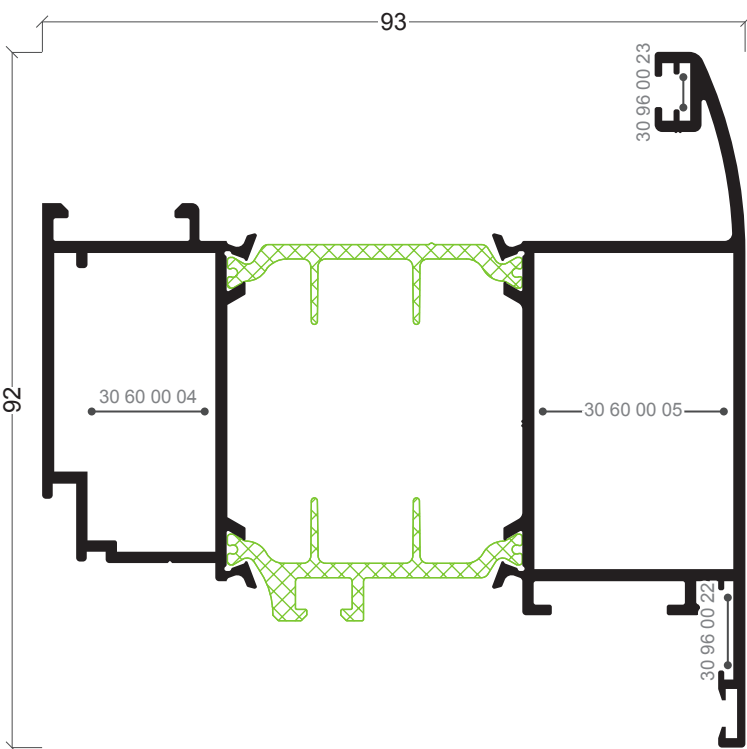
APi-83
Aro móvil



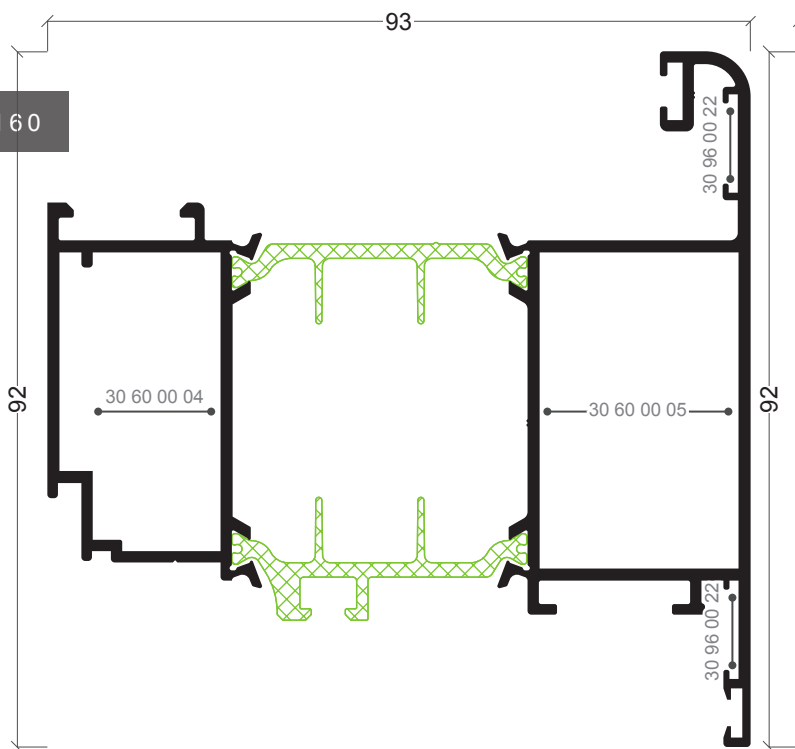
APi-36
Aro móvil



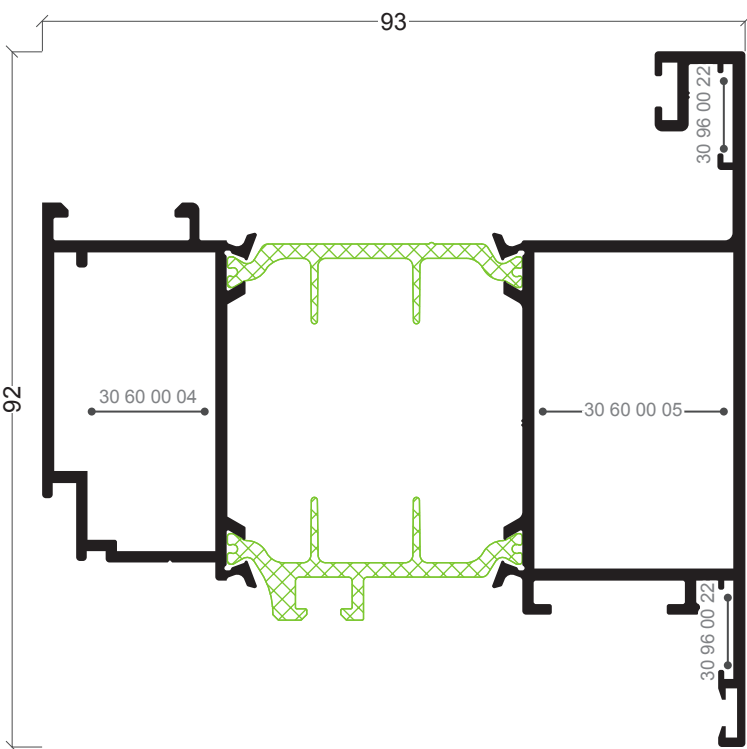
APi-84
Aro móvel



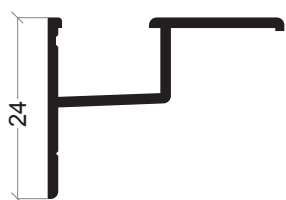
APi-85
Aro móvel



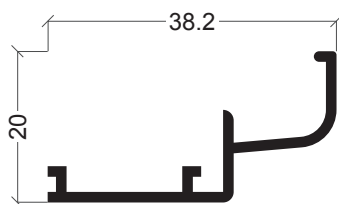
APi-90
Aro móvel



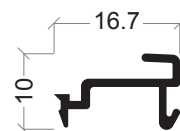
APi-72
Aro móvel



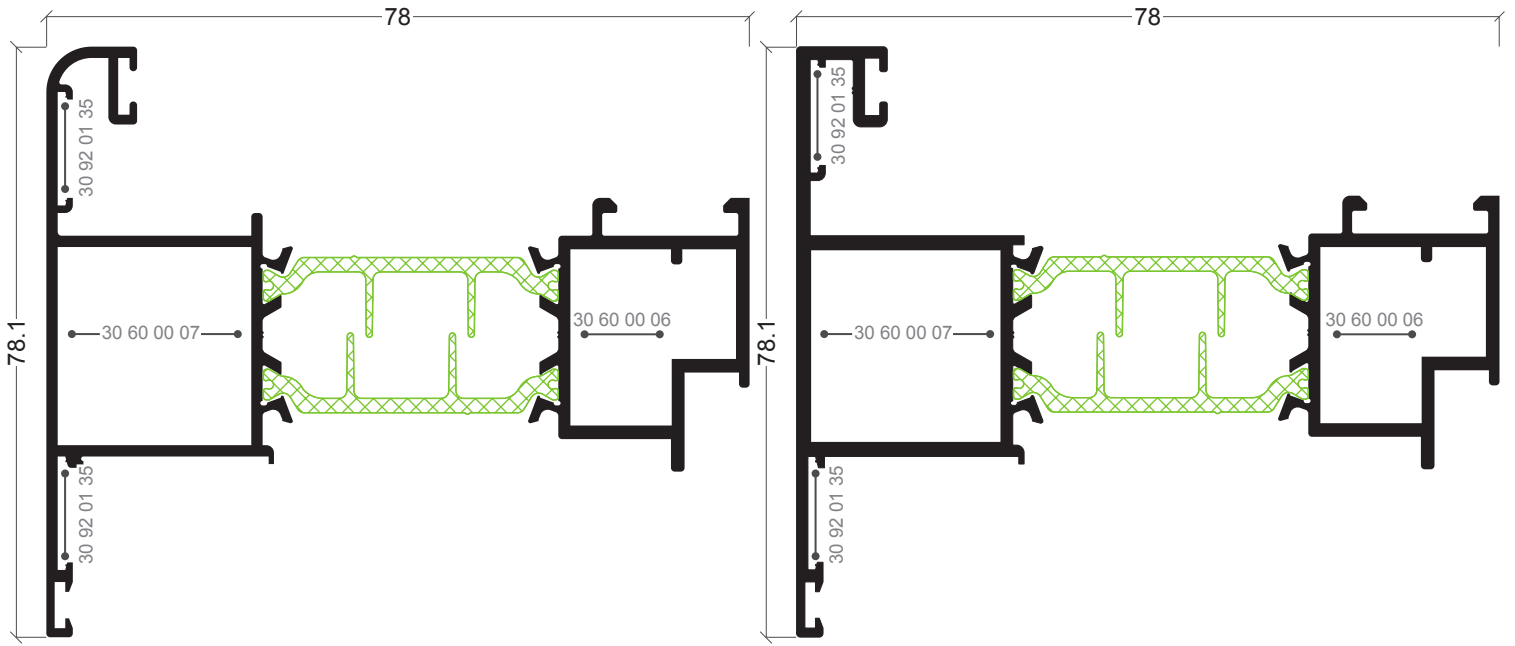
Y-20
Recolha de águas condensação



ARi-32
Complemento condensação

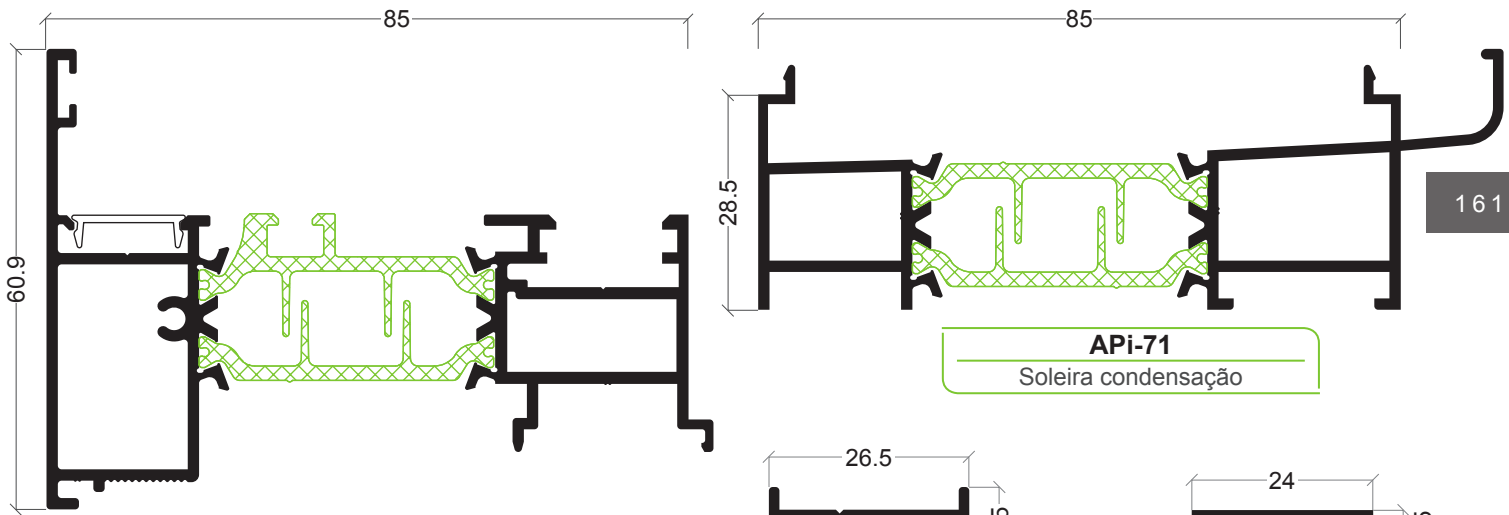


AX-33
Mola Bite



APi-07
Aro móvel projectante

APi-95
Aro móvel projectante

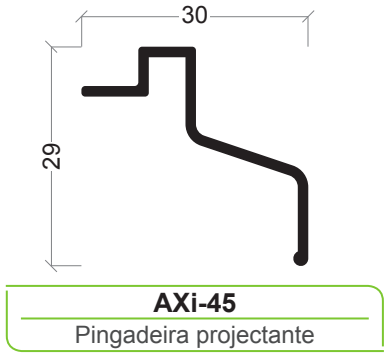


APi-04
Inversor

AXi-32
Complemento projectante

AXi-31
Guia projectante

APi-71
Soleira condensação



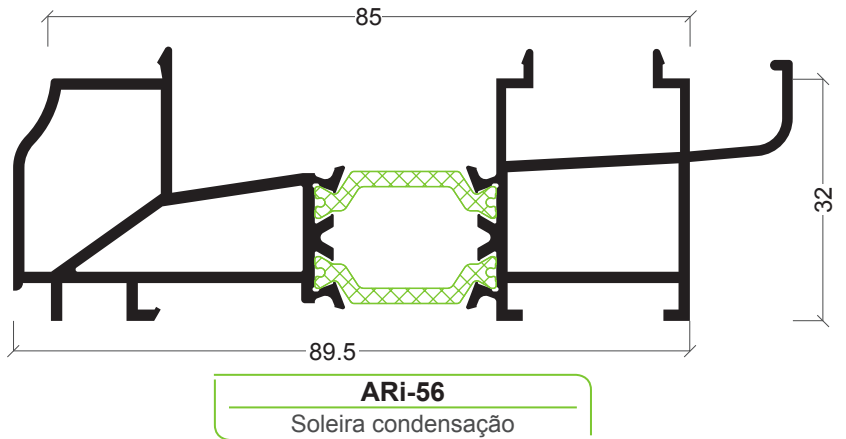
AXi-45
Pingadeira projectante



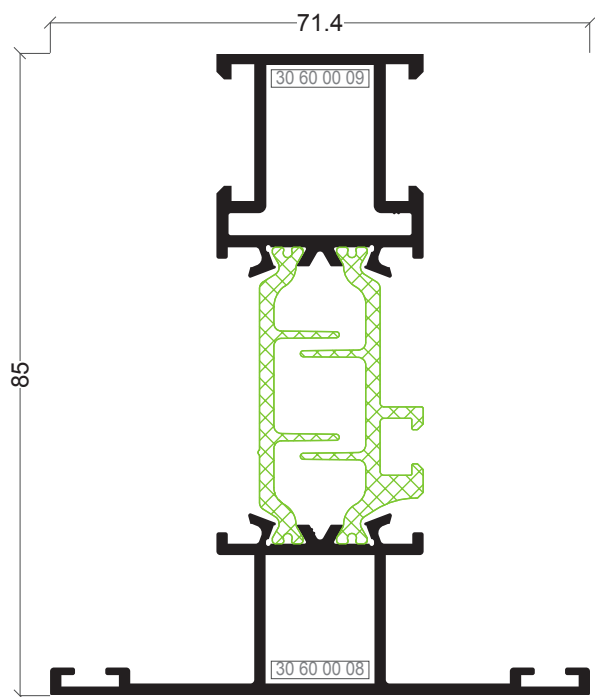
KL-04
Tampa



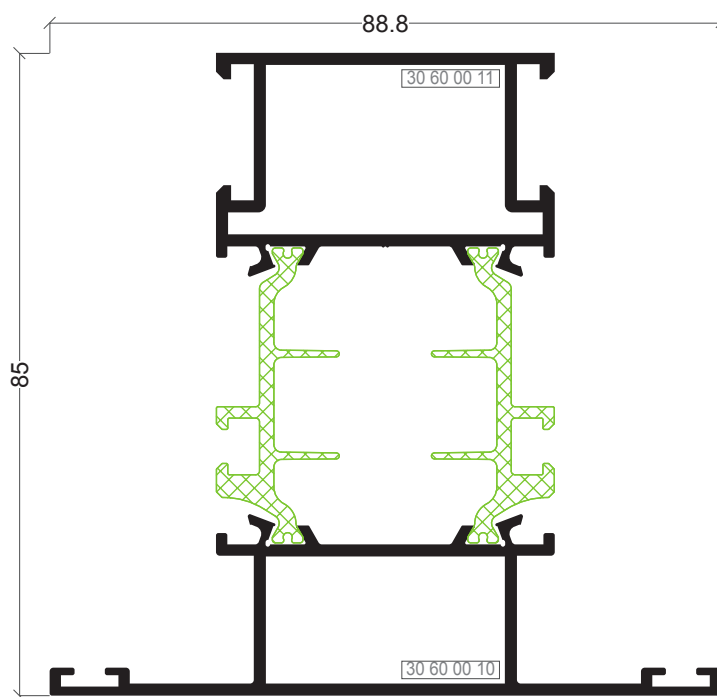
AX-19
Vareta



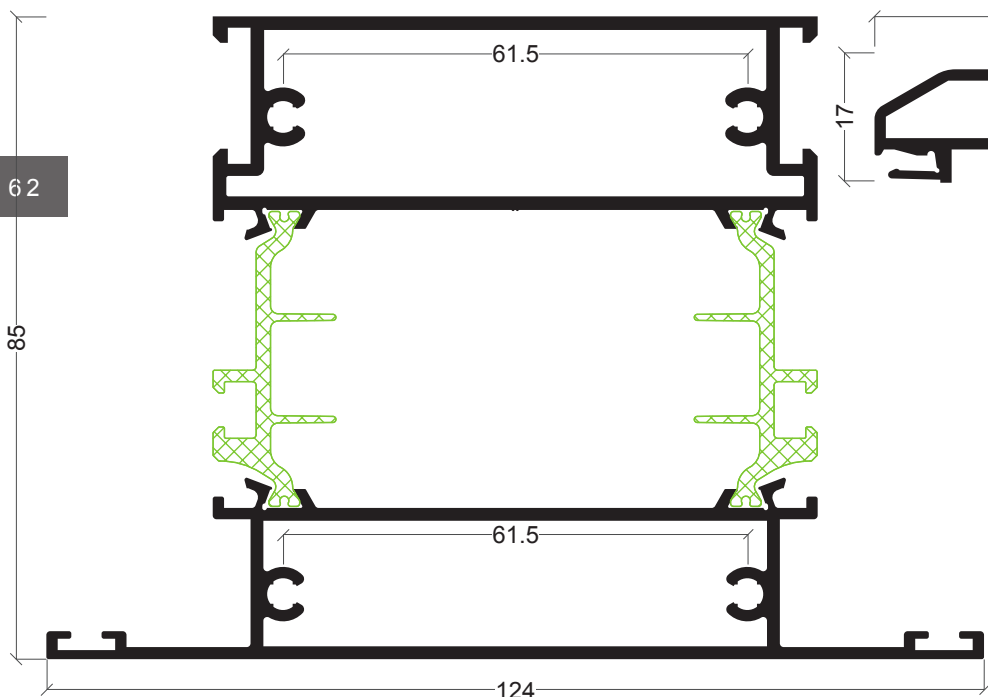
ARi-56
Soleira condensação



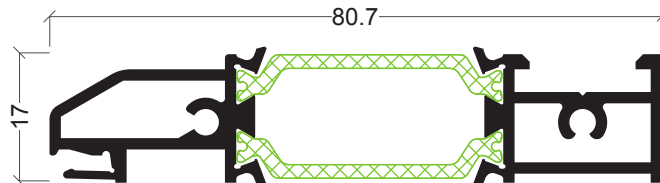
APi-01
Travessa



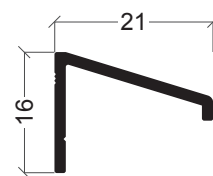
APi-06
Travessa



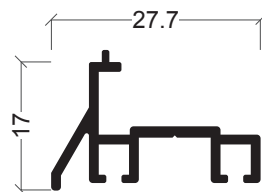
APi-12
Travessa



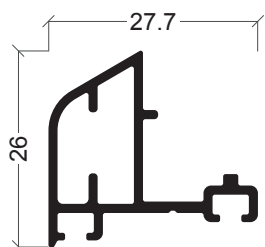
APi-63
Remate inferior porta



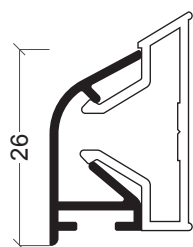
A1-46
Pingadeira janela



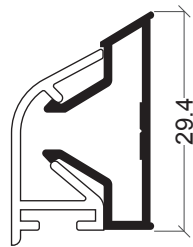
AJi-62
Pingadeira inferior porta sacada



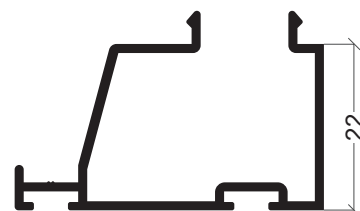
AZ-79
Pingadeira inferior de porta



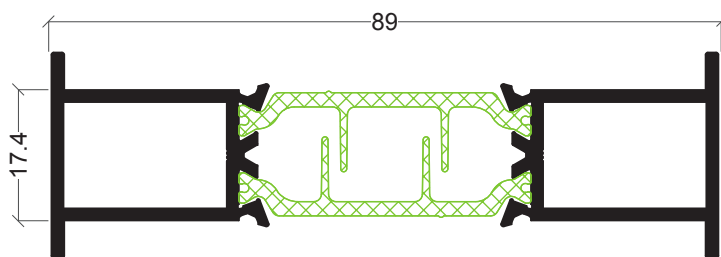
AZ-60
Pingadeira



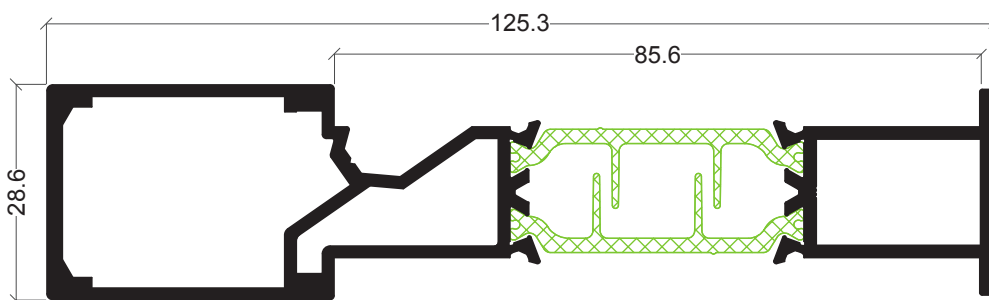
AZ-61
Clip pingadeira



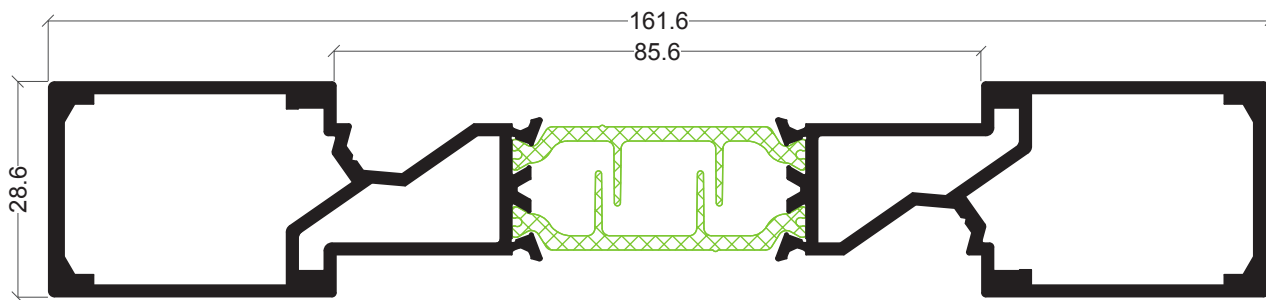
AJi-82
Bite remate



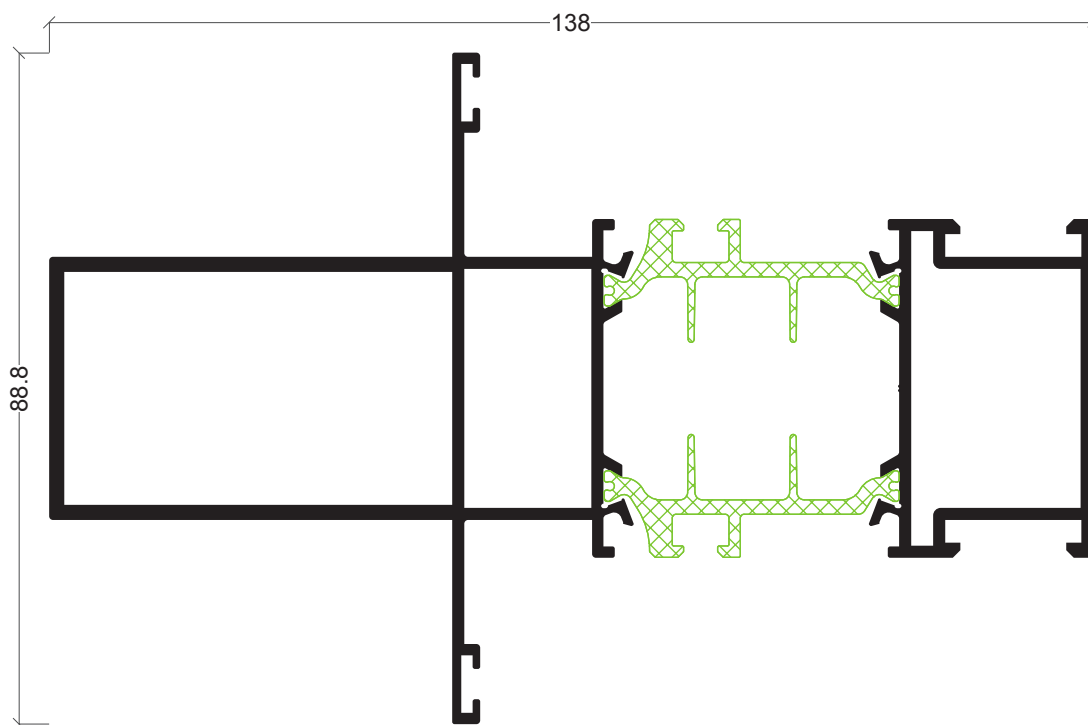
API-21
União de aros



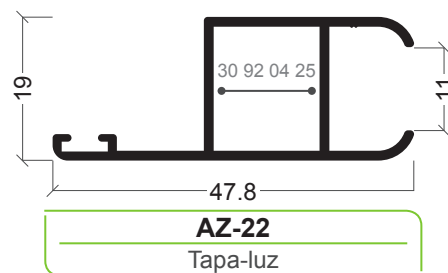
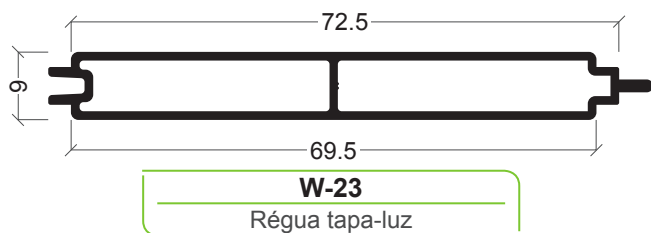
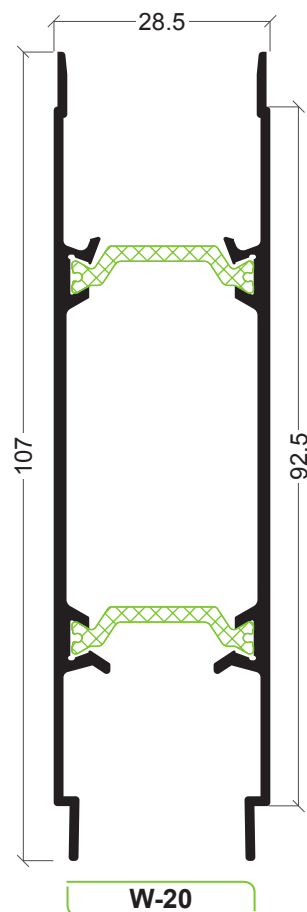
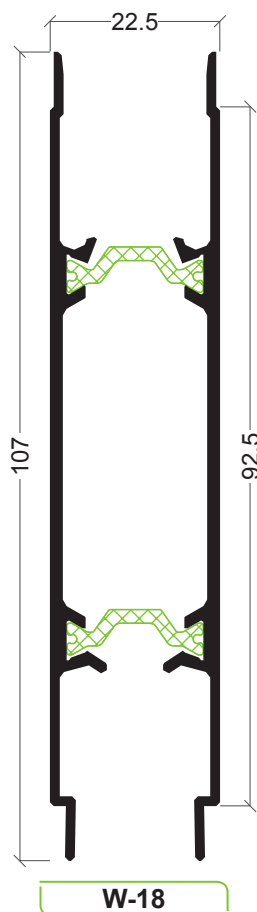
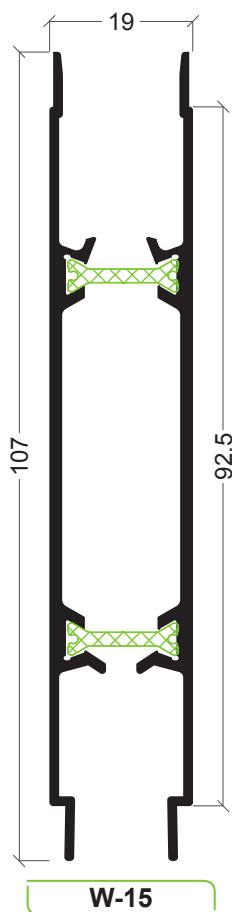
API-65
União de aros

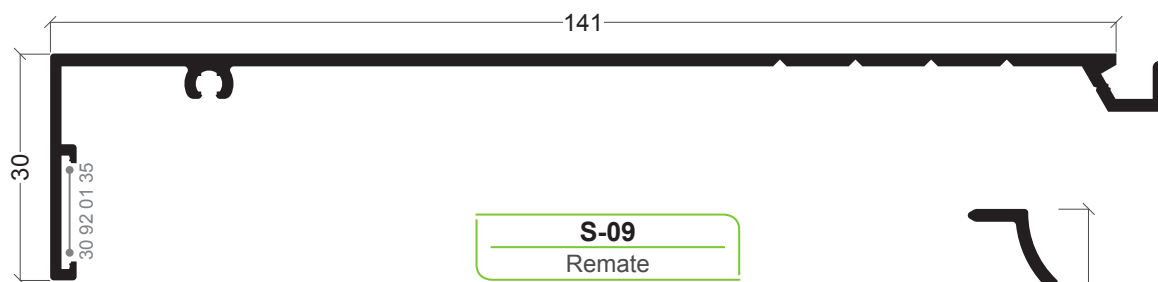


API-67
União de aros

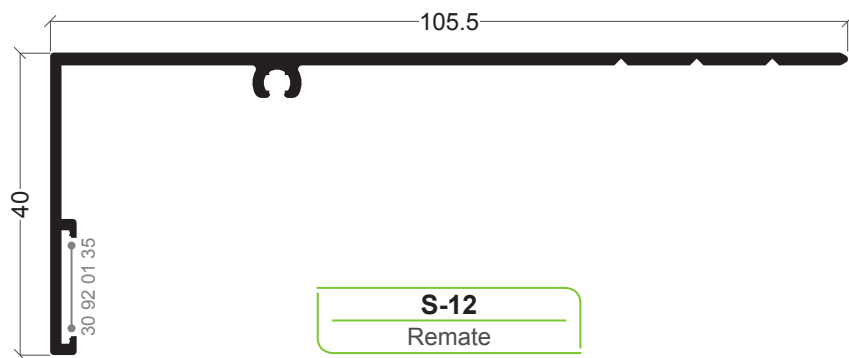


API-79
Montante recto

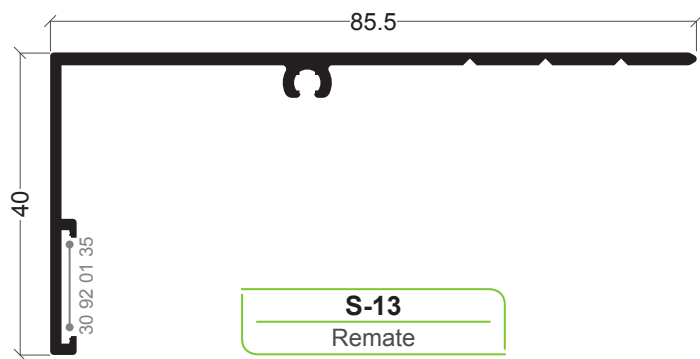




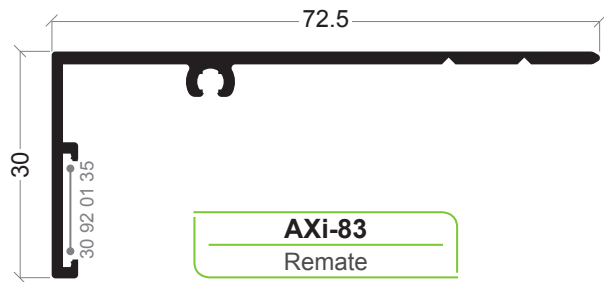
S-09
Remate



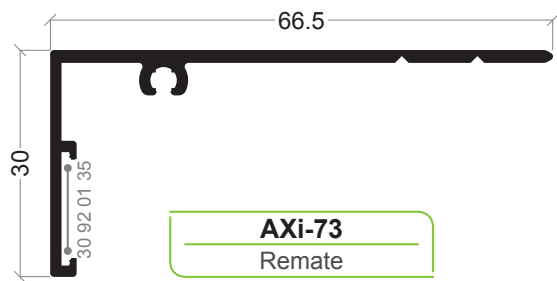
S-12
Remate



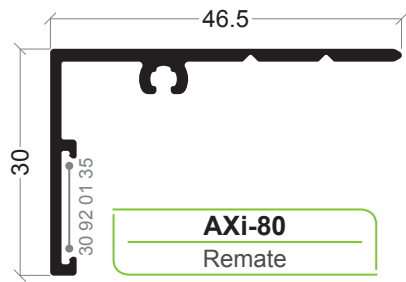
S-13
Remate



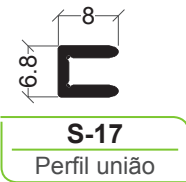
AXi-83
Remate



AXi-73
Remate



AXi-80
Remate



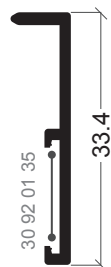
S-17
Perfil união



S-18
Remate



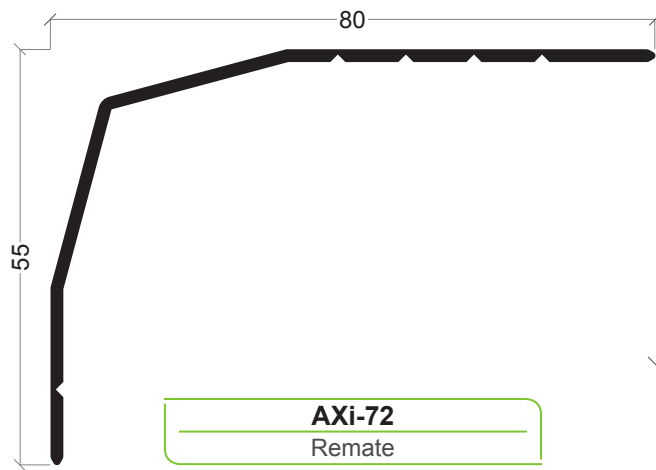
S-14
Remate



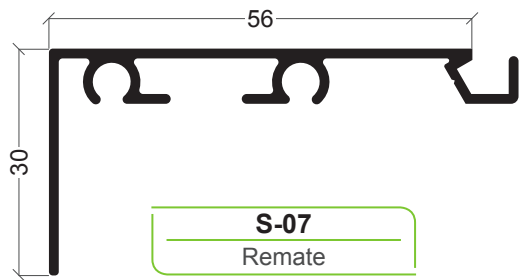
AXi-88
Complemento remate



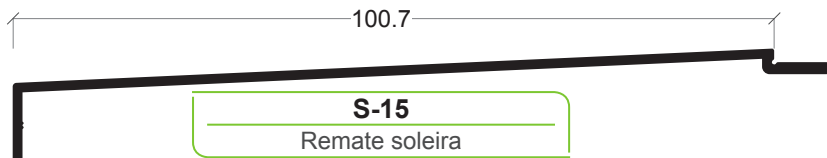
AXi-91
Complemento remate



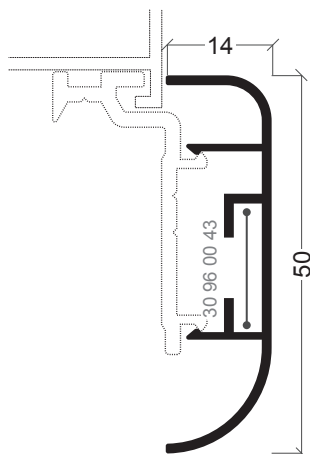
AXi-72
Remate



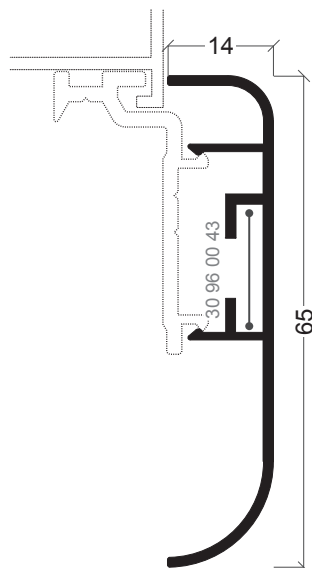
S-07
Remate



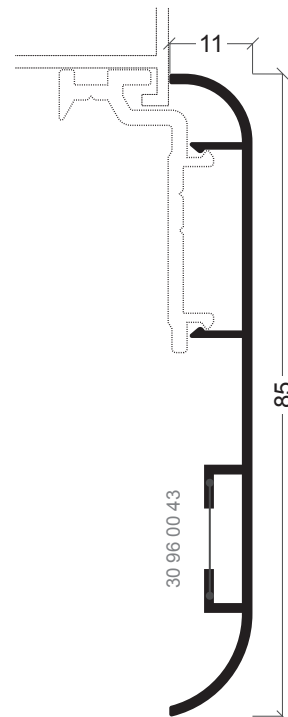
S-15
Remate soleira



ARi-27
Tapa juntas

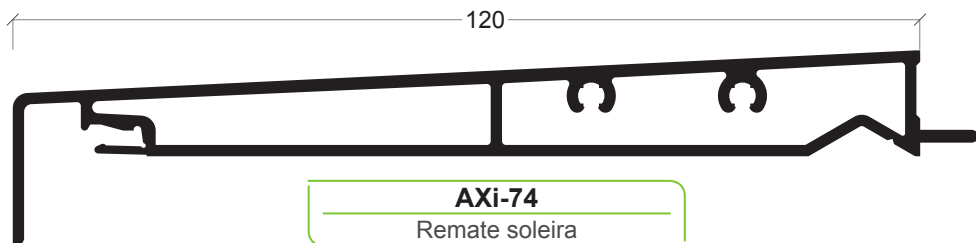


ARi-34
Tapa juntas

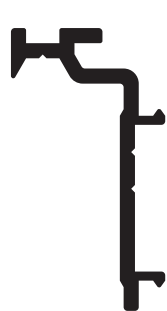


ARi-28
Tapa juntas

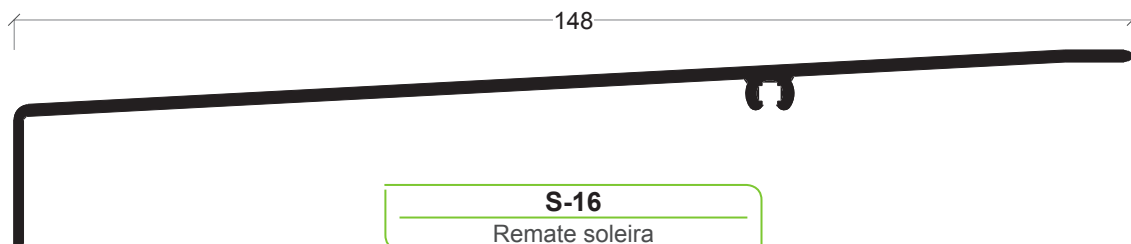
166



AXi-74
Remate soleira



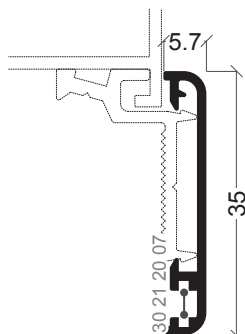
ARi-26
Mola tapa juntas



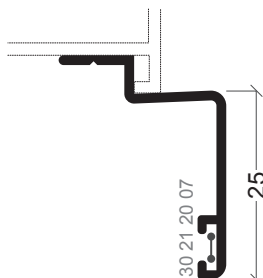
S-16
Remate soleira



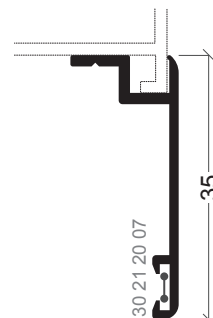
ARi-24
Mola tapa juntas



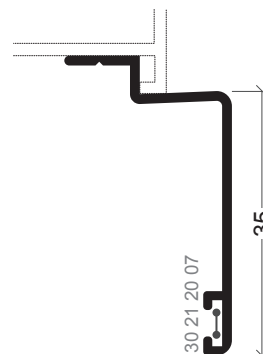
ARi-30
Tapa juntas



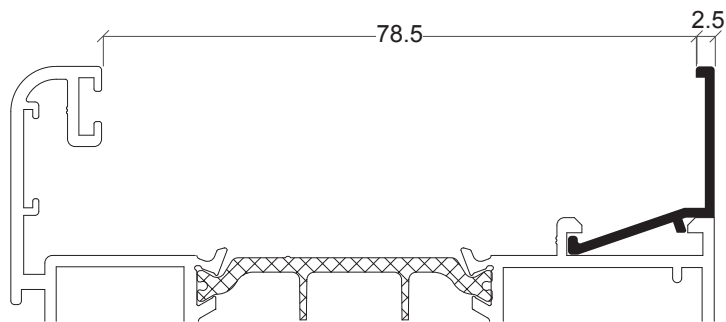
ARi-66
Tapa juntas



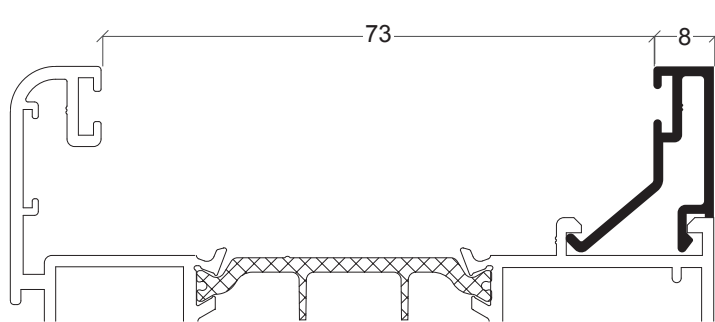
ARi-31
Tapa juntas



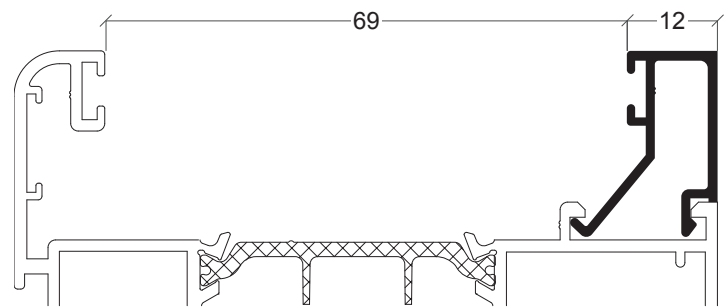
ARi-37
Tapa juntas



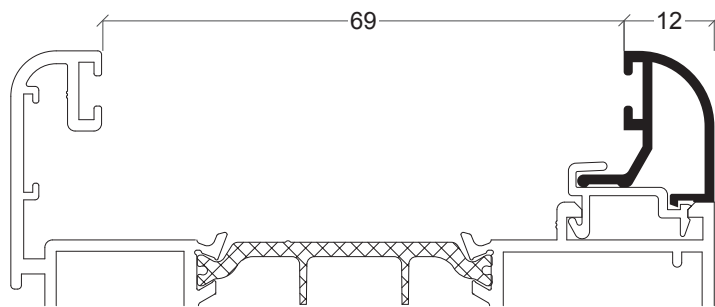
AX-69



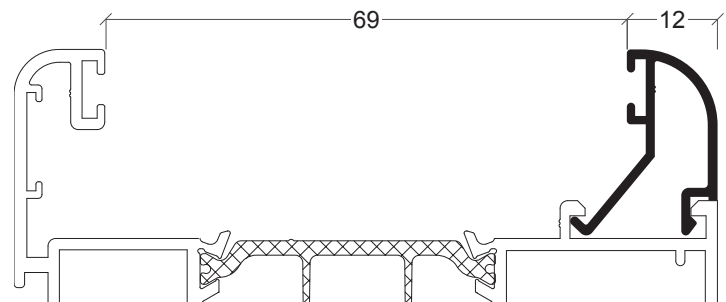
AX-74



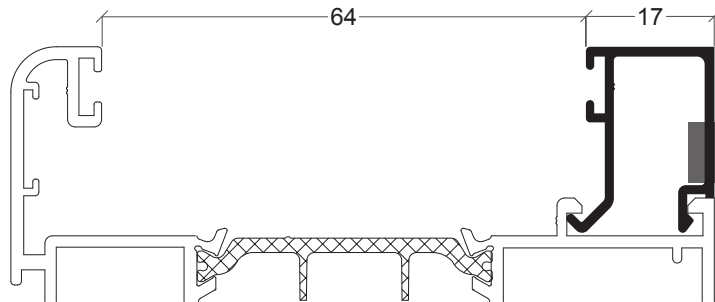
AX-36



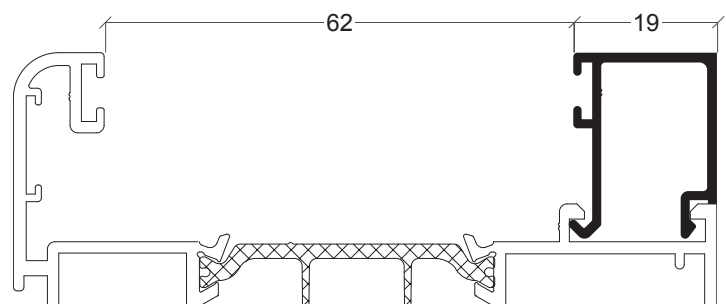
AX-37



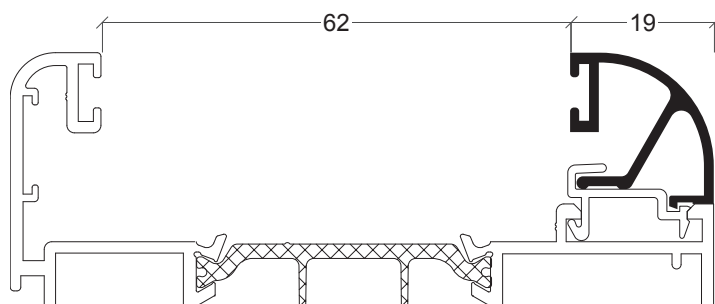
AZ-08



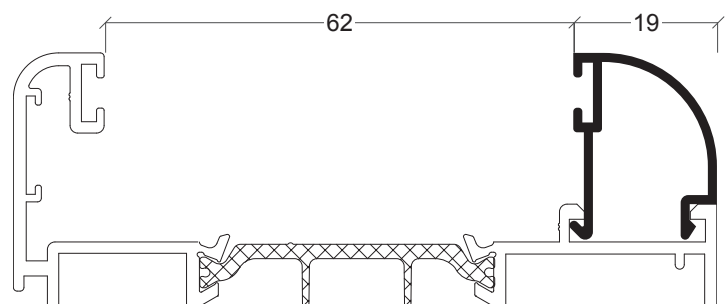
AX-46



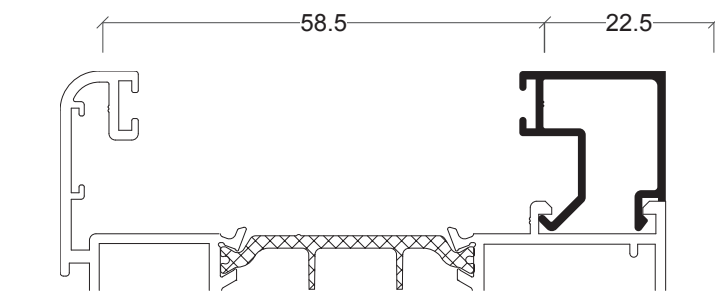
AX-35



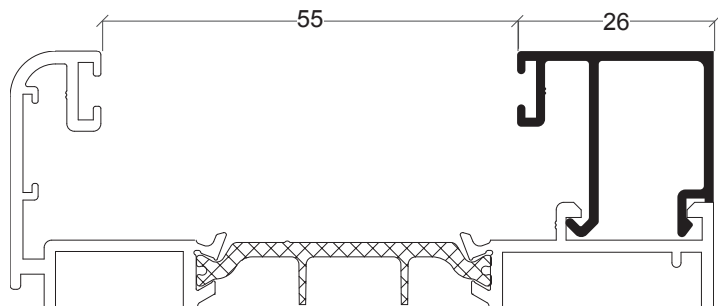
AX-30



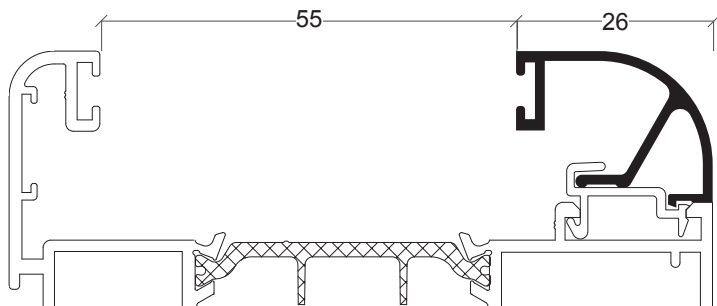
AZ-07



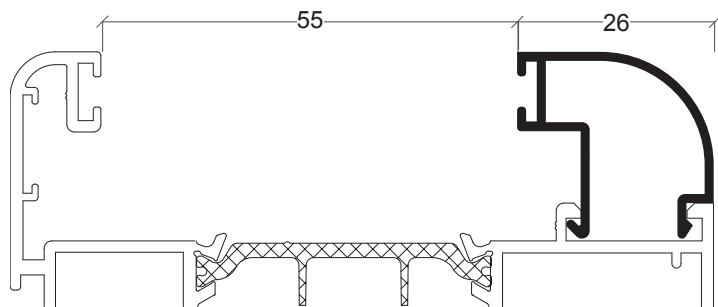
AX-78



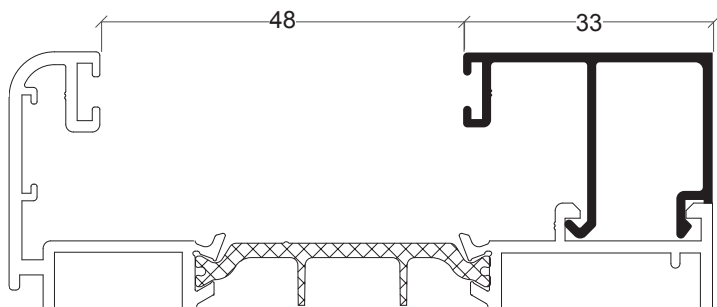
AX-31



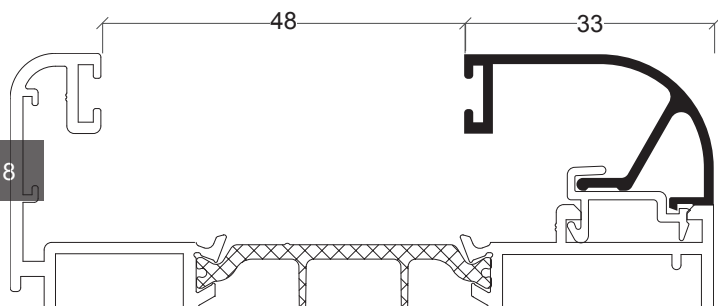
AX-29



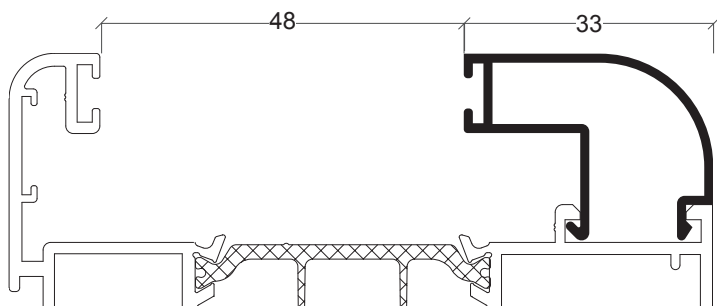
AZ-06



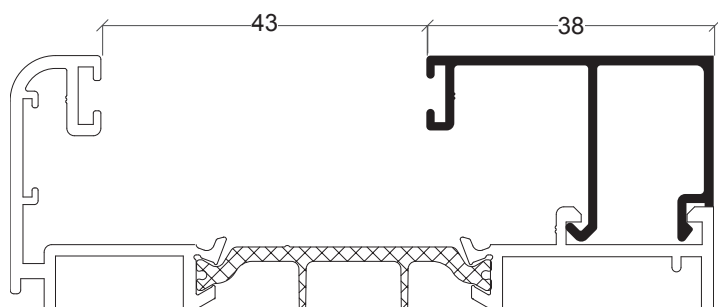
AX-34



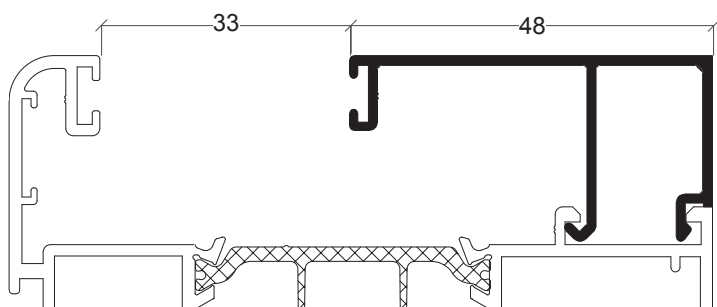
AX-39



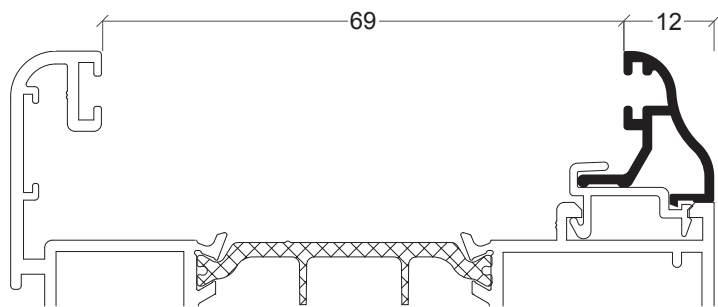
AZ-28



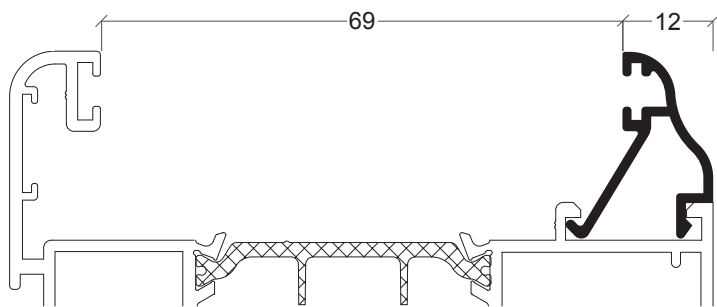
AX-32



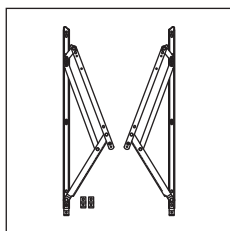
AX-80



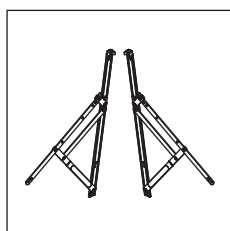
AX-72



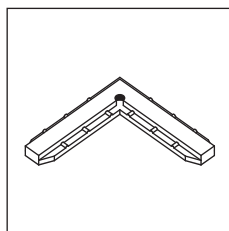
AX-73



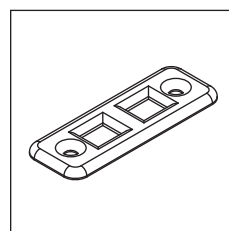
30 00 95 21
Jogo compasso (180 kg)



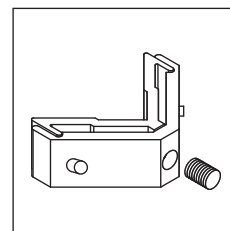
30 00 95 71
Jogo compasso (60 kg)



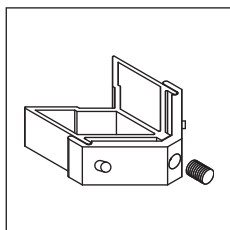
30 21 20 07
Esquadro de alinhamento



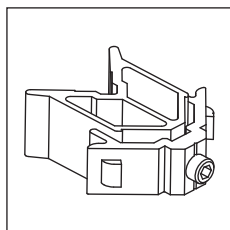
30 24 30 75
Contra-fecho inox



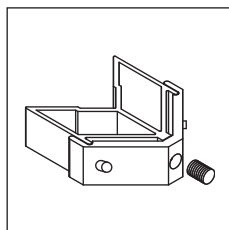
30 60 00 01
Esquadro exterior janela



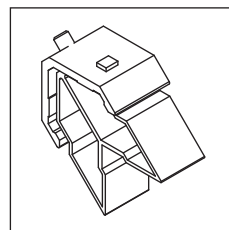
30 60 00 02
Esquadro exterior porta



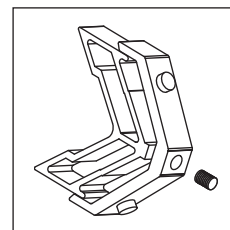
30 60 00 03
Esquadro interior porta com clip



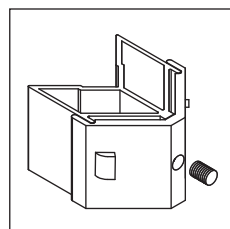
30 60 00 04
Esquadro exterior porta



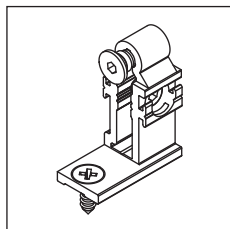
30 60 00 05
Esquadro interior porta



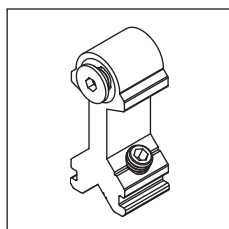
30 60 00 06
Esquadro interior projectante



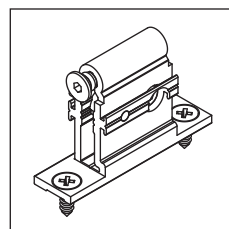
30 60 00 07
Esquadro exterior projectante



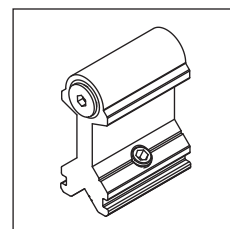
30 60 00 08
União travessa exterior pequena fixo



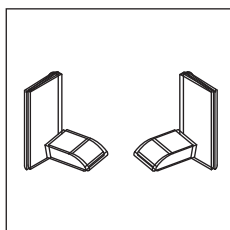
30 60 00 09
União travessa interior pequena



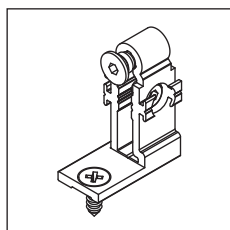
30 60 00 10
União travessa exterior grande fixo/móvel



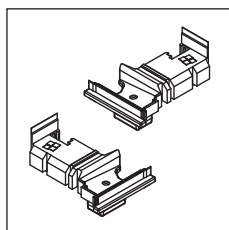
30 60 00 11
União travessa interior grande



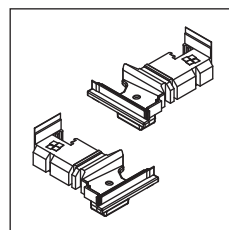
30 60 00 13
Conjunto topos AJI-62



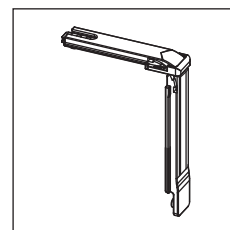
30 60 00 16
União travessa exterior pequena móvel



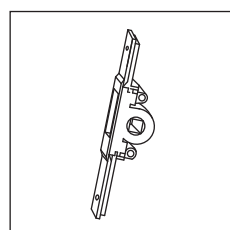
30 70 00 12
Conjunto topos inversor API



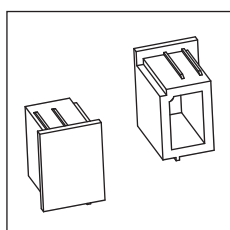
30 70 00 15
Conjunto topos API-63



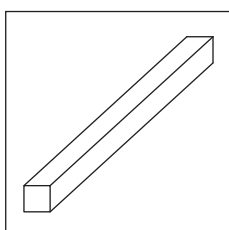
30 90 20 42
Ângulo de reenvio



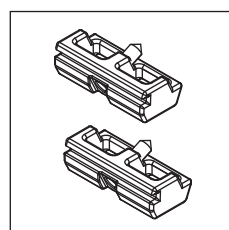
30 90 20 44
Transmissão para abertura exterior



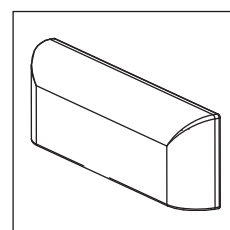
30 91 21 20
Jogo topos condensação Y-20



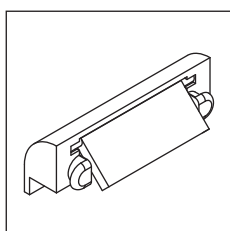
30 91 41 23
Perno 7 x 131 mm



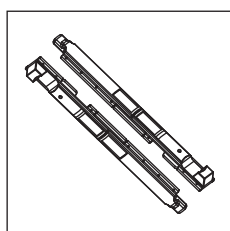
30 92 00 50
Complemento fecho



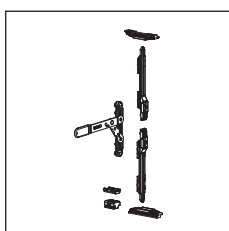
30 92 01 00/01
Goteira preto/branco



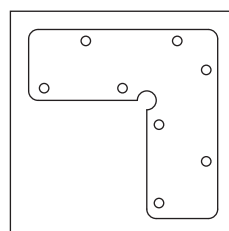
30 92 01 02/03
Goteira com válvula preto /branco



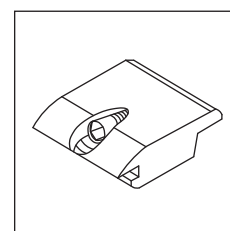
30 92 01 20
Jogo fecho C.E.



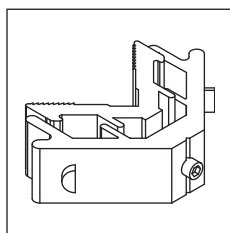
30 92 01 23
Jogo de passadores bidireccional C.E.



30 92 01 35
Esquadro de alinhamento

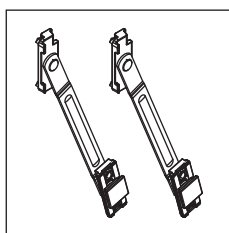


30 92 02 60
Apoio da folha



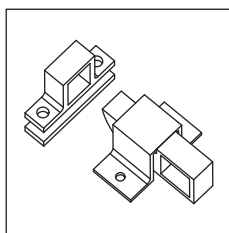
30 92 04 25

Esquadro interior janela fixo com clip



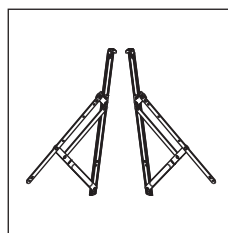
30 92 04 75

Jogo compassos basculante



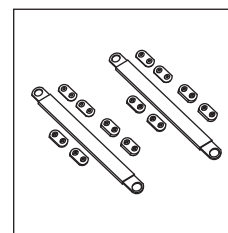
30 92 04 76/77

Fecho clack branco/preto



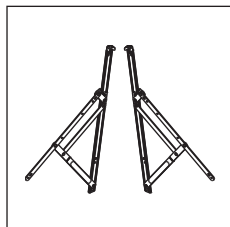
30 92 04 80

Compasso projectante deslizante até 50 kg / folha



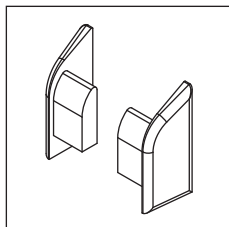
30 92 04 85

Jogo compassos



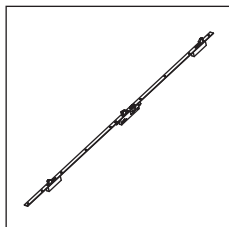
30 92 04 90

Compasso projectante deslizante até 70 kg / folha



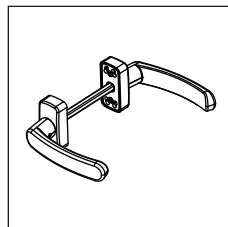
30 92 05 00

Jogo topos



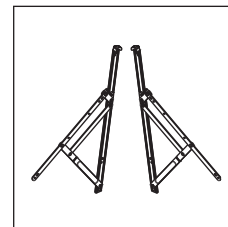
30 92 05 10

Fechadura 3 pontos (35 mm)



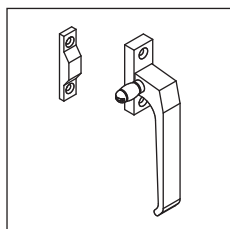
30 92 05 15

Fecho de alavanca com 5 pontos de fecho



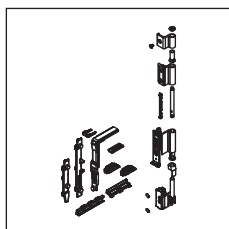
30 92 06 00

Compasso projectante deslizante até 20 kg / folha



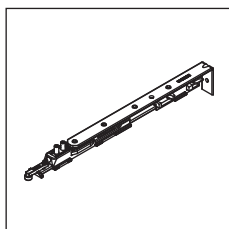
30 92 06 10/11

Cremone de lingueta branco/preto



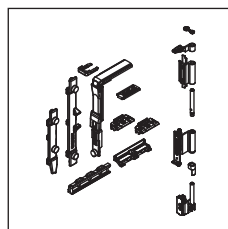
30 92 12 56/57

Kit OB Eco 80 kg sem cremone branco/preto



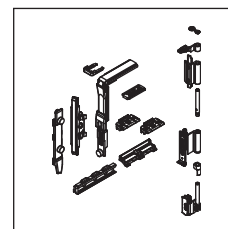
30 92 12 58

Compasso OB Eco 457-1300



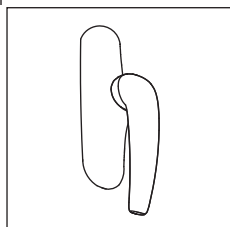
30 92 12 60/61

Kit OB sem cremone branco/preto



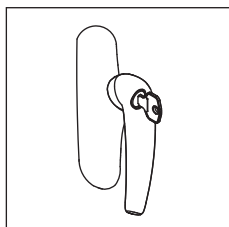
30 92 12 62/63

Kit OB sem puxador com transmissão branco/preto



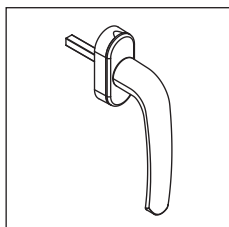
30 92 12 64/65

Cremone OB branco/preto



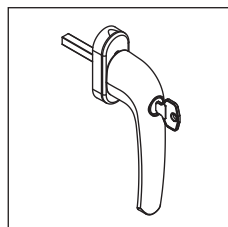
30 92 12 66/67

Cremone OB com chave branco/preto



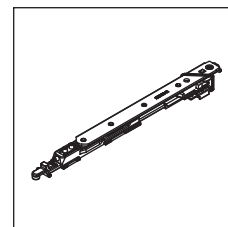
30 92 12 68/69

Puxador branco/preto



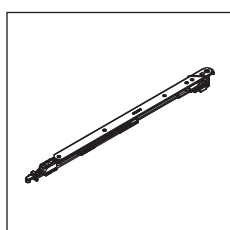
30 92 12 70/71

Puxador com chave branco/preto



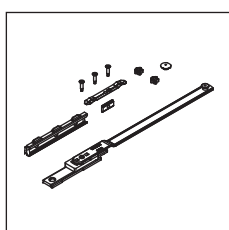
30 92 12 72

Compasso OB pequeno 457-550



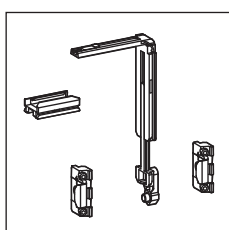
30 92 12 73

Compasso OB grande 551-1800



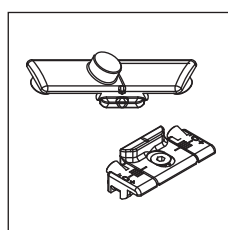
30 92 12 74

Compasso OB suplementar 1000-1800



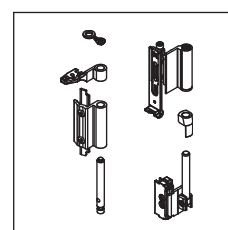
30 92 12 75

Kit fecho 3º ponto OB



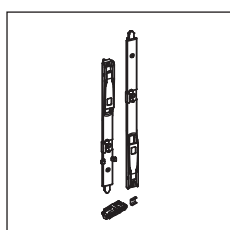
30 92 12 76

Ponto de fecho suplementar



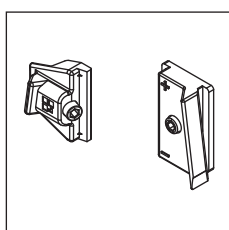
30 92 12 77/78

Kit dobradiça 2ª folha OB branco/preto



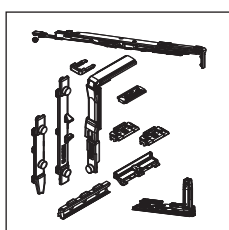
30 92 12 79

Conjunto de fechos 2ª folha OB



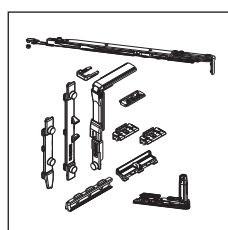
30 92 12 80

Conjunto de ponto de fecho suplementar passivo



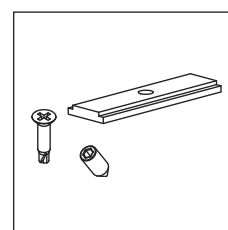
30 92 12 81/82

Kit OB oculto s/ cremone c/ compasso pequeno dir/esq



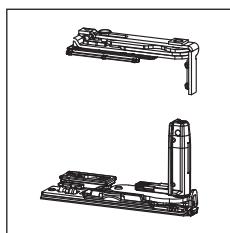
30 92 12 83/84

Kit OB oculto s/ cremone c/ compasso grande dir/esq



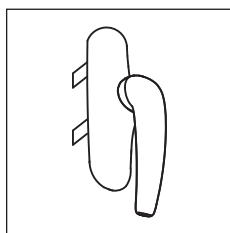
30 92 12 85

Suplemento OB oculto 131-170 kg



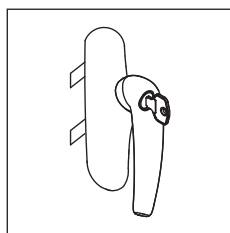
30 92 12 86/87

Kit dobradiça oculto 2ª
folha dir/esq



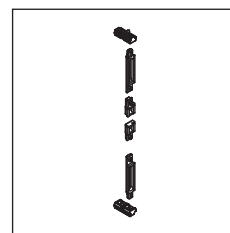
30 92 12 88/89

Cremone batente branco/
preto



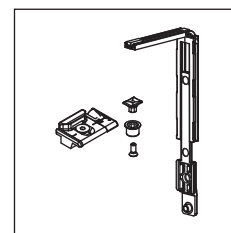
30 92 12 90/91

Cremone batente com
chave branco/preto



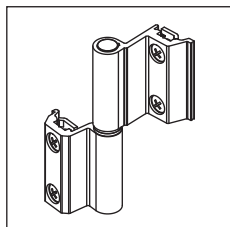
30 92 12 92

Kit batente sem cremone



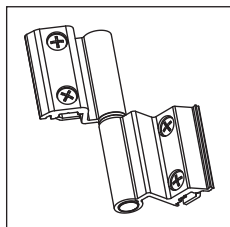
30 92 12 93

Kit fecho 3º ponto vertical
OB oculto



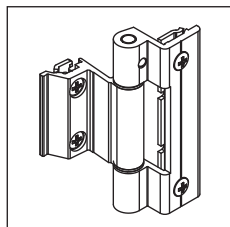
30 92 12 94/95

Dobradiça branco/preto



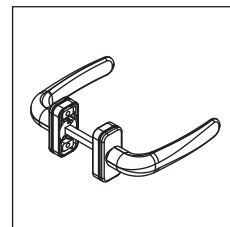
30 92 12 96/97

Dobradiça 3ª folha
branco/preto



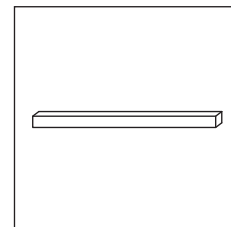
30 92 12 98/99

Dobradiça 3 nós branco/
preto



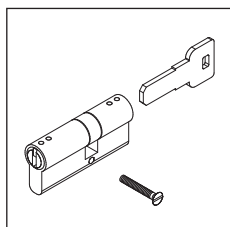
30 92 13 00/01

Puxador duplo branco/
preto



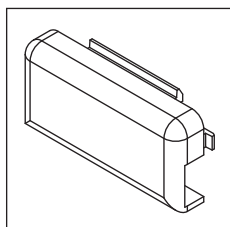
30 92 13 02

Perno 8 x 150 mm



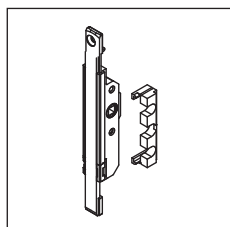
30 92 13 03

Canhão segurança 30 x
80 Níquel



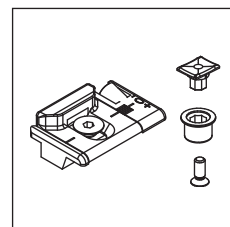
30 92 13 04

Goteira preta



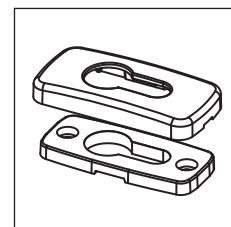
30 92 13 05

Transmissão bi-
direccional



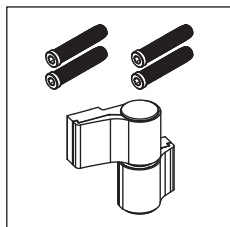
30 92 13 06

Ponto de fecho regulável



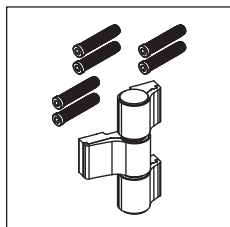
30 92 22 85/86

Escudo para canhão
branco/preto



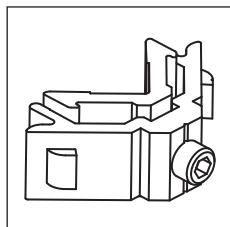
30 92 22 88/89

Dobradiça 2 abas porta c/ ressalto
fixação directa branco/preto



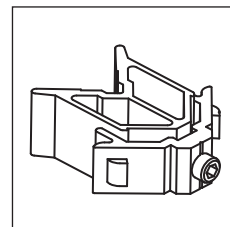
30 92 22 90/91

Dobradiça 3 abas porta c/ ressalto
fixação directa branco/preto



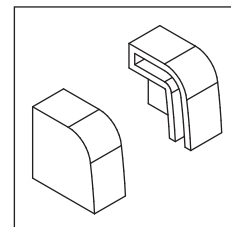
30 96 00 04

Esquadro interior janela



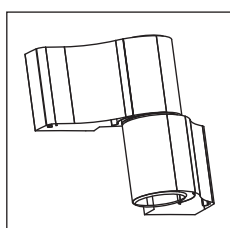
30 96 00 05

Esquadro interior aro fixo
porta



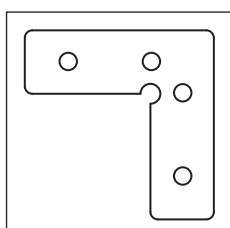
30 96 00 12

Jogo topos condensação



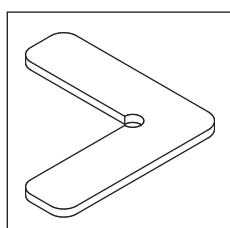
30 96 00 17/21

Dobradiça com ressalto
branco/preto



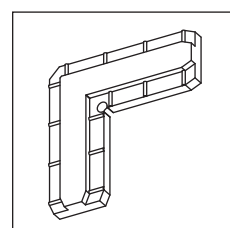
30 96 00 22

Esquadro alinhamento



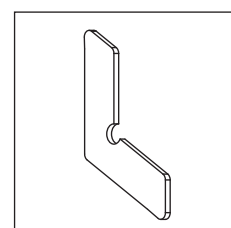
30 96 00 23

Esquadro alinhamento
aro fixo



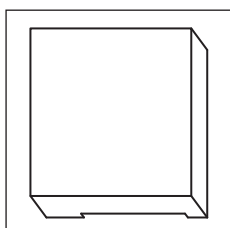
30 96 00 43

Esquadro alinhamento



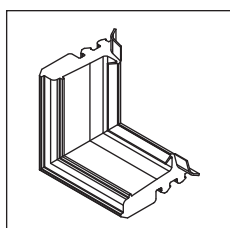
30 96 00 63

Esquadro alinhamento



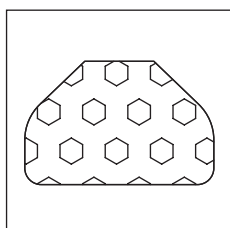
30 96 10 01

Calço para vidro aro
móvel



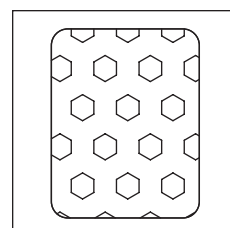
30 96 10 07

Canto vulcanizado



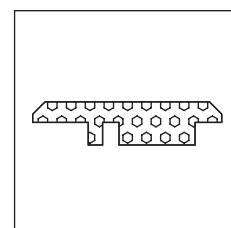
30 99 00 01

ThermoProfile ISO-01



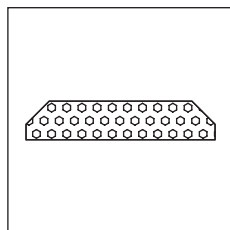
30 99 00 02

ThermoProfile ISO-02



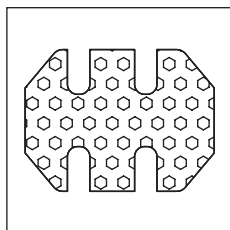
30 99 00 06

ThermoProfile ISO-06



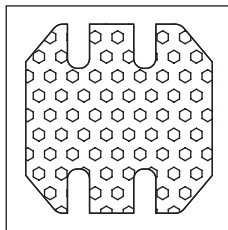
30 99 00 07

ThermoProfile ISO-07



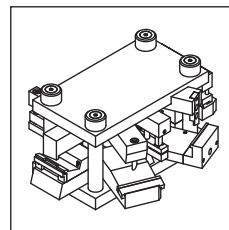
30 99 00 10

ThermoProfile ISO-10



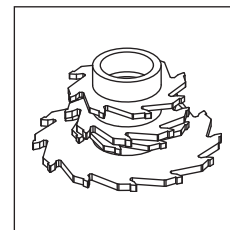
30 99 00 13

ThermoProfile ISO-13



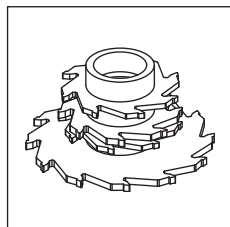
33 98 22 99

Cunho APi



33 98 31 99

Conjunto de frezas fixo



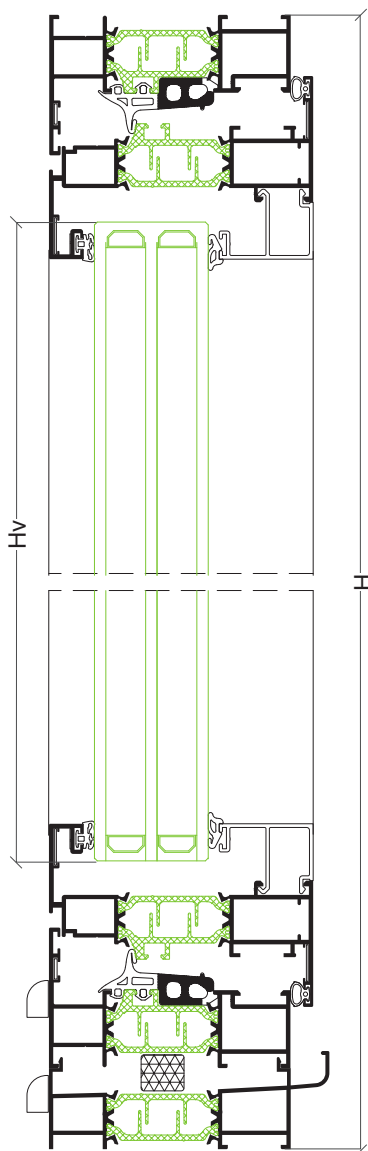
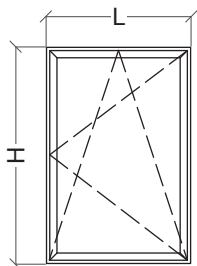
33 98 32 99

Conjunto de frezas móvel


Referência	Desenho	Descrição
30 00 95 15		Junta de vedação curta AZ-79
30 60 00 14		Perfil pelúcia metálica 18 mm preto
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 60 00 18		Junta Isolante
30 92 04 70		Espuma isolante
30 93 00 60		Junta exterior do vidro (4 mm) preto
30 93 00 61		Junta de vedação exterior (2 mm) preto
30 93 00 62		Junta exterior plana para vidro (4 mm) preto
30 93 00 65		Junta interior para vidro (5 mm) preto
30 93 00 66		Junta interior para vidro (4 mm) preto
30 93 00 67		Junta interior para vidro (2 mm) preto
30 93 00 68		Junta interior para vidro (6/7 mm) preto
30 93 00 69		Junta interior para vidro (8/9 mm) preto
30 93 00 82		Junta vedação inferior AZ-79
30 93 01 20		Junta interior
30 94 01 46		Junta para veda-luz AZ-22
30 95 00 10		Pelúcia 7x9 mm
30 96 00 18		Junta interior (abertura projectante/deslizante)
30 96 10 06		Junta central termo isolante

Referência	ThermoProfile (Baguetes de 70 cm)	Aplicação
30 99 00 01		APi-01; APi-03; APi-04; APi-05; APi-07; APi-21; APi-33; APi-35; APi-61; APi-65; APi-67; APi-71; APi-73; APi-74; APi-75; APi-76; APi-80; APi-81; APi-83; APi-86; APi-87; APi-88; APi-89; APi-91; APi-95
30 99 00 02		APi-01; APi-03; APi-04; APi-05; APi-07; APi-21; APi-33; APi-35; APi-61; APi-65; APi-67; APi-71; APi-73; APi-74; APi-75; APi-76; APi-80; APi-81; APi-83; APi-86; APi-87; APi-88; APi-89; APi-91; APi-95
30 99 00 06		APi-01; APi-03; APi-06; APi-08; APi-12; APi-20; APi-33; APi-35; APi-68; APi-73; APi-74; APi-75; APi-76; APi-79; APi-80; APi-81; APi-86; APi-87; APi-88; APi-89; APi-91; APi-92; APi-93; APi-94
30 99 00 07		APi-05; APi-07; APi-10; APi-36; APi-61; APi-72; APi-83; APi-84; APi-85; APi-90; APi-95
30 99 00 10		APi-06; APi-08; APi-68; APi-79; APi-92; APi-93; APi-94
30 99 00 13		APi-10; APi-36; APi-72; APi-84; APi-85; APi-90

Janela 1 folha abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	API-03	Aro fixo		2	L
				2	H-28.5 mm
	API-61	Aro móvel		2	L-43 mm
				2	H-71.5 mm
	---	Bite		2	L-132 mm
				2	H-200.5 mm
	AX-19	Vareta		várias	---
	API-71	Soleira		1	L

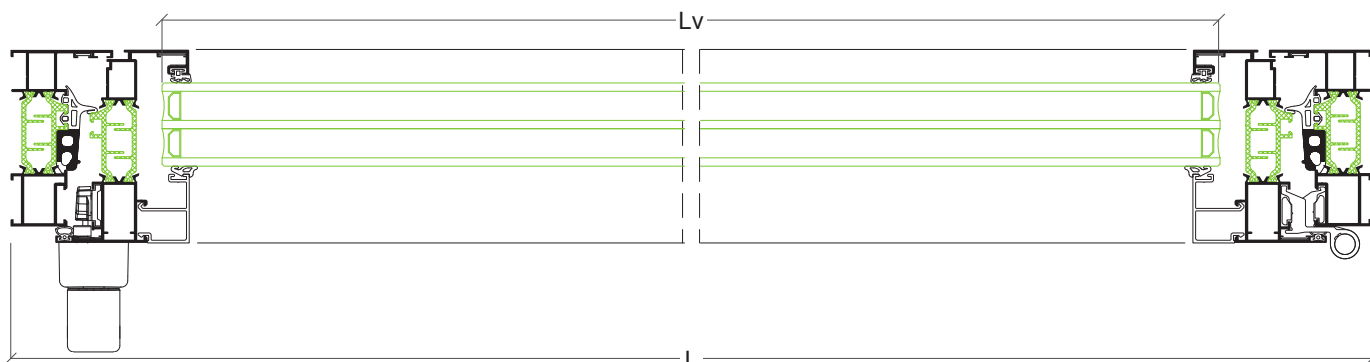
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 96 00 04	Esquadro interior		8
30 60 00 01	Esquadro exterior		8
30 96 00 23	Esquadro alinhamento fixo		4
30 96 00 22	Esquadro alinhamento móvel		8
30 96 10 01	Calço para vidro	4	6
30 92 12 64/65	Cremona OB	---	1
30 92 12 88/89	Cremona batente branco/preto	1	---
---	Ferragem oscilo-batente (ver páginas 27/28)	---	1
30 92 12 92	Kit batente	1	---
30 92 12 94/95	Dobradiça branco/preto	2 ou mais	---
30 92 13 06	Ponto de fecho regulável (H > 1100 mm)	1	---
30 92 02 60	Apoio da folha	1	---
30 92 01 02	Goteira com válvula preto		4 ou mais
30 96 00 12	Jogo topos condensação		1
30 92 04 70	Espuma isolante		L
30 93 01 20	Junta interior		2L+2H
30 96 10 06	Junta central termo isolante		2L+2H
30 96 10 07	Canto vulcanizado		4
---	Junta para vidro (exterior)		2L+2H
---	Junta para vidro (interior)		2L+2H

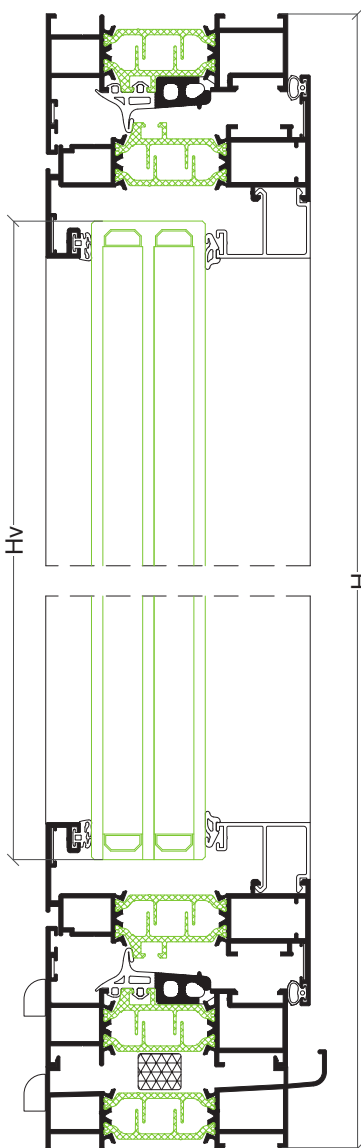
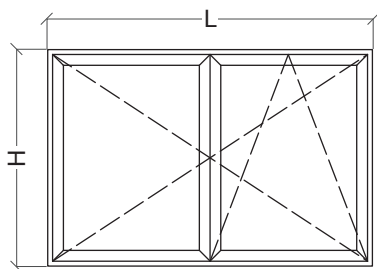
173

Vidro

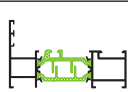


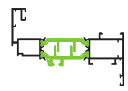













Hv = H-174 mm	Lv = L-146 mm
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Janela 2 folhas abrir e oscilo-batente



Perfis

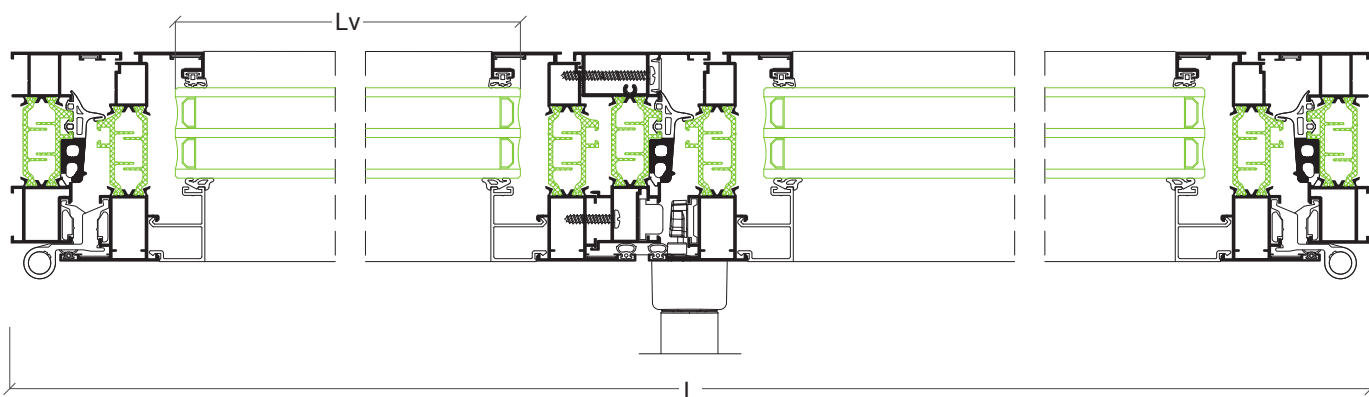
Desenho	Ref	Descrição	Corte	Quant	Medida
	API-03	Aro fixo		2	L
				2	H-28.5 mm
	API-61	Aro móvel		2	L/2-24 mm
				2	H-71.5 mm
	---	Bite		4	L/2-113 mm
				4	H-200.5 mm
	AX-19	Vareta		várias	---
	API-04	Inversor		1	H-139.5 mm
	KL-04	Perfil tampa		1	H-139.5 mm
	API-71	Soleira		1	L

Acessórios e Juntas

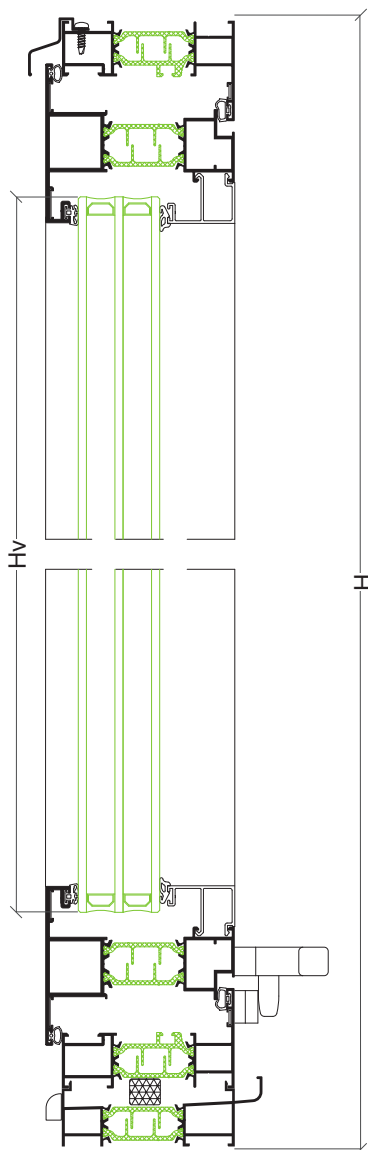
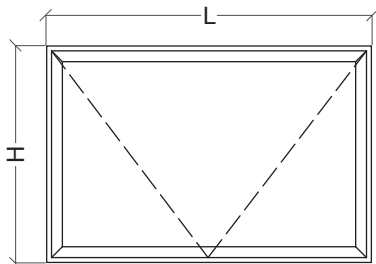
Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 96 00 04	Esquadro interior		12
30 60 00 01	Esquadro exterior		12
30 96 00 23	Esquadro alinhamento fixo		4
30 96 00 22	Esquadro alinhamento móvel		16
30 96 10 01	Calço para vidro	8	12
30 92 12 64/65	Cremona OB	---	1
---	Ferragem oscilo-batente (ver páginas 27/28)	---	1
30 92 12 92	Kit batente	1	---
30 92 01 20	Jogo fecho C.E.	1	---
30 92 12 94/95	Dobradiça branco/preto	4 ou mais	---
30 92 13 06	Ponto de fecho regulável (H > 1100 mm)	1	---
30 92 02 60	Apoio da folha	1	---
30 70 00 12	Conjunto topos inversor		1
30 96 10 06	Junta central termo isolante		2L+3H
30 96 10 07	Canto vulcanizado		4
30 92 01 02	Goteira com válvula preto		4 ou mais
30 96 00 12	Jogo topos condensação		1
30 92 04 70	Espuma isolante		L
30 93 01 20	Junta interior		2L+4H
---	Junta para vidro (exterior)		2L+4H
---	Junta para vidro (interior)		2L+4H

Vidro

Hv = H-174 mm	Lv = L/2-127 mm
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Janela projectante



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	API-03	Aro fixo		2	L
				2	H-28.5 mm
	API-95	Aro móvel		2	L-43 mm
				2	H-71.5 mm
	---	Bite		2	L-159.5 mm
				2	H-228 mm
	API-71	Soleira		1	L
	AXi-45	Pingadeira		1	L
	AXi-32	Complemento		1	segundo medida do compasso

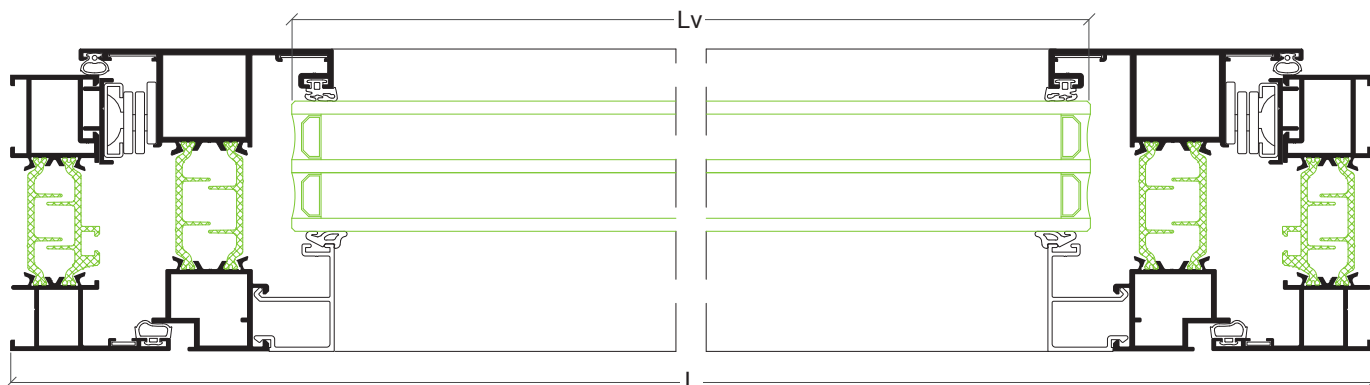
Acessórios e Juntas

Referência	Descrição	Quantidade
30 96 00 04	Esquadro interior	4
30 60 00 01	Esquadro exterior	4
30 96 00 23	Esquadro alinhamento fixo	4
30 92 01 35	Esquadro alinhamento móvel	8
30 96 00 06	Esquadro interior	4
30 96 00 07	Esquadro exterior	4
30 96 10 01	Calço para vidro	4
30 96 06 10 ou 11	Cremona de lingueta	2
---	Jogo compasso projectante	1
30 92 01 02	Goteira com válvula preto	2 ou mais
30 96 00 12	Jogo topos condensação	1
30 92 04 70	Espuma isolante	L
30 93 01 20	Junta exterior	2L+2H
30 96 00 18	Junta interior projectante deslizante	2L+2H
---	Junta para vidro (exterior)	2L+2H
---	Junta para vidro (interior)	2L+2H

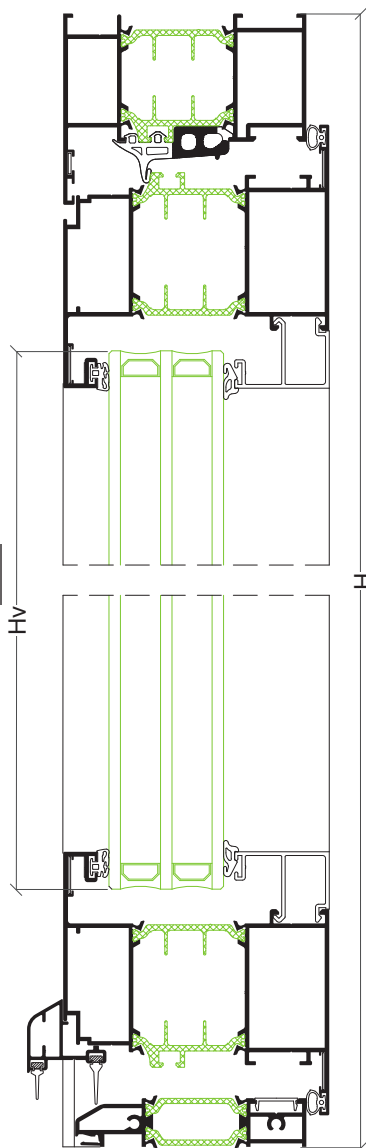
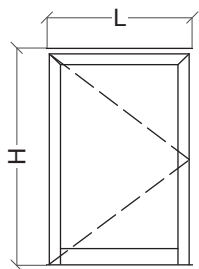
175

Vidro

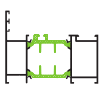


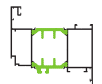











Hv = H-202 mm	Lv = L-173 mm
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Porta 1 folha



Perfis

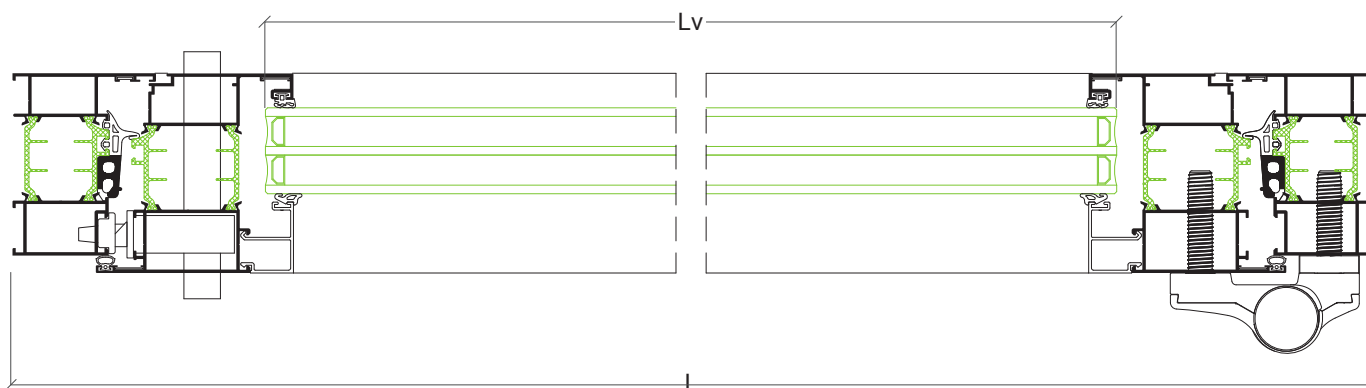
Desenho	Ref	Descrição	Corte	Quant	Medida
	API-08	Aro fixo		1	L
				2	H
	API-36	Aro móvel		2	L-78 mm
				2	H-50 mm
	---	Bite		2	L-222 mm
				2	H-234 mm
	API-63	Remate inferior porta		1	L-80.5 mm
	AZ-79	Pingadeira		1	L-135 mm
	KL-04	Perfil tampa		1	L-90 mm

Acessórios e Juntas

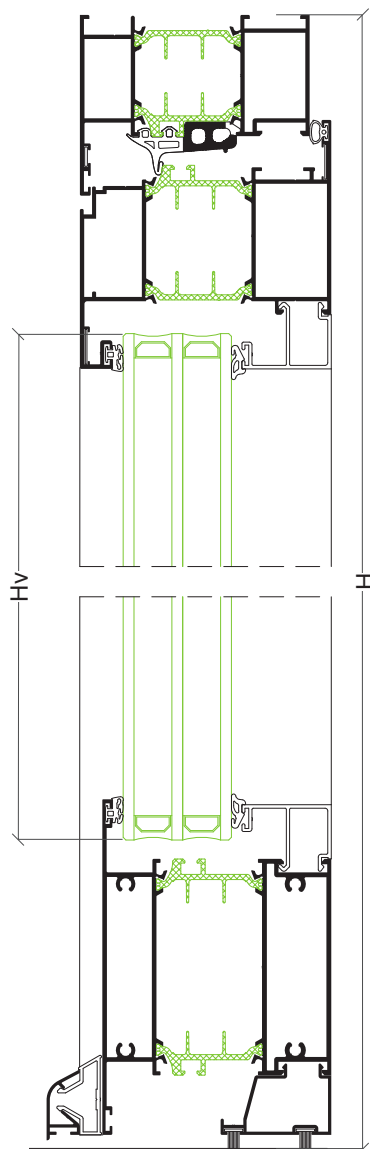
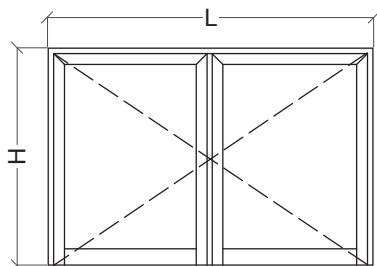
Referência	Descrição	Quantidade
30 96 00 05	Esquadro interior	2
30 60 00 02	Esquadro exterior	2
30 60 00 05	Esquadro interior móvel	4
30 60 00 04	Esquadro exterior móvel	4
30 96 00 23	Esquadro alinhamento fixo	2
30 96 00 22	Esquadro alinhamento móvel	8
30 96 10 01	Calço para vidro	4
30 92 22 88 ou 89	Dobradiça 2 abas porta	2
30 92 05 10	Fechadura 3 pontos	1
30 92 13 00 ou 01	Puxador duplo	1
30 92 13 02	Perno	1
30 92 22 85 ou 86	Escudo para canhão	1
30 92 13 03	Canhão	1
30 93 01 20	Junta interior	2L+2H
30 96 10 06	Junta central	L+2H
30 96 10 07	Canto vulcanizado	2
30 92 05 00	Conjunto topos pingadeira	1
30 00 95 15	Junta inferior curta	L
30 93 00 82	Junta inferior	L
---	Junta para vidro (exterior)	2L+2H
---	Junta para vidro (interior)	2L+2H

Vidro

Hv = H-208 mm	Lv = L-236 mm
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Porta 2 folhas



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	APi-08	Aro fixo		1	L
				2	H
	APi-36	Aro móvel		2	L/2-41.5 mm
				4	H-44 mm
	---	Bite		4	L/2-185.5 mm
				4	H-258 mm
	APi-04	Inversor		1	H-78 mm
	KL-04	Perfil tampa		1	H-78 mm
	APi-12	Travessa		2	L/2-176.5 mm
	AJi-82	Bite remate		2	L/2-185.5 mm
	AZ-60	Pingadeira		1	L/2-103 mm
				1	L/2-39 mm
	AZ-61	Suplemento pingadeira		2	L/2-226 mm

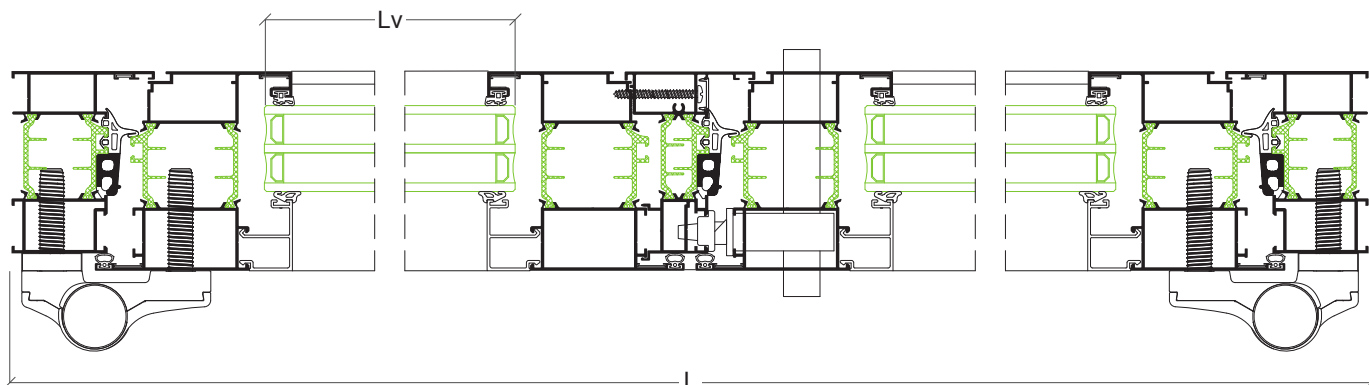
Acessórios e Juntas

Referência	Descrição	Quantidade
30 96 00 05	Esquadro interior	2
30 60 00 02	Esquadro exterior	2
30 60 00 05	Esquadro interior móvel	4
30 60 00 04	Esquadro exterior móvel	4
30 96 00 23	Esquadro alinhamento fixo	2
30 96 00 22	Esquadro alinhamento móvel	8
30 70 00 12	Conjunto topos inversor	1
30 92 22 88 ou 89	Dobradiça 2 abas porta	4
30 92 05 10	Fechadura 3 pontos	1
30 92 13 00 ou 01	Puxador duplo	1
30 92 13 02	Perno	1
30 92 22 85 ou 86	Escudo para canhão	1
30 92 13 03	Canhão	1
30 92 00 50	Contra-fecho	1
30 24 30 75	Contra-fecho inferior	1
30 92 01 20	Jogo fecho C.E.	1
30 93 01 20	Junta interior	L+4H
30 96 10 06	Junta central	L+3H
30 96 10 07	Canto vulcanizado	2
30 92 05 00	Conjunto topos pingadeira	1
30 95 00 10	Pelúcia	2L
---	Junta para vidro (exterior)	2L+4H
---	Junta para vidro (interior)	2L+4H

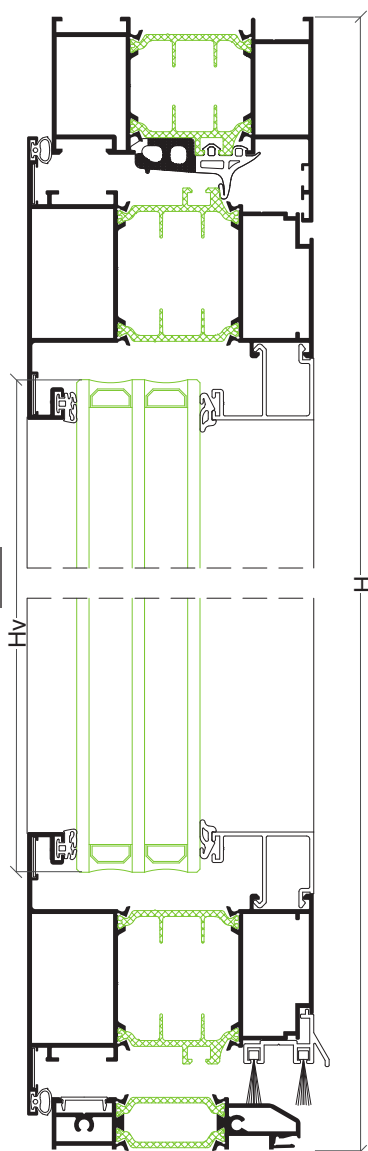
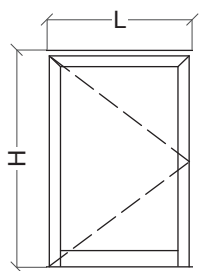
177

Vidro

Hv = H-232 mm	Lv = L/2-200 mm
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Porta 1 folha abertura exterior



Perfis

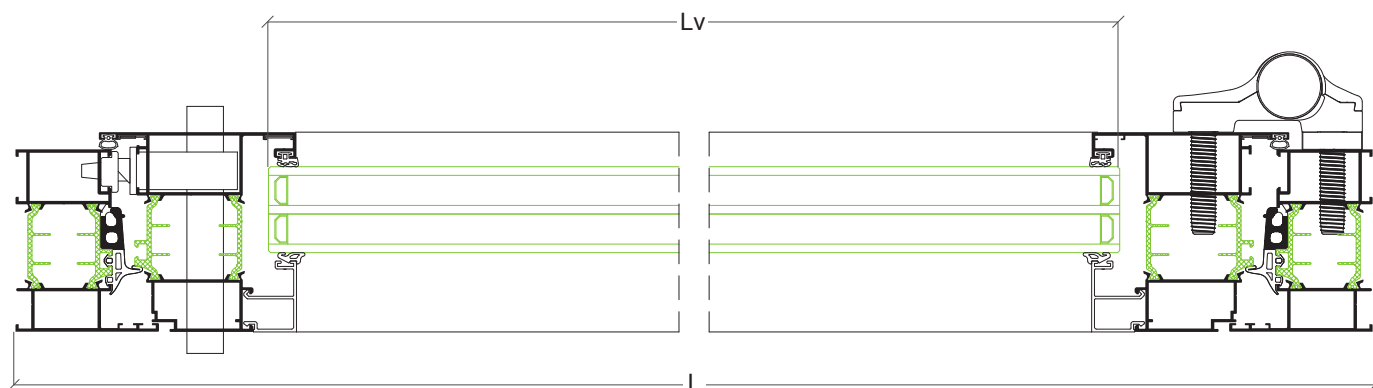
Desenho	Ref	Descrição	Corte	Quant	Medida
	API-08	Aro fixo		1	L
				2	H
	API-72	Aro móvel		2	L-78 mm
				2	H-50 mm
	---	Bite		2	L-222 mm
				2	H-234 mm
	API-63	Remate inferior porta		1	L-80.5 mm
	AJi-62	Pingadeira		1	---
	KL-04	Perfil tampa		1	L-90 mm

Acessórios e Juntas

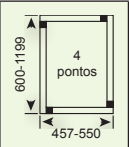
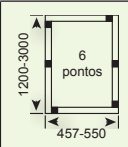
Referência	Descrição	Quantidade
30 96 00 05	Esquadro interior	2
30 60 00 02	Esquadro exterior	2
30 60 00 05	Esquadro interior móvel	4
30 60 00 04	Esquadro exterior móvel	4
30 96 00 23	Esquadro alinhamento fixo	2
30 96 00 22	Esquadro alinhamento móvel	8
30 96 10 01	Calço para vidro	4
30 92 22 88 ou 89	Dobradiça 2 abas porta	2
30 92 05 10	Fechadura 3 pontos	1
30 92 13 00 ou 01	Puxador duplo	1
30 92 13 02	Perno	1
30 92 22 85 ou 86	Escudo para canhão	1
30 92 13 03	Canhão	1
30 93 01 20	Junta interior	2L+2H
30 96 10 06	Junta central	L+2H
30 96 10 07	Canto vulcanizado	2
30 60 00 13	Conjunto topos AJi-62	1
30 60 00 14	Pelúcia preta 18 mm	2L
---	Junta para vidro (exterior)	2L+2H
---	Junta para vidro (interior)	2L+2H

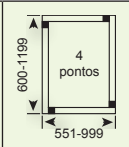
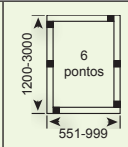
Vidro

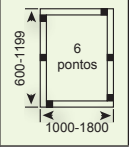
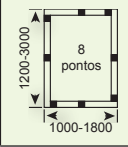
Hv = H-208 mm	Lv = L-236 mm
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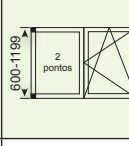
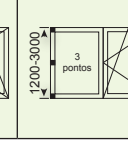
Ferragens para oscilo-batente

Designação	Referência		
Kit oscilo-batente	30 92 12 60 (branco) 30 92 12 61 (preto)	1	
Cremone OB	30 92 12 64 ou 65 ou 30 92 12 66 ou 67	1	
Compasso pequeno	30 92 12 72	1	
Kit fecho 3º ponto	30 92 12 75		1

Designação	Referência		
Kit oscilo-batente	30 92 12 60 (branco) 30 92 12 61 (preto)	1	
Cremone OB	30 92 12 64 ou 65 ou 30 92 12 66 ou 67	1	
Compasso grande	30 92 12 73	1	
Kit fecho 3º ponto	30 92 12 75		1

Designação	Referência		
Kit oscilo-batente	30 92 12 60 (branco) 30 92 12 61 (preto)	1	
Cremone OB	30 92 12 64 ou 65 ou 30 92 12 66 ou 67	1	
Compasso grande	30 92 12 73	1	
Compasso suplementar	30 92 12 74	1	
Kit fecho 3º ponto	30 92 12 75	1	2

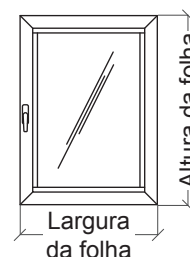
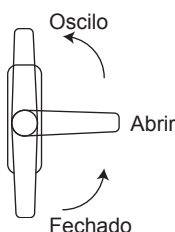
Ferragens para a 2ª folha

Designação	Referência		
Kit dobradiça 2ª folha	30 92 12 77 (branco) 30 92 12 78 (preto)	1	
Kit fechos para 2ª folha	30 92 12 79	1	
Conjunto ponto fecho suplementar	30 92 12 80		1

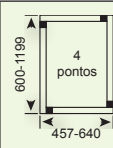
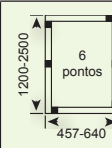
Peso máximo da folha: 130 kg (alumínio + vidro)

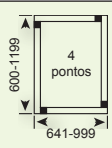

(confirmar com o quadro de dimensão/aplicação do mapa de montagem da ferragem O-B)


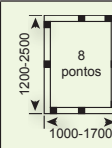
Largura mínima: 457 mm / Largura máxima: 1800 mm
 Altura mínima: 600 mm / Altura máxima: 3000 mm

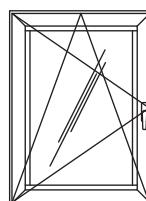


Ferragens para oscilo-batente oculta

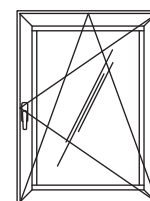
Designação	Referência		
Kit oscilo-batente com compasso pequeno (até 130 kg)	30 92 12 81 (direito) 30 92 12 82 (esquerdo)	1	
Cremone OB	30 92 12 64 ou 65 ou 30 92 12 66 ou 67	1	
Suplemento (131 - 170 kg)	30 92 12 85	1	
Kit fecho 3º ponto vertical	30 92 12 93		1

Designação	Referência		
Kit oscilo-batente com compasso grande (até 130 kg)	30 92 12 83 (direito) 30 92 12 84 (esquerdo)	1	
Cremone OB	30 92 12 64 ou 65 ou 30 92 12 66 ou 67	1	
Suplemento (131 - 170 kg)	30 92 12 85	1	
Kit fecho 3º ponto vertical	30 92 12 93		1

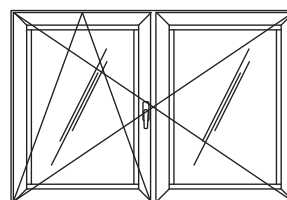
Designação	Referência		
Kit oscilo-batente com compasso grande (até 130 kg)	30 92 12 83 (direito) 30 92 12 84 (esquerdo)	1	
Cremone OB	30 92 12 64 ou 65 ou 30 92 12 66 ou 67	1	
Suplemento (131 - 170 kg)	30 92 12 85	1	
Compasso suplementar	30 92 12 74	1	
Kit fecho 3º ponto horizontal	30 92 12 75	1	
Kit fecho 3º ponto vertical	30 92 12 93		1



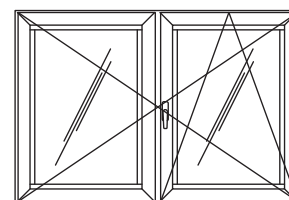
abertura esquerda



abertura direita

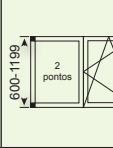
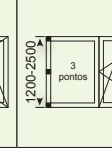


abertura esquerda



abertura direita

Ferragens para a 2ª folha

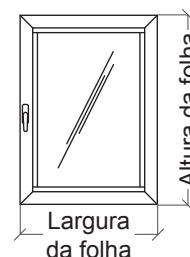
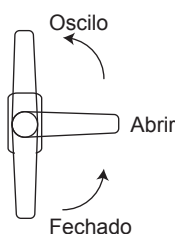
Designação	Referência		
Kit dobradiça 2ª folha (até 130 kg)	30 92 12 86 (direito) 30 92 12 87 (esquerdo)	1	
Kit fechos para 2ª folha	30 92 12 79	1	
Conjunto ponto fecho suplementar	30 92 12 80		1
Suplemento (131-170 kg)	30 92 12 85	1	

Peso máximo da folha: 170 kg (alumínio + vidro)

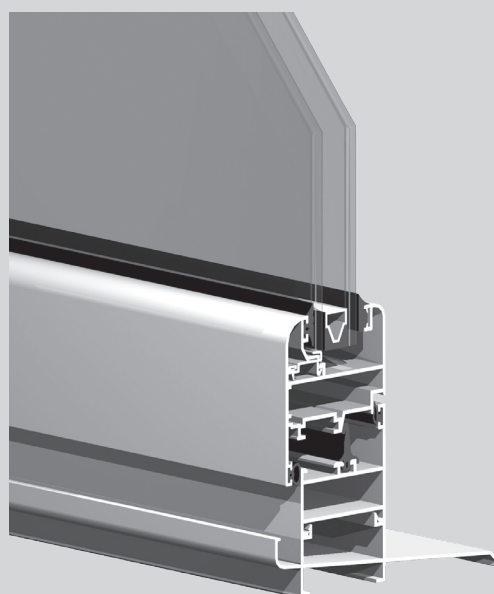
(confirmar com o quadro de dimensão/aplicação do mapa de montagem da ferragem O-B)

Largura mínima: 457 mm / Largura máxima: 1700 mm

Altura mínima: 600 mm / Altura máxima: 2500 mm



As medidas indicadas reportam-se às dimensões da folha móvel do vão



Sistema

AX

Sistema AX

Sistema de batente de câmara europeia - 45 mm

Características do sistema

Sistema de batente com câmara europeia e tripla vedação em EPDM (exterior, central, interior).

O sistema AX possibilita a execução de 2 versões de caixilharia:

1. linha recta;
2. linha curva.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 1.5 mm para janelas e de 1.7 mm para portas.

Aros fixos

Secção dos aros fixos de 45 mm;

Aros fixos com esquadro para montagem a meia esquadria.

Aros móveis

Secção dos aros móveis de 53 mm;

Enchimento para vidro simples ou duplo desde 4 mm até 30 mm;

Aros móveis de linha recta ou curva;

Aro móvel com esquadro para montagem a meia esquadria;

Perfil inversor recto.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 375 mm - 1700 mm (L); 410 mm - 2700 mm (H);

Peso máximo de 110 kg por folha com oscilo-batente;

Peso máximo de 90 kg por folha para janelas de abrir;

Peso máximo de 150 kg por folha com dobradiça porta;

Possibilidades de abertura: interior com ou sem oscilo-batente,

exterior, basculante, projectante, pivotante, harmónio e oscilo-paralela;

Estanquidade assegurada através de juntas triplas em EPDM.

Performances

Sistema certificado por laboratório notificado para Ensaios Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema AX tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe E900 (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema AX tipologia porta:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)
4. Resistência à torção estática: Apto 350N (norma de ensaio EN 14609)

Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 1.50 m com vidro Ug = 1.4 W/m²K:

• Uw = 2.92 W/m²K

Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/12/4:

• Rw (C; Ctr) = 33 dB (-1; -4)

Zonas de aplicação segundo RCCTE (em função do valor Ug): I1, I2, I3, V1, V2, V3.

Sistema AX Milénio

Sistema portas de entrada uso intensivo - 45 mm

Características do sistema

Sistema de batente com dupla vedação em EPDM (exterior, interior).

O sistema AX Milénio possibilita a execução de caixilharia em linha recta com aro fixo e aro móvel faceados.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 2.0 mm.

Aros fixos

Secção dos aros fixos de 45 mm;

Aros fixos com esquadro para montagem a meia esquadria.

Aros móveis

Secção dos aros móveis de 45 mm;

Enchimento para vidro simples ou duplo desde 4 mm até 30 mm;

Aros móveis com esquadro para montagem a meia esquadria.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 400 mm - 1500 mm (L); 600 mm - 3000mm (H);

Peso máximo de 180 Kg por folha com dobradiça reforçada;

Possibilidades de abertura: interior, exterior e vaivém, com opção de sistema anti-entallamento de dedos.

Performances

Sistema certificado por laboratório notificado para Ensaios Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema AX Milénio tipologia porta de 2 folhas:

1. Permeabilidade ao ar: Classe 2 (norma de ensaio EN 1026)
2. Estanquidade à água: NPD (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C3 (norma de ensaio EN 12211)
4. Resistência ao impacto: Classe 5 (norma de ensaio EN 13049)

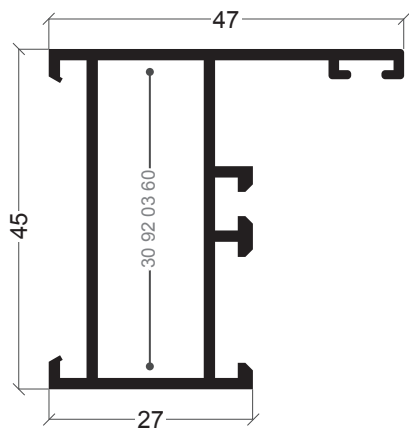
Coefficiente de transmissão térmica de vão de 2 folhas com 1.80 m x 2.20 m com vidro Ug = 1.4 W/m²K:

• Uw = 3.12 W/m²K

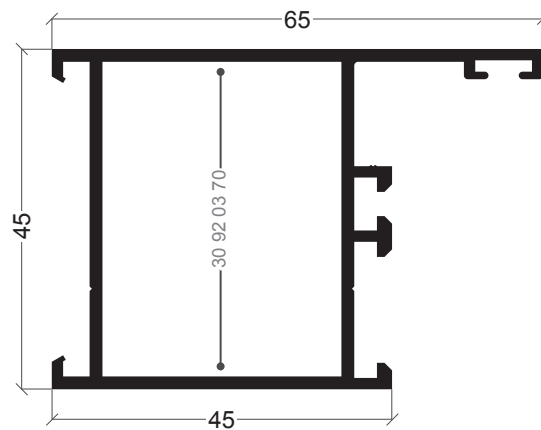
Coefficiente de atenuação acústica de vão de 2 folhas com vidro laminado:

• Rw (C; Ctr) = 37 dB (-1; -4)

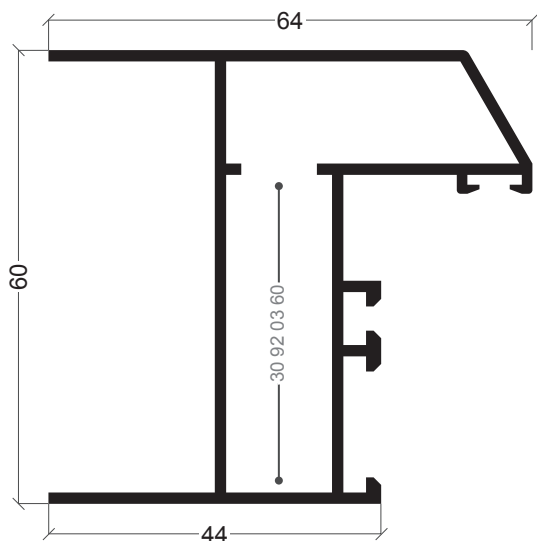
Zonas de aplicação segundo RCCTE (em função do valor Ug): I1, I2, I3, V1, V2, V3.



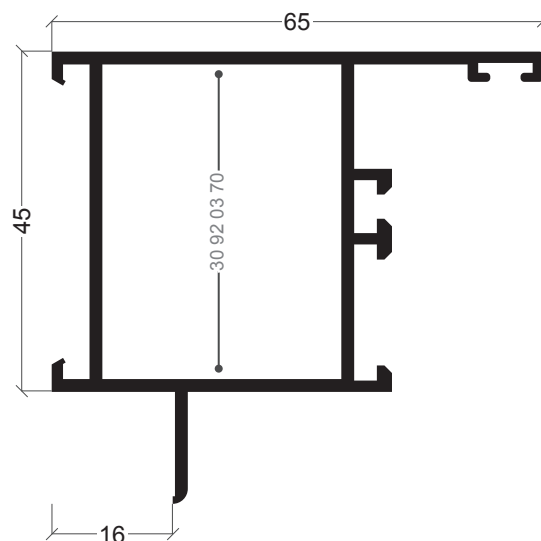
AX-03
Aro fixo



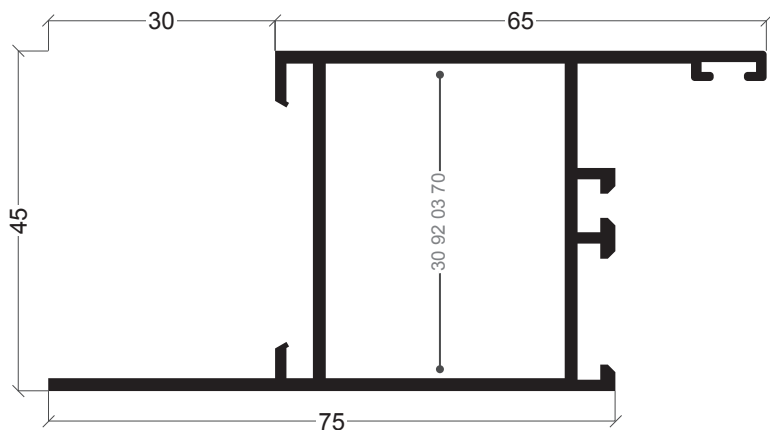
AX-08
Aro fixo



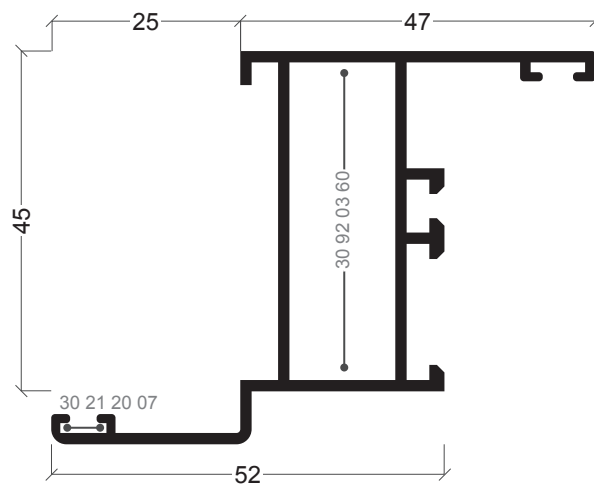
AX-14
Aro fixo 60 mm



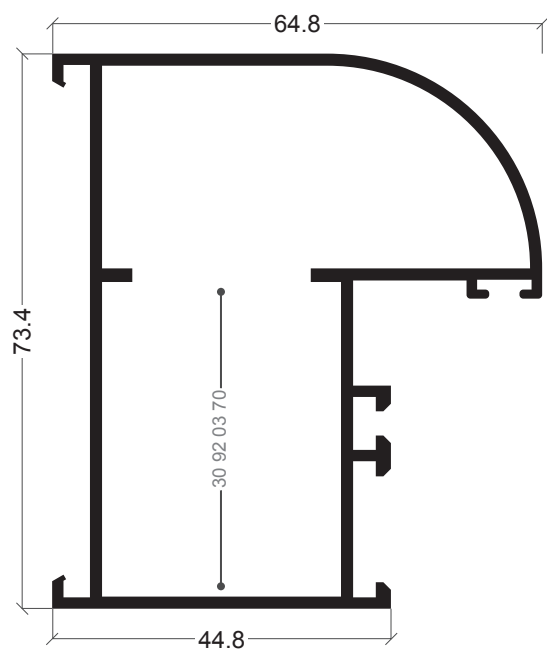
AX-38
Aro fixo para apanelado



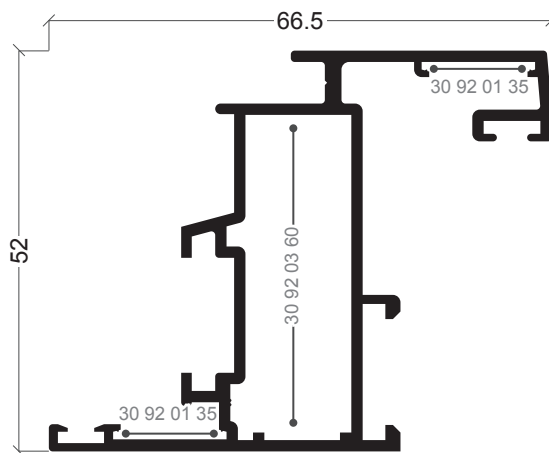
AX-41
Aro fixo com remate



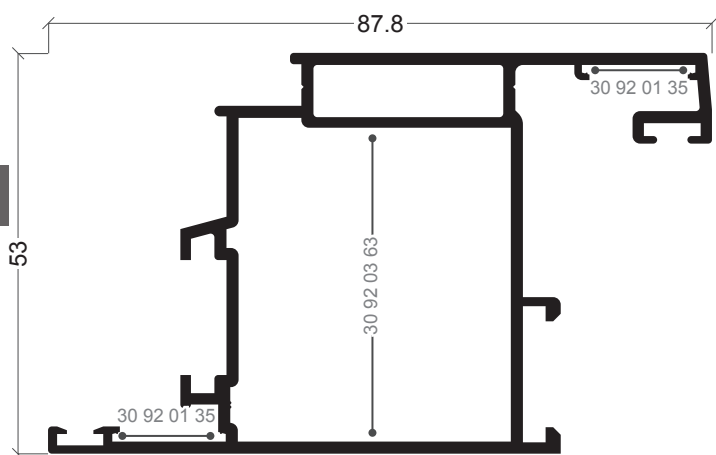
AX-26
Aro fixo com remate



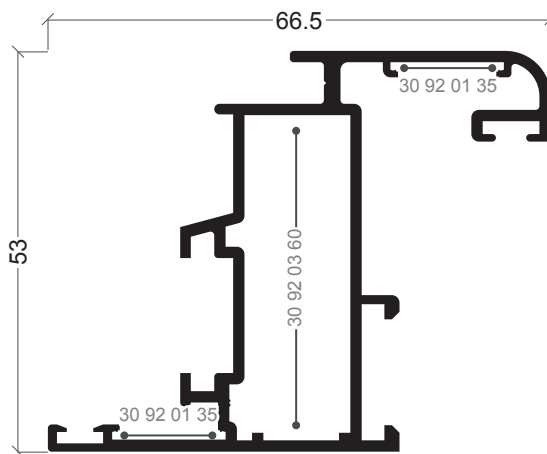
AX-52
Aro fixo com reforço



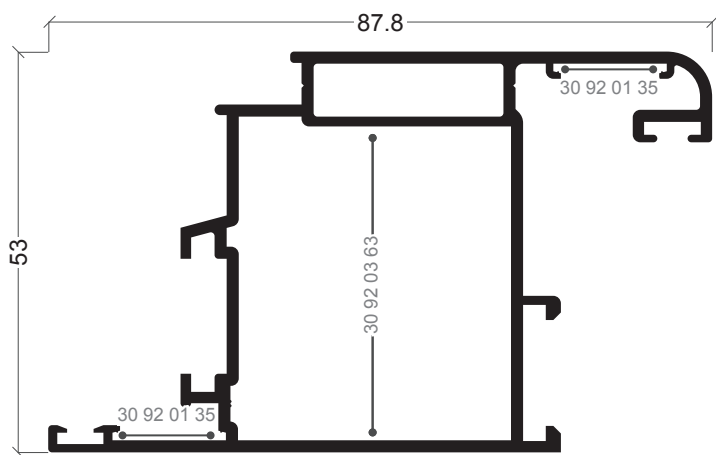
AX-02
Aro móvel



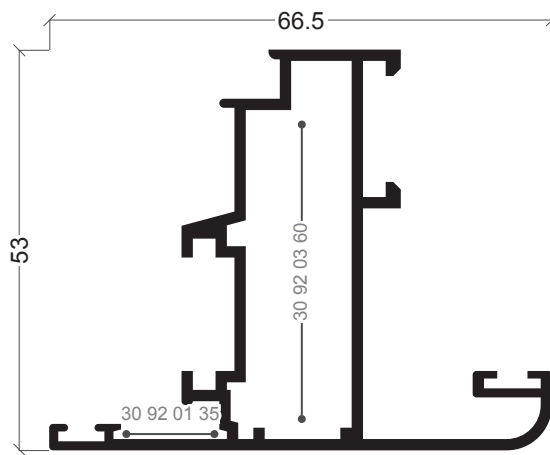
AX-07
Aro móvel



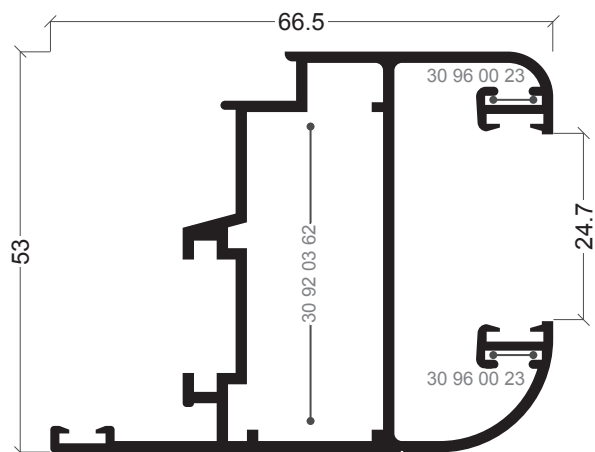
AX-05
Aro móvel



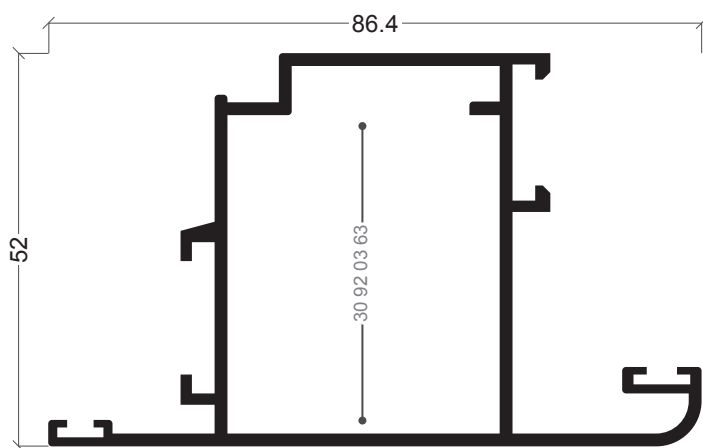
AX-10
Aro móvel



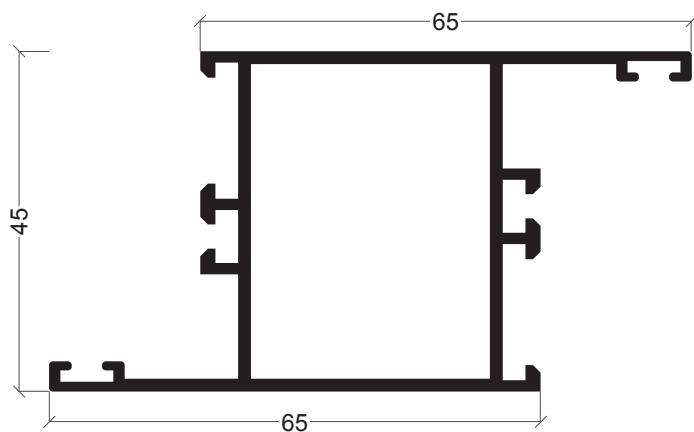
AX-04
Aro móvel



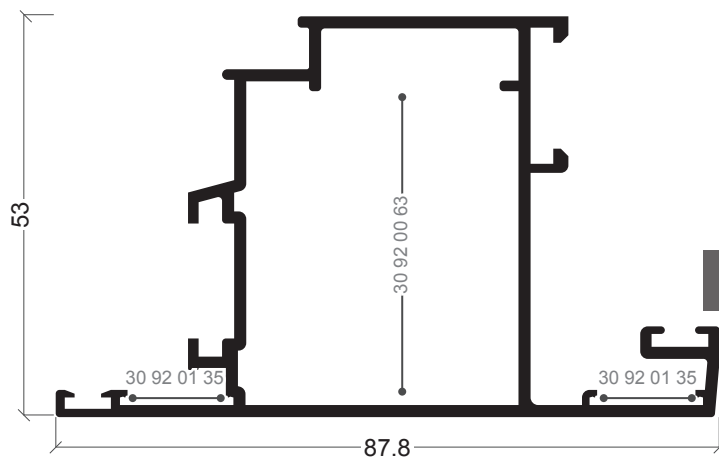
AX-53
Aro móvel



AX-09
Aro móvel abertura exterior

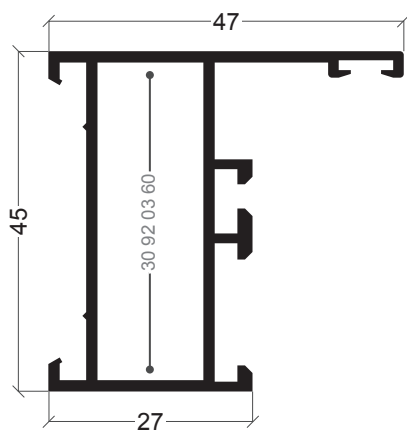


AX-47
Aro abertura exterior com fixo

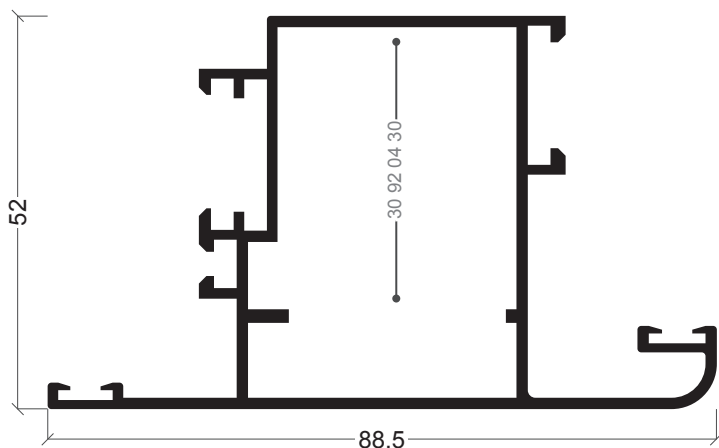


AX-06
Aro móvel abertura exterior

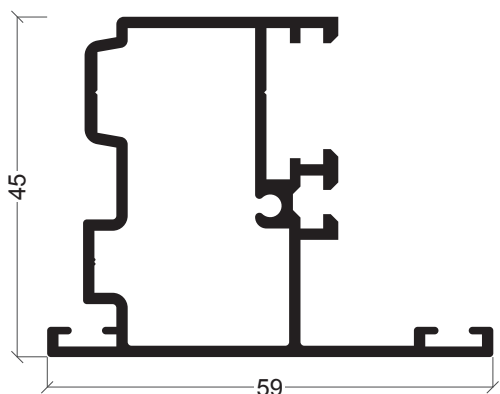
185



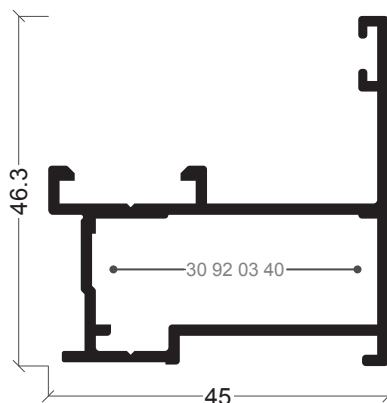
AX-51
Aro fixo pivotante



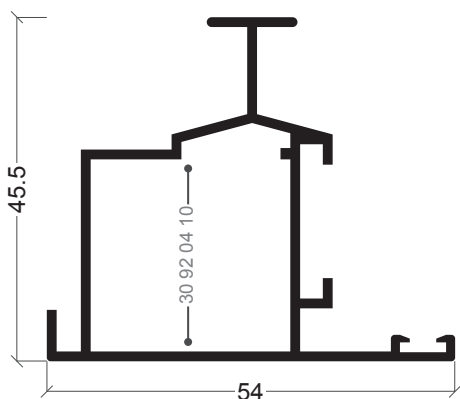
AX-54
Aro móvel pivotante



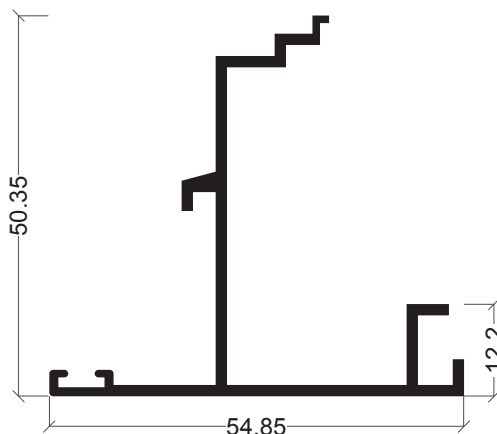
AX-11
Inversor



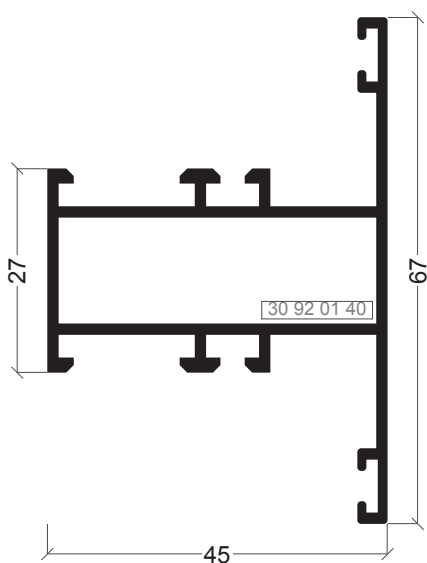
AX-79
Inversor sentido de abertura



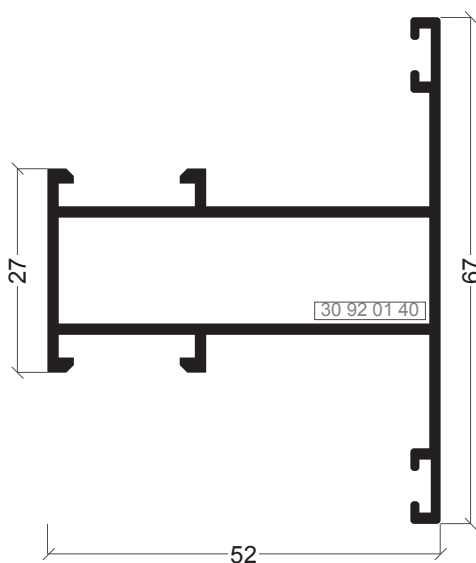
AX-55
Inversor pivotante



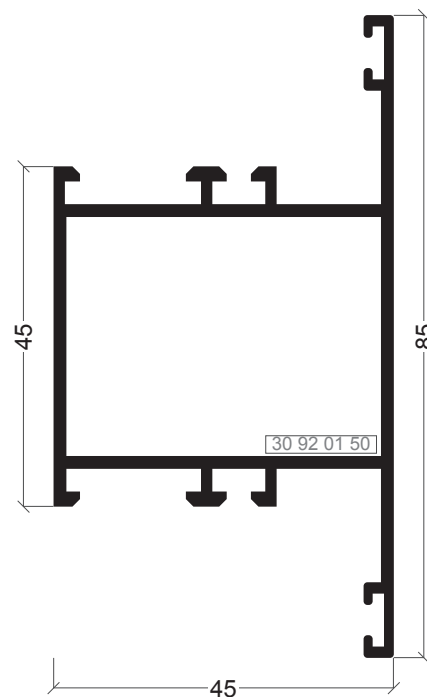
AX-21
Inversor clip



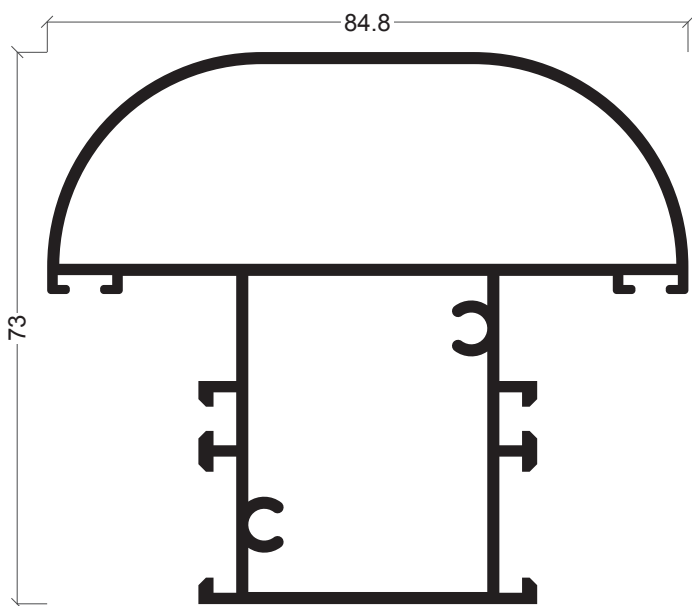
AX-01
Travessa



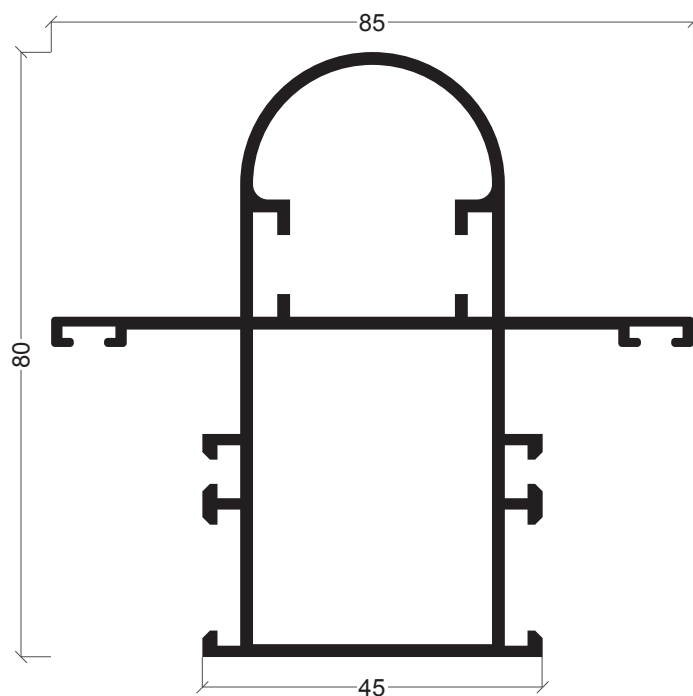
AX-27
Travessa



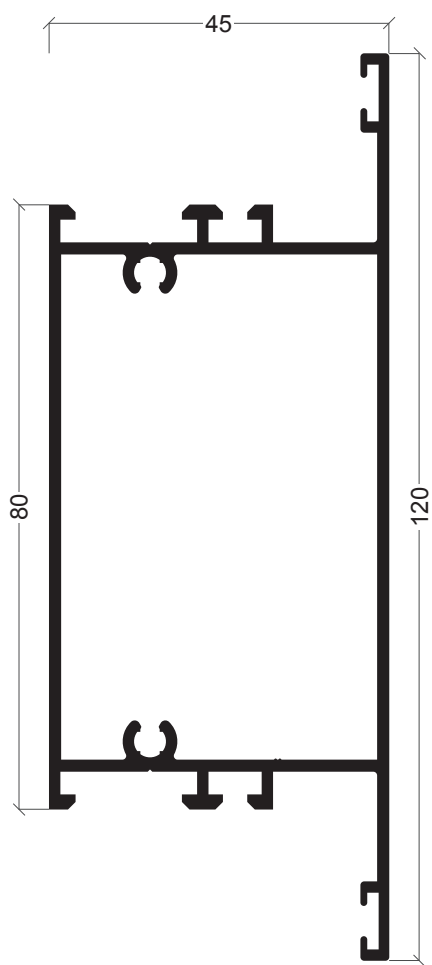
AX-28
Travessa



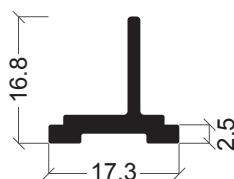
AX-56
Travessa com reforço



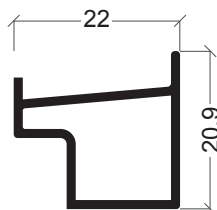
AX-24
Montante



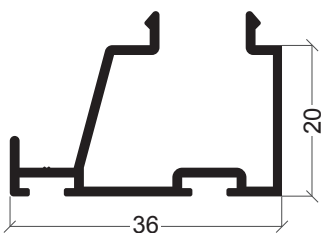
AX-12
Travessa



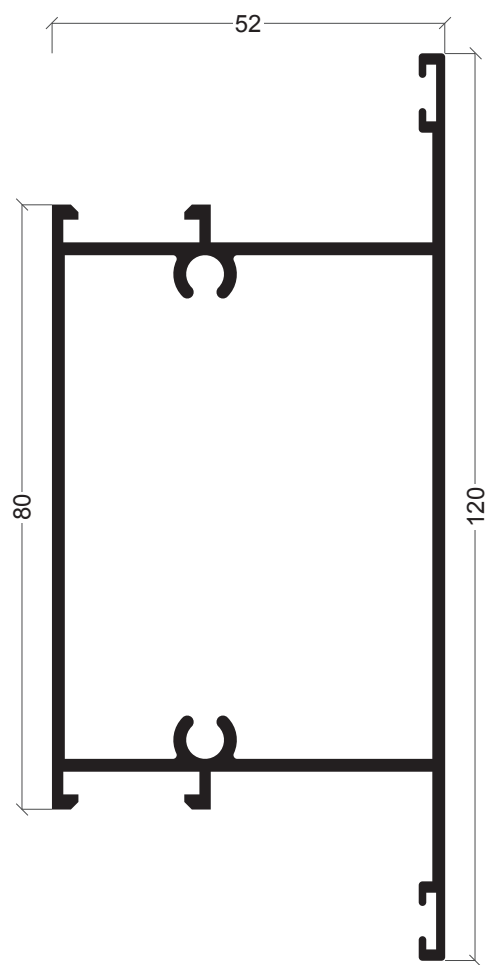
AX-48
Complemento batente



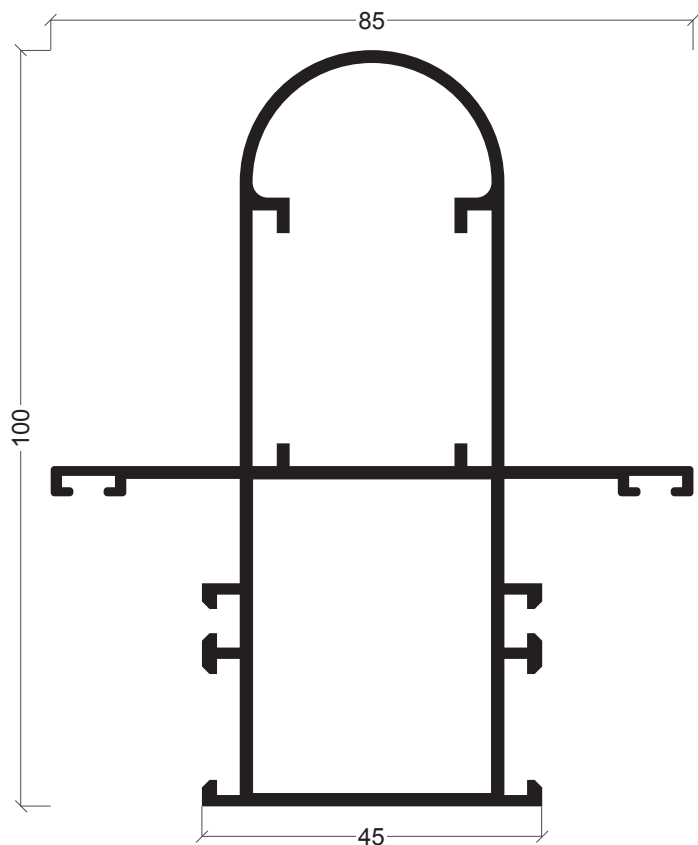
AX-45
Adaptador condensação



AX-15
Bite remate

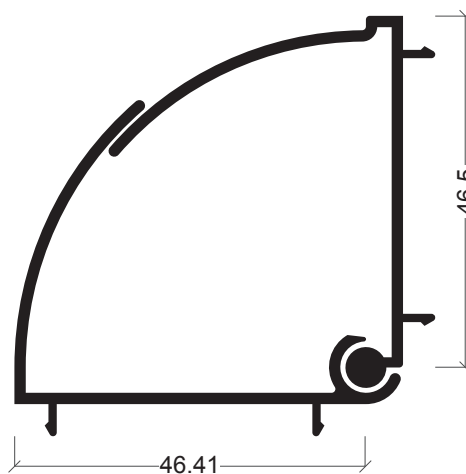


AX-13
Travessa 52 mm



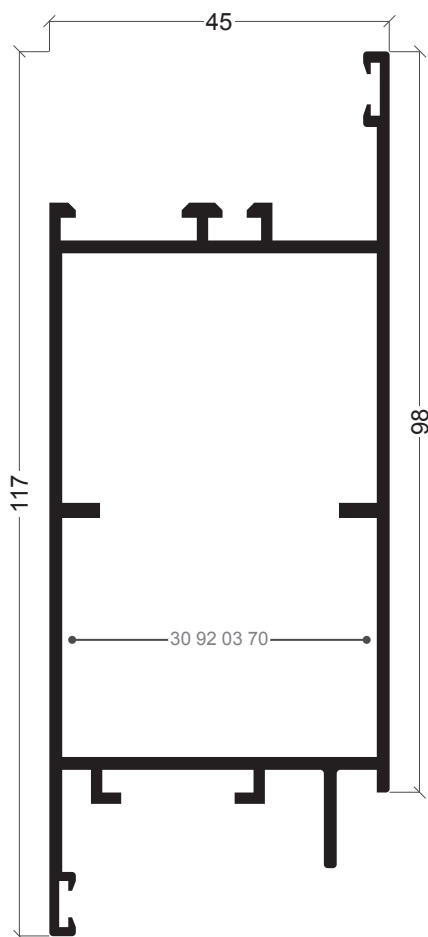
AX-25
Montante

AX-23
União de aros para ângulos

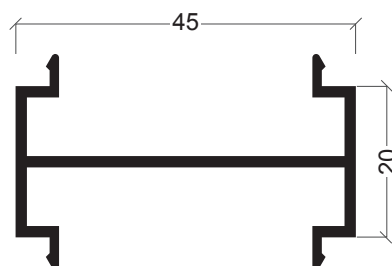


AX-22
União de aros para ângulos

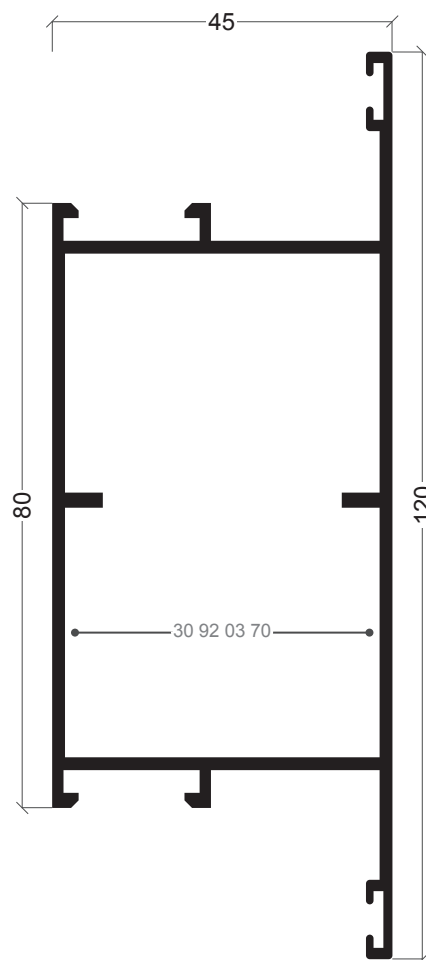
188



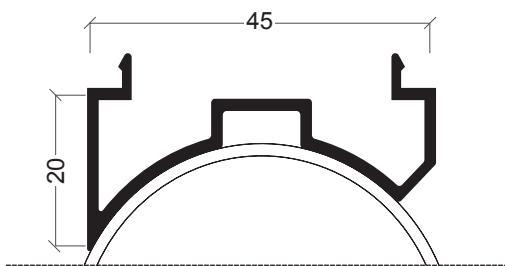
AX-49
Aro móvel



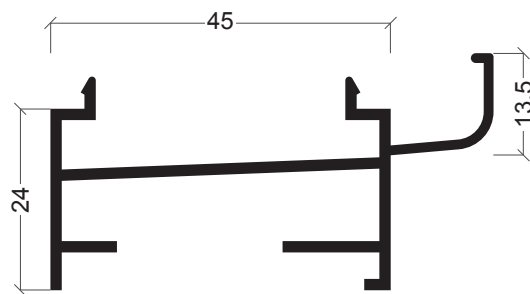
AX-20
União de aros



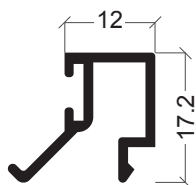
AX-50
Travessa



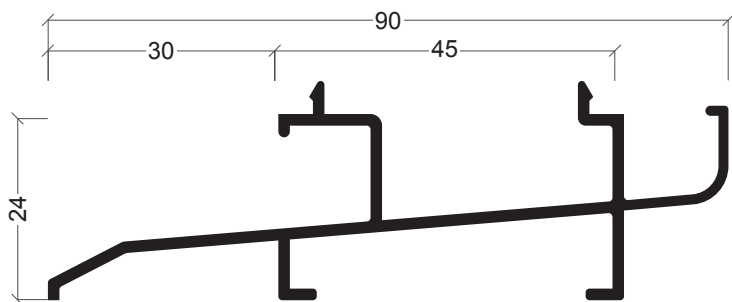
CP-16
Ângulo com tubo 50 mm



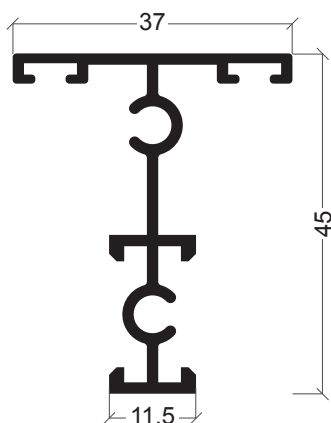
AX-58
Soleira condensação



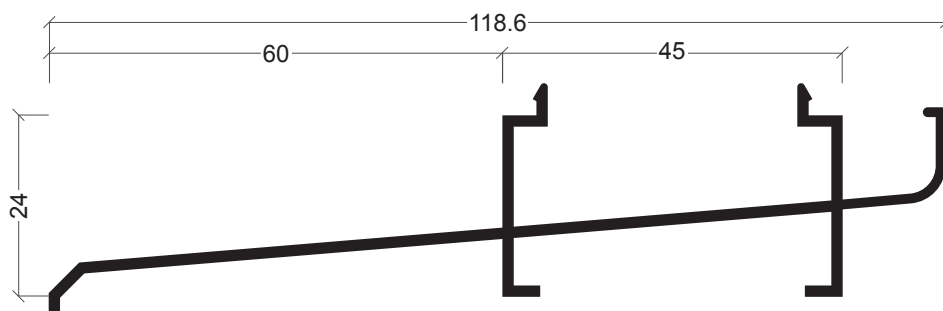
AX-70
Bite para AX-57



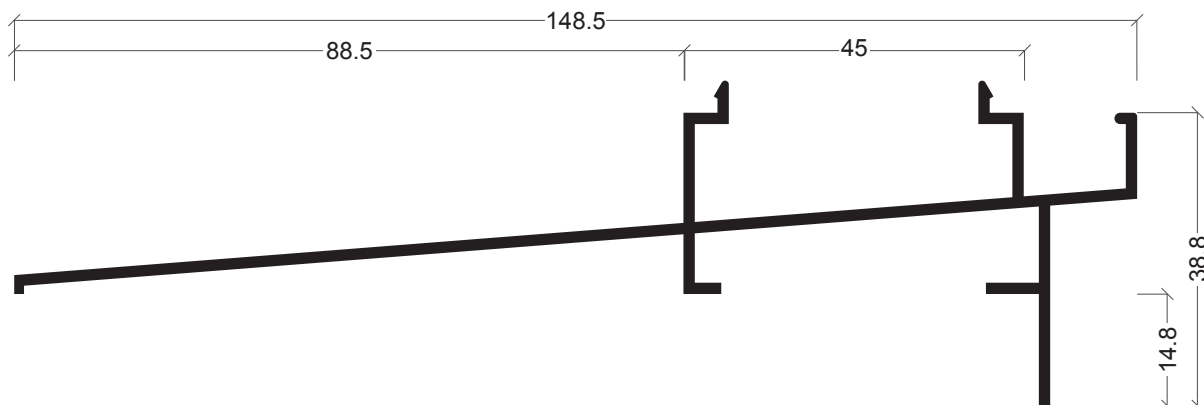
AX-17
Soleira condensação



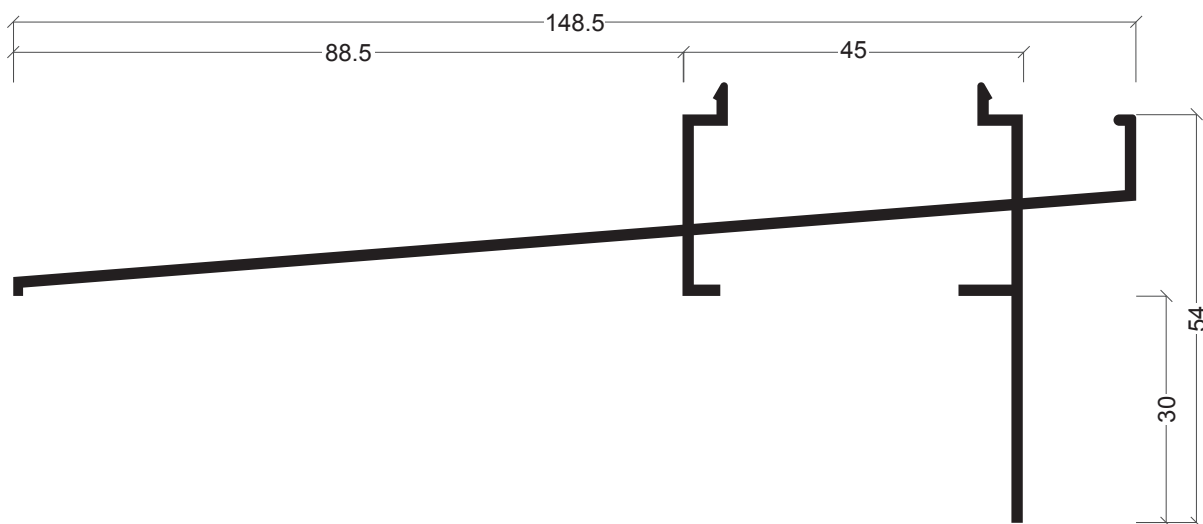
AX-57
Divisor de vidro



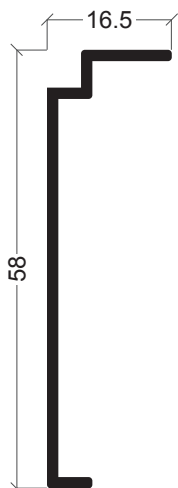
AX-18
Soleira condensação



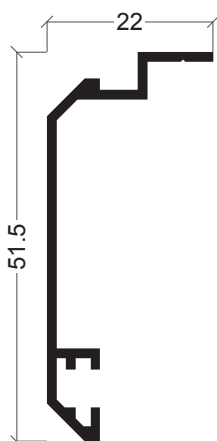
AX-43
Soleira condensação



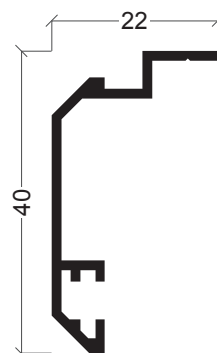
AX-44
Soleira condensação



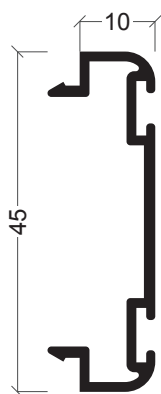
AX-59
Tapa juntas



AX-40
Tapa juntas



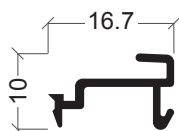
AX-16
Tapa juntas



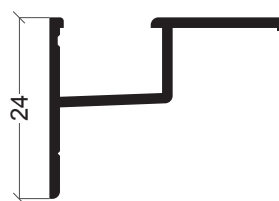
AX-42
Complemento vaivém



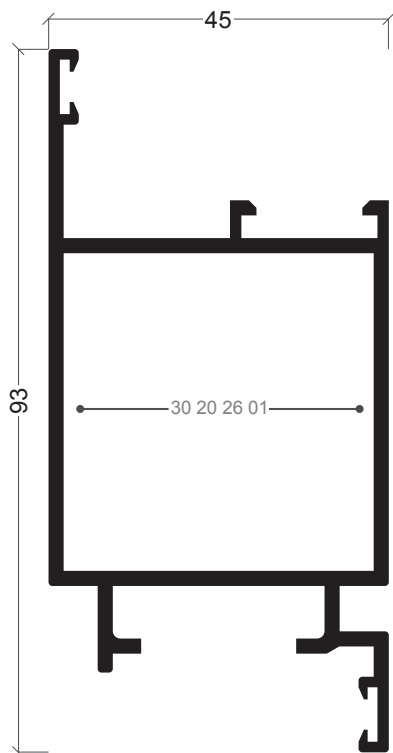
AX-19
Vareta



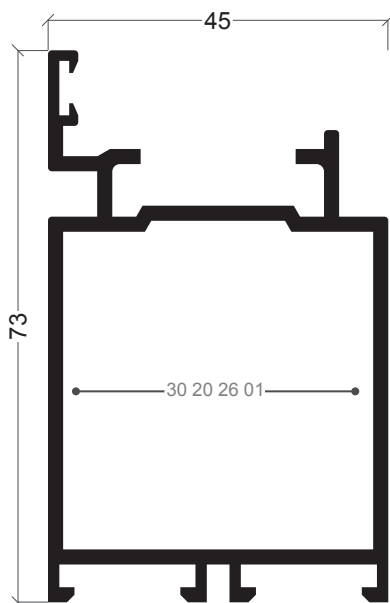
AX-33
Mola Bite



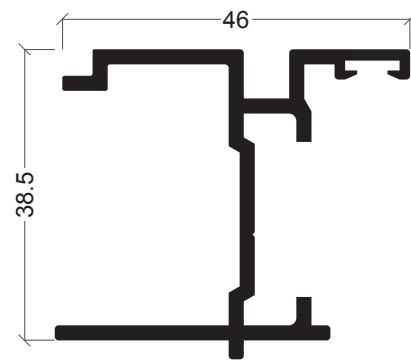
Y-20
Recolha de águas condensação



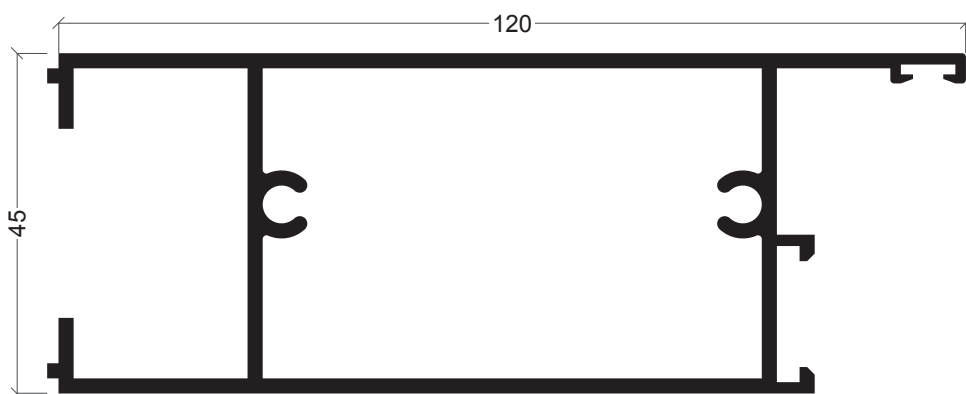
AX-65
Aro móvel



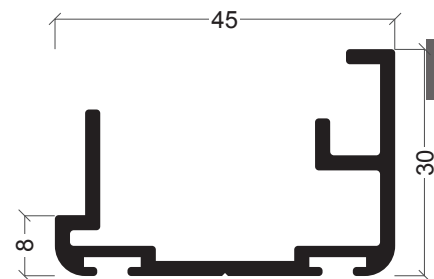
AX-64
Aro fixo



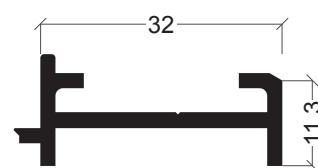
AX-62
Suplemento abertura exterior



AX-68
Almofada



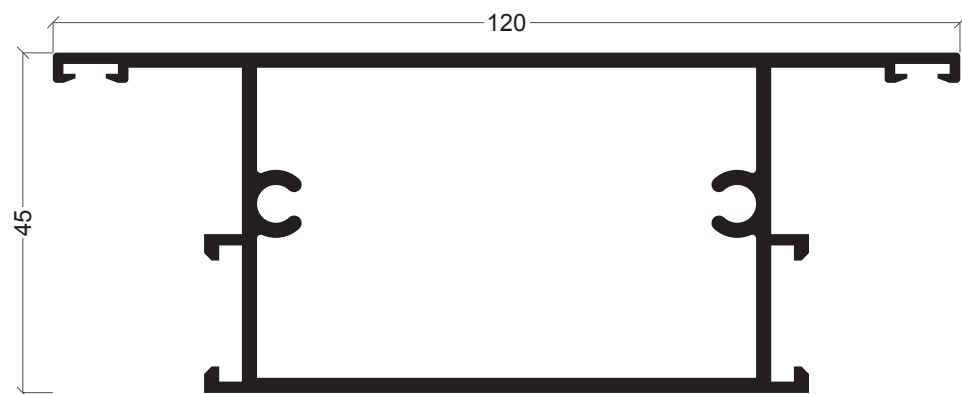
AX-71
Suplemento vaivém



AX-61
Suplemento abertura interior



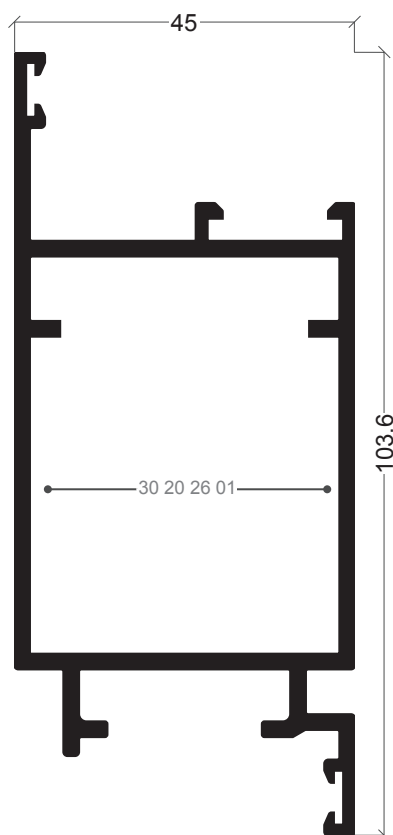
AX-63
Remate pavimento



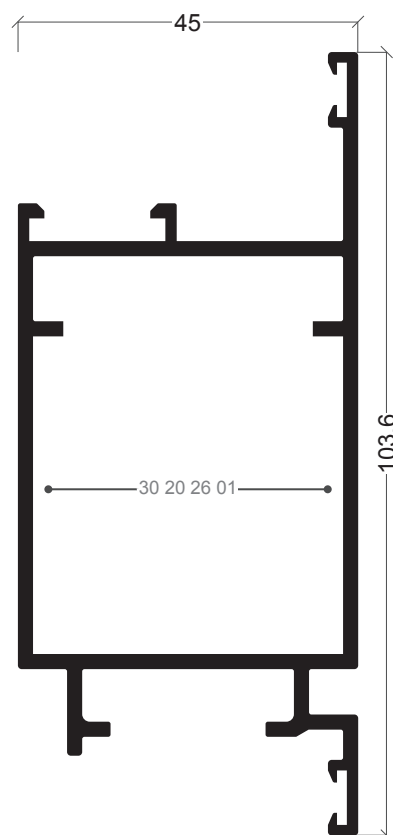
AX-67
Travessa



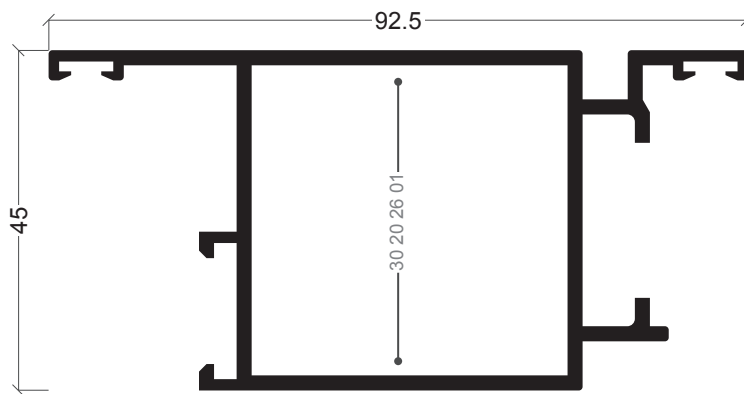
AX-60
Vedação inferior



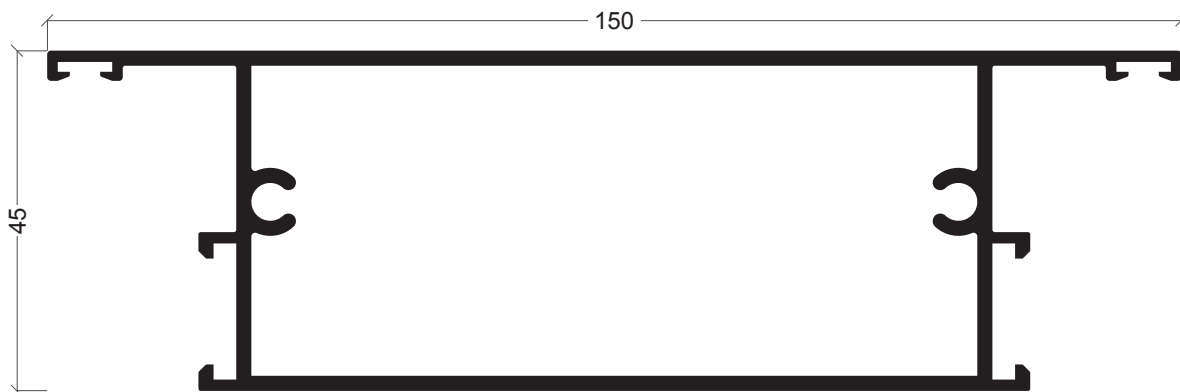
AX-76
Aro móvel



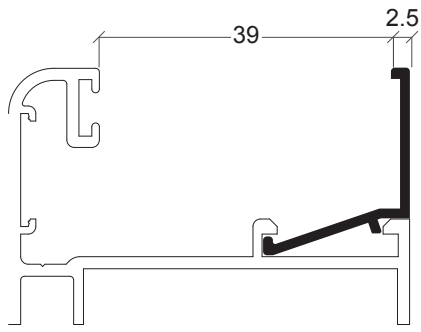
AX-77
Aro móvel abertura exterior



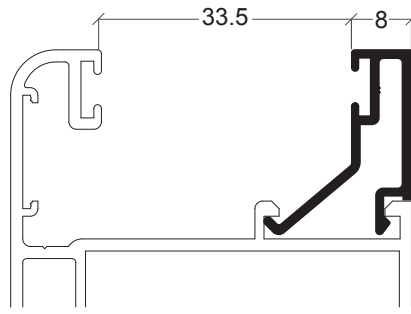
AX-66
Aro móvel abertura exterior



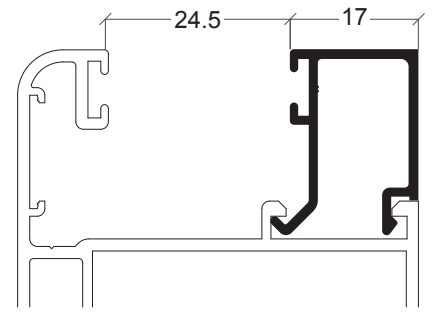
AX-75
Travessa



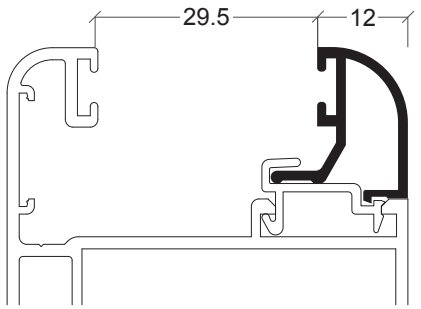
AX-69



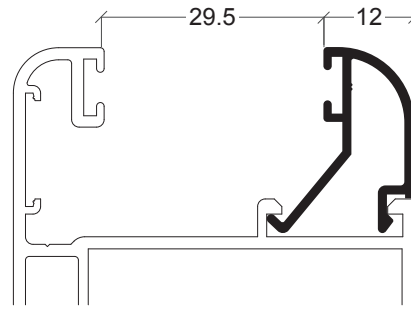
AX-74



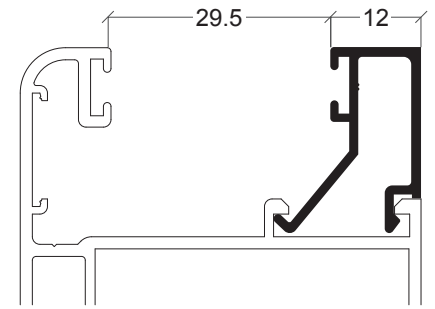
AX-46



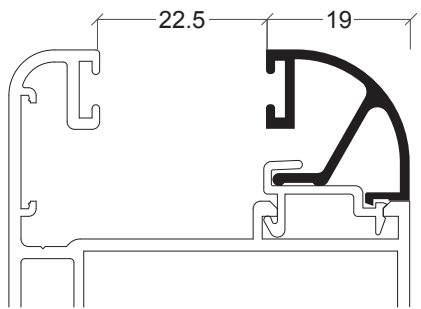
AX-37



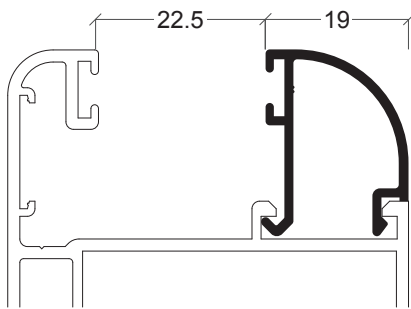
AZ-08



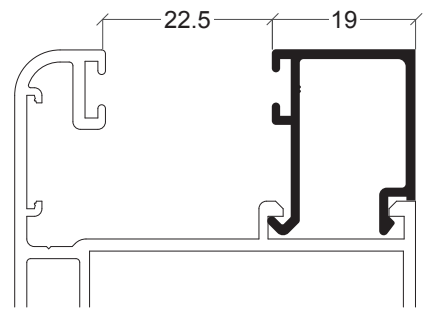
AX-36



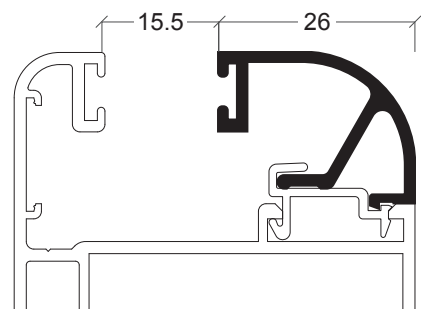
AX-30



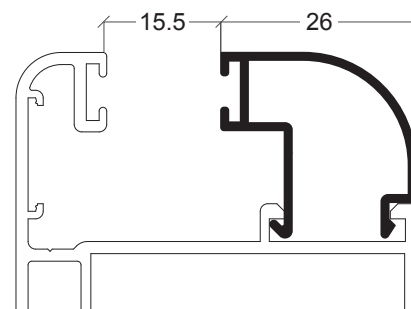
AZ-07



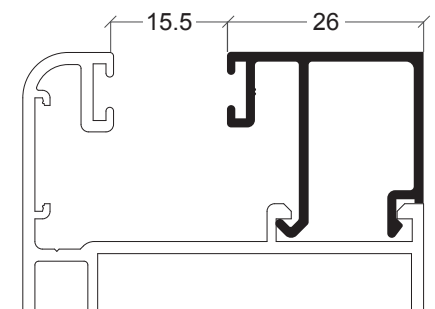
AX-35



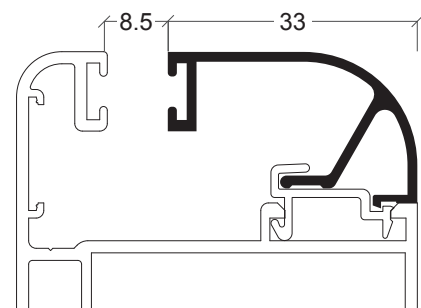
AX-29



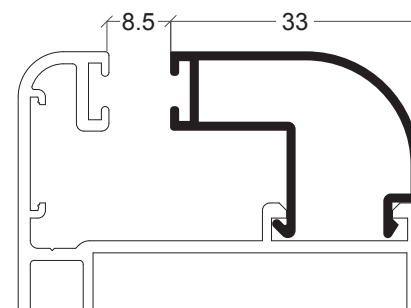
AZ-06



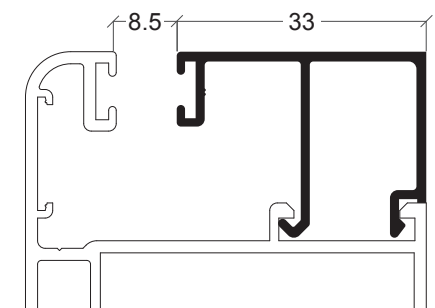
AX-31



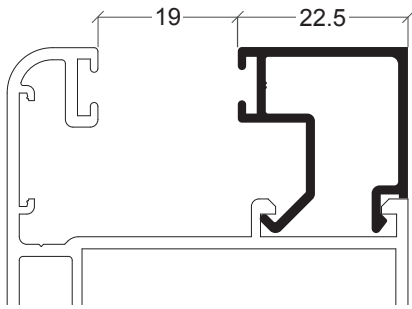
AX-39



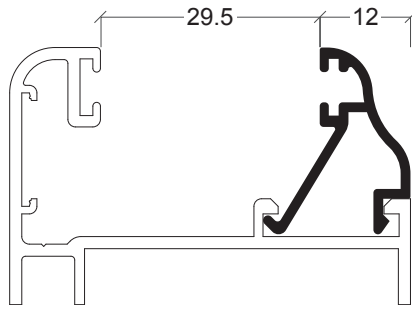
AZ-28



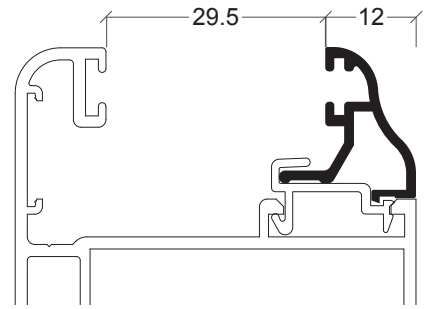
AX-34



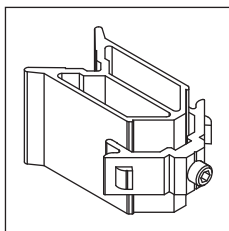
AX-78



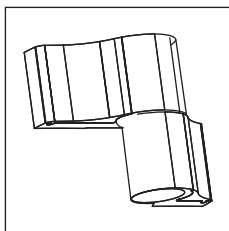
AX-73



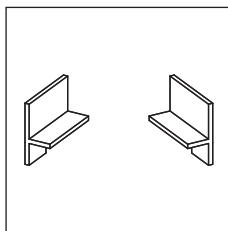
AX-72



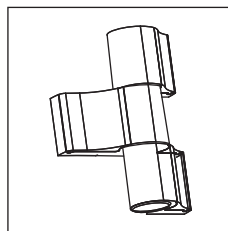
30 20 26 01
Esquadro porta milénio



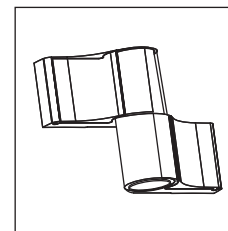
30 20 26 02/06
Dobradiça abas desiguais branca/preta



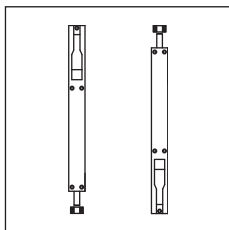
30 20 26 04
Jogo tampas batente da folha



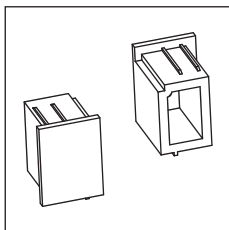
30 20 26 05/07
Dobradiças 3 abas desiguais branco/preto



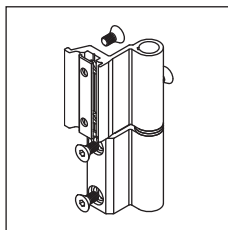
30 20 26 09/12
Dobradiça abas iguais preta/branca



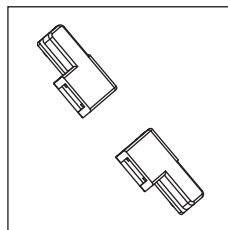
30 20 26 10/11
Fecho 2ª folha pequeno/grande



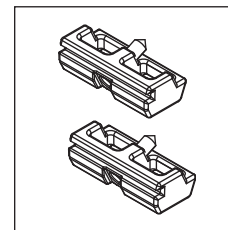
30 91 21 20
Jogo topos condensação Y-20



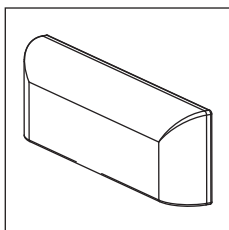
30 92 00 20/21
Dobradiça C.E. branco/preto



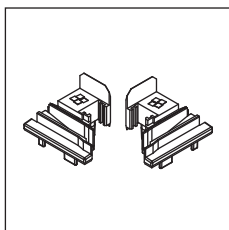
30 92 00 30
Transmissão barra cremone



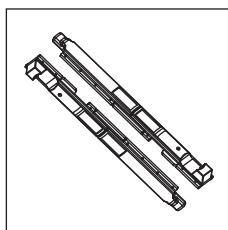
30 92 00 50
Complemento fecho



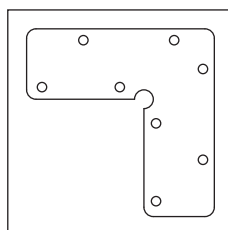
30 92 01 00/01
Goteiras branco/preto



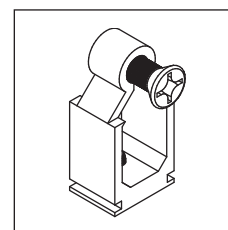
30 92 01 13
Jogo topos inversor com furo



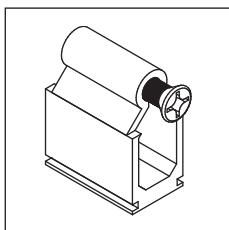
30 92 01 20
Jogo fecho C.E.



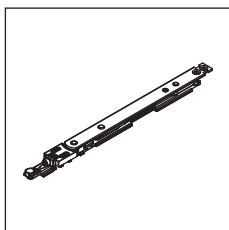
30 92 01 35
Esquadro alinhamento aro móvel



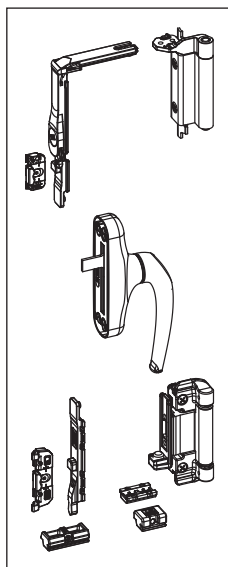
30 92 01 40
União topos janela



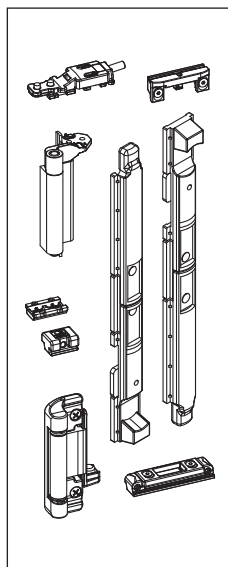
30 92 01 50
União topos porta



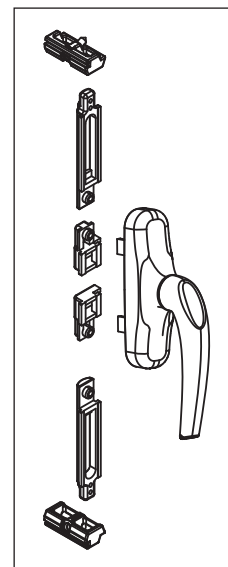
30 92 02 10/11/12
Compasso oscilo 300/400/500



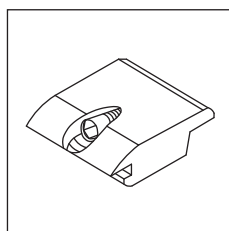
30 92 02 20/21
Kit oscilobatente branco/preto



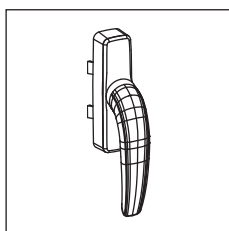
30 92 02 24/25
Kit 2ª folha oscilobatente branco/preto



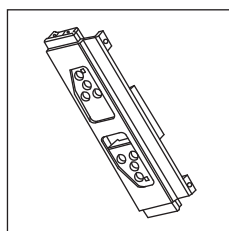
30 92 03 10
Kit cremone branco/preto



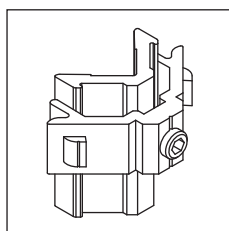
30 92 02 60
Apoio da folha



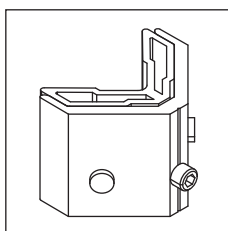
30 92 03 20/21
Cremone abertura exterior branco/preto



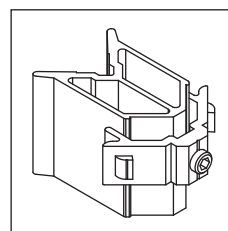
30 92 03 30
Jogo transmissão abertura exterior



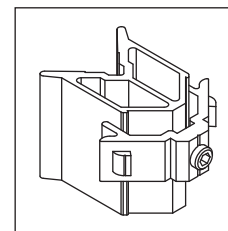
30 92 03 60
Esquadro janela



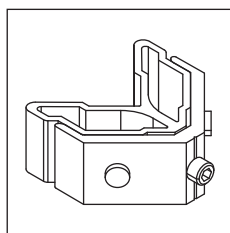
30 92 03 62
Esquadro aro móvel AX-53



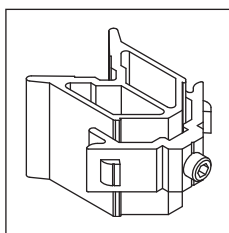
30 92 03 63
Esquadro aro móvel AX-06/07/09/10



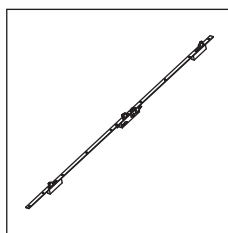
30 92 03 70
Esquadro porta

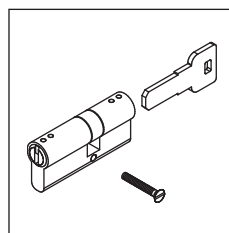

30 92 04 10

Esquadro inversor pivotante

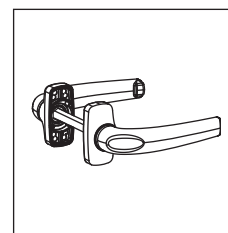

30 92 04 30

Esquadro móvel pivotante

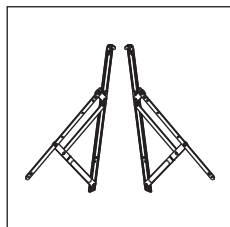

30 92 05 10/11

 Fechadura 3 pontos
 35 mm/30 mm

30 92 05 40

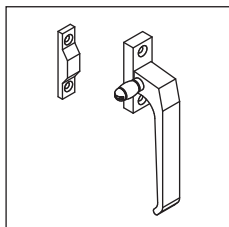
Canhão fechadura


30 92 05 60/61

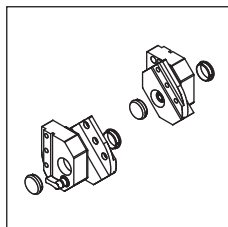
Puchador duplo branco/preto


30 92 06 00

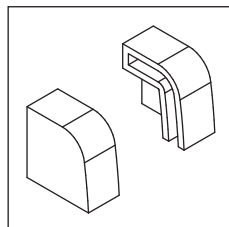
Compasso projectante deslizante


30 92 06 10/11

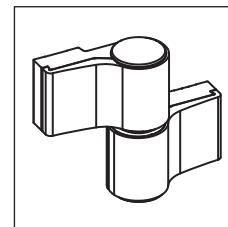
Cremona de lingueta branco/preto


30 92 07 10/11

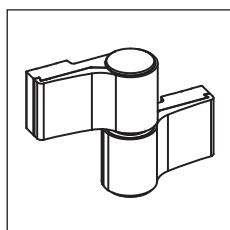
Jogo pivotante preto/branco (60 kg)


30 96 00 12

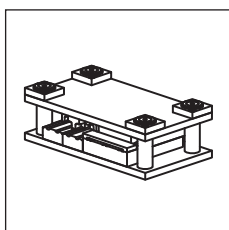
Jogo topos condensação


30 96 00 32

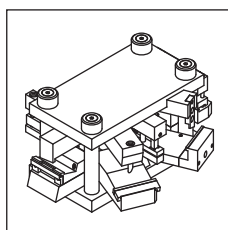
Dobradiça dupla lisa 80 mm (preto)


30 96 00 34

Dobradiça dupla anti-entalamento (preto)


33 96 69 99

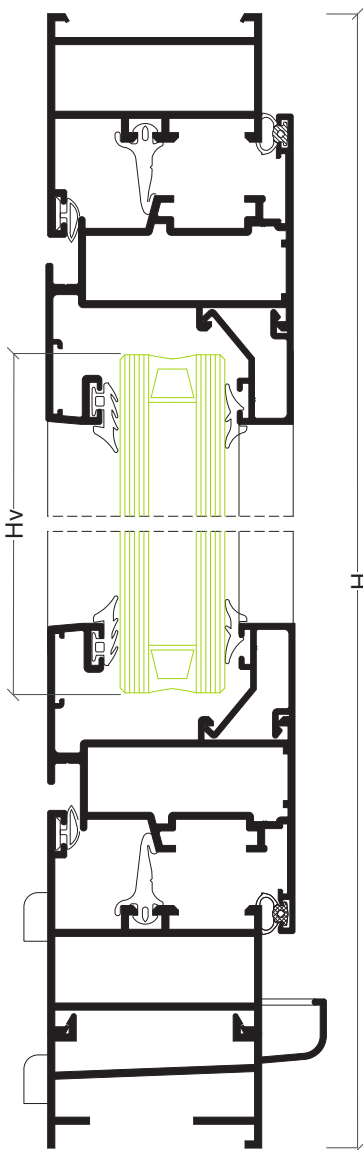
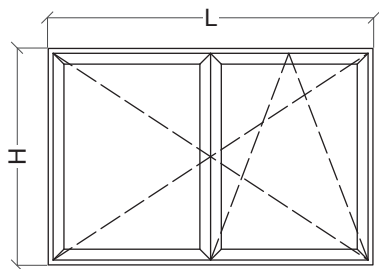
Cunho AX-Milénio


33 96 79 99
















Cunho CE

Referência	Desenho	Descrição
30 00 95 15		Junta vedação interior curta
30 20 26 03		Junta interior/exterior
30 20 26 14		Junta anti-entalamento 4.40 mts (preto)
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 93 00 50		Junta central
30 93 00 60		Vedante exterior do vidro (opcional)
30 93 00 61		Junta vedação exterior vidro 2 mm
30 93 00 62		Junta plana para vidro
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 93 00 70		Vedante interior do vidro (opcional)
30 93 00 81		Junta vedação inferior
30 93 00 82		Junta vedação inferior
30 93 00 90		Junta exterior
30 93 01 20		Junta interior
30 93 01 30		Junta exterior (abertura exterior/projectante)
30 95 00 10		Pelúcia 7x9 mm
30 95 00 40		Pelúcia 7x5.5 mm

Janela 2 folhas abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-03	Aro fixo		2	L
				2	H-24 mm
	AX-02	Aro móvel		4	L/2-24 mm
				4	H-66 mm
	AX-11	Inversor		1	H-134 mm
	---	Bite		4	L/2-117 mm
				4	H-199 mm
	AX-58	Soleira de condensação		1	L
	AX-19	Vareta		2	Apro. H/2 mm

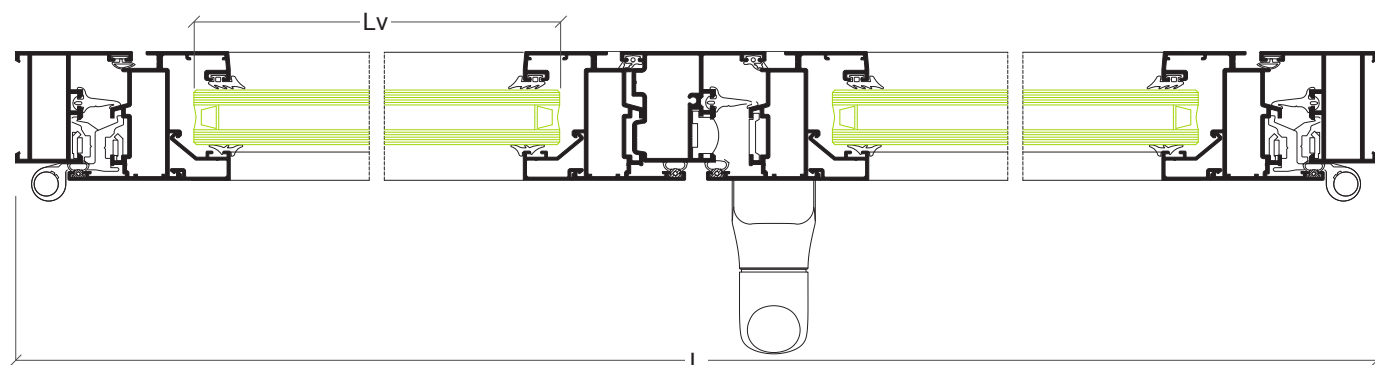
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	4	---
30 92 01 00	Goteiras	4	4
30 92 01 13	Jogo topos inversor	1	1
30 92 01 20	Jogo fecho C.E.	1	---
30 92 01 35	Esquadro alinhamento aro móvel	8	8
30 92 02 XX	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 24	Kit 2ª folha oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 92 03 60	Esquadro janela	12	12
30 96 00 12	Jogo topos condensação	1	
30 93 00 50	Junta central	2L+3H	
30 93 00 90	Junta exterior	2L+4H	
30 93 01 20	Junta interior	2L+4H	
---	Junta exterior vidro	2L+4H	
---	Junta interior vidro	2L+4H	

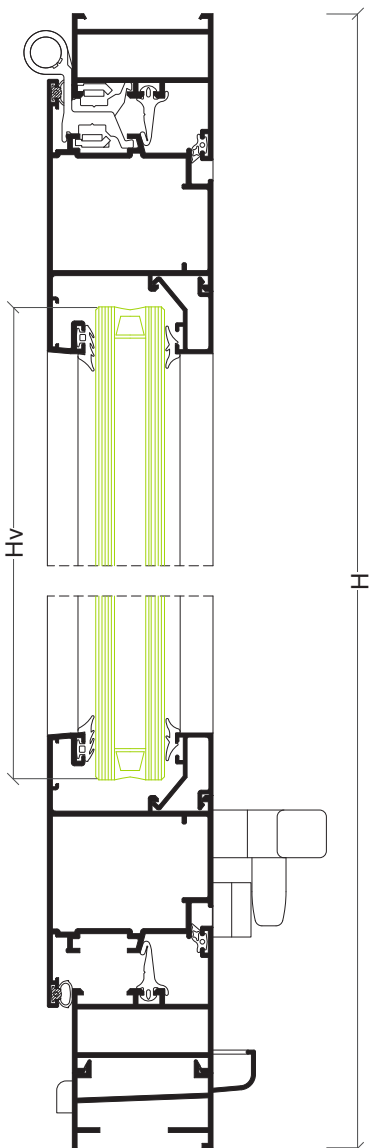
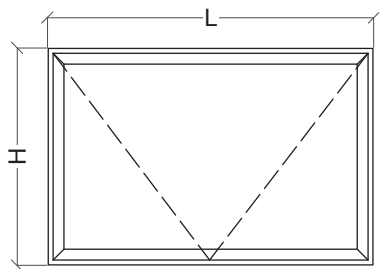
197

Vidro

Hv = H-173 mm	Lv = L/2-131 mm
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Janela projectante



Perfis

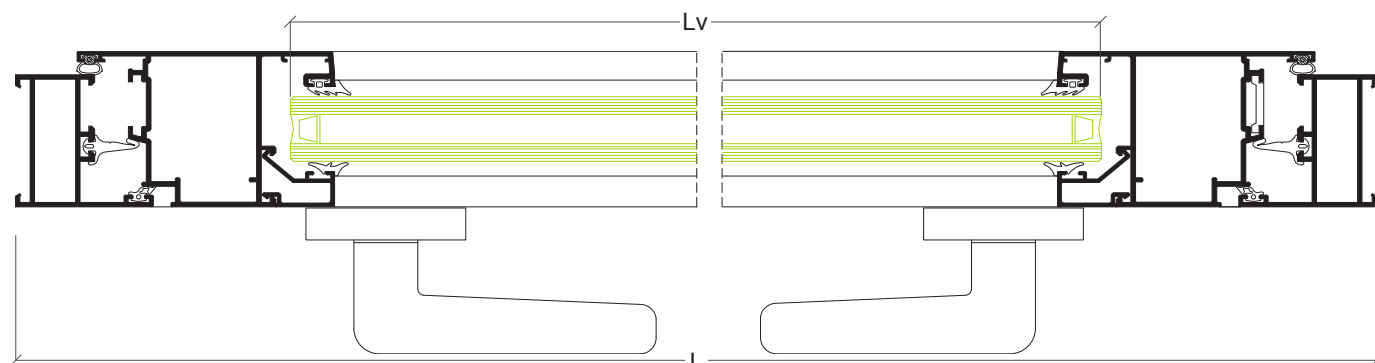
Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-03	Aro fixo		2	L
				2	H-24 mm
	AX-06	Aro móvel		2	L-42 mm
				2	H-66 mm
	---	Bite		2	L-178 mm
				4	H-242 mm
	AX-58	Soleira de condensação		1	L

Acessórios e Juntas

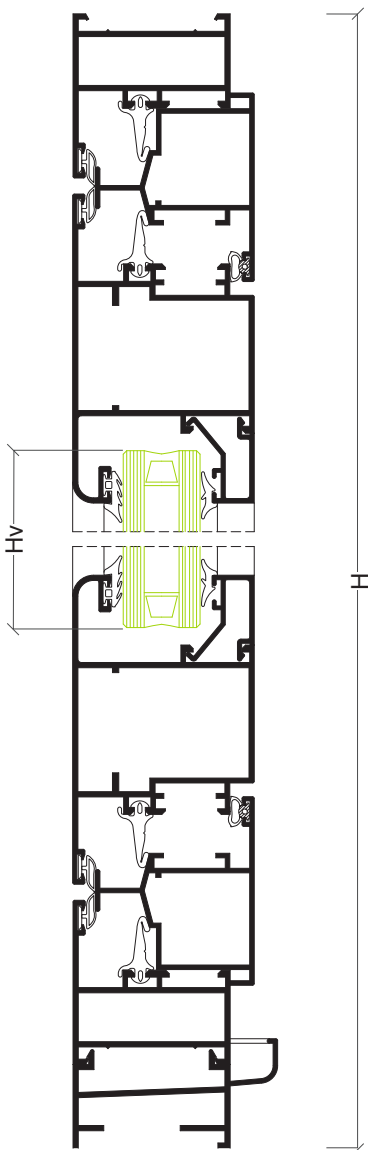
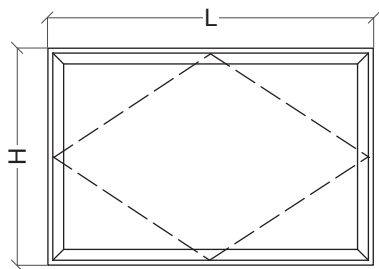
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	2
30 92 01 00	Goteiras	2
30 92 03 60	Esquadro janela	4
30 92 03 63	Esquadro porta	4
30 93 00 50	Junta central (facultativa)	2L+2H
30 92 01 35	Esquadro alinhamento aro móvel	4
30 92 04 85	Jogo compasso projectante	1
30 92 06 10	Cremona lingueta	2
30 96 00 12	Jogo topos condensação	1
30 93 00 90	Junta interior	2L+2H
30 93 01 30	Junta exterior	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-216 mm	Lv = L-192 mm
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Janela pivotante horizontal



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-51	Aro fixo pivotante		2	L
				2	H-24 mm
	AX-54	Aro móvel pivotante		2	L-103 mm
				2	H-127 mm
	AX-55	Inversor superior		1	L-44 mm
				2 (1+1)	H/2-34 mm
	AX-55	Inversor inferior		1	L-44 mm
				2 (1+1)	H/2-34 mm
	---	Bite		2	L-240 mm
				2	H-304 mm
	AX-58	Soleira de condensação		1	L

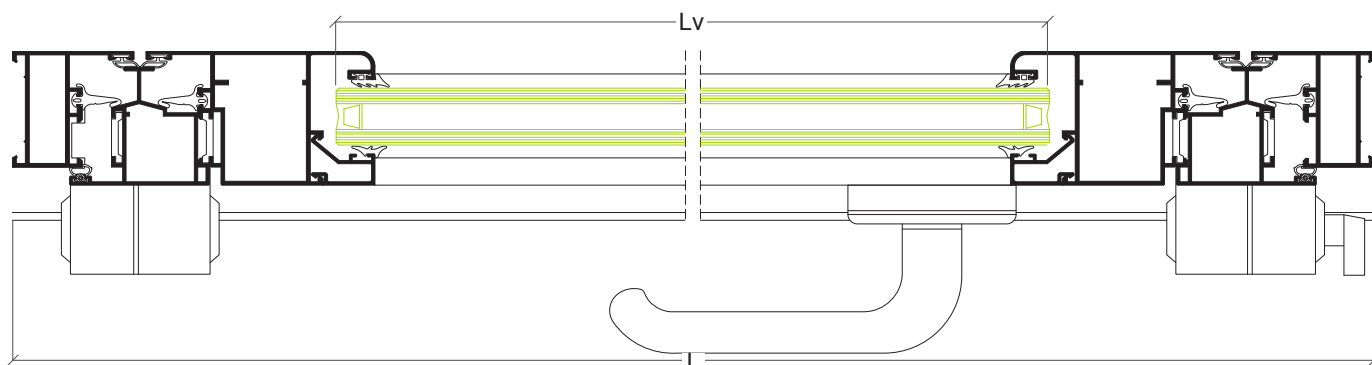
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 03 60	Esquadro janela	4
30 92 04 10	Esquadro inversor pivotante	4
30 92 04 30	Esquadro porta	4
30 92 07 10	Jogo pivotante	1
30 92 06 11	Cremona lingueta	2
30 93 00 50	Junta central	4L+4H
30 93 00 90	Junta interior	4L+4H
30 93 01 30	Junta exterior	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

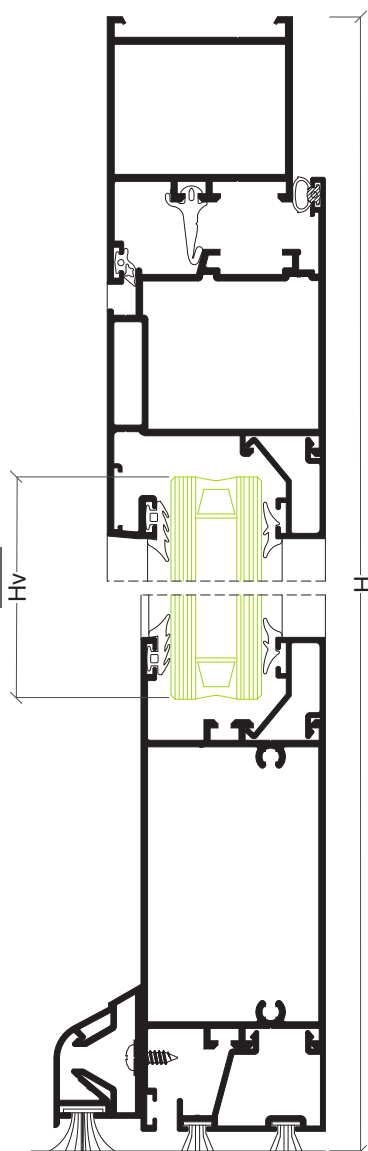
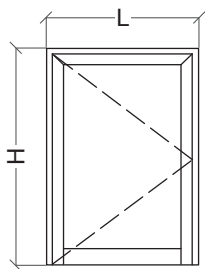
199

Vidro

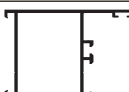


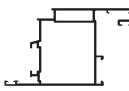













Hv = H-278 mm	Lv = L-254 mm
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Porta 1 folha



Perfis

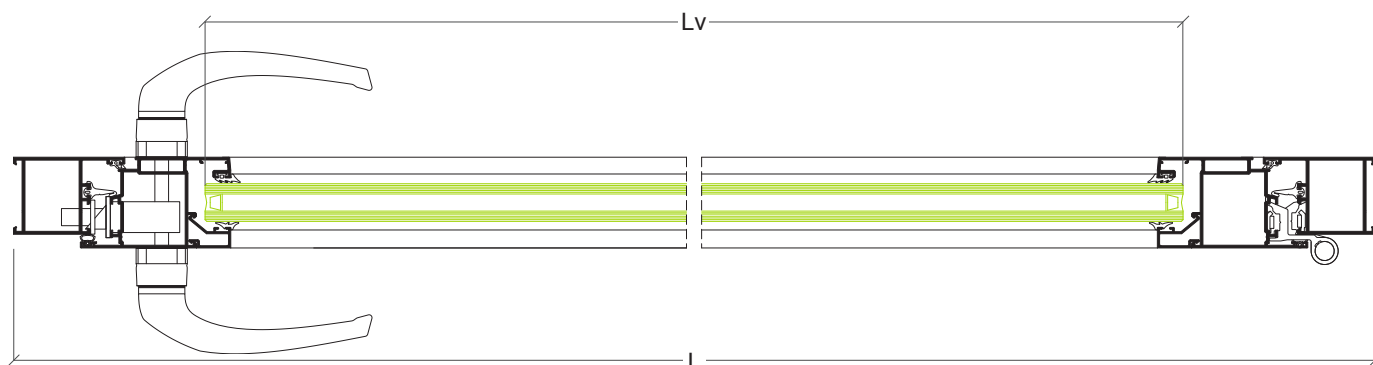
Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-08	Aro fixo		1	L
				2	H
	AX-07	Aro móvel		1	L-78 mm
				2	H-45 mm
	AX-12	Travessa		1	L-205 mm
	AX-15	Bite remate		1	L-213.5 mm
	---	Bite		2	L-213.5 mm
				2	H-253 mm
	AZ-60	Pingadeira		1	L-148 mm
	AZ-61	Suplemento		1	L-254 mm

Acessórios e Juntas

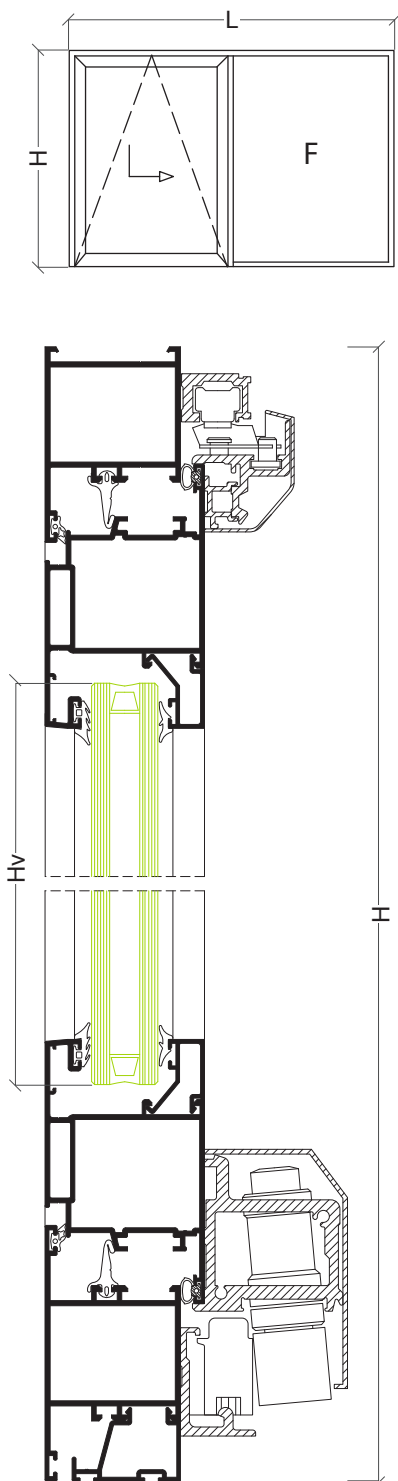
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	3
30 92 01 35	Esquadro alinhamento móvel	4
30 92 03 63	Esquadro móvel	2
30 92 03 70	Esquadro porta	2
30 92 05 10	Fechadura 3 pontos	1
30 92 05 40	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 92 01 00	Goteira	2
30 92 05 00	Jogo topos	1
30 93 00 50	Junta central	1L+2H
30 93 00 90	Junta exterior	1L+2H
30 93 01 20	Junta interior	1L+2H
30 95 00 10	Pelúcia 7x9 mm	2L
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

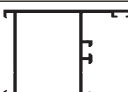




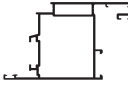







Hv = H-227 mm	Lv = L-227 mm
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Porta oscilo-paralela com fixo lateral



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-08	Aro fixo		1	L
				2	H
	AX-28	Travessa		1	L-81 mm
				1	H-101 mm
	AX-07	Aro móvel		2	L1-55.5 mm
				2	H-98 mm
	---	Bite		2	L1-191 mm
				2	H-273.5 mm
	---	Bite		2	L2-67.5 mm
				2	H-150 mm
	AX-15	Bite remate		1	L-90 mm
	AX-19	Vareta		1	Apro. L1
				2	Apro. L1

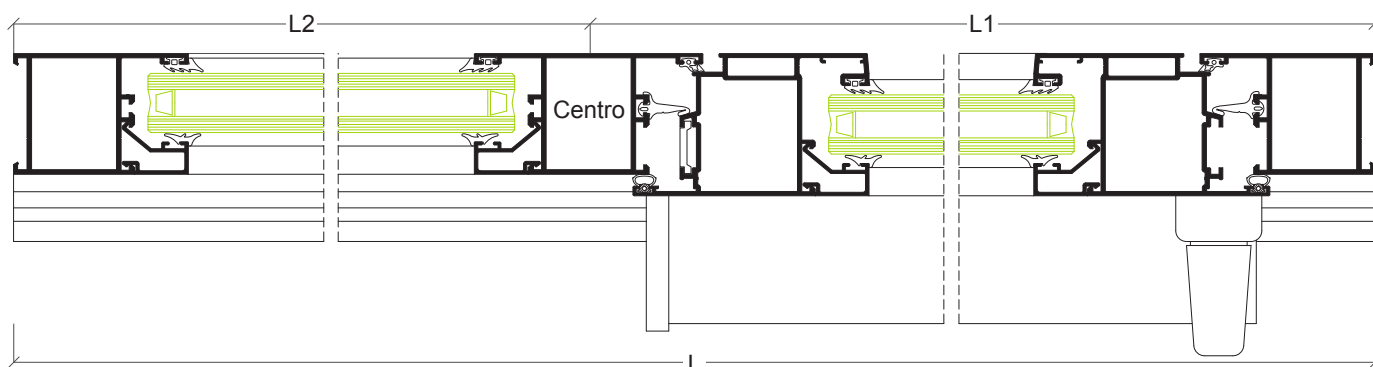
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 01 35	Esquadro alinhamento móvel	8
30 92 03 63	Esquadro móvel AX-10	4
30 92 03 70	Esquadro porta	4
---	Kit oscilo-paralela	1
30 92 01 50	União porta	4
30 93 00 50	Junta central	L+2H
30 93 00 90	Junta exterior	L+2H
30 93 01 20	Junta interior	L+2H
---	Junta exterior vidro	2L+4H
---	Junta interior vidro	2L+4H

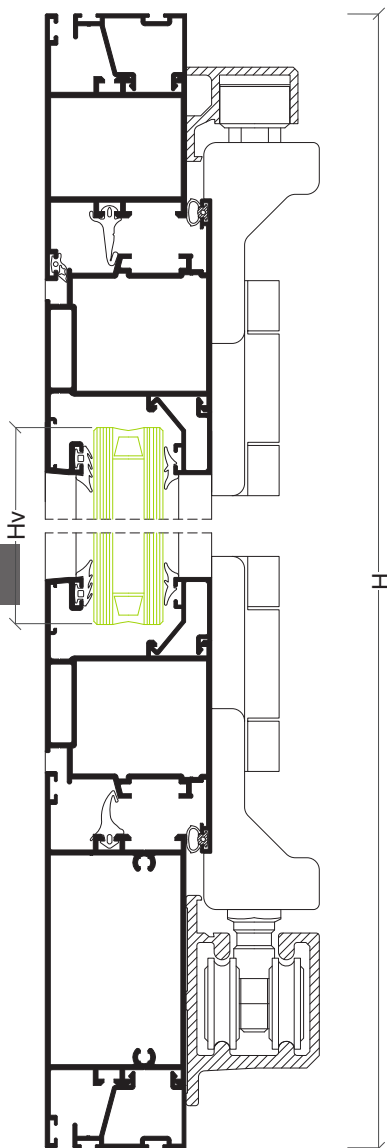
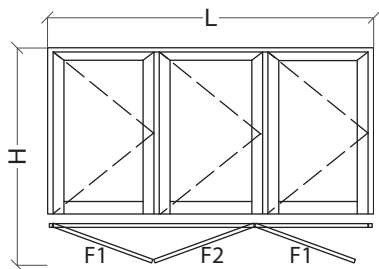
Vidro

Hv folha = H-248 mm	Lv folha = L1-205 mm	
Hv fixo = H-124 mm	Lv fixo = L2-82 mm	
	Mínimo	Máximo
Largura da folha	700 mm	1650 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 150 kg		





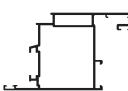












201



Porta 3 folhas harmónio



Perfis

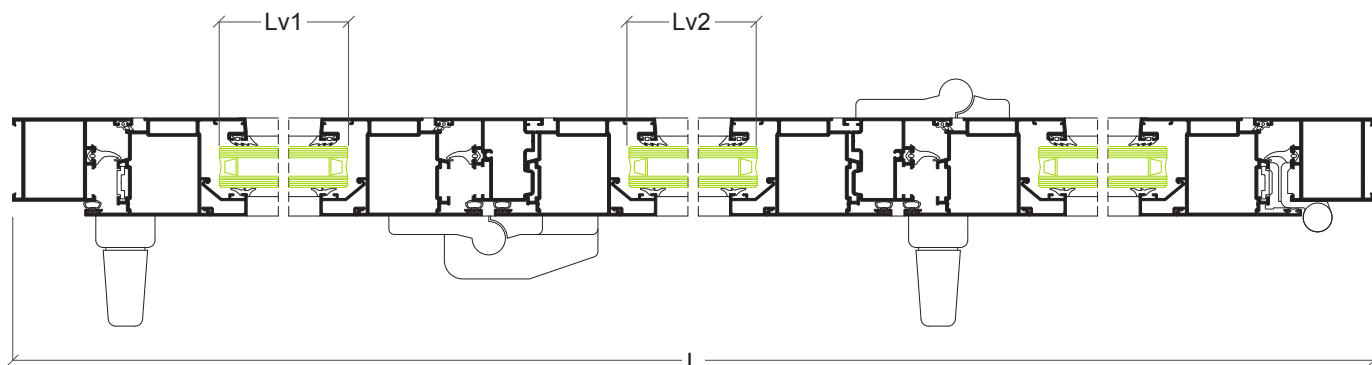
Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-08	Aro fixo		2	H
	AX-28	Travessa		1	L-81 mm
	AX-07	Aro móvel		4	F1 consultar
				2	F2 consultar
				6	consultar
	AX-11	Inversor		2	consultar
	---	Bite		2	consultar
				2	consultar
	AX-15	Bite remate		2	L
	AX-19	Vareta		1+1	H+H

Acessórios e Juntas

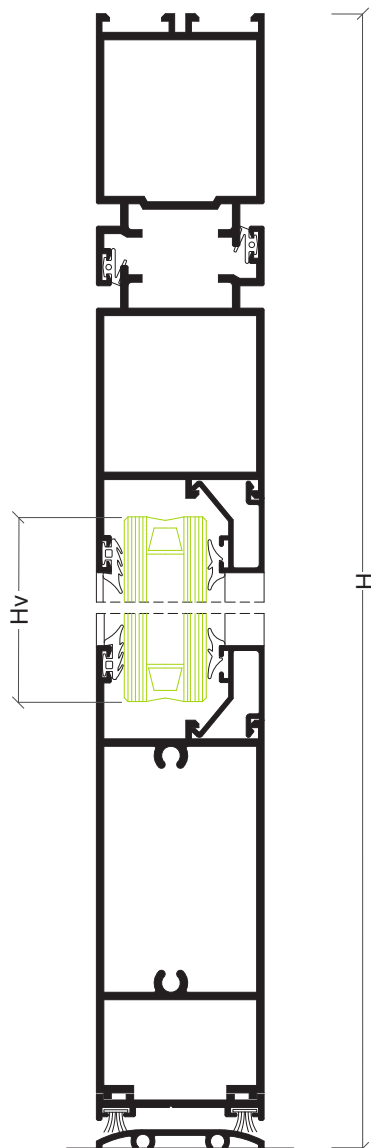
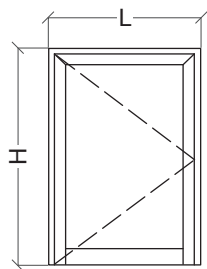
Referência	Descrição	Quantidade
30 92 00 26	Dobradiças 3 nós	3
30 92 01 00	Goteiras	4
30 92 01 13	Jogo topos inversor	2
30 92 01 35	Esquadro alinhamento móvel	24
30 92 03 63	Esquadro móvel	12
30 92 03 70	Esquadro porta	4
---	Kit harmónio (3+0)	1
30 93 00 50	Junta central	2L+4H
30 93 00 90	Junta exterior	2L+6H
30 93 01 20	Junta interior	2L+6H
---	Junta exterior vidro	2L+4H
---	Junta interior vidro	2L+4H

Vidro

Hv = consultar	Lv 1 = consultar	
	Lv 2 = consultar	
	Mínimo	Máximo
Largura da folha	600 mm	900 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 80 kg		



Porta 1 folha



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-64	Aro fixo		1	L
				2	H
	AX-65	Aro fixo		1	L-114 mm
				2	H-72 mm
	AX-68	Almofada		1	L-250 mm
	AX-36	Bite		2	L-260 mm
				2	H-285 mm
	AX-60	Vedação inferior		1	L-114 mm
	AX-63	Remate pavimento		1	L-105 mm

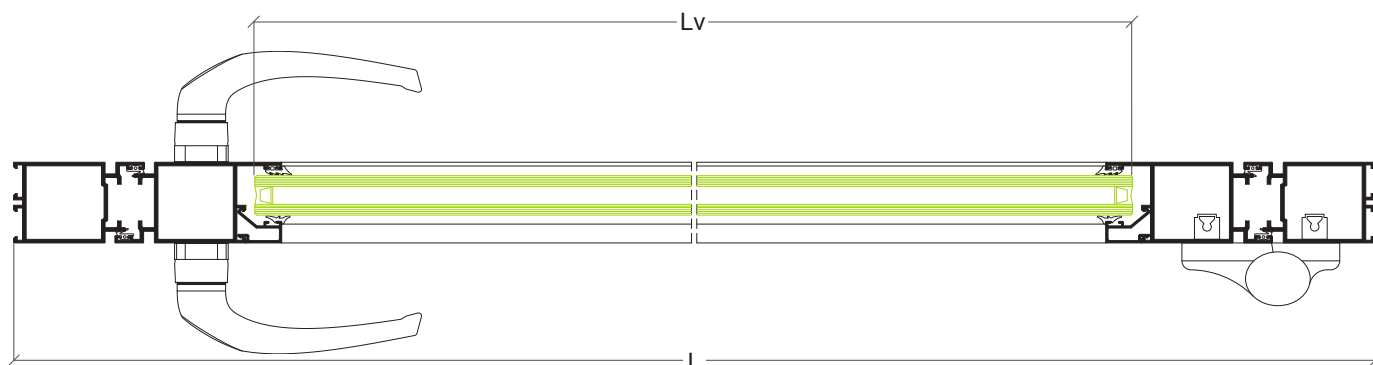
Acessórios e Juntas

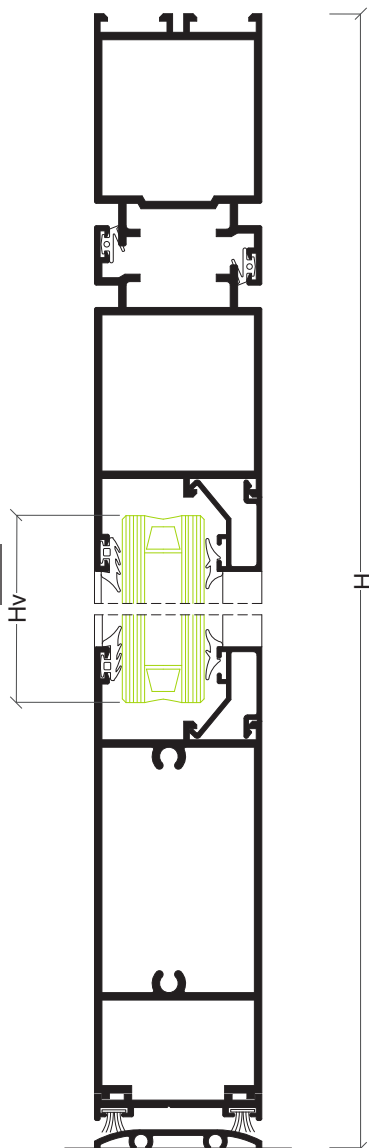
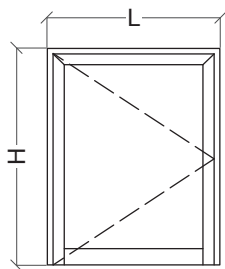
Referência	Descrição	Quantidade
30 20 26 01	Esquadro porta	4
30 20 26 02	Dobradiças	3
---	Fechadura especial (sob encomenda)	1
---	Chapa testas (sob encomenda)	3
30 92 05 40	Canhão de fechadura	1
30 92 05 60	Puxador duplo	1
30 20 26 03	Junta interior	2L+4H
30 95 00 10	Pelúcia 7x9 mm	2L

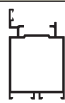


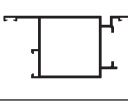


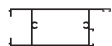








203

Vidro

Hv = H-259 mm	Lv = L-274 mm
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Porta 1 folha abertura exterior

Perfis

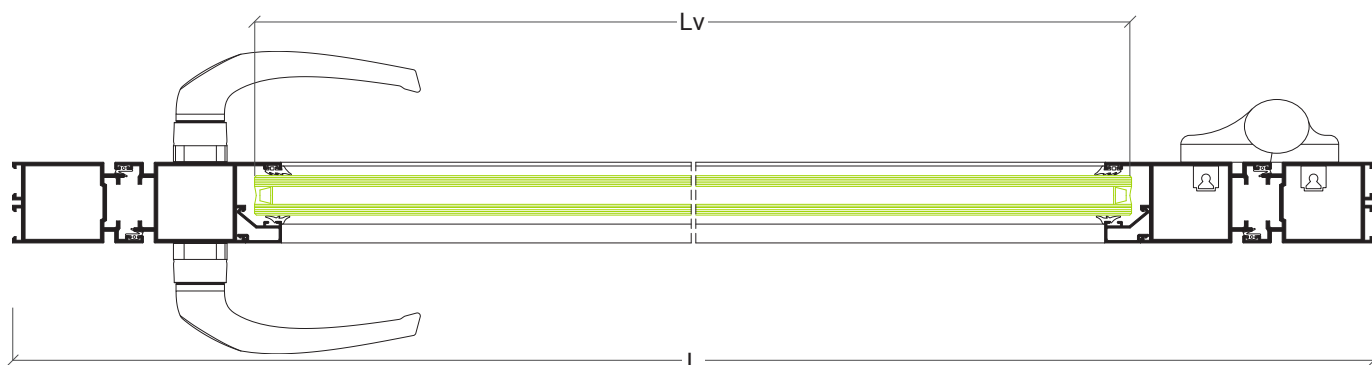
Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-64	Aro fixo		1	L
				2	H
	AX-66	Aro móvel abertura exterior		1	L-114 mm
				2	H-72 mm
	AX-68	Almofada		1	L-250 mm
	AX-36	Bite		2	L-260 mm
				2	H-285 mm
	AX-60	Vedação inferior		1	L-114 mm
	AX-63	Remate pavimento		1	L-105 mm

Acessórios e Juntas

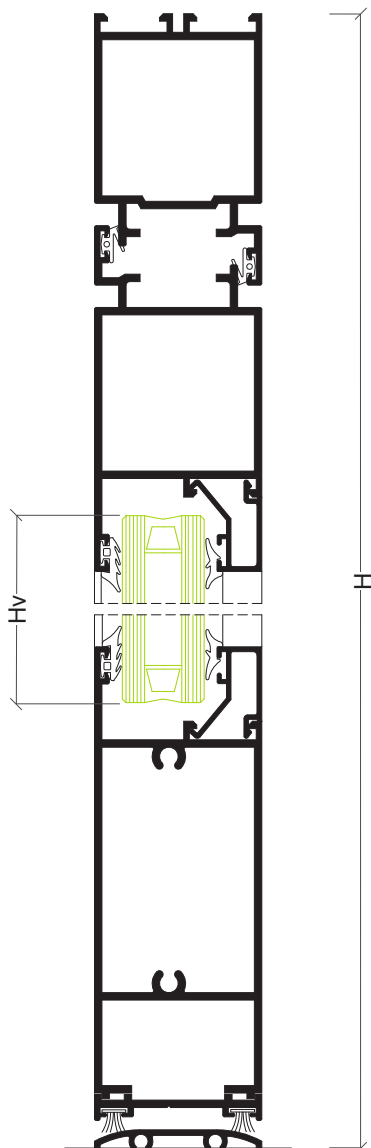
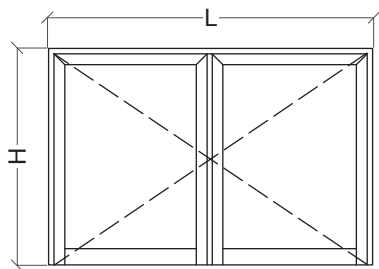
Referência	Descrição	Quantidade
30 20 26 01	Esquadro porta	4
30 20 26 02	Dobradiças	3
30 20 26 04	Jogo tampas batente	1
---	Fechadura especial (sob encomenda)	1
---	Chapa testas (sob encomenda)	3
30 92 05 40	Canhão de fechadura	1
30 92 05 60	Puxador duplo	1
30 20 26 03	Junta interior	2L+4H
30 95 00 10	Pelúcia 7x9 mm	2L

Vidro






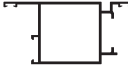


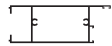








Hv = H-259 mm	Lv = L-274 mm
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Porta 2 folhas abertura exterior



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-64	Aro fixo		1	L
				2	H
	AX-65	Aro móvel		1	H-72 mm
	AX-66	Aro móvel abertura exterior		2	L/2-49 mm
				3	H-72 mm
	AX-68	Almofada		2	L/2-185 mm
	AX-36	Bite		4	L/2-195 mm
				4	H-285 mm
	AX-60	Vedação inferior		2	L/2-49 mm
	AX-63	Remate pavimento		1	L-105 mm

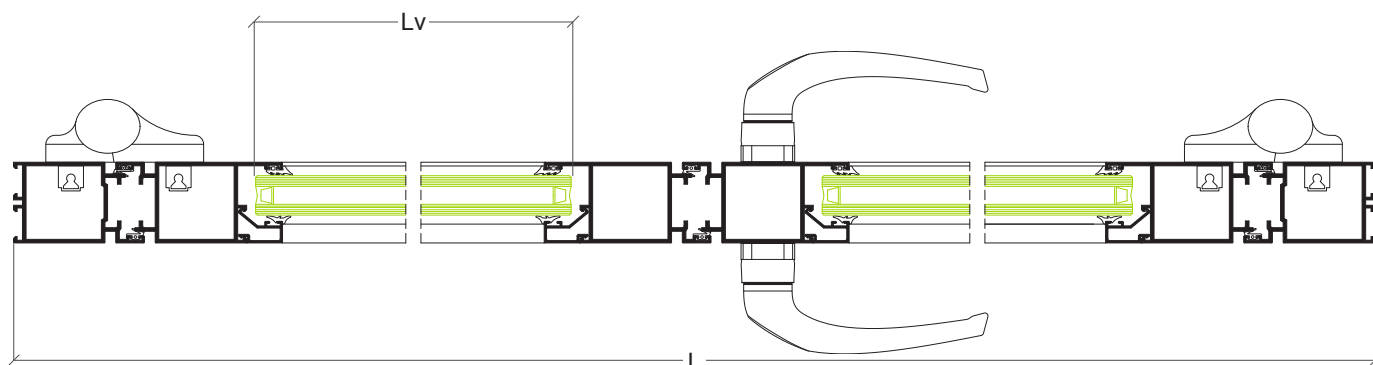
Acessórios e Juntas

Referência	Descrição	Quantidade
30 20 26 01	Esquadro porta	6
30 20 26 02	Dobradiças	6
30 20 26 04	Jogo tampas batente	2
30 20 26 10	Fecho 2ª folha pequeno	1
30 20 26 11	Fecho 2ª folha grande	1
---	Fechadura especial (sob encomenda)	1
---	Chapa testas (sob encomenda)	3
30 92 05 40	Canhão de fechadura	1
30 92 05 60	Puxador duplo	1
30 20 26 03	Junta interior	2L+6H
30 95 00 10	Pelúcia 7x9 mm	2L

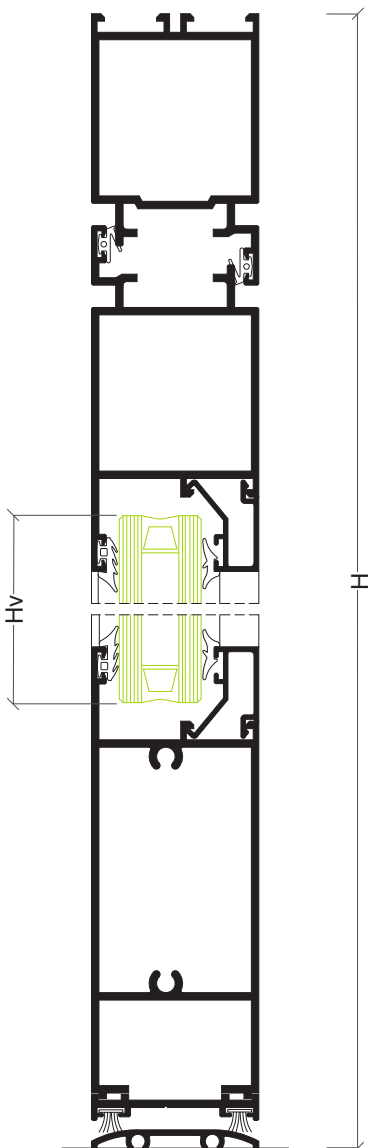
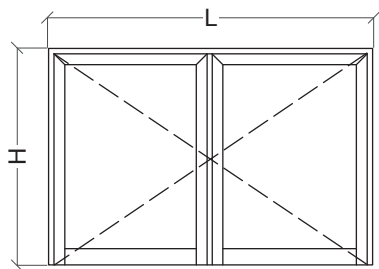
205

Vidro






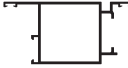


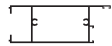








Hv = H-259 mm	Lv = L/2-209 mm
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Porta 2 folhas abertura exterior com junta anti-entalamento



Perfis

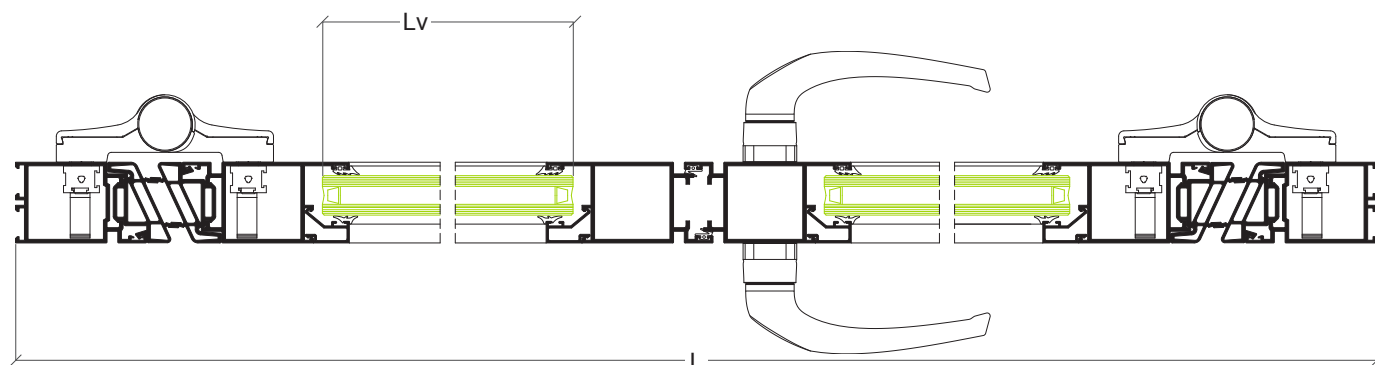
Desenho	Ref	Descrição	Corte	Quant	Medida
	AX-64	Aro fixo		1	L
				2	H
	AX-65	Aro móvel		1	H-72 mm
	AX-66	Aro móvel abertura exterior		2	L/2-85 mm
				3	H-72 mm
	AX-68	Almofada		2	L/2-222 mm
	AX-36	Bite		4	L/2-231mm
				4	H-285 mm
	AX-60	Vedação inferior		2	L/2-49 mm
	AX-63	Remate pavimento		1	L-105 mm

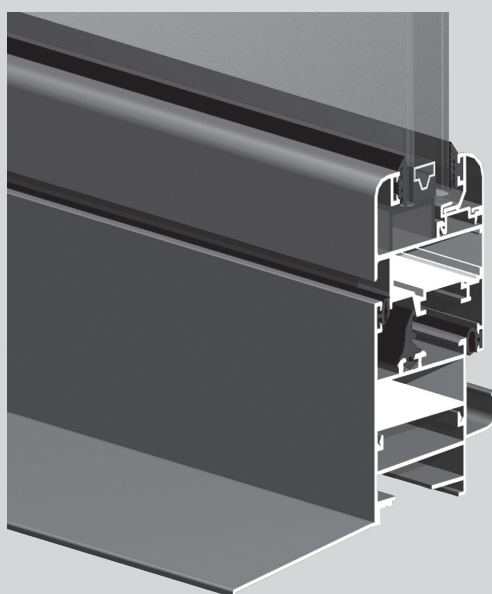
Acessórios e Juntas

Referência	Descrição	Quantidade
30 20 26 01	Esquadro porta	6
30 96 00 34	Dobradiça dupla anti-entalamento	6
30 20 26 04	Jogo tampas batente	2
30 20 26 10	Fecho 2ª folha pequeno	1
30 20 26 11	Fecho 2ª folha grande	1
30 92 05 40	Canhão de fechadura	1
---	Fechadura especial (sob encomenda)	1
---	Chapa testas (sob encomenda)	3
30 92 05 60	Puxador duplo	1
30 20 26 14	Junta anti-entalamento	4H
30 20 26 03	Junta interior	2L+2 H
30 95 00 10	Pelúcia 7x9 mm	2L

Vidro

Hv = H-259 mm	Lv = L/2-209 mm
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Sistema
AZ

Sistema AZ

Sistema de batente de câmara europeia - 40 mm

Características do sistema

Sistema de batente com câmara europeia e tripla vedação em EPDM (exterior, central, interior).

O sistema AZ possibilita a execução de 4 versões de caixilharia:

1. linha recta;
2. linha curva;
3. linha tradição;
4. linha oval.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 1.5 mm para janelas e portas.

Aros fixos

Secção dos aros fixos de 40 mm ou 72 mm;

Aros fixos com esquadro para montagem a meia esquadria.

Aros móveis

Secção dos aros móveis de 48 mm;

Enchimento para vidro simples ou duplo de 4 mm a 32 mm;

Aros móveis de linha recta, curva, tradição sem bite ou oval sem bite;

Aros móveis com esquadro para montagem a meia esquadria;

Perfil inversor de linha recta ou tradição.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 375 mm - 1700 mm (L); 410 mm - 2700 mm (H);

Peso máximo de 110 kg por folha com oscilo-batente;

Peso máximo de 90 kg por folha para janelas de abrir;

Peso máximo de 150 kg por folha com dobradiça porta;

Possibilidades de abertura: batente interior (com ou sem oscilo-batente), exterior, basculante, projectante, pivotante, harmónio e oscilo-paralela;

Estanquidade assegurada através de juntas triplas em EPDM.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema AZ tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 9A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema AZ tipologia porta:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 8A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)
4. Resistência à torção estática: Apto 350N (norma de ensaio EN 14609)

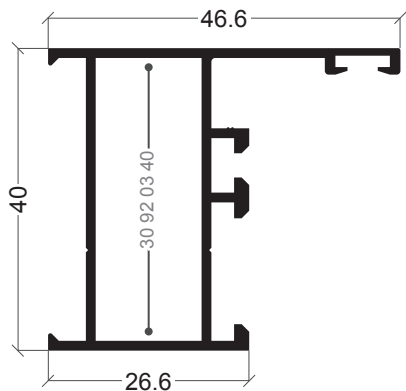
Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 1.50 m com vidro $U_g = 1.4 \text{ W/m}^2\text{K}$:

• $U_w = 2.92 \text{ W/m}^2\text{K}$

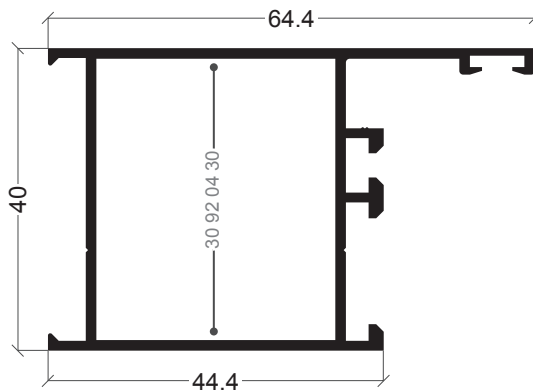
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/12/4:

• $R_w (C; C_{tr}) = 33 \text{ dB} (-1; -4)$

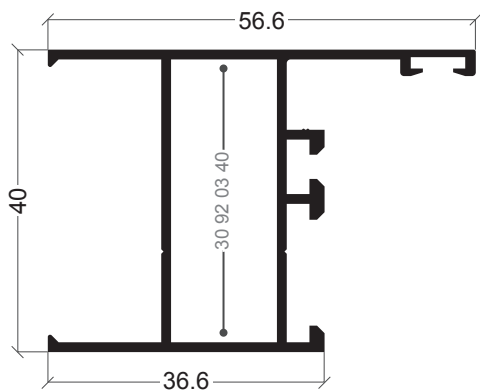
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



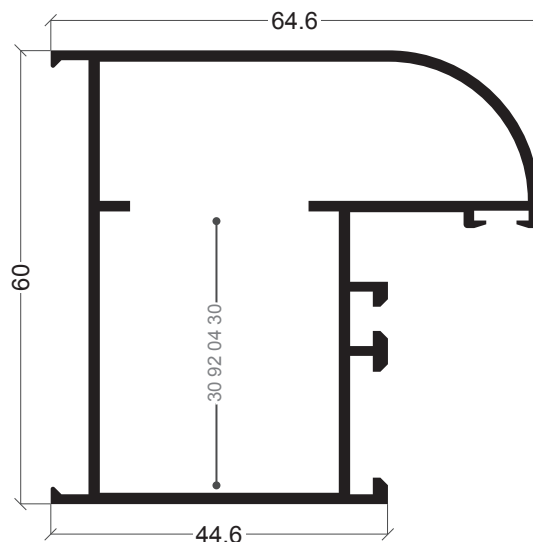
AZ-03
Aro fixo



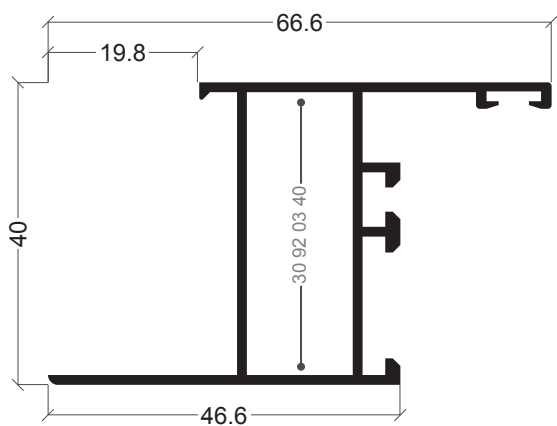
AZ-11
Aro fixo



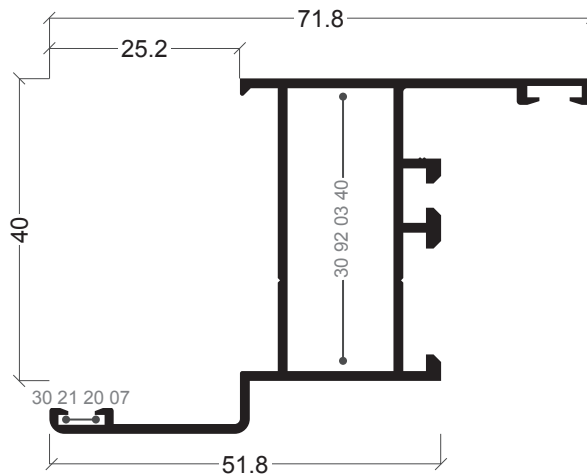
AZ-33
Aro fixo



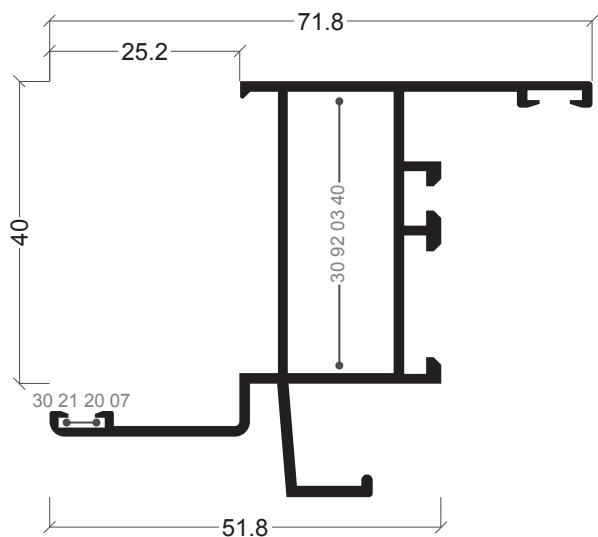
AZ-48
Aro fixo



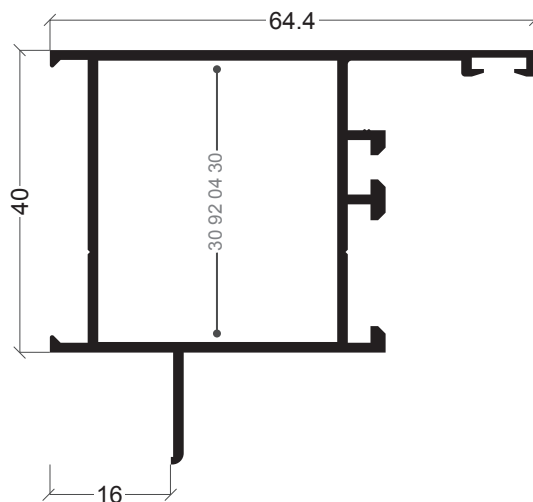
AZ-21
Aro fixo com remate



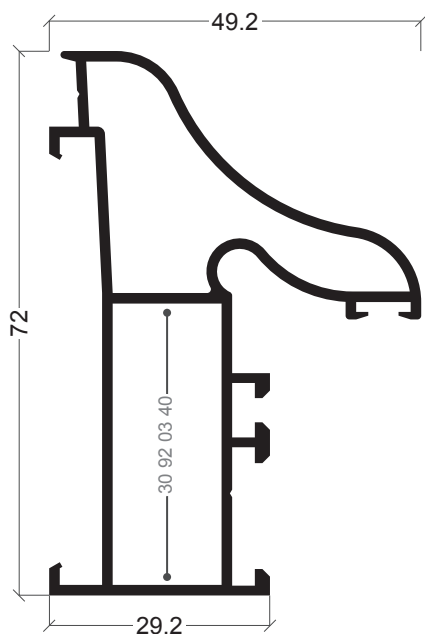
AZ-02
Aro fixo com remate



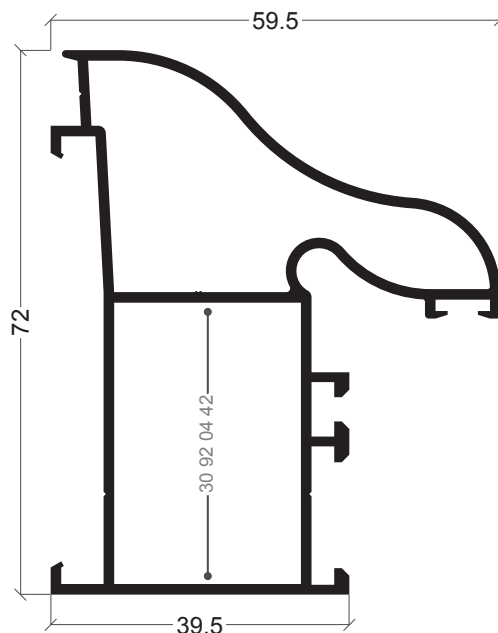
AZ-34
Aro fixo c/ remate e condensação



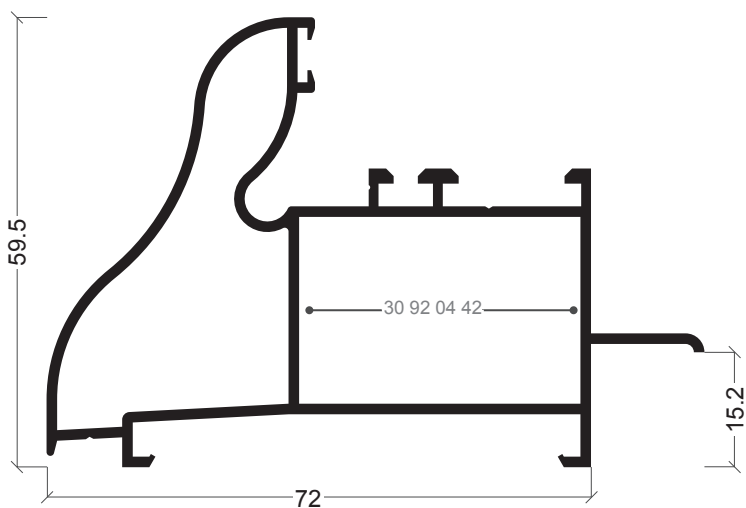
AZ-46
Aro fixo para apanelado



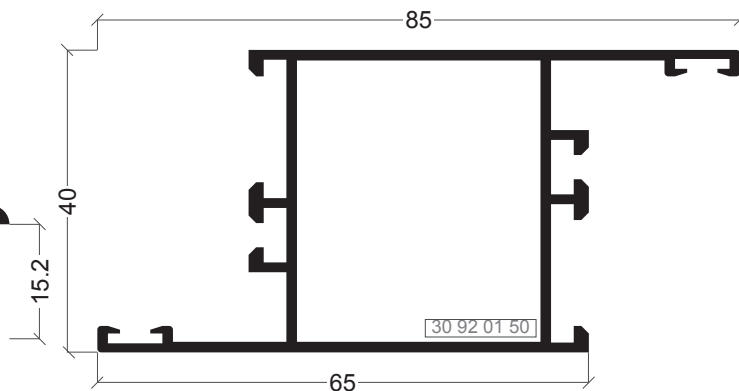
AZ-39
Aro fixo



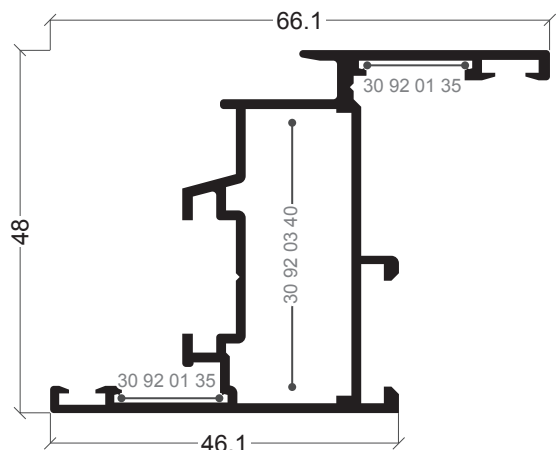
AZ-40
Aro fixo



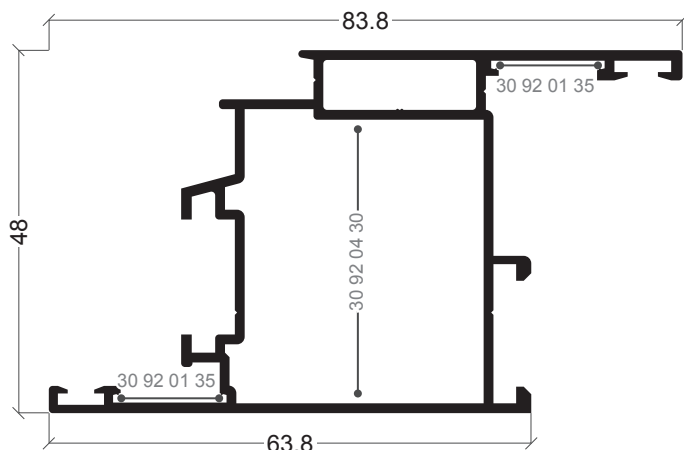
AZ-51
Aro fixo para apanelado



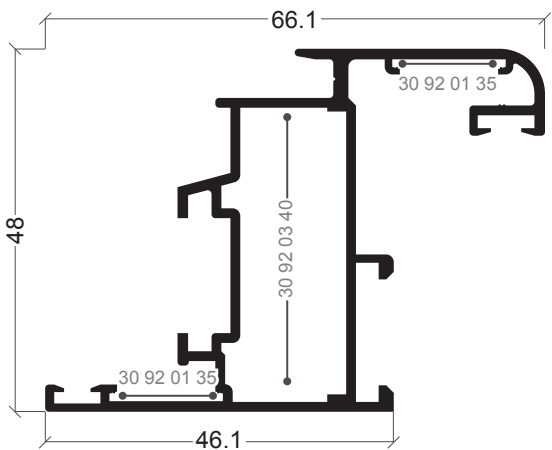
AZ-13
Aro fixo abertura exterior fixo lateral



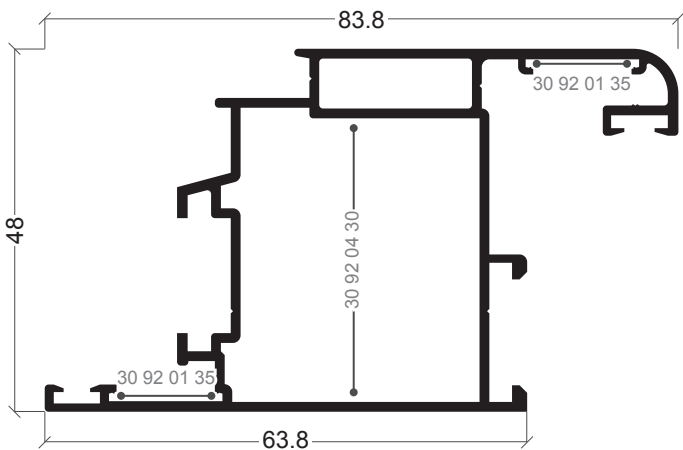
AZ-67
Aro móvel



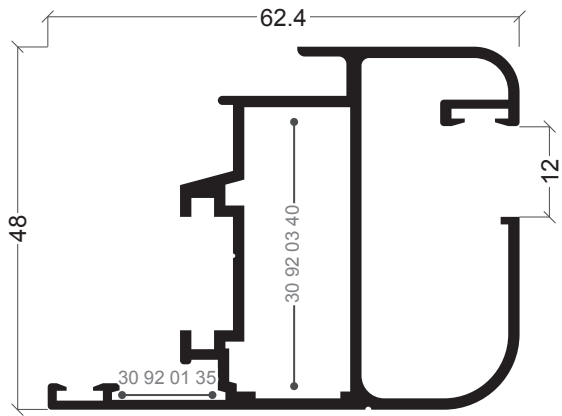
AZ-62
Aro móvel



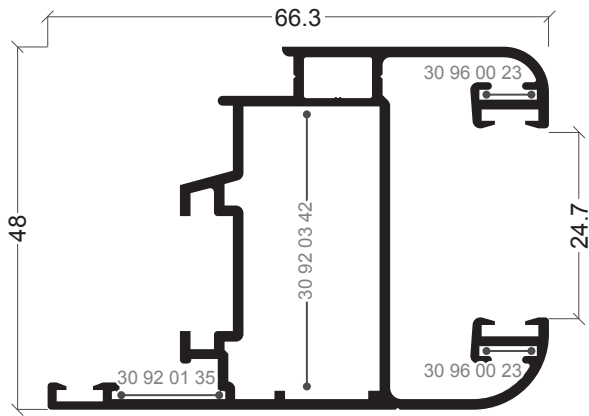
AZ-05
Aro móvel



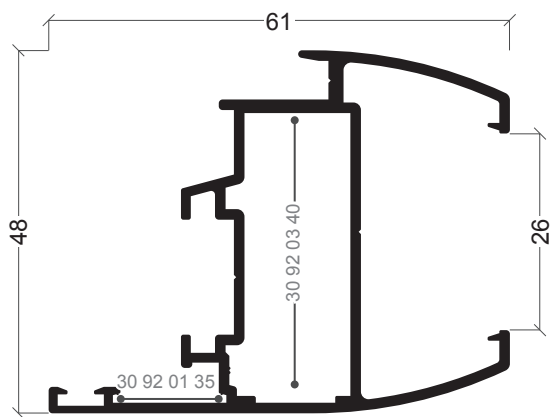
AZ-10
Aro móvel



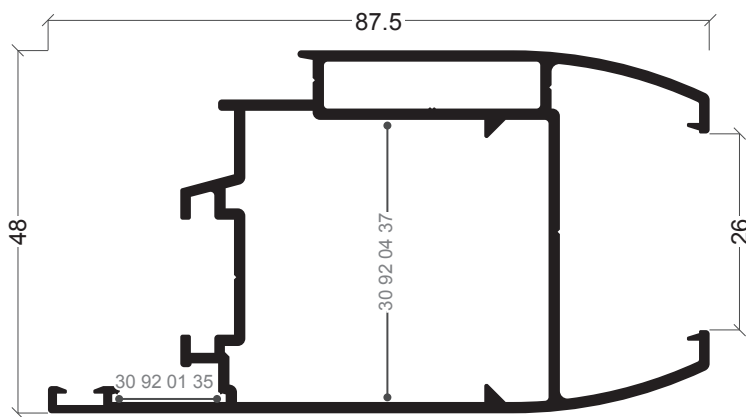
AZ-50
Aro móvel



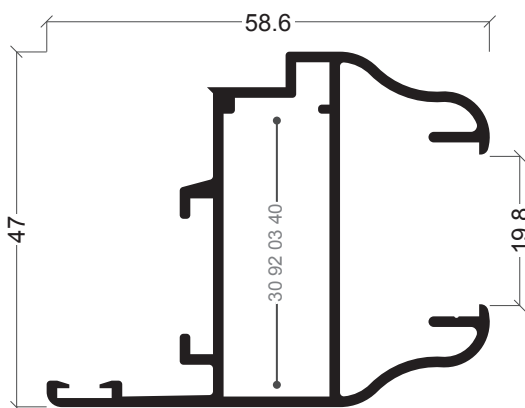
AZ-32
Aro móvel



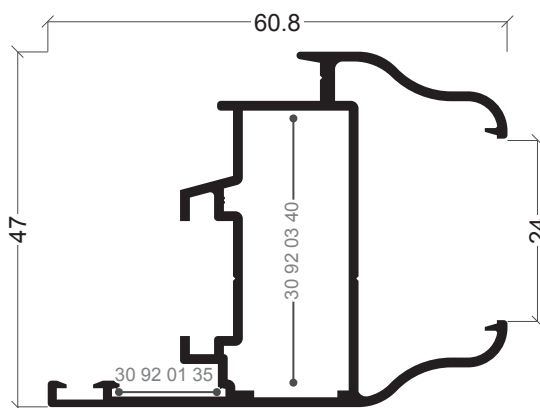
AZ-71
Aro móvel



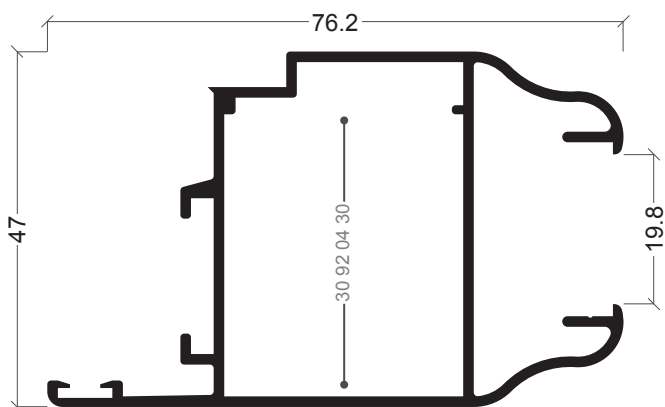
AZ-72
Aro móvel



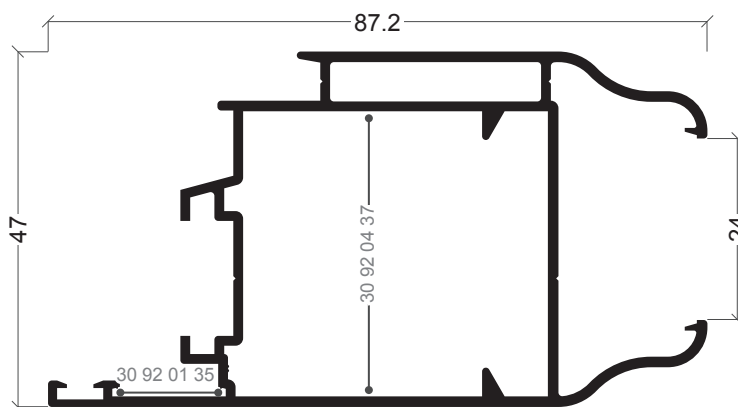
AZ-41
Aro móvel



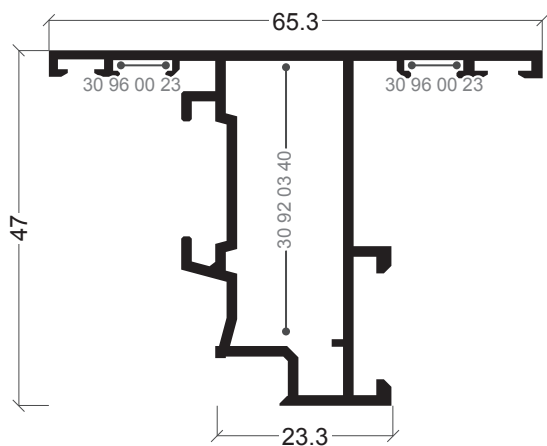
AZ-52
Aro móvel



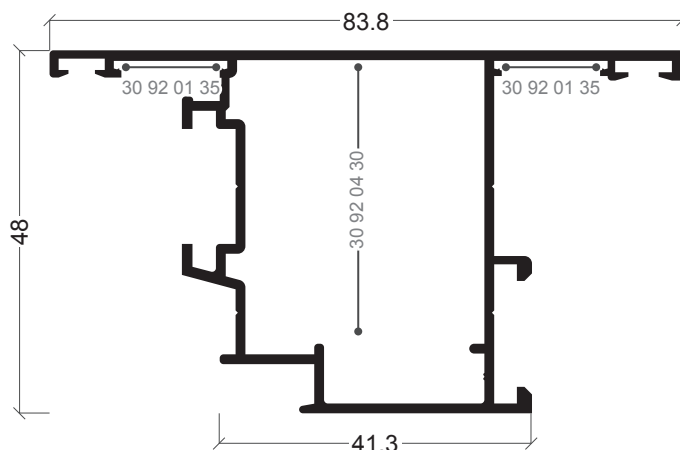
AZ-42
Aro móvel



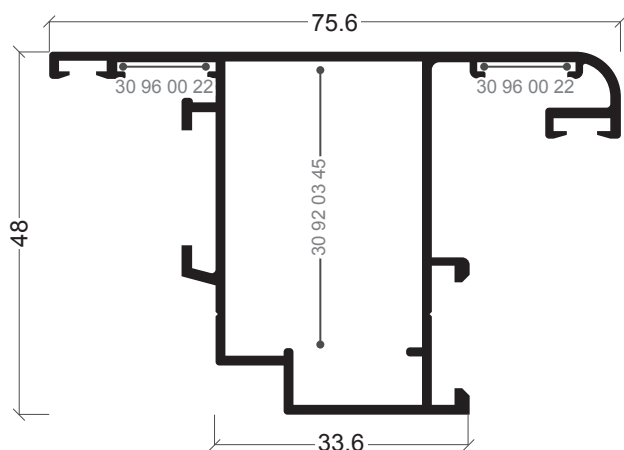
AZ-53
Aro móvel



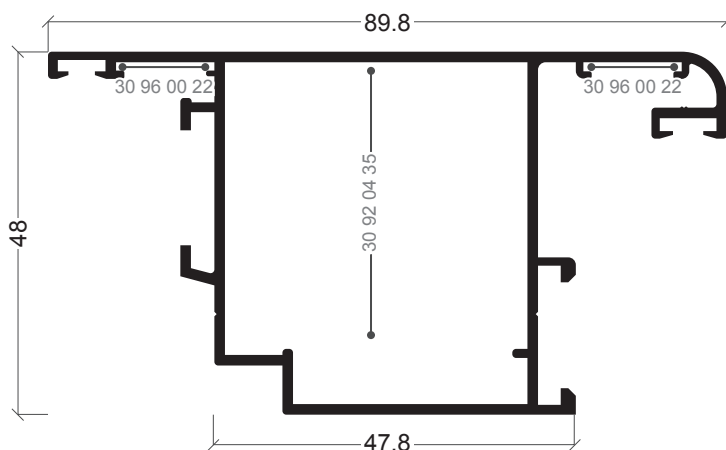
AZ-68
Aro móvel abertura.exterior



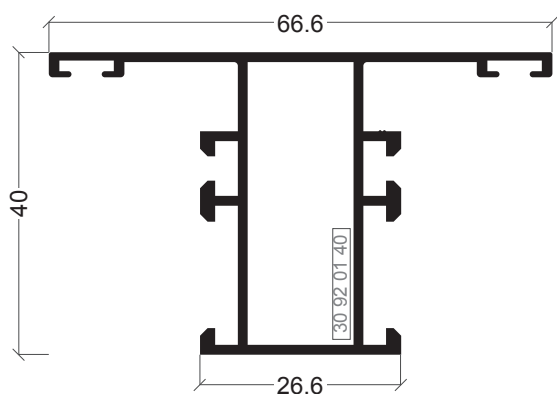
AZ-63
Aro móvel abertura.exterior



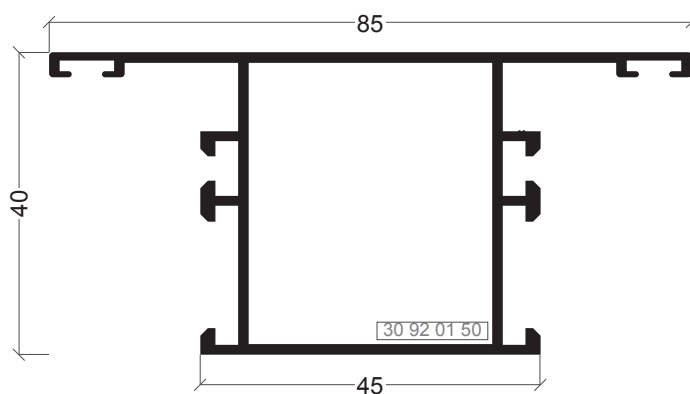
AZ-15
Aro móvel abertura.exterior



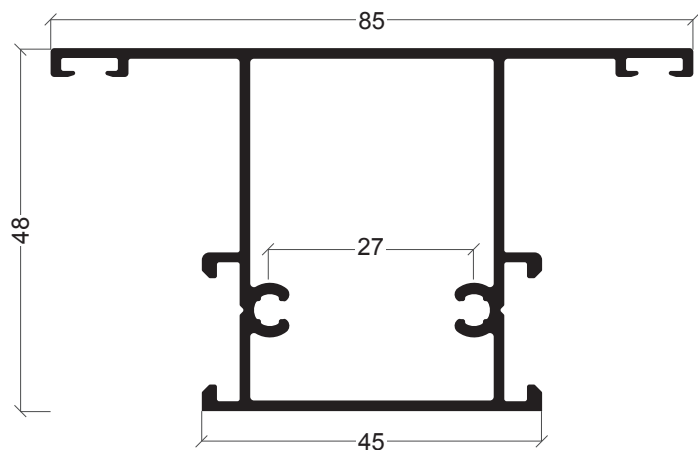
AZ-14
Aro móvel abertura.exterior



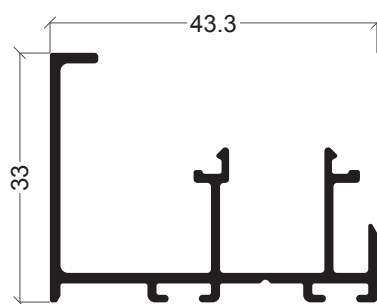
AZ-01
Travessa



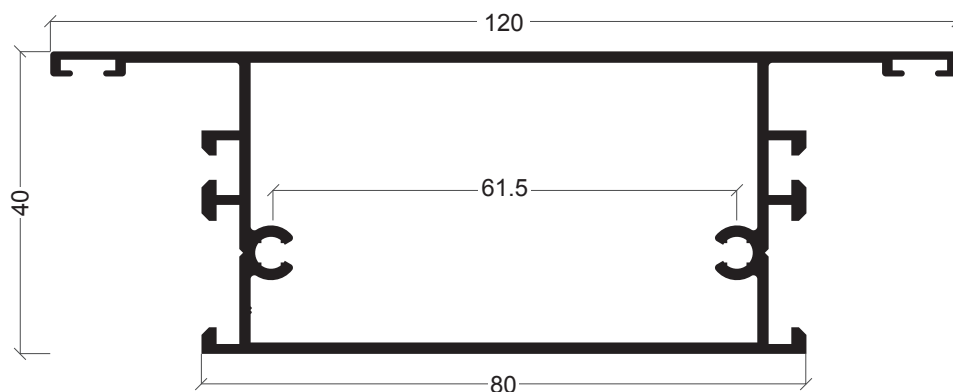
AZ-09
Travessa



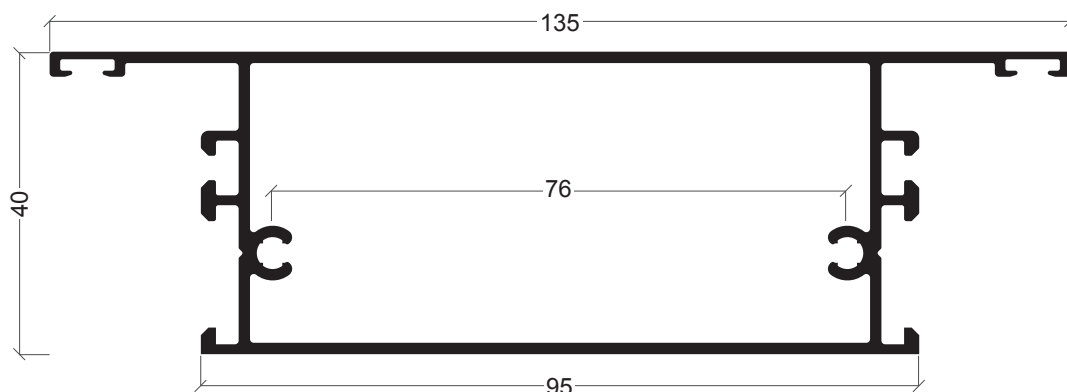
AZ-78
Travessa AZ-62/63/67



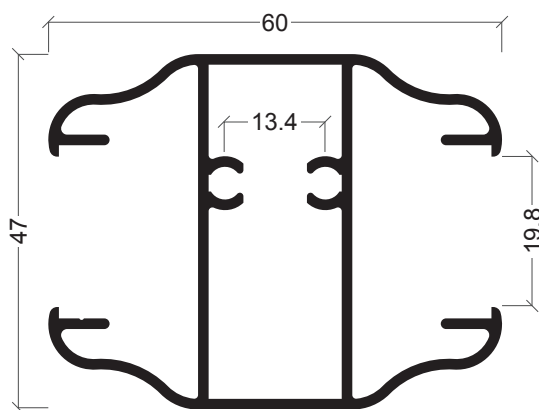
AZ-75
Remate almofada



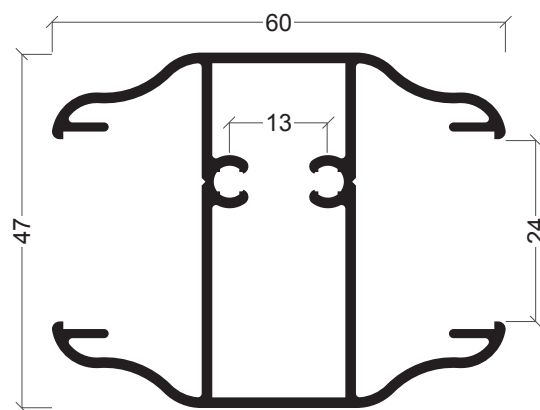
AZ-12
Travessa



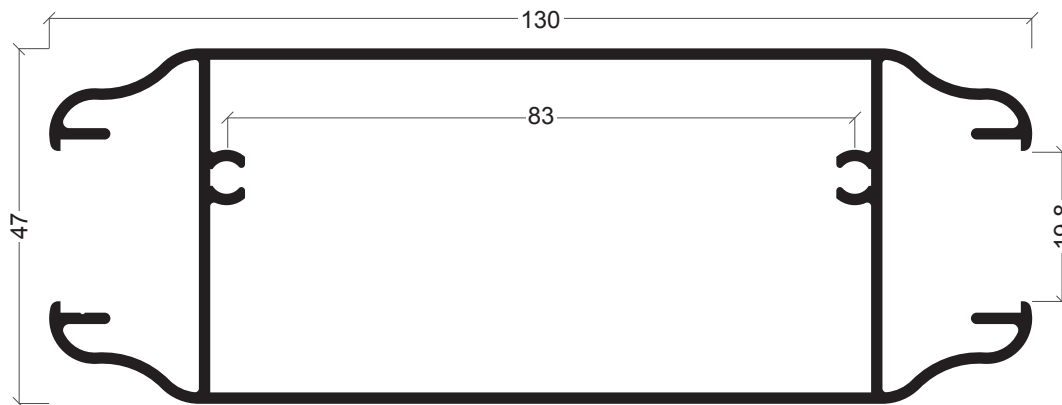
AZ-73
Travessa



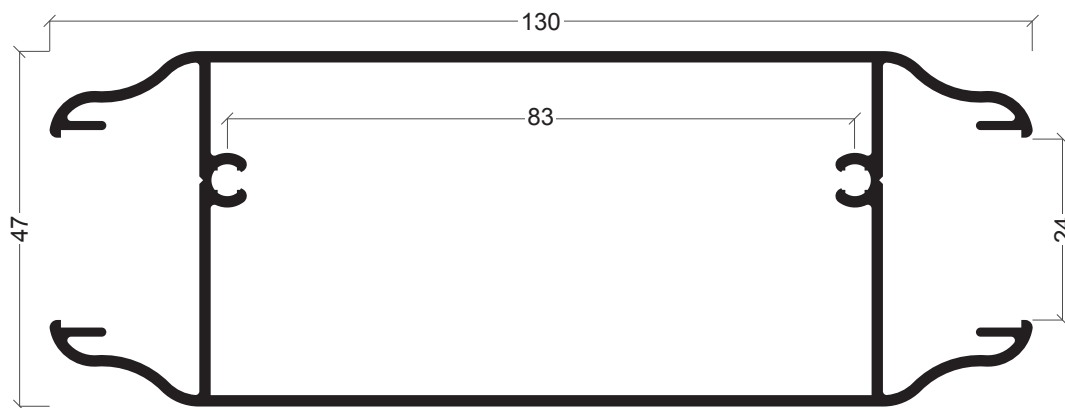
AZ-45
Travessa



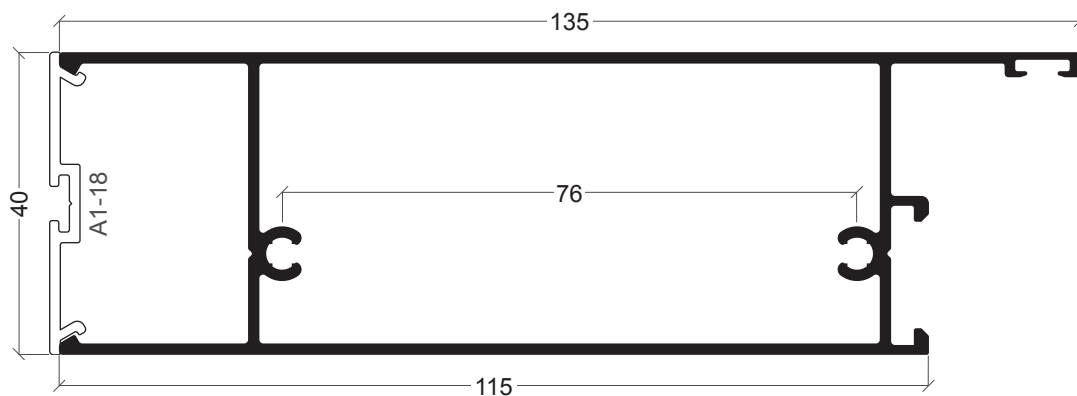
AZ-56
Travessa



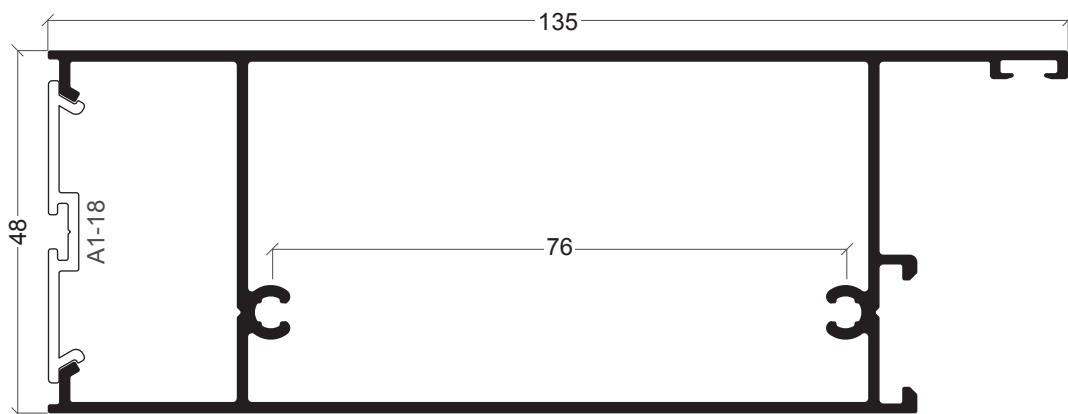
AZ-43
Travessa



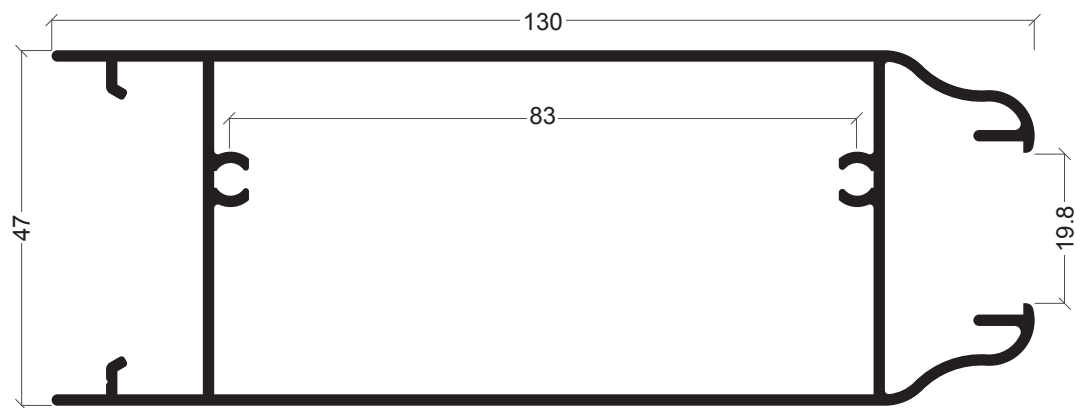
AZ-54
Travessa



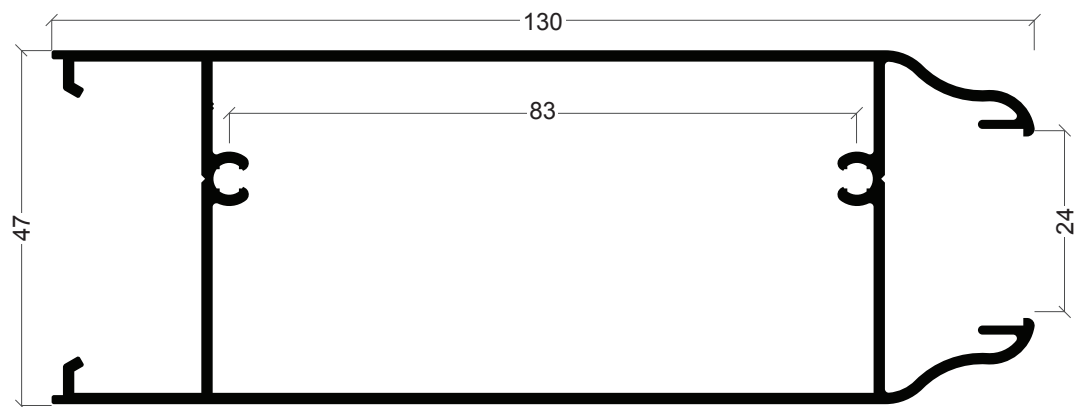
AZ-74
Almofada



AZ-77
Almofada

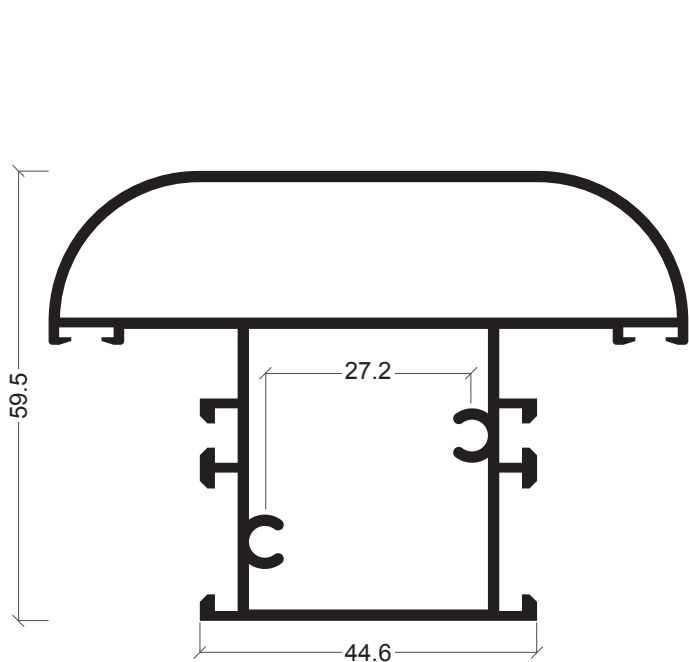


AZ-44
Alufada

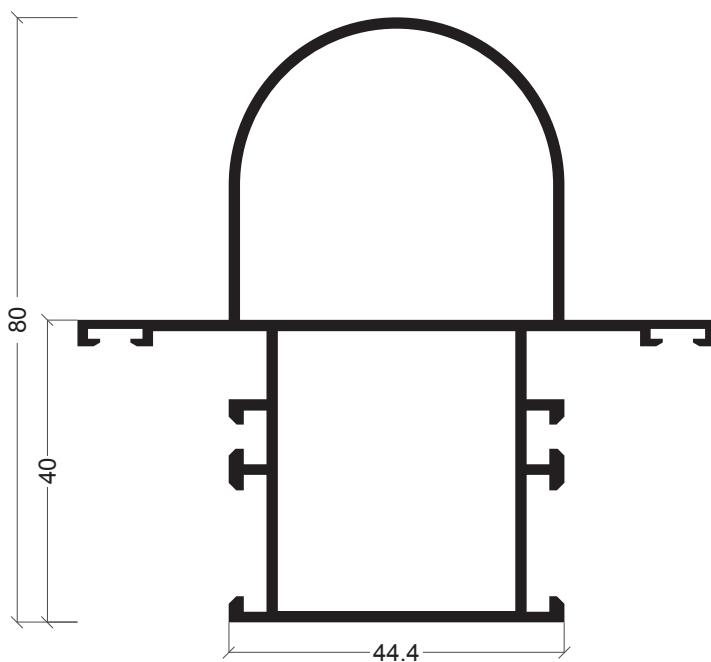


AZ-55
Alufada

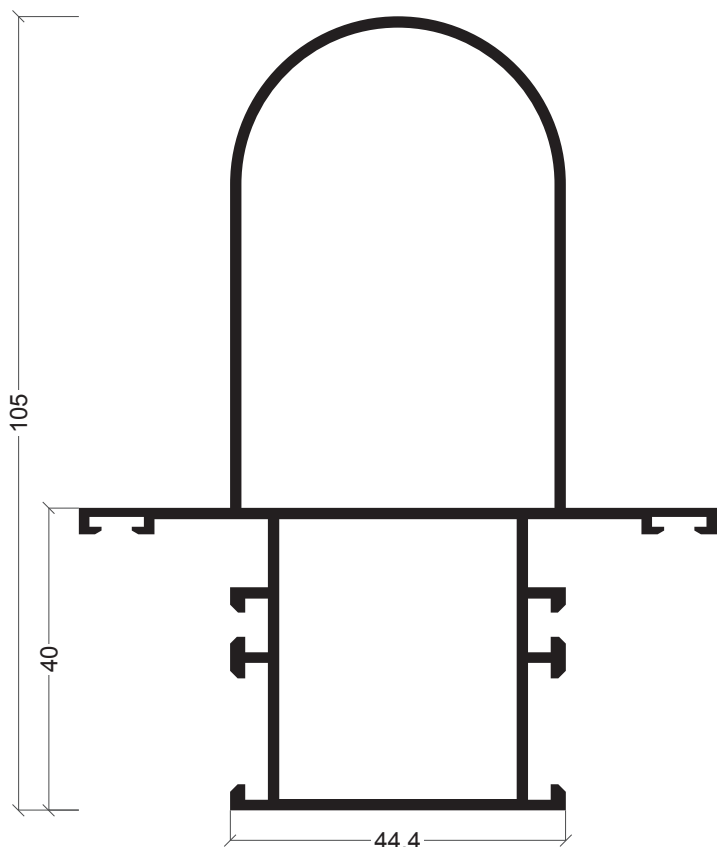
216



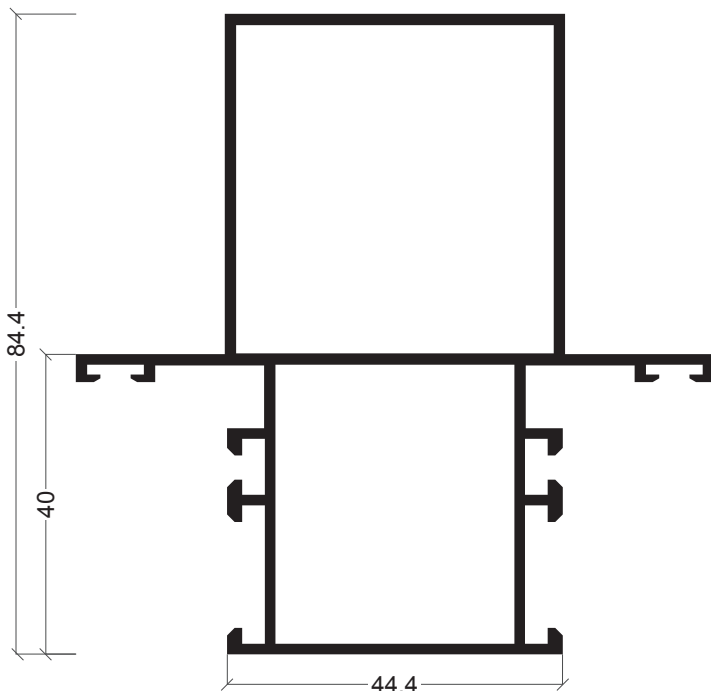
AZ-49
Travessa



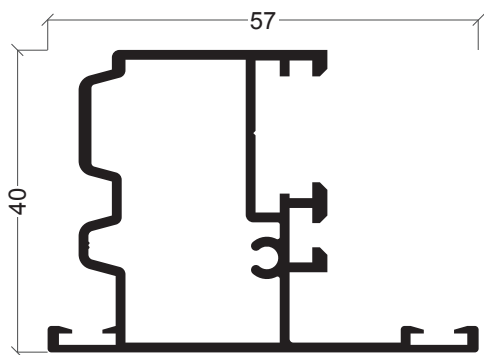
AZ-57
Montante



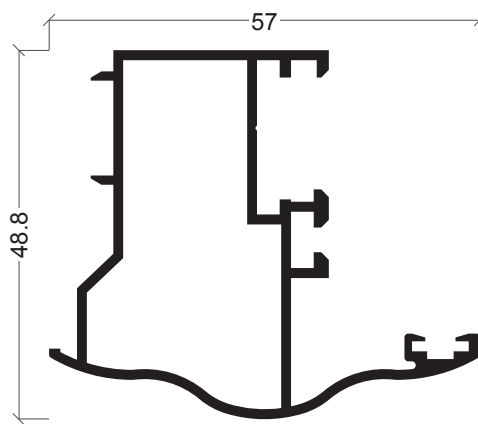
AZ-58
Montante



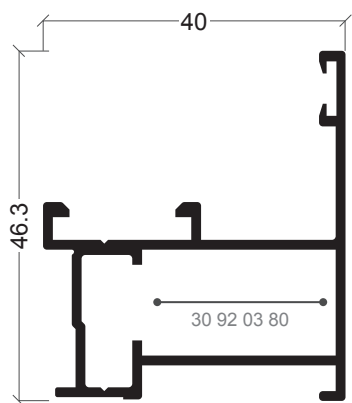
AZ-64
Montante



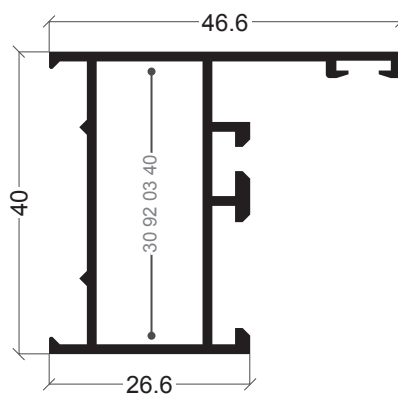
AZ-04
Inversor



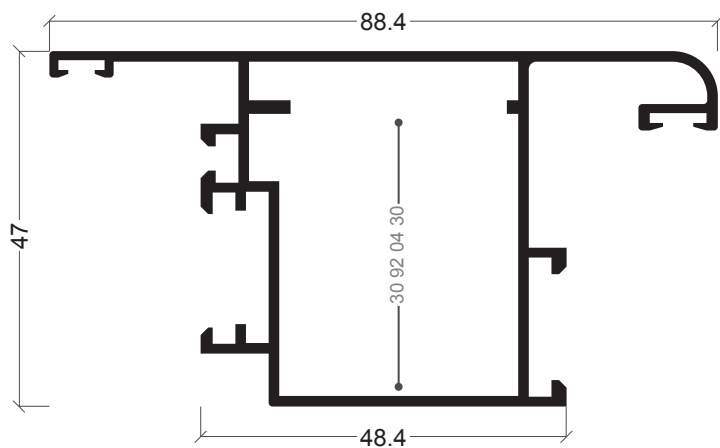
AZ-65
Inversor



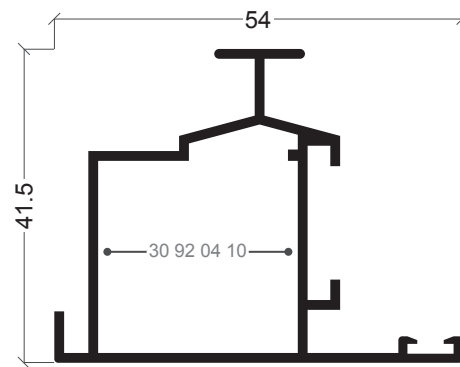
AZ-76
Inversor sentido de abertura



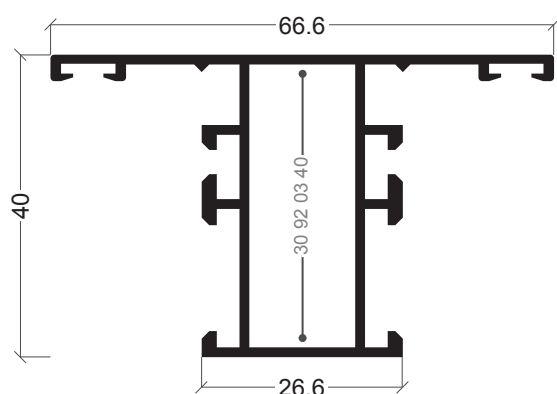
AZ-16
Aro fixo pivotante



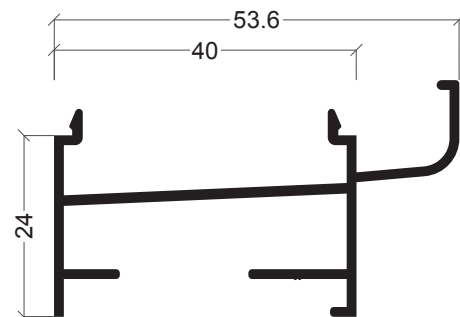
AZ-17
Aro móvel pivotante



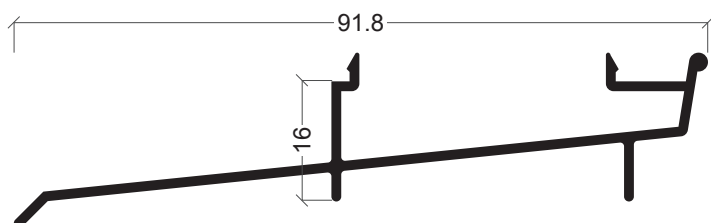
AZ-18
Inversor pivotante



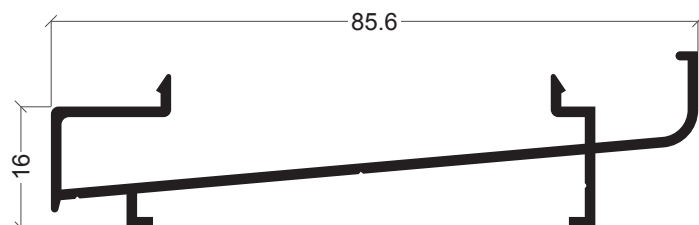
AZ-31
Travessa pivotante



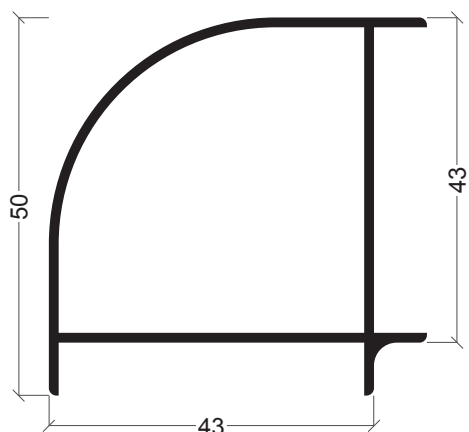
AZ-19
Soleira condensação



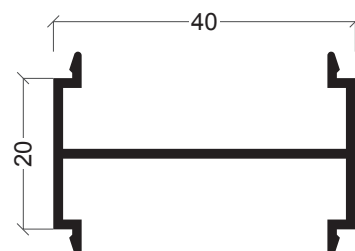
AZ-26
Soleira condensação



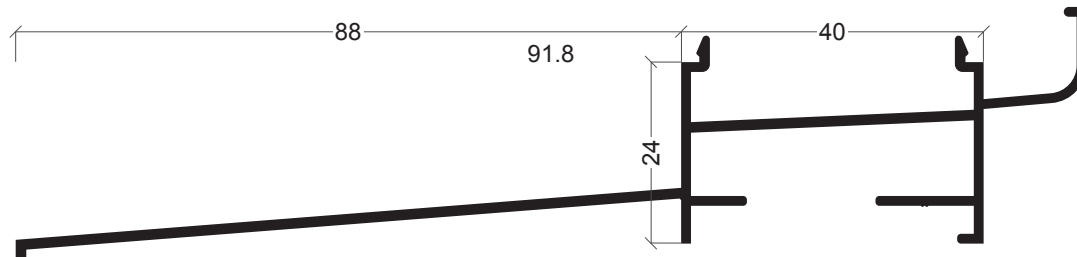
AZ-66
Soleira condensação



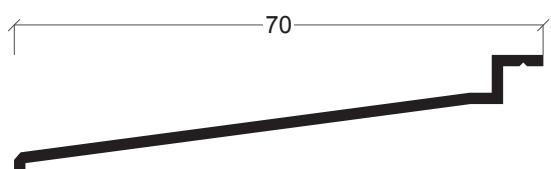
AZ-25
Canto 90°



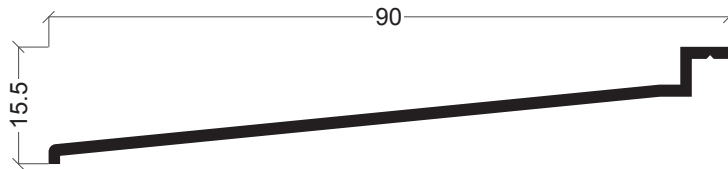
AZ-20
União de aros



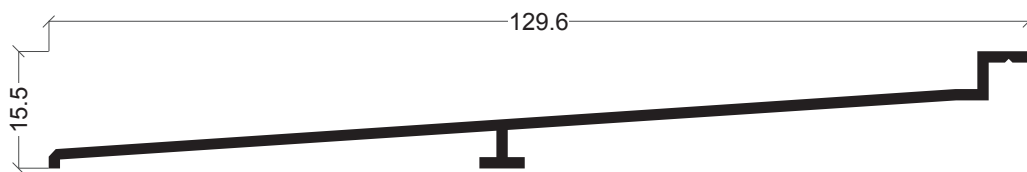
AZ-80
Soleira condensação



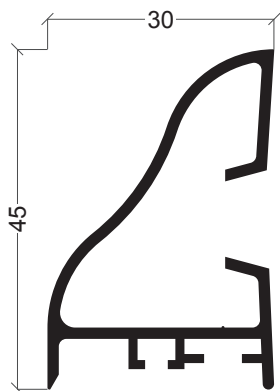
AZ-23
Pingadeira 60 mm



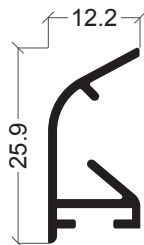
AZ-30
Pingadeira



AZ-24
Pingadeira



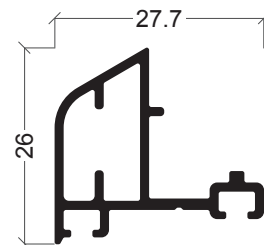
AZ-70
Pingadeira



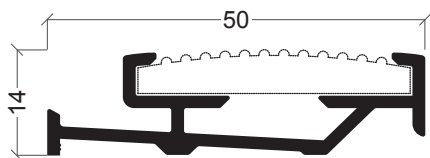
AZ-60
Pingadeira



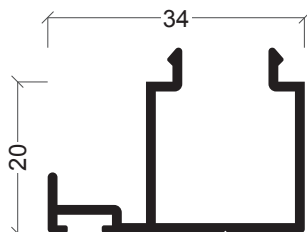
AZ-61
Clip pingadeira



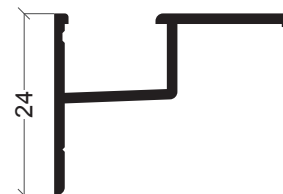
AZ-79
Pingadeira



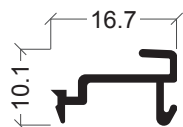
AZ-69
Remate inferior porta



AZ-59
Bite de remate



Y-20
Recolha de águas condensação

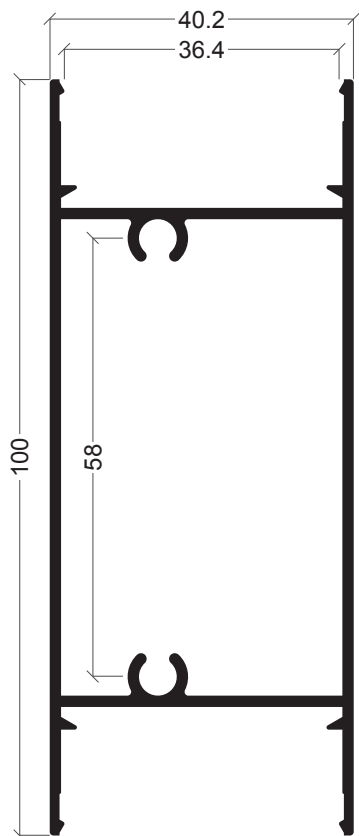


AX-33
Mola bite

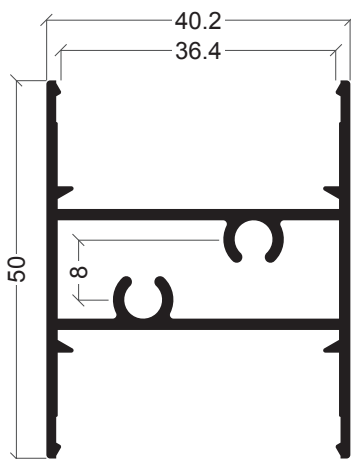


AX-19
Vareta

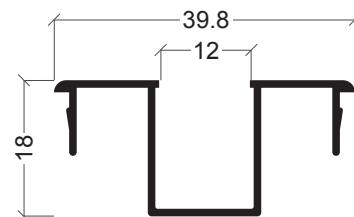
PORTADAS



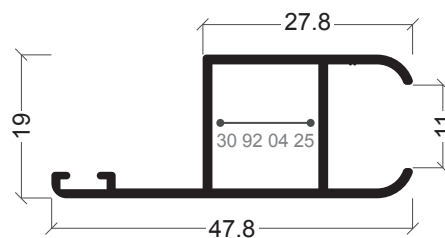
AZ-37
Travessa



AZ-47
Travessa

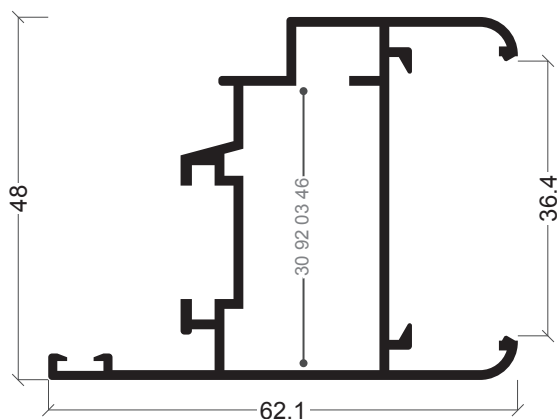


AZ-38
Remate lâmina

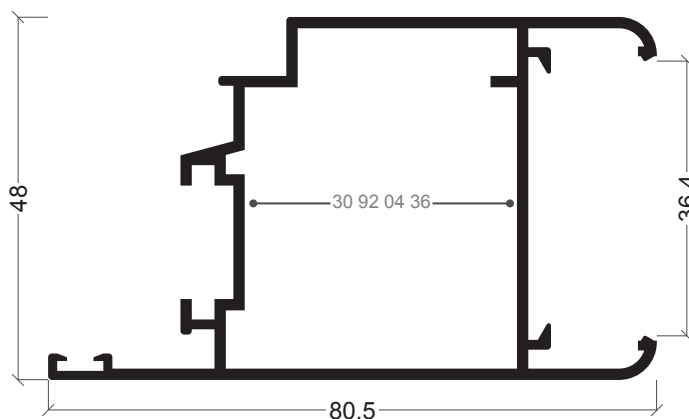


AZ-22
Aro móvel portada interior

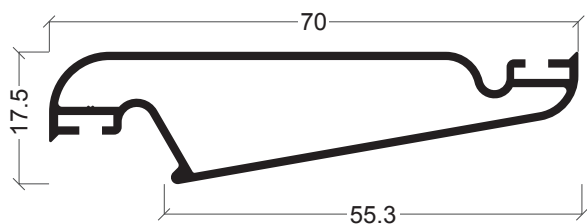
220



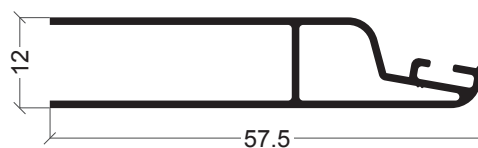
AZ-35
Aro móvel



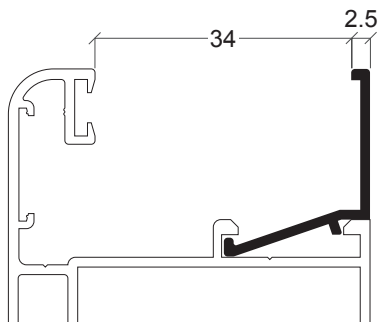
AZ-36
Aro móvel



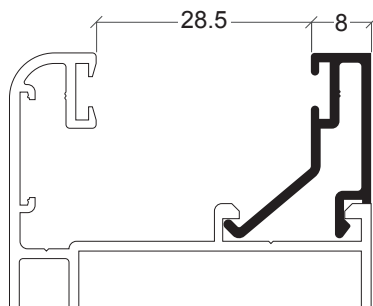
Z-53
Lâmina móvel



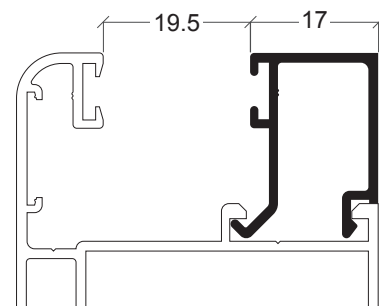
Z-54
Meia lâmina



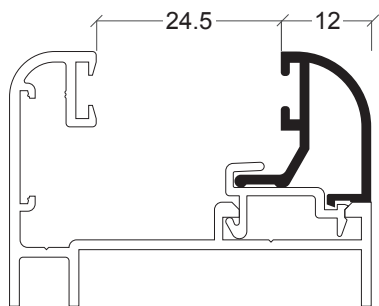
AX-69



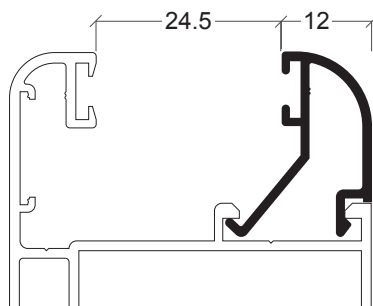
AX-74



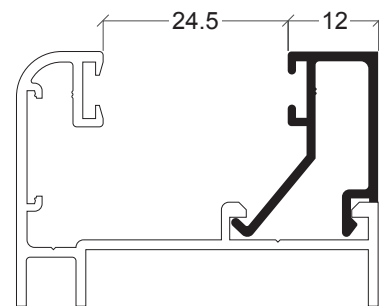
AX-46



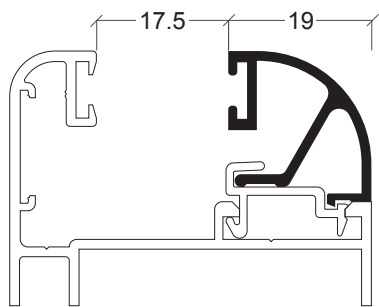
AX-37



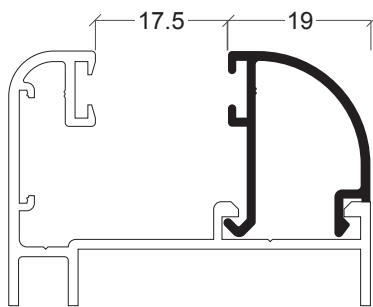
AZ-08



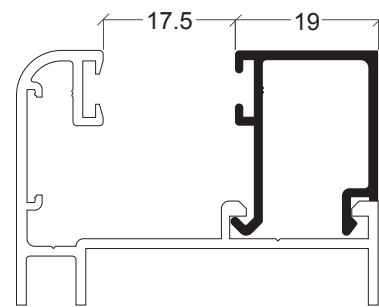
AX-36



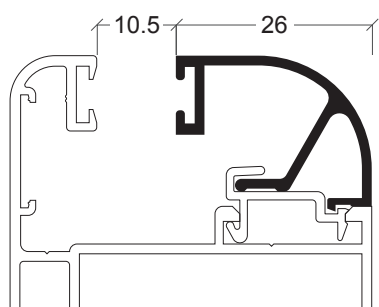
AX-30



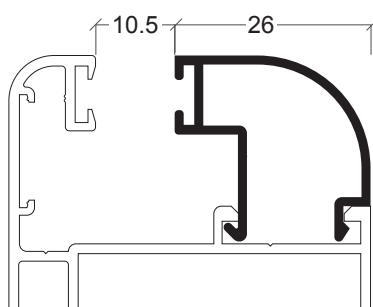
AZ-07



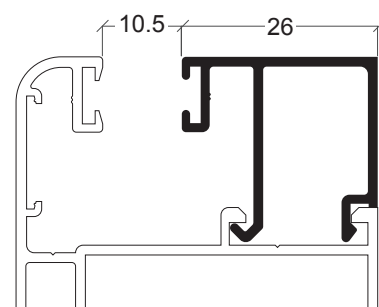
AX-35



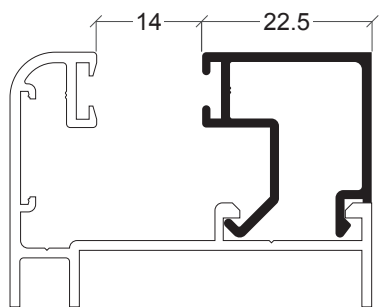
AX-29



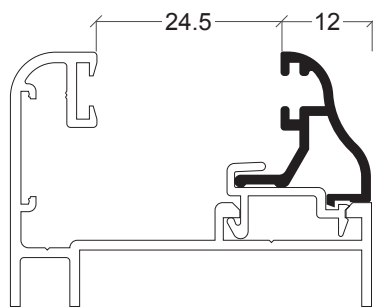
AZ-06



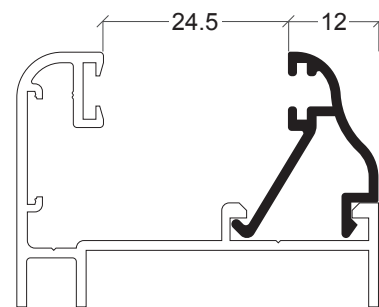
AX-31



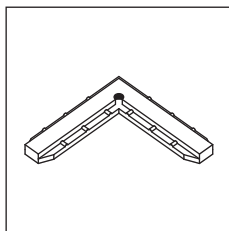
AX-78



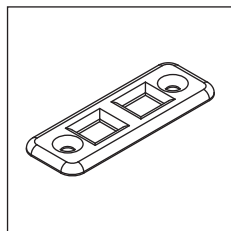
AX-72



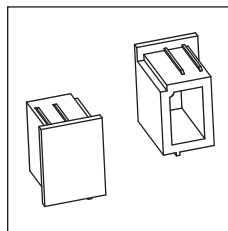
AX-73



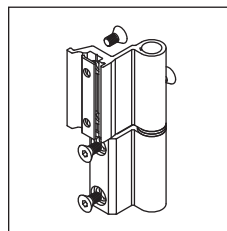
30 21 20 07
Esquadro alinhamento



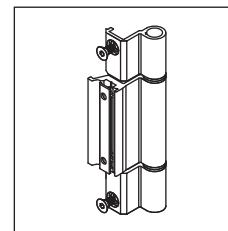
30 24 30 75
Contra-fecho duplo inferior inox



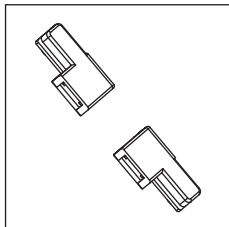
30 91 21 20
Jogo topos condensação para Y-20



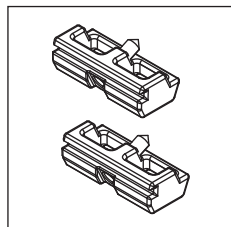
30 92 00 20/21
Dobradiça C.E. branco/preto



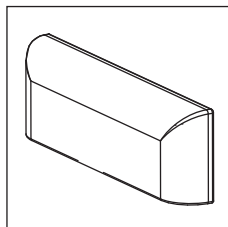
30 92 00 26/27/28
Dobradiça três nós (bruto/branco/preto)



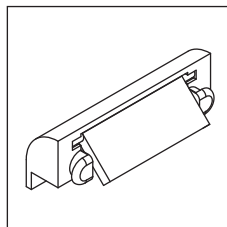
30 92 00 30
Transmissão barra cremone



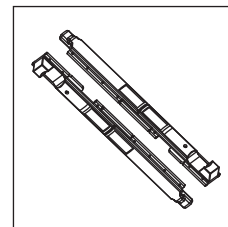
30 92 00 50
Contra-fecho



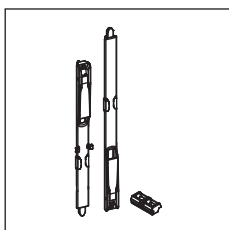
30 92 01 00/01
Goteira preto/branco



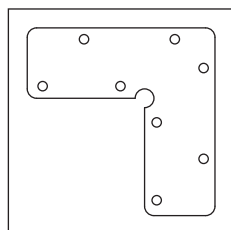
30 92 01 02/03
Goteira preto/branco



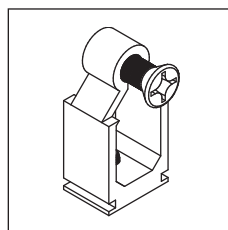
30 92 01 20
Jogo fecho C.E.



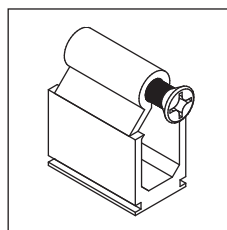
30 92 01 21
Jogo fecho C.E. Zamack



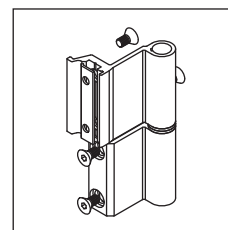
30 92 01 35
Esquadro alinhamento aro móvel



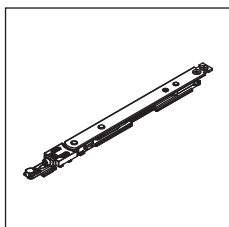
30 92 01 40
União topos janela



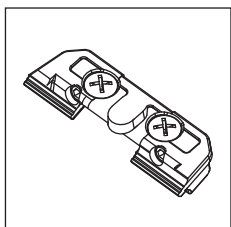
30 92 01 50
União topos porta



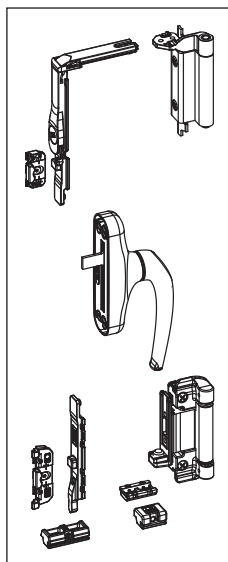
30 92 01 70/80
Dobradiça 3 folhas branco/preto



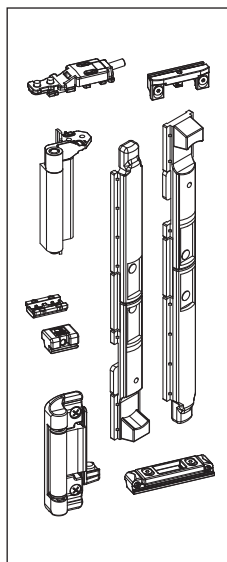
30 92 02 10/11/12
Compasso oscilo 300/400/500



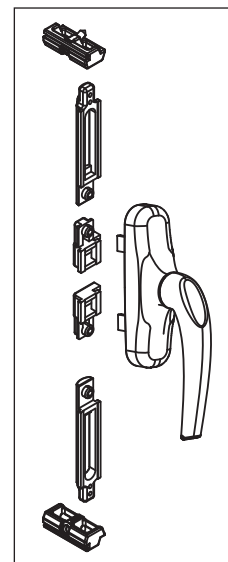
30 92 02 15
Fecho para micro-ventilação



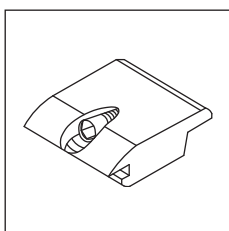
30 92 02 20/21
Kit oscilo-batente branco/preto



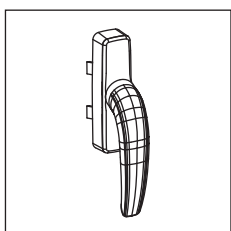
30 92 02 24/25
Kit 2ª folha oscilo-batente branco/preto



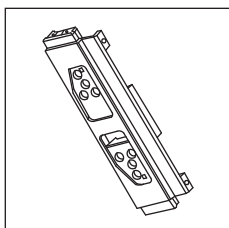
30 92 03 10/11
Kit cremone branco/preto



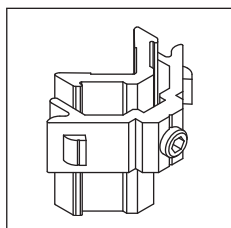
30 92 02 60
Apoyo da folha



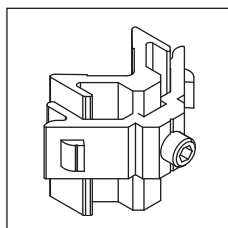
30 92 03 20/21
Cremone abertura exterior branco/preto



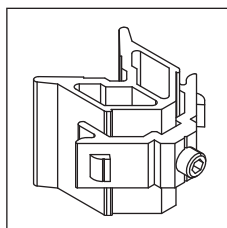
30 92 03 30
Jogo transmissão abertura exterior



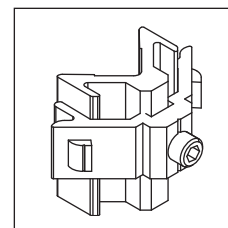
30 92 03 40
Esquadro janela



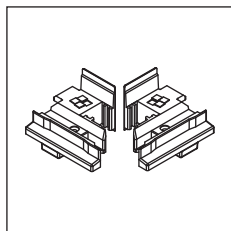
30 92 03 42
Esquadro AZ-32



30 92 03 45
Esquadro AZ-15

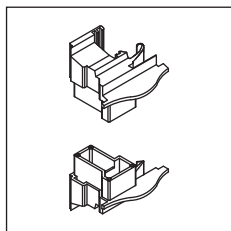


30 92 03 46
Esquadro AZ-35



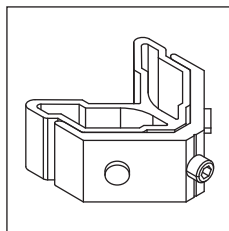
30 92 03 51

Jogo topos inversor
AZ-4



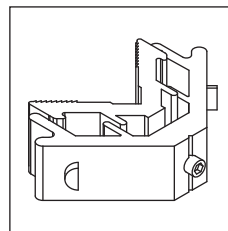
30 92 03 55

Jogo topos inversor
AZ-65



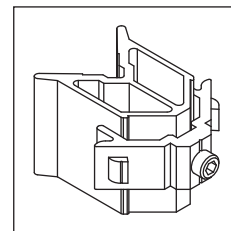
30 92 04 10

Esquadro AZ-18



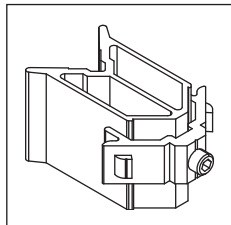
30 92 04 25

Esquadro AZ-22



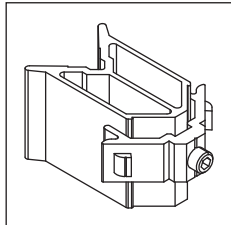
30 92 04 30

Esquadro porta



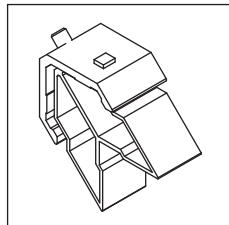
30 92 04 35

Esquadro AZ-14



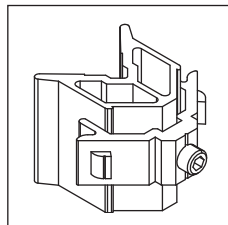
30 92 04 36

Esquadro AZ-36



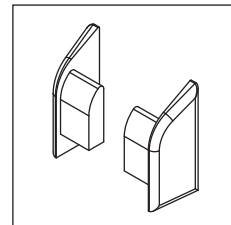
30 92 04 37

Esquadro AZ-53/72



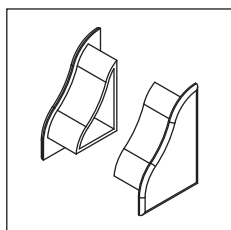
30 92 04 42

Esquadro aro porta AZ
tradição



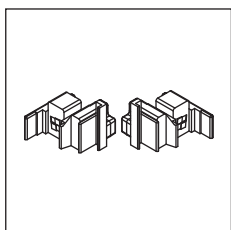
30 92 05 00

Jogo topos AZ-60



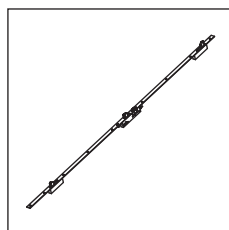
30 92 05 01

Jogo topos AZ-70



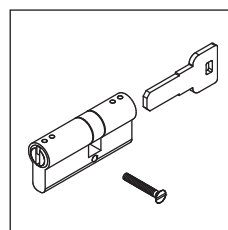
30 92 05 05

Jogo topos AZ-75



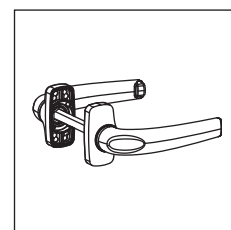
30 92 05 10

Fechadura 3 pontos



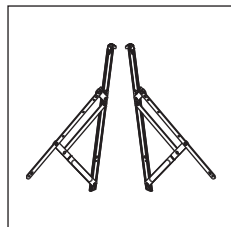
30 92 05 40

Canhão fechadura



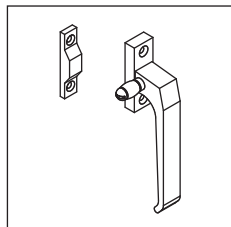
30 92 05 60/61

Puxador duplo branco/
preto



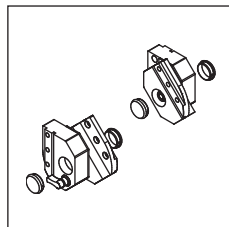
30 92 06 00

Compasso projectante
deslizante



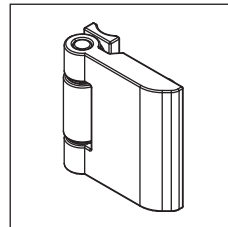
30 92 06 10/11

Cremona de lingueta
branco/preto



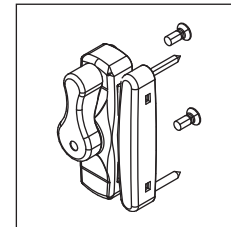
30 92 07 10/11

Jogo pivotante preto/
branco (60kg)



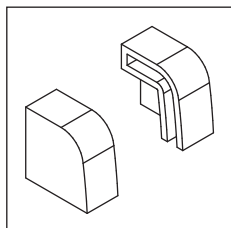
30 92 08 20/21

Dobradiça AZ-22 branco/
preto



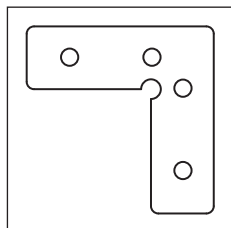
30 92 08 30/31

Fecho veda luz branco/
preto



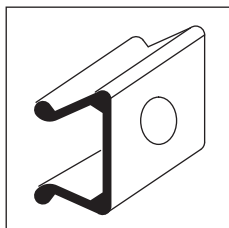
30 96 00 12

Jogo topos condensação
soleira



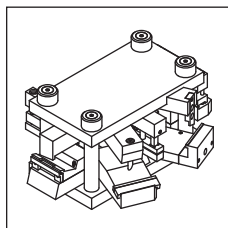
30 96 00 22

Esquadro alinhamento
especial



31 03 40 00





















Mola para AZ-60



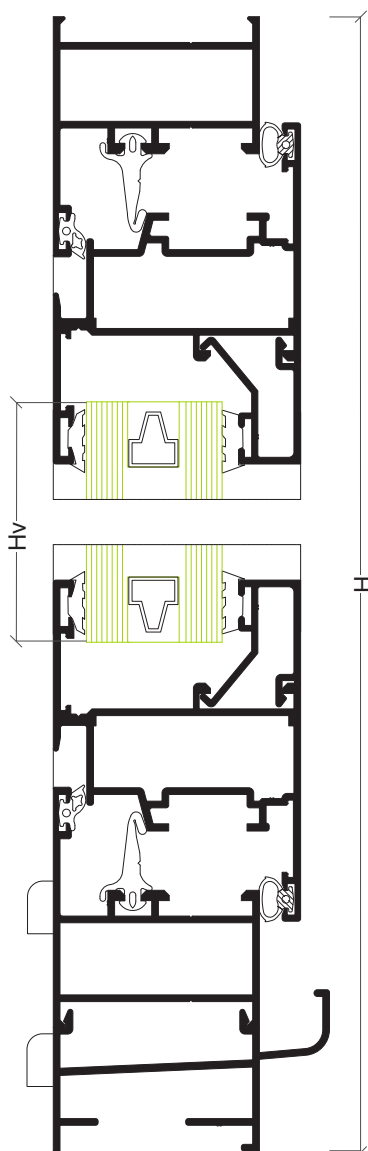
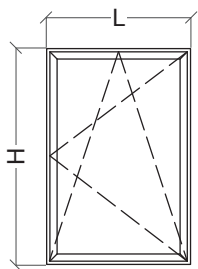
33 96 79 99

Cunho C.E.





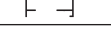
Porta-lâminas para caixa de 36 mm					
Referência	Nº de lâminas	Altura mínima de corte (mm)	Altura nominal (mm)	Altura janela (mínimo)	Altura janela (máximo)
30 92 09 40	6	400	460	570	630
30 92 09 41	7	460	520	630	690
30 92 09 42	8	520	580	690	750
30 92 09 43	9	580	640	750	810
30 92 09 44	10	640	700	810	870
30 92 09 45	11	700	760	870	930
30 92 09 46	12	760	820	930	990
30 92 09 47	13	820	880	990	1050
30 92 09 48	14	880	940	1050	1110
30 92 09 49	15	940	1000	1110	1170
30 92 09 50	16	1000	1060	1170	1230
30 92 09 51	17	1060	1120	1230	1290
30 92 09 52	18	1120	1180	1290	1350
30 92 09 53	19	1180	1240	1350	1410
30 92 09 54	20	1240	1300	1410	1470
30 92 09 55	21	1300	1360	1470	1530
30 92 09 56	22	1360	1420	1530	1590
30 92 09 57	23	1420	1480	1590	1650
30 92 09 58	24	1480	1540	1650	1710
30 92 09 59	25	1540	1600	1710	1770

Referência	Desenho	Descrição
30 00 95 15		Junta vedação inferior curta AZ-70/79
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 92 04 70		Espuma isolante
30 93 00 50		Junta central
30 93 00 60		Vedante exterior de vidro (opcional)
30 93 00 62		Junta exterior plana
30 93 00 65		Junta interior para vidro 5 mm
30 93 00 66		Junta interior para vidro 4 mm
30 93 00 67		Junta interior para vidro 2 mm
30 93 00 68		Junta interior para vidro 6/7 mm
30 93 00 69		Junta interior para vidro 8/9 mm
30 93 00 70		Vedante interior de vidro (opcional)
30 93 00 81		Junta vedação inferior A1-18
30 93 00 82		Junta vedação inferior AZ-70/79
30 93 00 90		Junta exterior
30 93 01 20		Junta interior
30 93 01 40		Junta lâminas
30 94 01 46		Junta para veda-luz AZ-22
30 95 00 10		Pelúcia 7x9 mm
30 95 00 40		Pelúcia 7x5.5 mm

Janela 1 folha abrir e oscilo-batente



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-03	Aro fixo		2	L
				2	H-24 mm
	AZ-67	Aro móvel		2	L-41 mm
				2	H-65 mm
	---	Bíte		2	L-133.5 mm
				2	H-197.5 mm
	AX-19	Vareta		2	Apro. H/2 mm
	AZ-19	Soleira de condensação		1	L

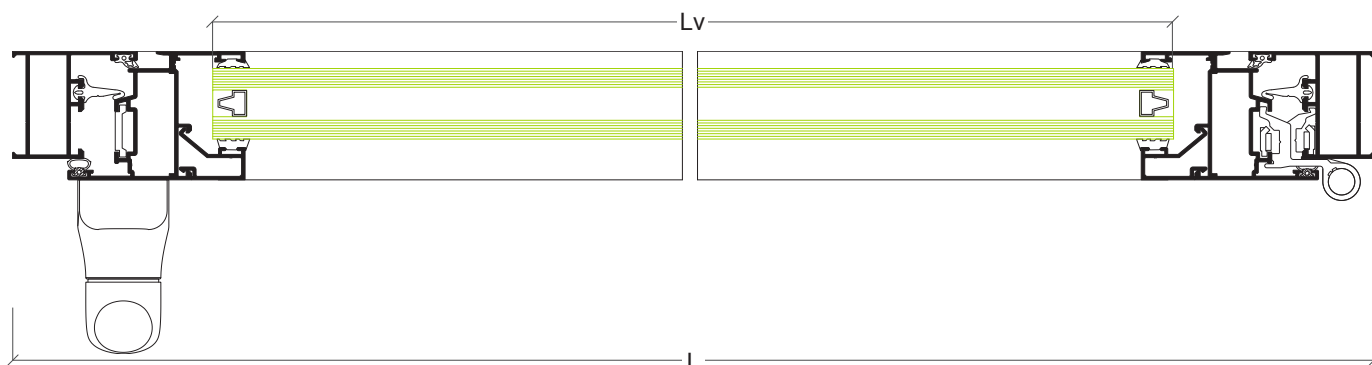
Acessórios e Juntas

Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	2	---
30 92 01 00	Goteiras	2	2
30 92 01 35	Esquadro alinhamento aro móvel	4	4
30 92 02 (xx)	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	---
30 92 03 10	Kit cremone	1	---
30 92 03 40	Esquadro janela	8	8
30 96 00 12	Jogo topos condensação	1	1
30 93 00 50	Junta central	2L+2H	
30 93 00 90	Junta exterior	2L+2H	
30 93 01 20	Junta interior	2L+2H	
---	Junta exterior vidro	2L+2H	
---	Junta interior vidro	2L+2H	

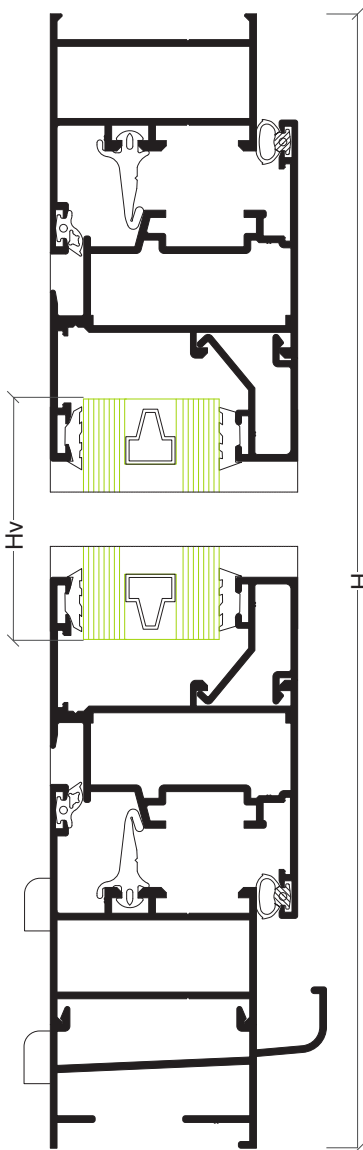
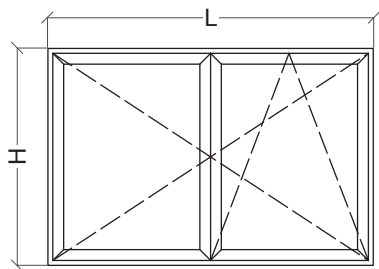
225

Vidro

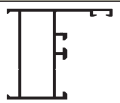




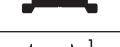

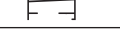

Hv = H-171 mm	Lv = L-147 mm
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Janela 2 folhas abrir e oscilo-batente



Perfis

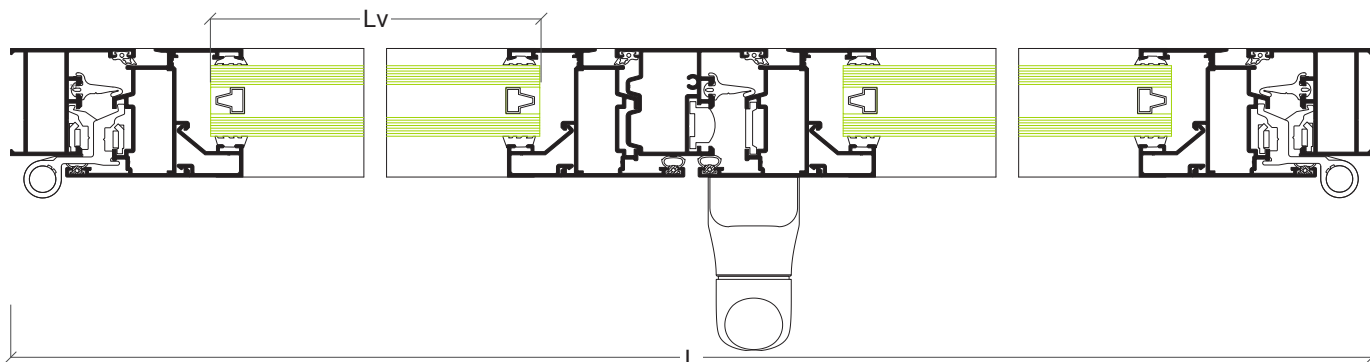
Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-03	Aro fixo		2	L
				2	H-24 mm
	AZ-67	Aro móvel		4	L/2-23 mm
				4	H-65 mm
	AZ-04	Inversor		1	H-133 mm
	---	Bite		4	L/2-115.5 mm
				4	H-197.5 mm
	AX-19	Vareta		2	Apro. H/2 mm
	AZ-19	Soleira de condensação		1	L

Acessórios e Juntas

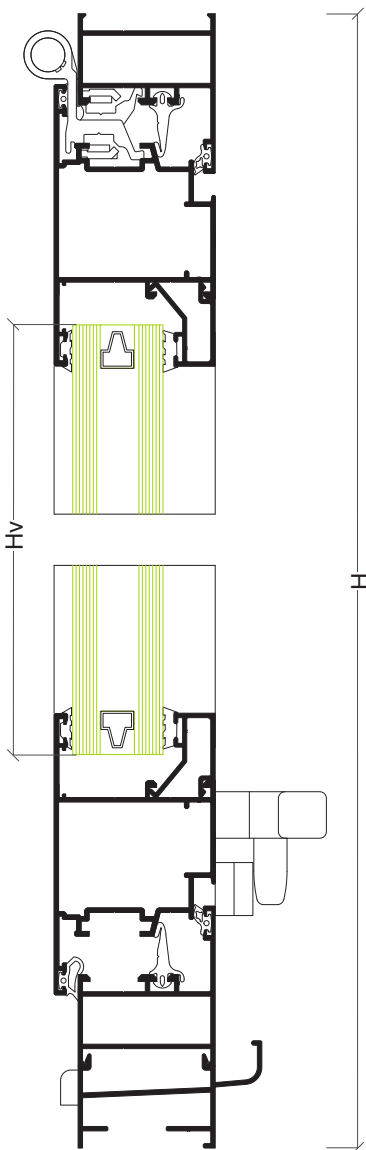
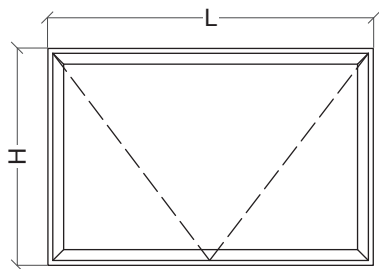
Referência	Descrição	Quantidade	
		Abrir	Oscilo-batente
30 92 00 20	Dobradiças C.E.	4	---
30 92 01 00	Goteiras	2	2
30 92 01 20	Jogo fecho C.E.	1	---
30 92 01 35	Esquadro alinhamento aro móvel	8	8
30 92 02 (xx)	Compasso O.B.	---	1
30 92 02 20	Kit oscilo-batente	---	1
30 92 02 24	Kit 2ª folha oscilo-batente	---	1
30 92 02 60	Apoio da folha	1	1
30 92 03 10	Kit cremone	1	---
30 92 03 40	Esquadro janela	12	12
30 92 03 51	Jogo topos inversor	1	1
30 96 00 12	Jogo topos condensação	1	1
30 93 00 50	Junta central	2L+3H	
30 93 00 90	Junta exterior	2L+4H	
30 93 01 20	Junta interior	2L+4H	
---	Junta exterior vidro	2L+4H	
---	Junta interior vidro	2L+4H	

Vidro

Hv = H-171 mm	Lv = L/2-129 mm
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Janela 1 folha projectante



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-03	Aro fixo		2	L
				2	H-24 mm
	AZ-63	Aro móvel		2	L-41 mm
				2	H-65 mm
	---	Bite		2	L-168.5 mm
				2	H-192.5 mm
	AX-19	Vareta		2	Apro. H/2 mm
	AZ-19	Soleira de condensação		1	L

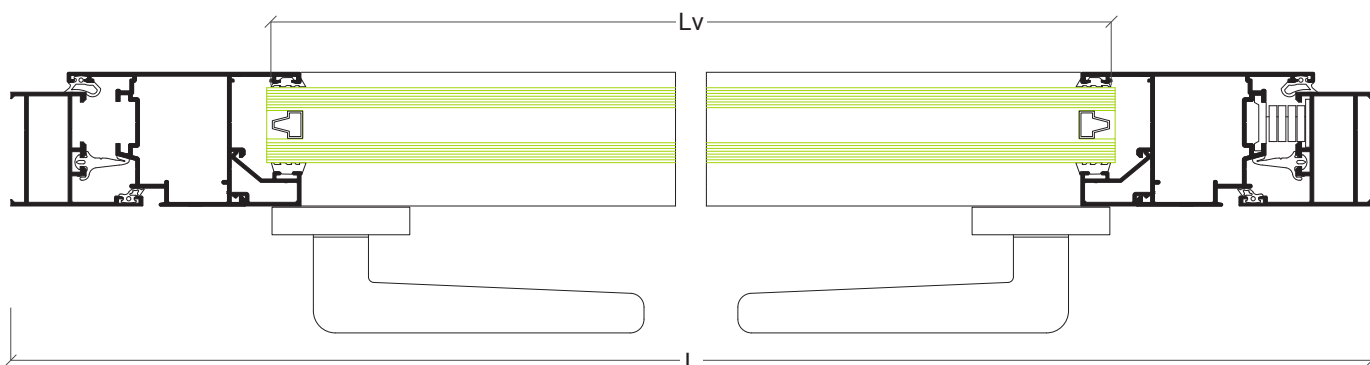
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	2
30 92 01 00	Goteiras	2
30 92 03 40	Esquadro janela	4
30 92 04 30	Esquadro móvel	4
30 92 04 85	Jogo compassos projectante	1
30 92 06 10	Cremona de lingueta	2
30 96 00 12	Jogo topos condensação	1
30 92 01 35	Esquadro alinhamento	8
30 93 00 90	Junta interior	2L+2H
30 93 01 30	Junta exterior	2L+2H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

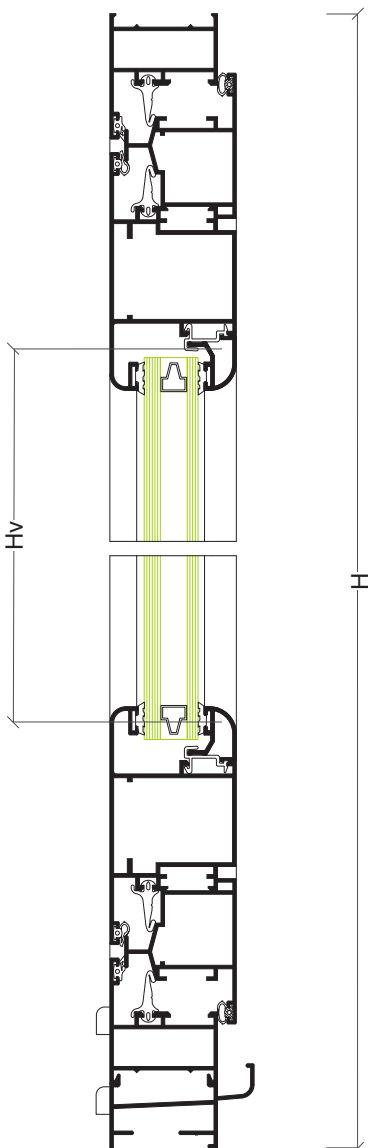
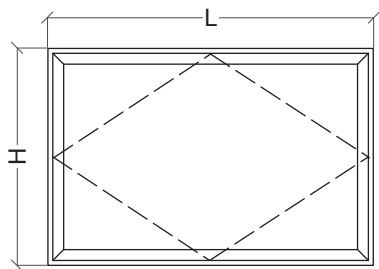
227

Vidro

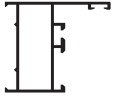


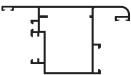


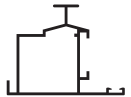


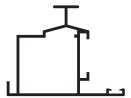








Hv = H-206 mm	Lv = L-182 mm
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Janela pivotante horizontal



Perfis

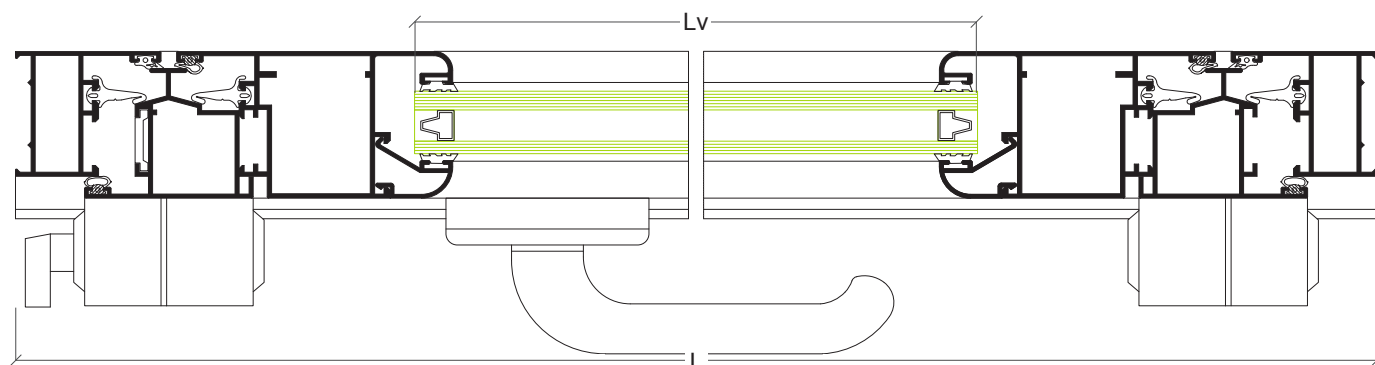
Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-16	Aro fixo pivotante		2	L
				2	H-24 mm
	AZ-17	Aro móvel pivotante		2	L-104 mm
				2	H-128 mm
	AZ-18	Inversor pivotante superior		1	L-45 mm
				2	H/2-12 mm
	AZ-18	Inversor pivotante inferior		1	L-45 mm
				2	H/2+12 mm
	---	Bite redondo		2	L-240 mm
	---	Bite redondo clip		2	H-255 mm
	AX-33	Mola bite		A cada 300 mm	80 mm
	AZ-19	Soleira de condensação		1	L

Acessórios e Juntas

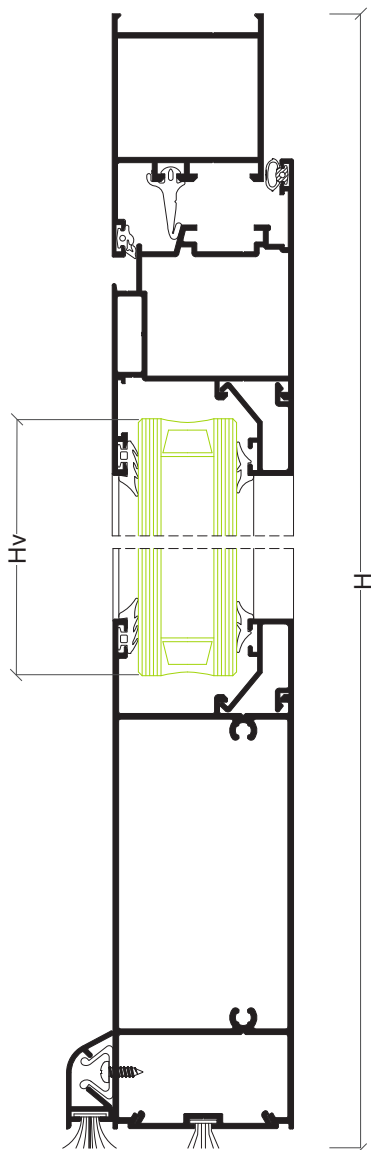
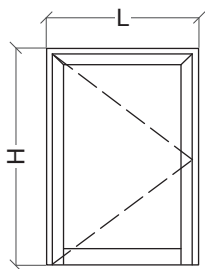
Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 03 40	Esquadro janela	4
30 92 04 10	Esquadro AZ-18	4
30 92 04 30	Esquadro porta	4
30 92 07 10	Jogo pivotante	1
30 96 00 12	Jogo topos condensação	1
30 92 06 11	Cremona de lingueta	2
30 93 00 50	Junta central	4L+4H
30 93 00 90	Junta exterior	2L+2H
30 93 01 20	Junta interior	4L+4H
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

Vidro

Hv = H-278 mm	Lv = L-254 mm
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Porta 1 folha



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-11	Aro fixo		1	L
				2	H
	AZ-62	Aro móvel		1	L-77 mm
				2	H-44 mm
	AZ-77	Travessa		1	L-196 mm
	A1-18	Remate		1	L-204.5 mm
	---	Bite		2	L-204.5 mm
				2	H-263 mm
	AZ-60	Pingadeira		1	L-149 mm

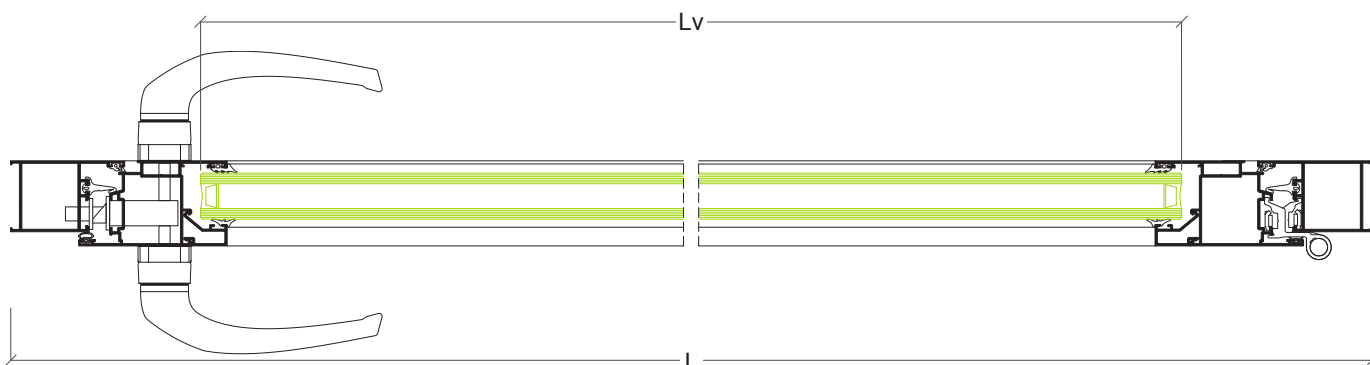
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	3
30 92 01 00	Goteiras	2
30 92 04 30	Esquadro porta	4
30 92 05 10	Fechadura 3 pontos	1
30 92 05 40	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 93 00 50	Junta central	1L-2H
30 93 00 90	Junta exterior	1L-2H
30 93 01 20	Junta interior	1L-2H
30 95 00 10	Pelúcia 7x9 mm	L
31 03 40 00	Mola	A cada 150 mm
30 92 05 00	Jogo topos	1
---	Junta exterior vidro	2L+2H
---	Junta interior vidro	2L+2H

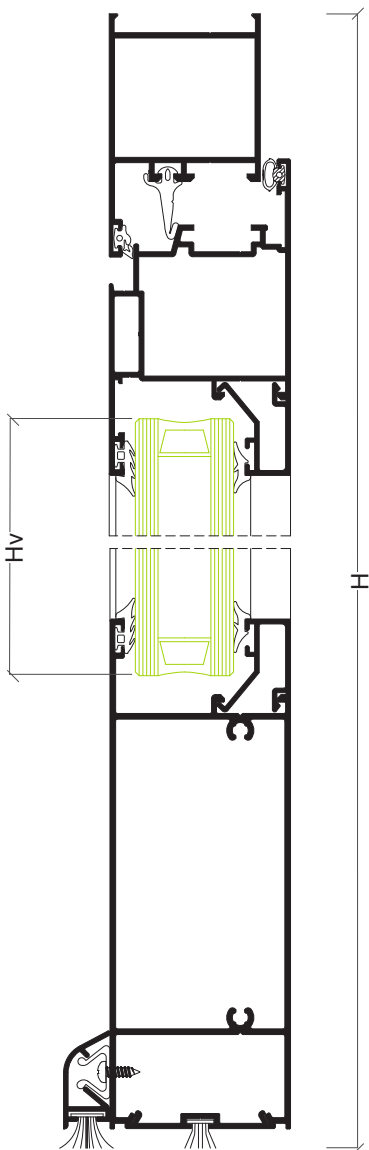
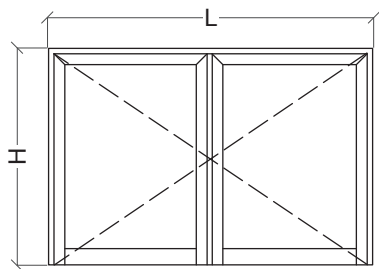
229

Vidro


Hv = H-237 mm	Lv = L-218 mm
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Porta 2 folhas



Perfis

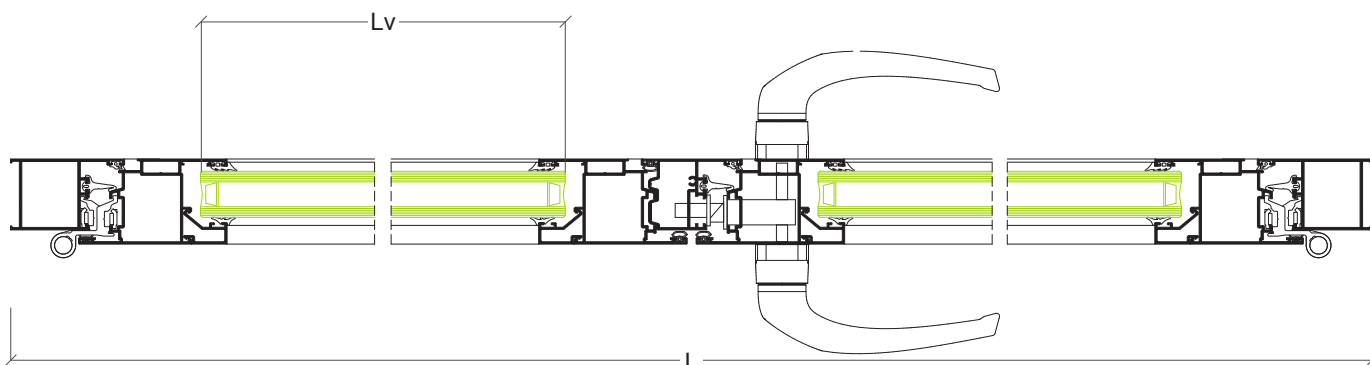
Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-11	Aro fixo		1	L
				2	H
	AZ-62	Aro móvel		2	L/2-41 mm
				4	H-44 mm
	AZ-04	Inversor		1	H-78 mm
	AZ-77	Travessa		2	L/2-160 mm
	A1-18	Bite remate		2	L/2-168 mm
	---	Bite		4	L/2-168 mm
				4	H-263 mm
	AZ-60	Pingadeira		1	L/2-113 mm
				1	L/2-40 mm

Acessórios e Juntas

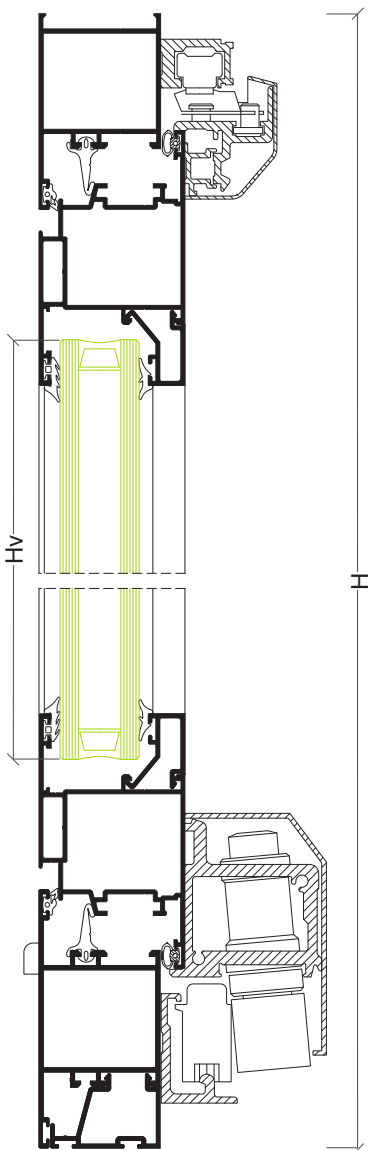
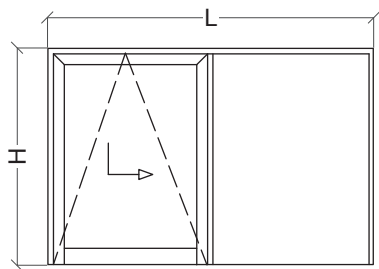
Referência	Descrição	Quantidade
30 92 00 20	Dobradiças C.E.	6
31 03 40 00	Mola para pingadeira	a cada 150 mm
30 92 01 20	Jogo fecho C.E.	1
30 92 03 51	Jogo topos inversor	1
30 92 04 30	Esquadro porta	6
30 92 05 10	Fechadura 3 pontos	1
30 92 05 40	Canhão fechadura	1
30 92 05 60	Puxador duplo	1
30 93 00 50	Junta central	1L+3H
30 93 00 90	Junta exterior	1L+4H
30 93 01 20	Junta interior	1L+4H
30 95 00 10	Pelúcia 7x9 mm	L
---	Junta exterior vidro	2L+4H
---	Junta interior vidro	2L+4H
30 92 05 00	Jogo topos	1

Vidro





















Hv = H-237 mm	Lv = L/2-183 mm
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Porta oscilo-paralela com fixo lateral



Perfis

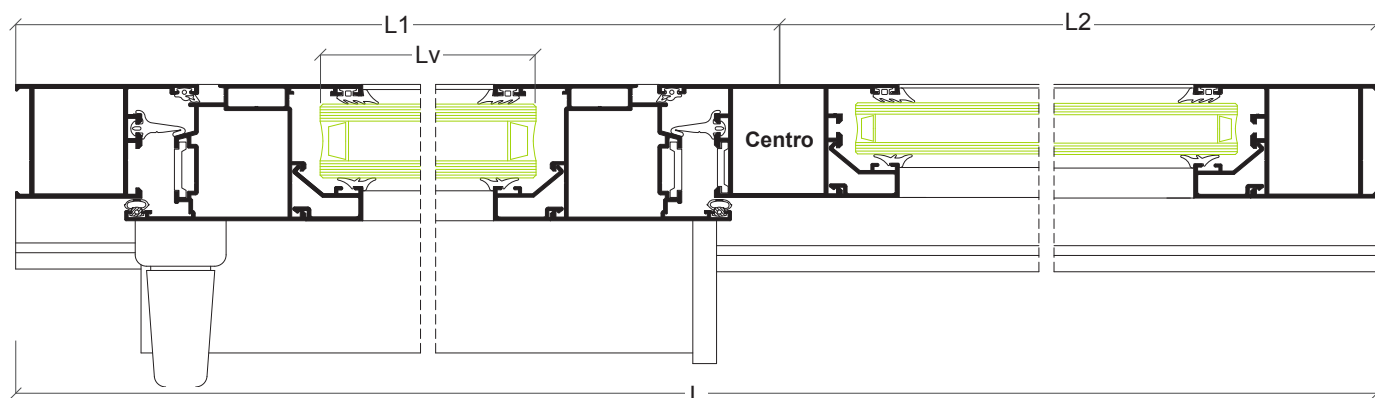
Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-11	Aro fixo		1	L
				1	H
	AZ-62	Aro móvel		2	L1-55 mm
				2	H-97.5 mm
	AZ-09	Travessa		1	L-80 mm
				1	H-100.5 mm
	AX-15	Bite remate		1	L-89 mm
	---	Bite (folha)		2	L1-183 mm
				2	H-265.5 mm
	---	Bite (fixo)		2	L-87 mm
				2	H-129 mm
	AX-19	Vareta		2	Apro. L1 mm
				1+1	Apro. H+H/2 mm

Acessórios e Juntas

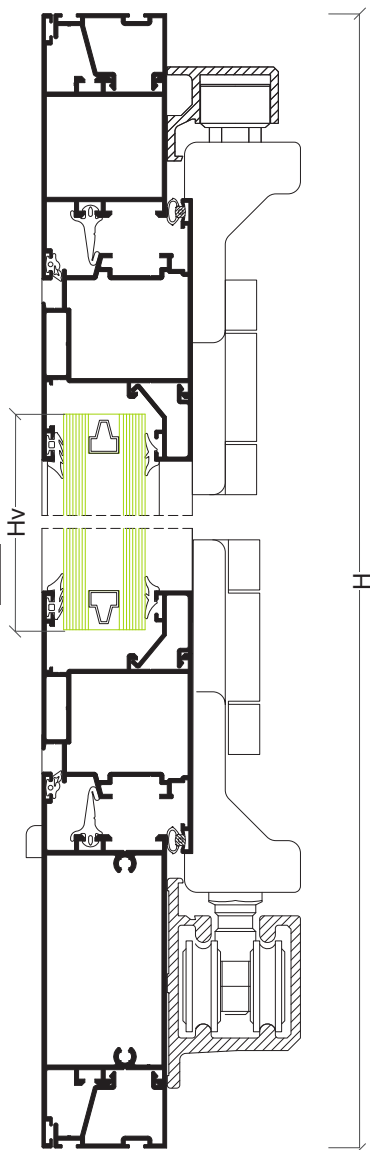
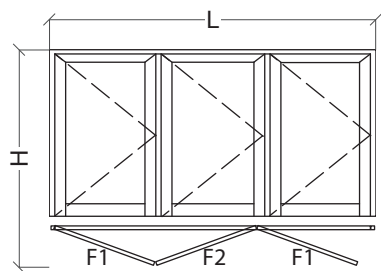
Referência	Descrição	Quantidade
30 92 01 00	Goteiras	4
30 92 01 50	União topos porta	2
30 92 04 30	Esquadro porta	8
---	Kit oscilo-paralela	1
30 92 01 35	Esquadro alinhamento	8
30 93 00 50	Junta central	L+2H
30 93 00 90	Junta exterior	L+2H
30 93 01 20	Junta interior	L+2H
---	Junta exterior vidro	2L+4H
---	Junta interior vidro	2L+4H

Vidro

Hv folha = H-239 mm	Lv folha = L1-196 mm	
Hv fixo = H-103 mm	Lv fixo = L2-81 mm	
Para vidros iguais $L1 = L/2+58$ mm		
	Mínimo	Máximo
Largura da folha	700 mm	1650 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 150 kg		



Porta 3 folhas harmónio



Perfis

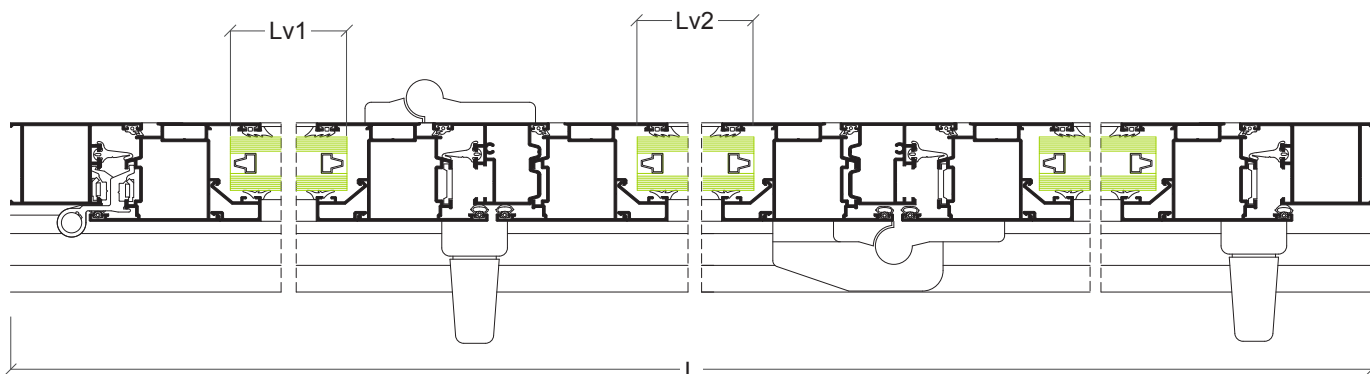
Desenho	Ref	Descrição	Corte	Quant	Medida
	AZ-11	Aro fixo		2	H
	AZ-09	Travessa		1	L-80 mm
	AZ-12	Travessa		1	L-80 mm
	AZ-62	Aro móvel		4	F1 consultar
				2	F2 consultar
	AZ-62	Aro móvel		6	Consultar
	---	Bite			F1 consultar
					F2 consultar
	AX-19	Vareta		1+1	H+H
	AZ-04	Inversor		3	consultar
	---	Bite			consultar
					consultar
	AX-15	Bite remate		2	L-89 mm

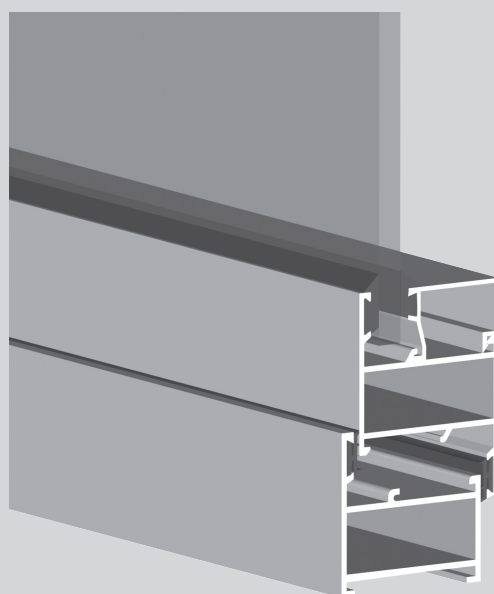
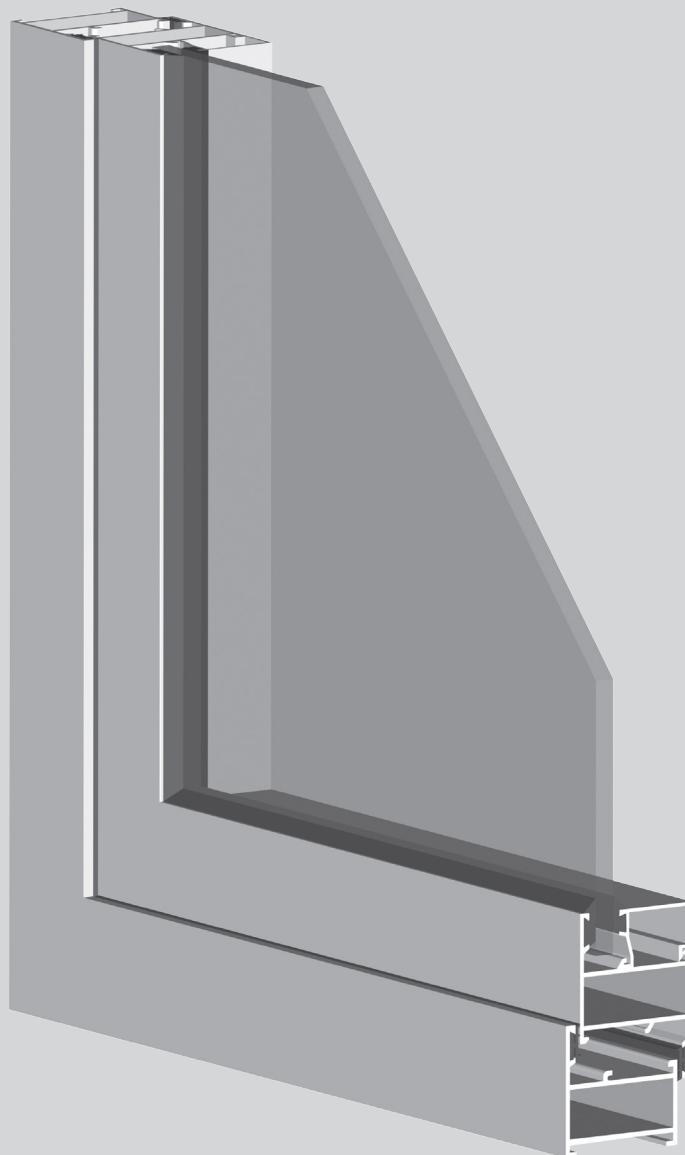
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 00 26	Dobradiças 3 nós	3
30 92 01 00	Goteiras	4
30 92 01 20	Jogo fecho C.E.	1
30 92 01 50	União topos porta	2
30 92 03 51	Jogo topos inversor	2
30 92 04 30	Esquadro porta	12
---	Kit harmónio (3+0)	1
30 92 01 35	Esquadro alinhamento	24
30 93 00 50	Junta central	2L+4H
30 93 00 90	Junta exterior	2L+6H
30 93 01 20	Junta interior	2L+6H
---	Junta exterior vidro	2L+6H
---	Junta interior vidro	2L+6H

Vidro

Vidro H1 = consultar	Vidro Lv1/Lv2 = consultar	
	Mínimo	Máximo
Largura da folha	600 mm	900 mm
Altura da folha	850 mm	2400 mm
Peso máximo por folha 80 kg		





**Sistema
A1/A6**

Sistema A1/A6

Sistema de batente tradicional - 40 mm

Características do sistema

Sistema de batente tradicional com dupla vedação (exterior, interior).

O sistema A1/A6 possibilita a execução de 2 versões de caixilharia:

1. linha recta;
2. linha oval;

Inclui também várias possibilidades de concepção de modelos do portadas com lâminas fixas ou orientáveis.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitectura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 1.4 mm para janelas e portas.

Aros fixos

Secção dos aros fixos de 40 mm;

Aros fixos com esquadro para montagem a meia esquadria.

Aros móveis

Secção dos aros móveis de 40 mm;

Enchimento para vidro simples ou duplo de 4 mm a 24 mm;

Aros móveis de linha recta ou oval sem bite;

Aros móveis com esquadro para montagem a meia esquadria.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 375 mm - 1700 mm (L); 410 mm - 2500 mm (H);

Peso máximo de 80 kg por folha para janelas de abrir;

Possibilidades de abertura: Fixo, batente interior 1 ou 2 folhas, exterior, basculante, projectante e pivotante;

Estanquidade assegurada através de juntas em PVC.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema A1/A6 tipologia janela:

1. Permeabilidade ao ar: Classe 2 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C3 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema A1/A6 tipologia porta:

1. Permeabilidade ao ar: Classe 2 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C1 (norma de ensaio EN 12211)

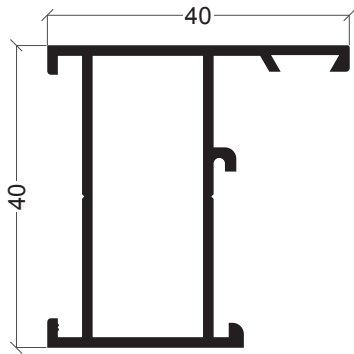
Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 1.50 m com vidro $U_g = 1.8 \text{ W/m}^2\text{K}$:

• $U_w = 4.14 \text{ W/m}^2\text{K}$

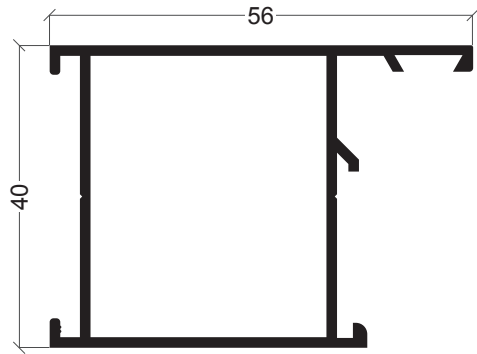
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/12/4:

• $R_w (C; C_{tr}) = 33 \text{ dB} (-1; -4)$

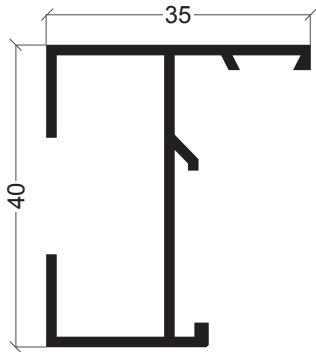
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



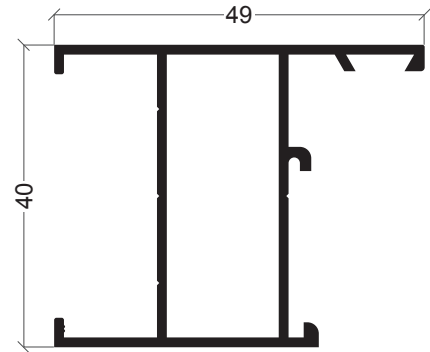
A1-03
Aro fixo



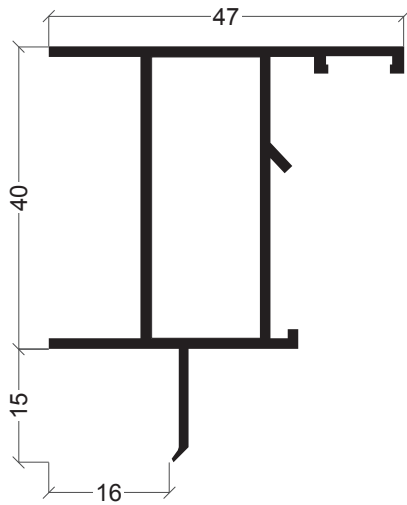
A1-08
Aro fixo



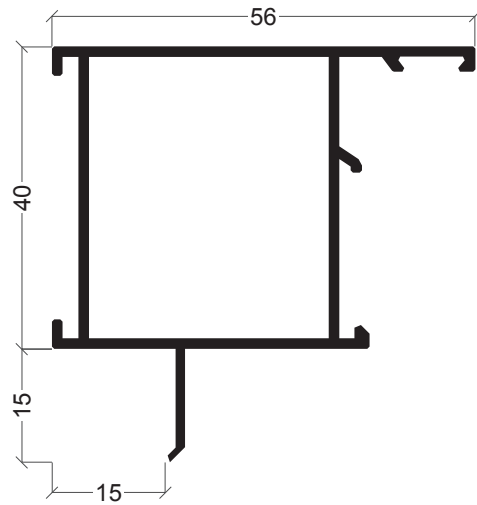
A1-52
Aro fixo



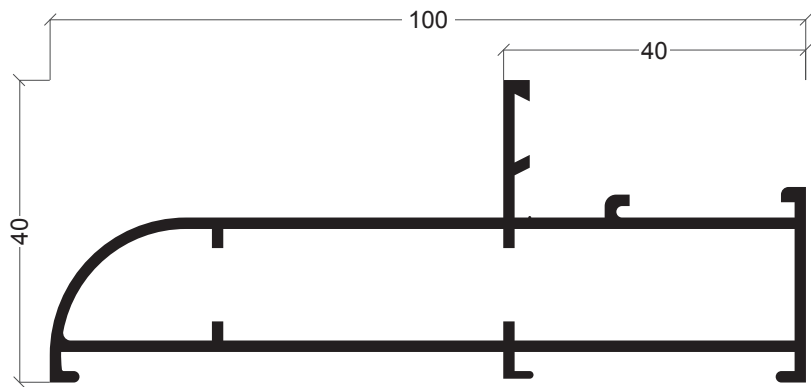
A1-76
Aro fixo/móvel



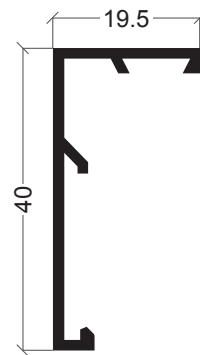
A1-51
Aro fixo para apainelado



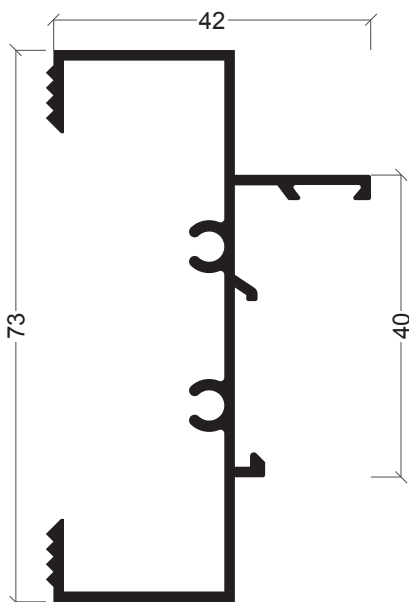
A1-61
Aro fixo para apainelado



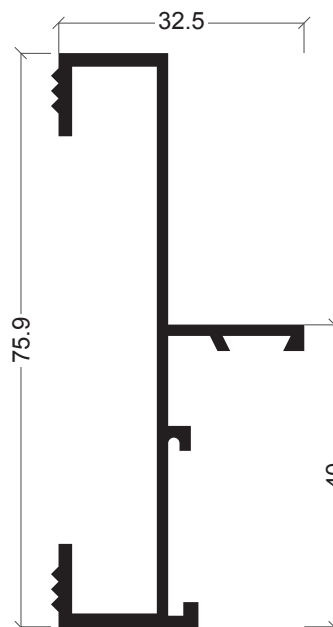
A1-73
Aro fixo



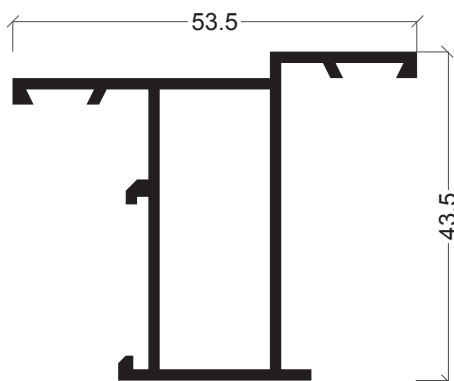
A1-33
Aro fixo



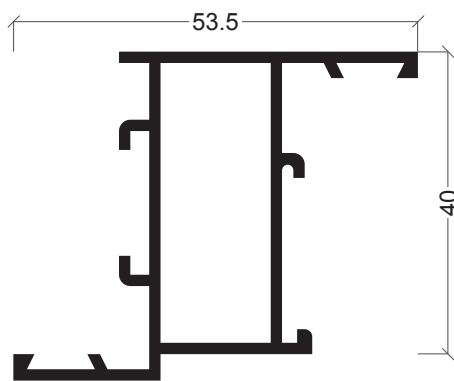
A1-22
União aros com fixo



A1-72
União aros com fixo

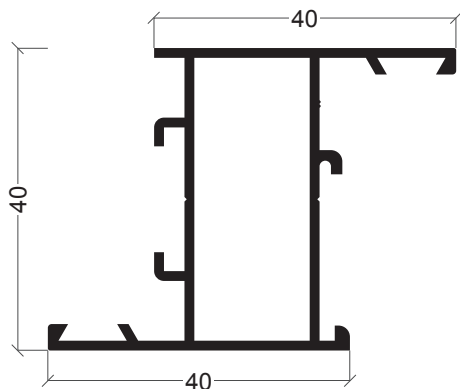


A1-04
Aro móvel/inversor

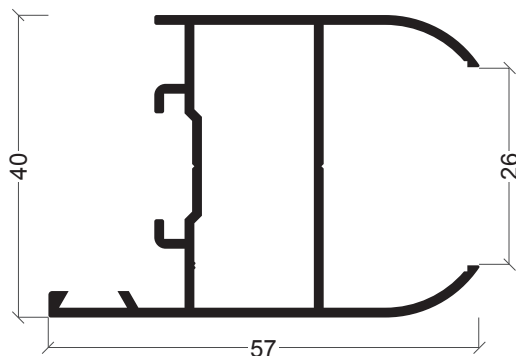


A1-05
Aro móvel/inversor

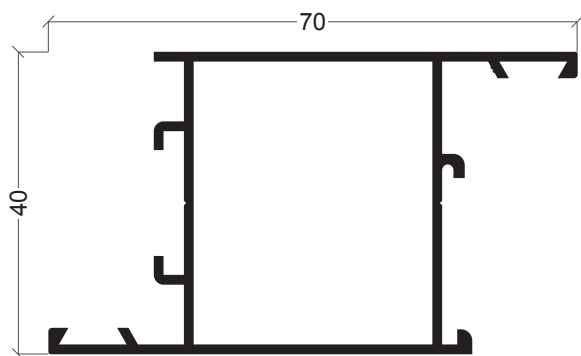
236



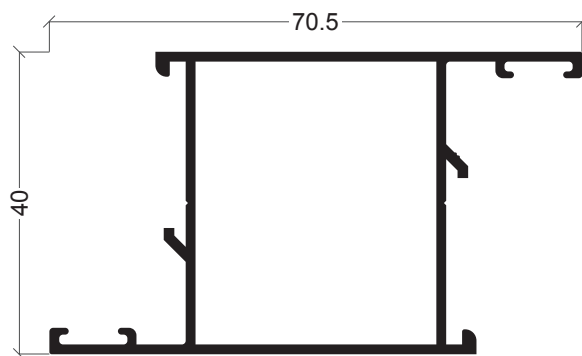
A1-02
Aro móvel



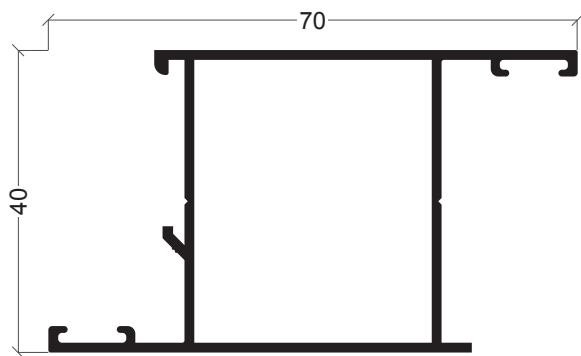
A1-42
Aro móvel



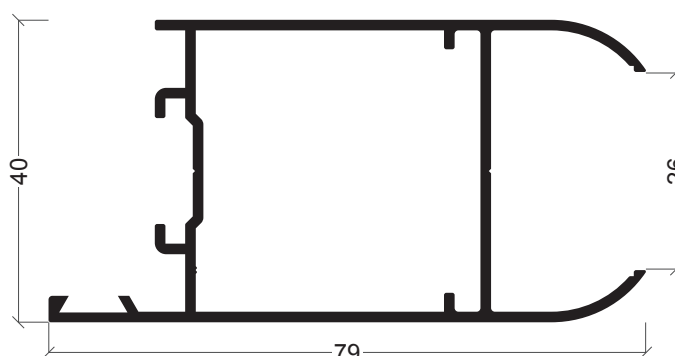
A1-07
Aro móvel



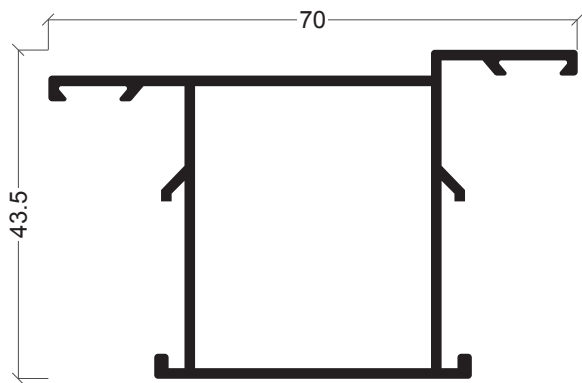
A1-60
Aro móvel



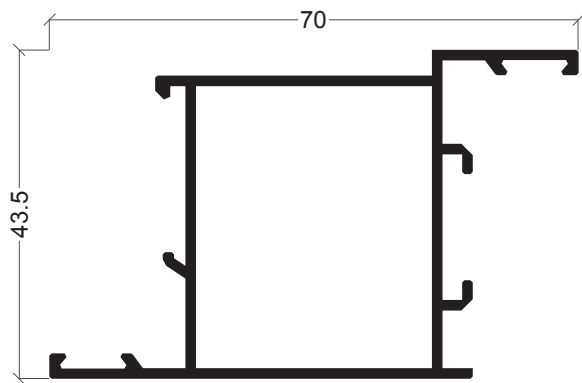
A1-68
Aro móvel



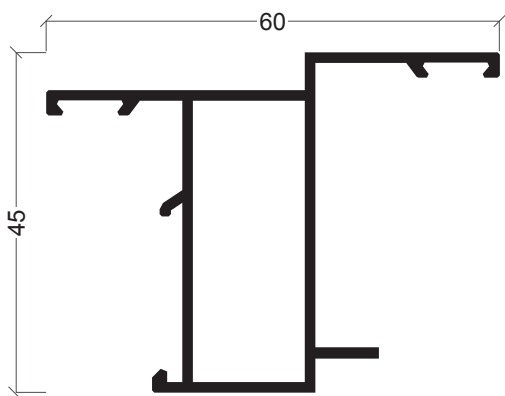
A1-58
Aro móvel



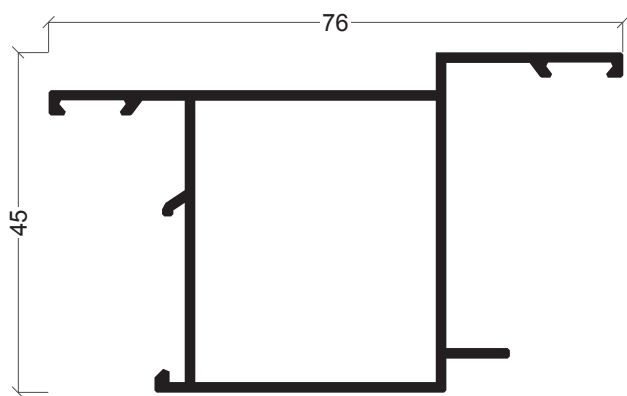
A1-09
Aro móvel/inversor



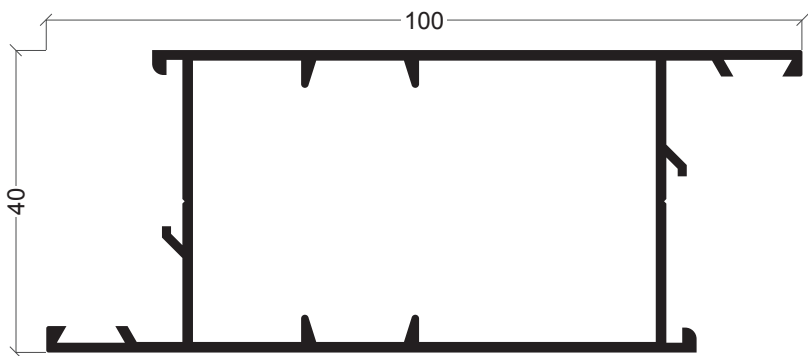
A1-10
Aro móvel/inversor



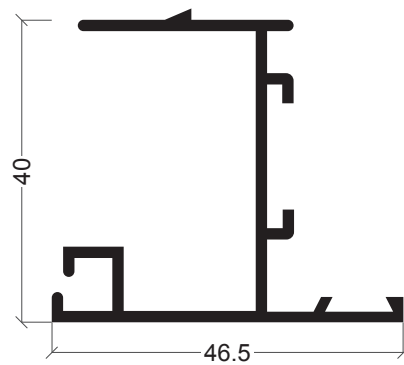
A1-24
Aro móvel/inversor



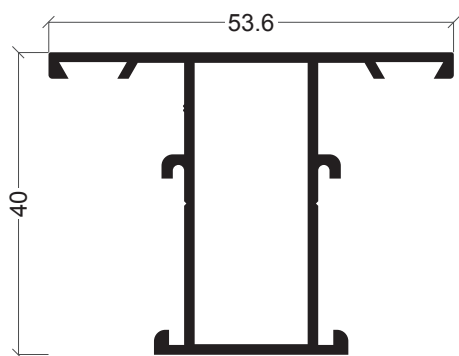
A1-29
Aro móvel/inversor



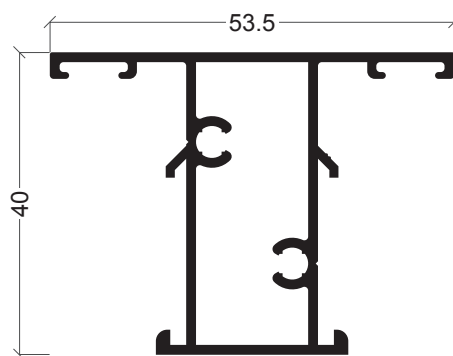
A1-66
Aro móvel



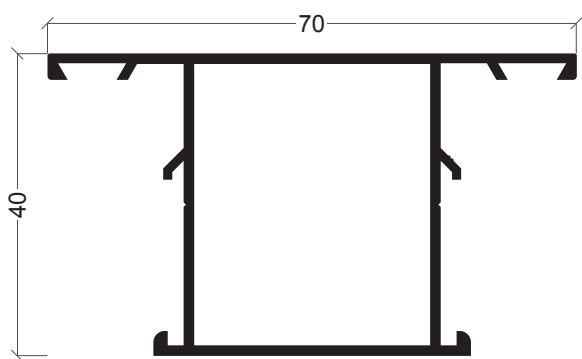
A1-47
Inversor



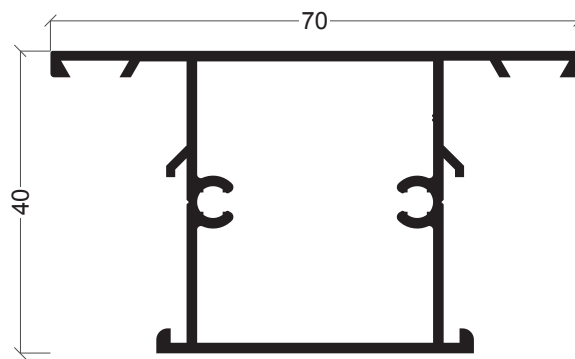
A1-01
Travessa



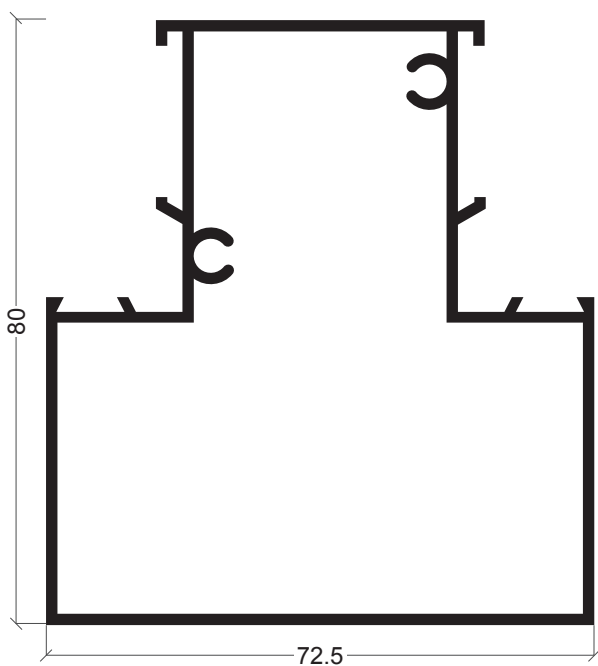
A1-34
Travessa



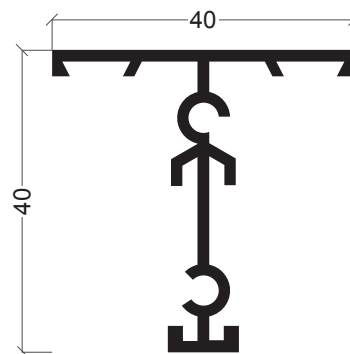
A1-06
Travessa



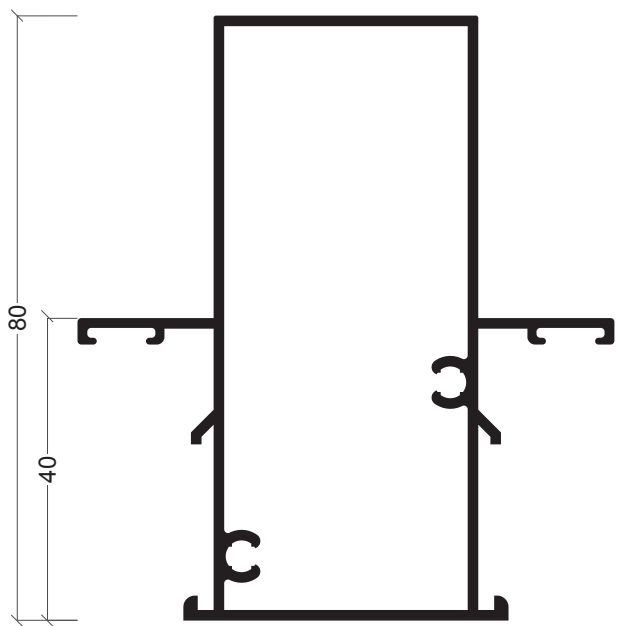
A1-25
Travessa



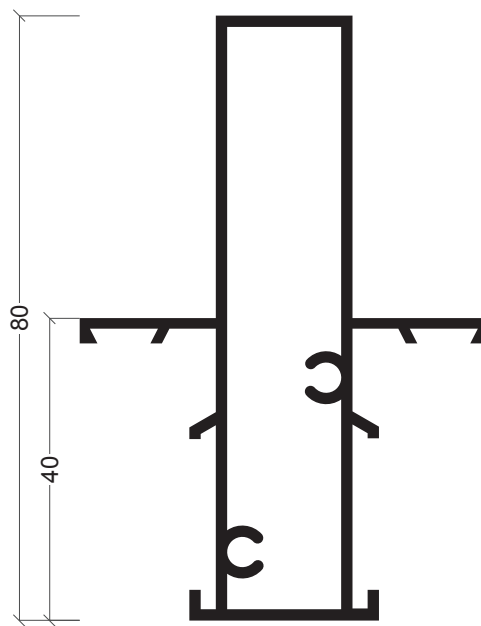
A1-62
Montante



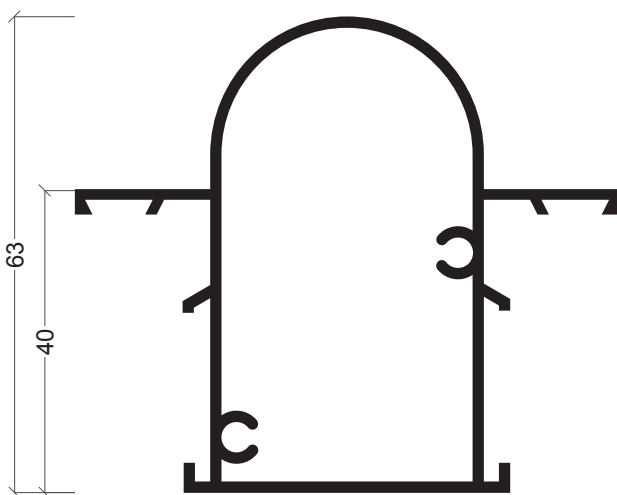
A1-55
Travessa



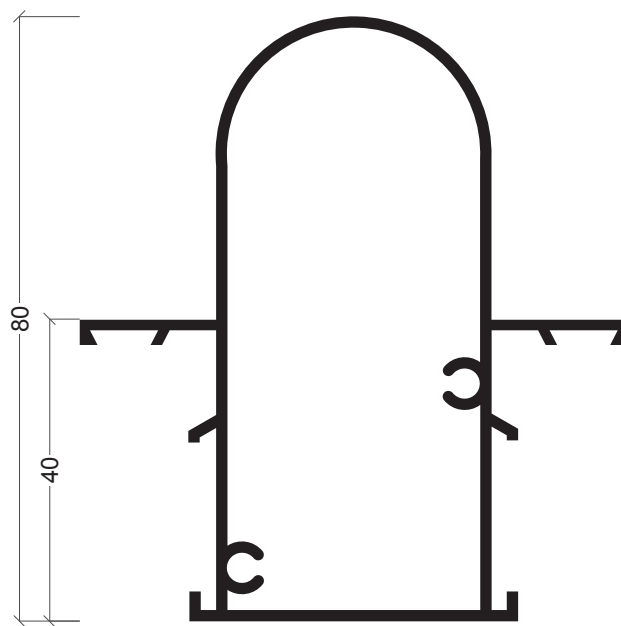
A1-35
Montante



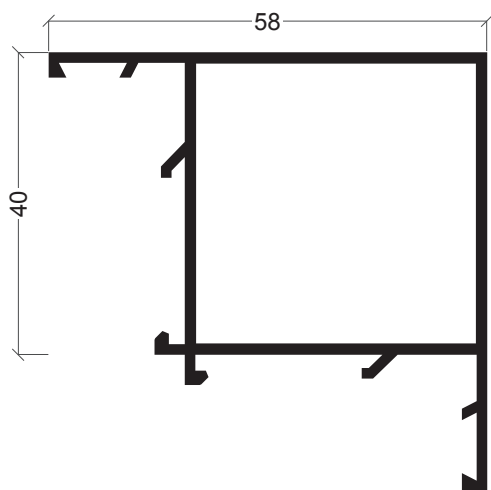
A1-36
Montante



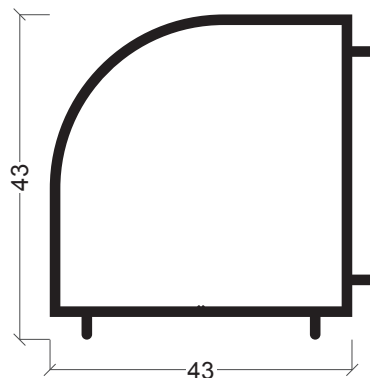
A1-70
Montante



A1-71
Montante

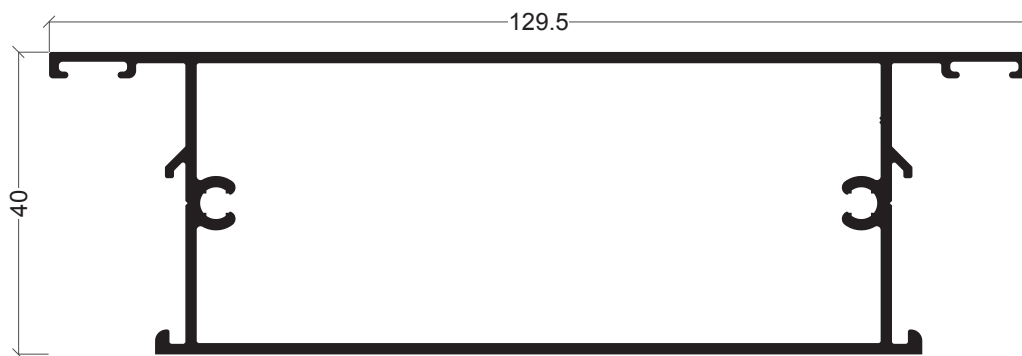


A1-11
Esquina

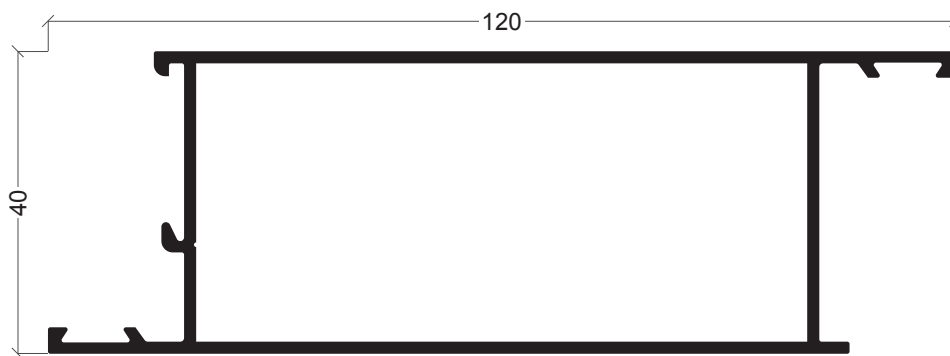


A1-57
Esquina

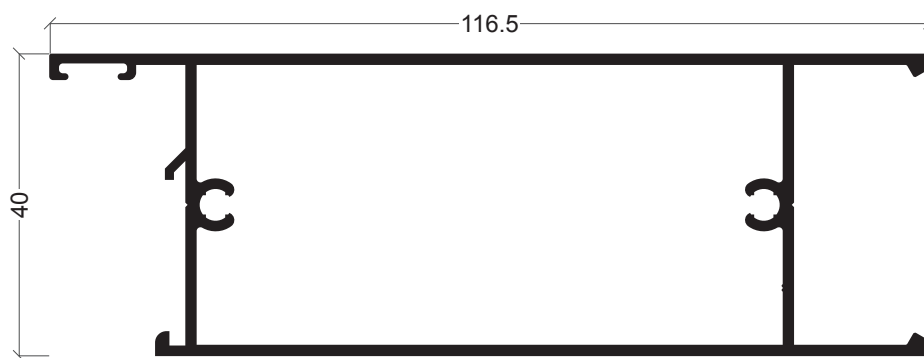
240



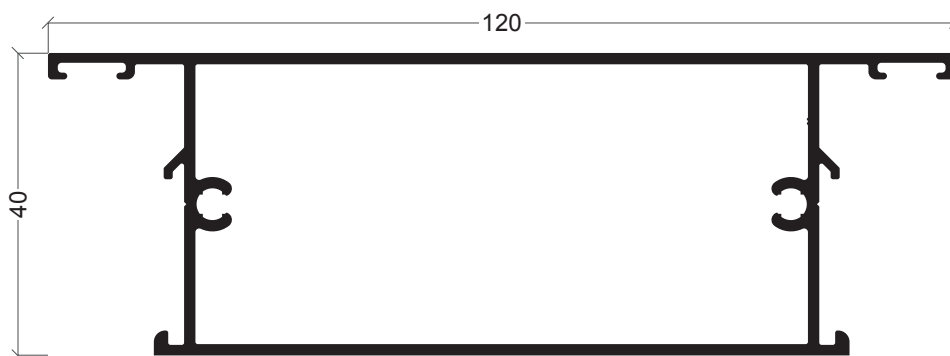
A1-12
Travessa



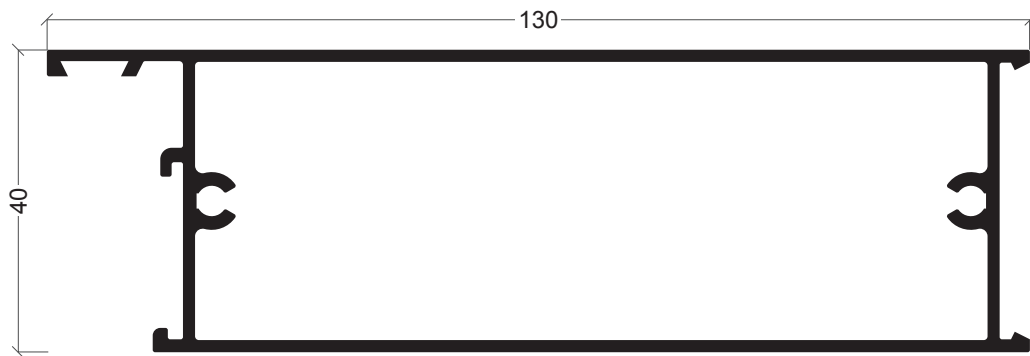
A1-14
Aro móvel/almofada



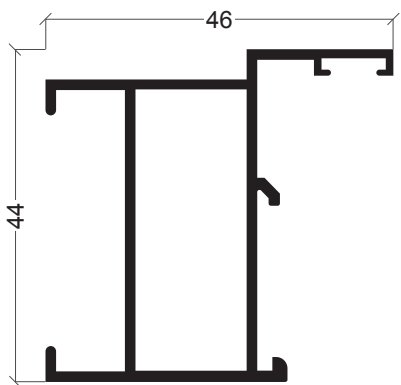
A1-63
Almofada



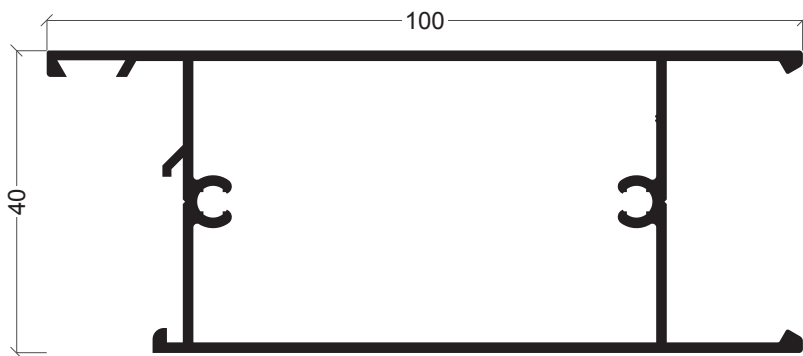
A1-65
Travessa



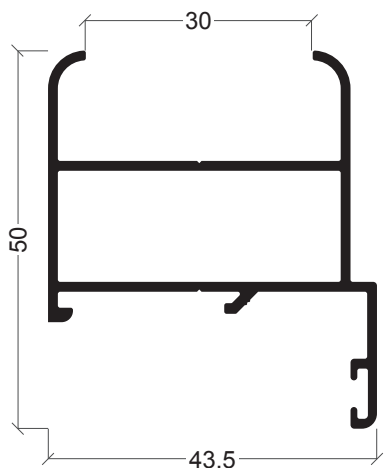
A1-13
Almofada



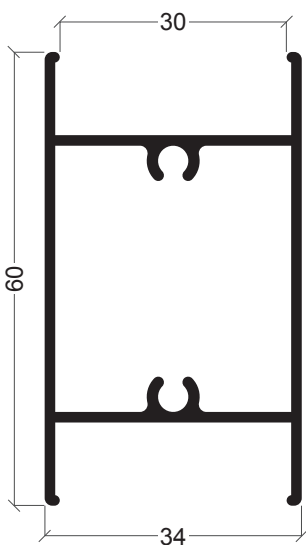
A1-74
Almofada



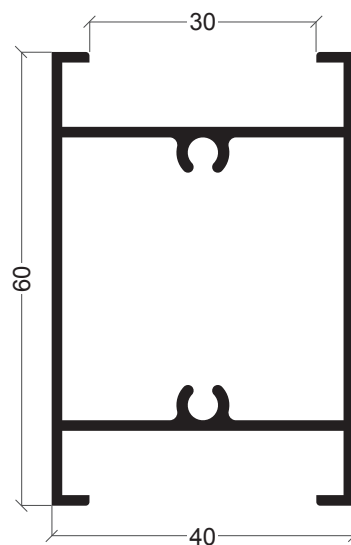
A1-64
Almofada



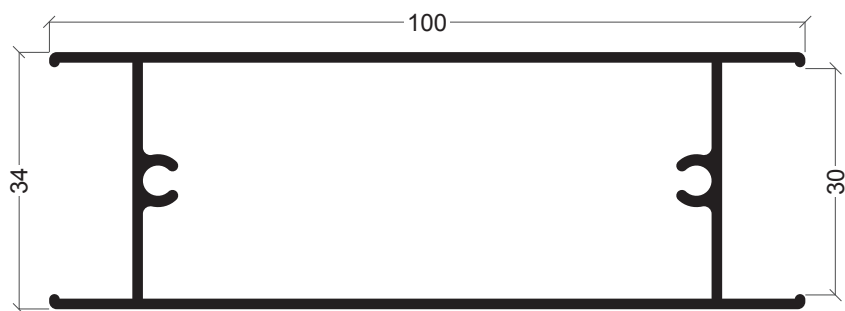
A1-83
Aro fixo/móvel portada



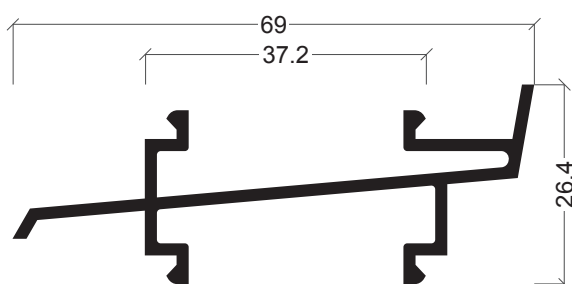
A1-85
Travessa



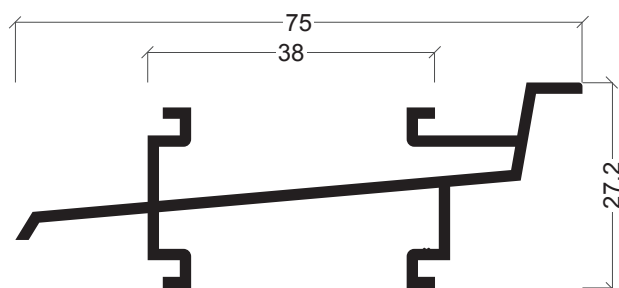
A1-75
Travessa



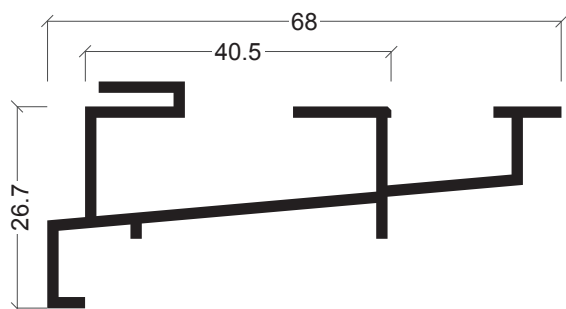
A1-84
Travessa



A1-17
Soleira



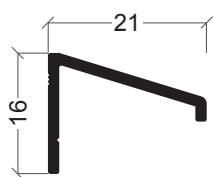
A1-86
Soleira



A1-48
Soleira



A1-18
Perfil de remate



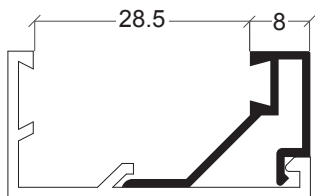
A1-46
Pingadeira



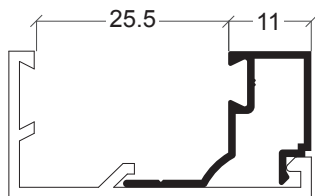
A1-19
Vareta



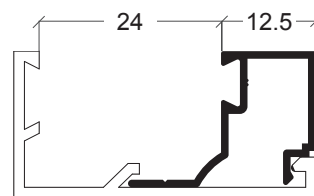
A1-20
União de aros



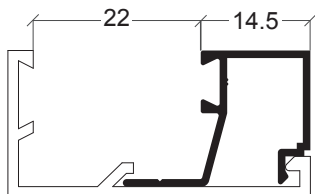
A1-43



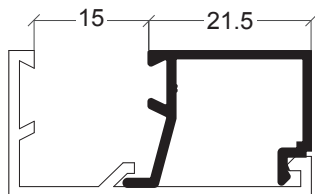
A1-44



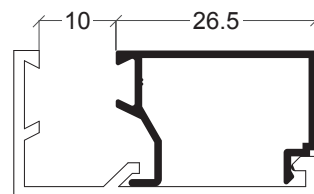
A1-32



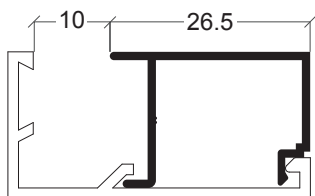
A1-49



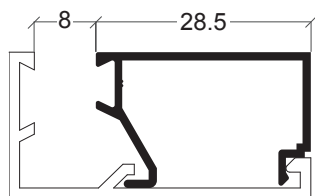
A1-30



A1-31



A6-09

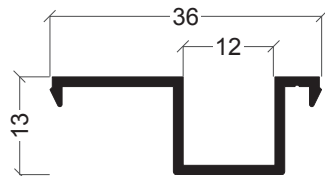


A1-15

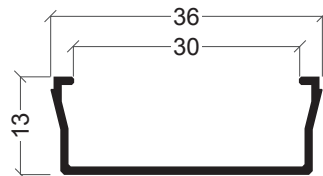
244



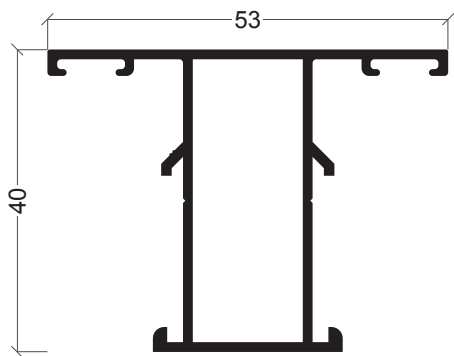
A6-23
Calha de comando



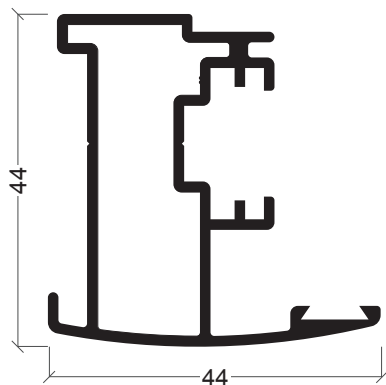
A6-21
Compensador



A6-24
Redutor



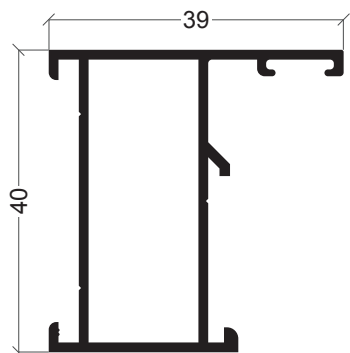
A6-01
Travessa



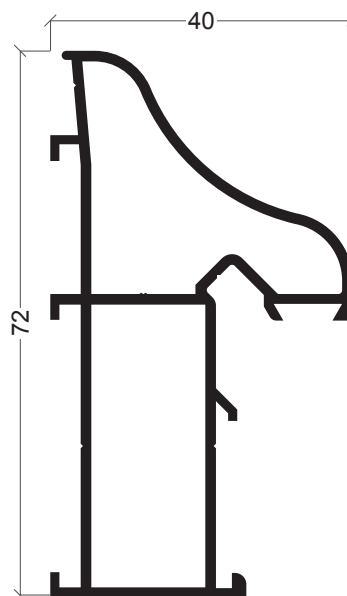
A6-26
Inversor



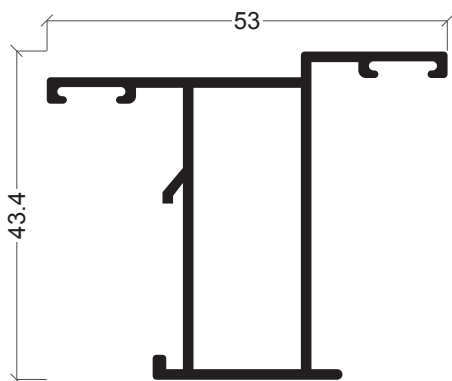
A6-27
Vareta



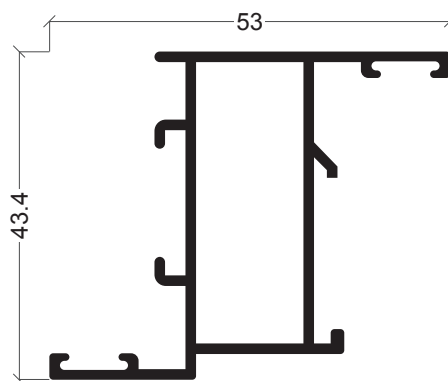
A6-03
Aro fixo



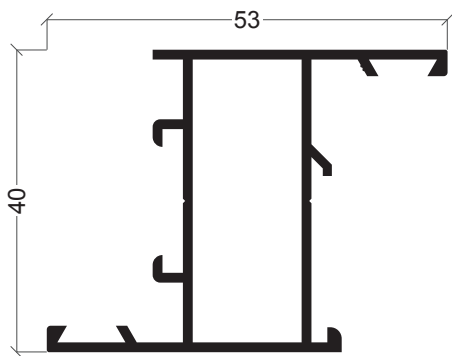
A6-10
Aro fixo



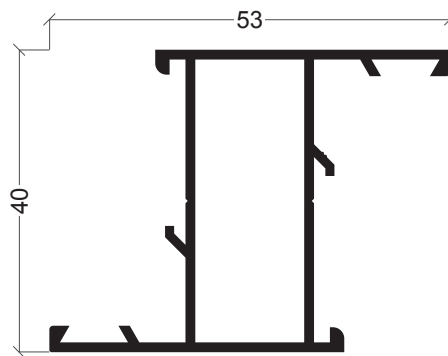
A6-04
Aro móvel/inversor



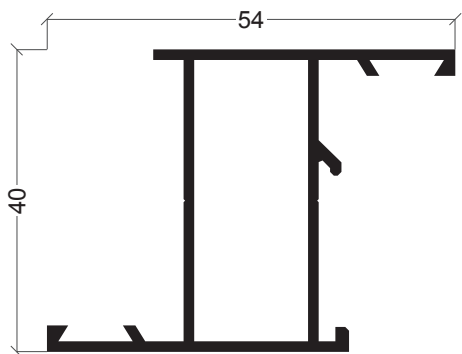
A6-05
Aro móvel/inversor



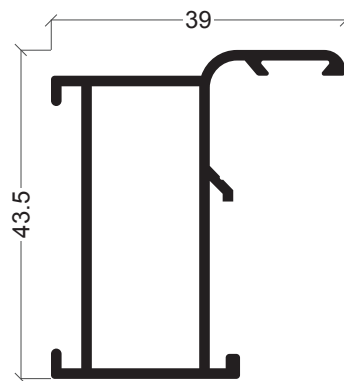
A6-02
Aro móvel



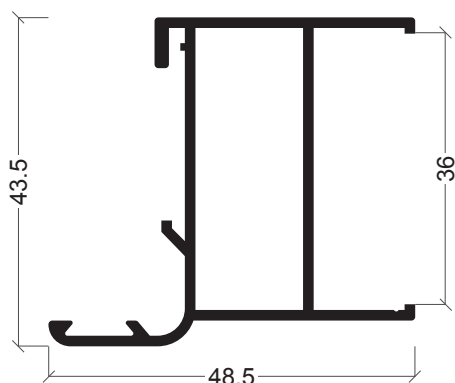
A6-06
Aro móvel



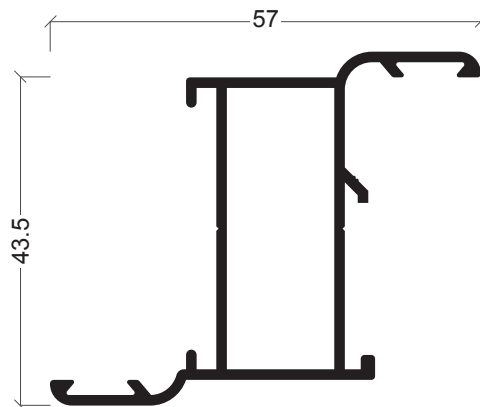
A6-07
Aro móvil



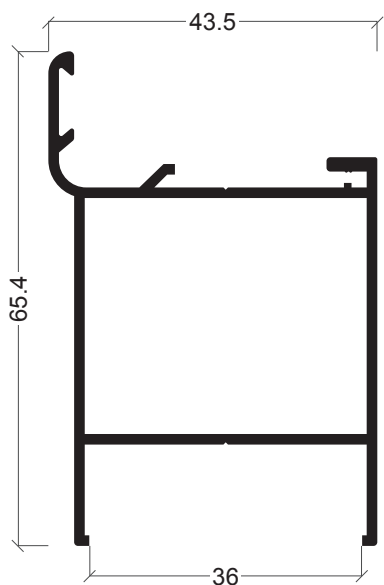
A6-17
Aro fijo



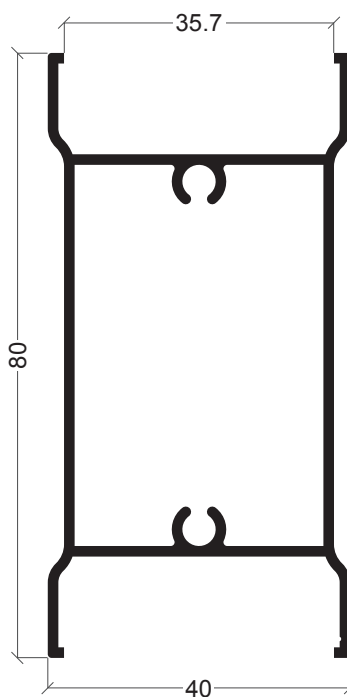
A6-18
Aro móvil portada



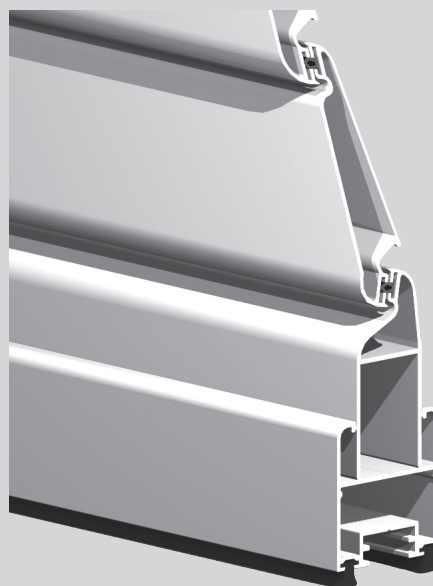
A6-19
Aro fijo/móvel



A6-20
Aro móvil portada



A6-22
Travessa portada



Sistema
XP

Sistema XP

Sistema de Portadas

Características do sistema

Sistema de portada que oferece a possibilidade de dois tipos de lâminas:

- Lâminas fixas
- Lâminas orientáveis

As lâminas orientáveis permitem uma total regulação através de mecanismos de rotação que permitem assim um controle da luminosidade de interior.

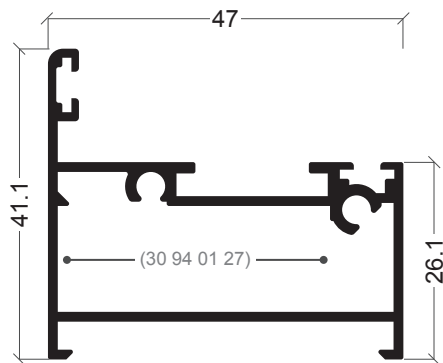
Este sistema não utiliza inversores graças à fisionomia da folha, utilizando apenas um pequeno perfil de batente.

Perfis de alumínio

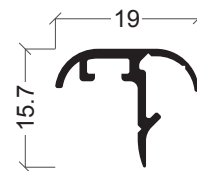
As secções do aro e do móvel são de 40 e 47 mm respectivamente, com uma espessura média dos perfis de alumínio de 1.5 mm.

Dimensionamento e manobralidade

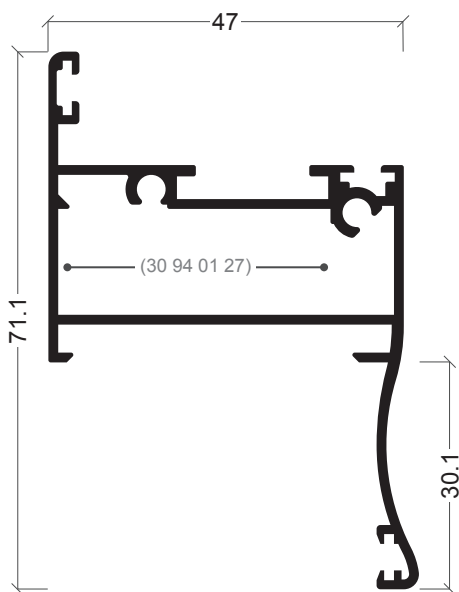
Possibilidades de abertura: exterior (1, 2, 3 e 4 folhas), harmónio e correr.



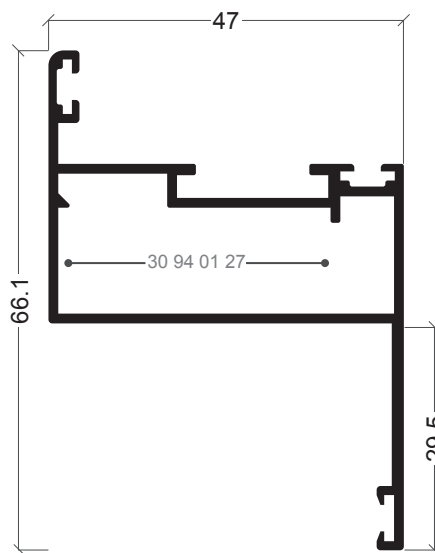
XP-03
Aro fixo



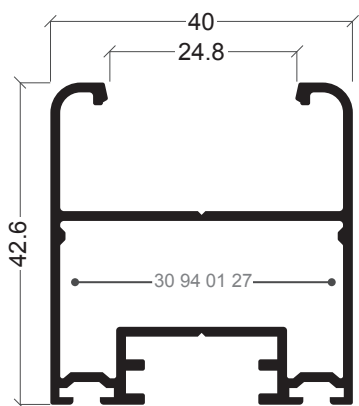
XP-04
Perfil de batente



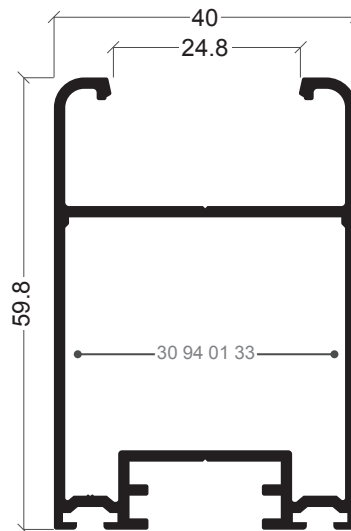
XP-09
Aro fixo com remate



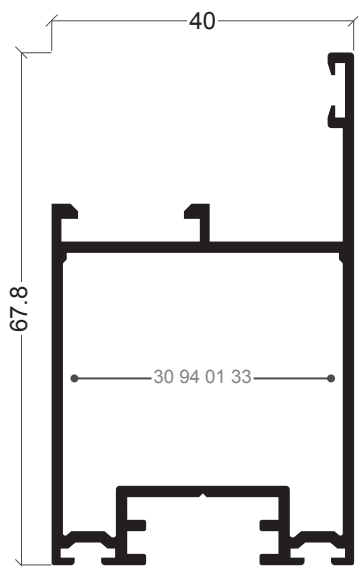
XP-26
Aro fixo com remate



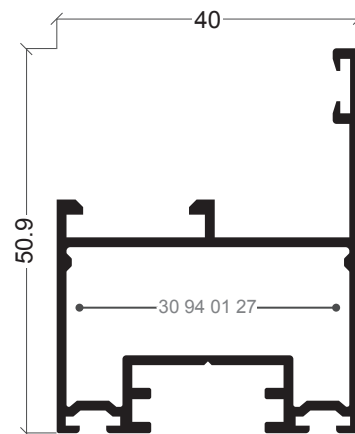
XP-05
Aro móvel



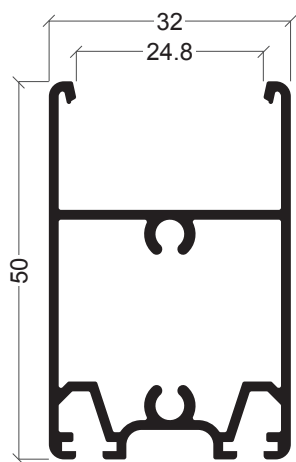
XP-18
Aro móvel



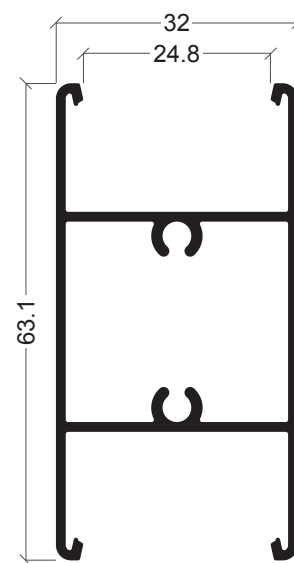
XP-22
Aro móvel com bite



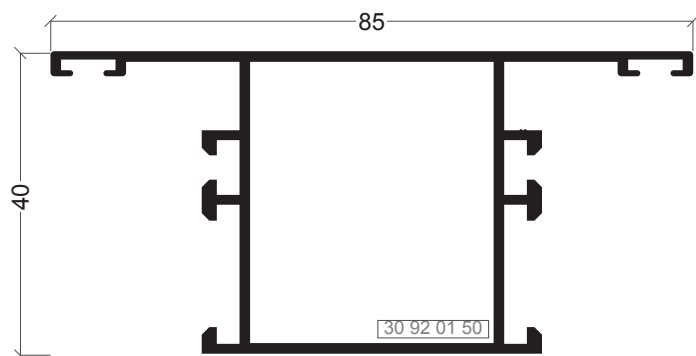
XP-11
Aro móvel com bite



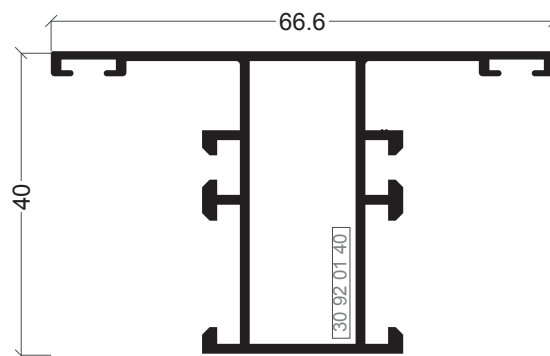
XP-10
Almofada 50 mm



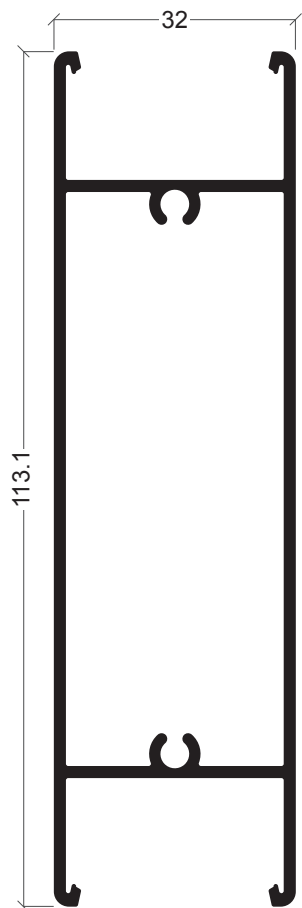
XP-25
Travessa 63 mm



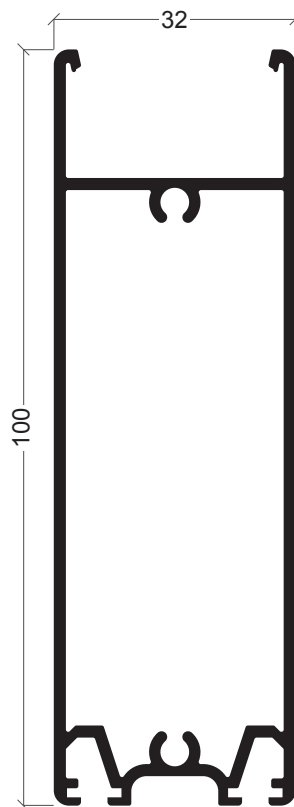
AZ-09
Travessa



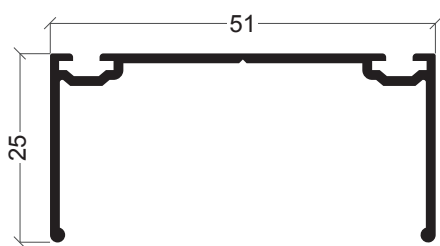
AZ-01
Travessa



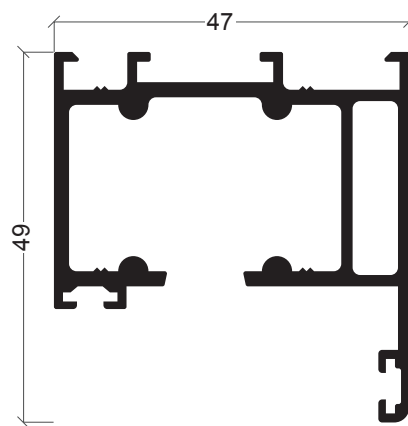
XP-27
Travessa 113 mm



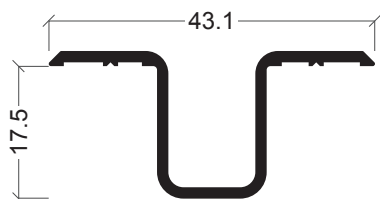
XP-16
Almofada 100 mm



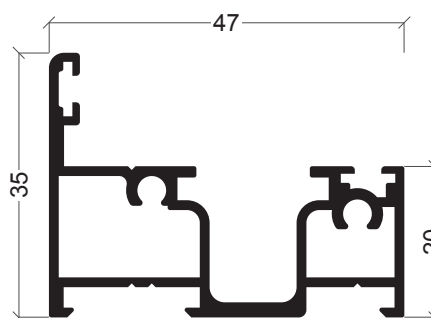
XP-20
Distanciador aro fixo de correr



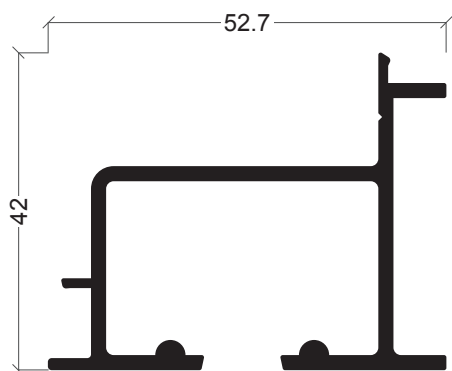
XP-21
Aro fixo de correr



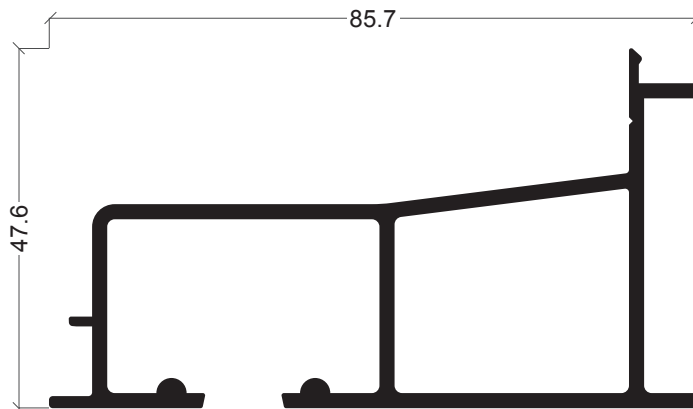
XP-23
Guia embutir de correr



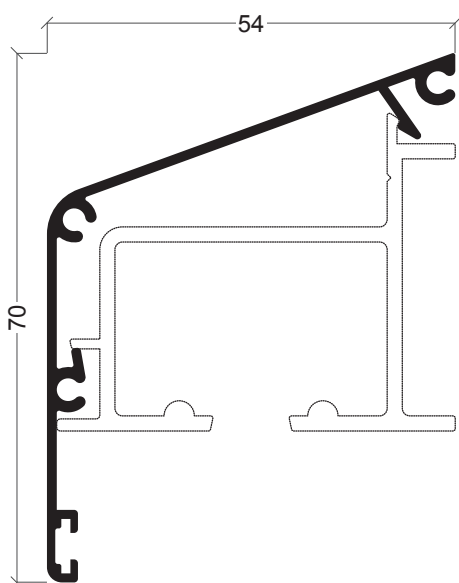
XP-24
Aro fixo guia de correr



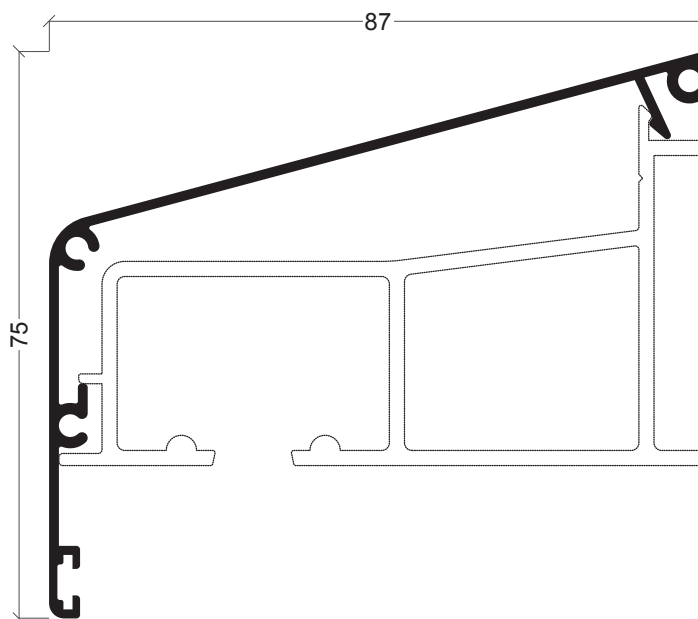
XP-07
Guia superior de correr



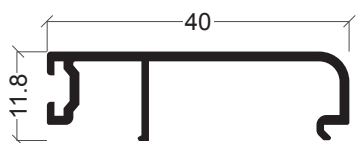
XP-13
Guia superior de correr



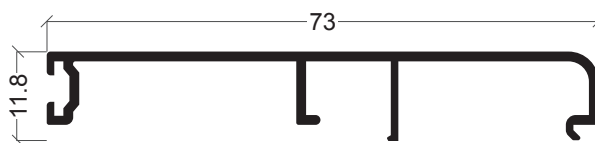
XP-06
Tampa guia superior de correr



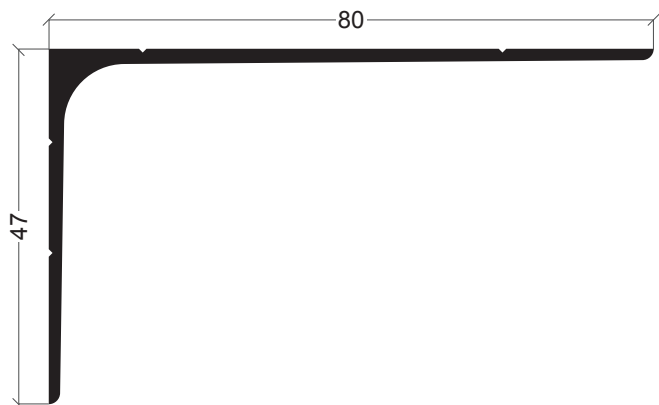
XP-12
Tampa guia superior de correr longa



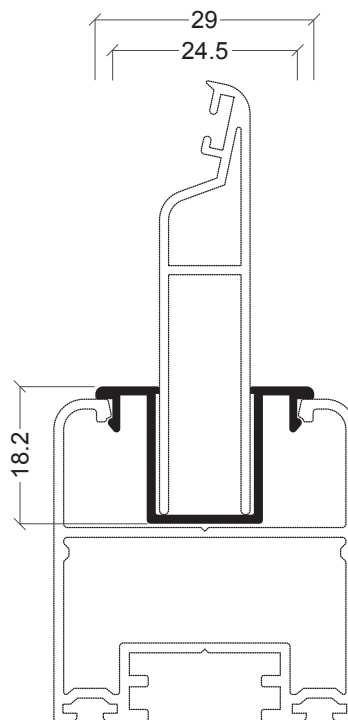
XP-08
Tampa lateral de correr



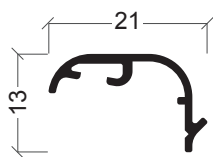
XP-14
Tampa lateral de correr larga



XP-15
Guia inferior de correr



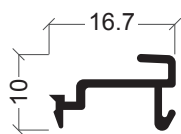
XP-19
Redutor para Z/54



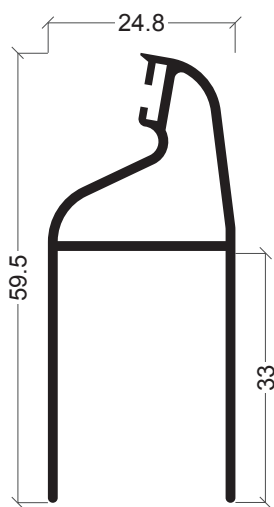
XP-17
Perfil batente de correr



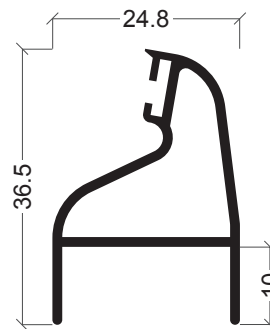
AX-19
Vareta



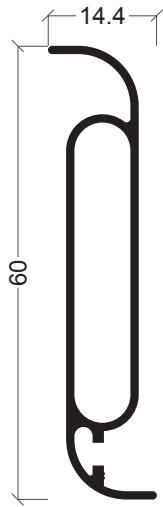
AX-33
Mola Bite



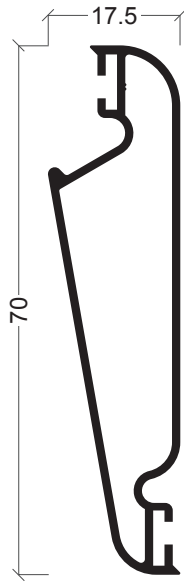
XP-01
Meia lâmina 33 mm



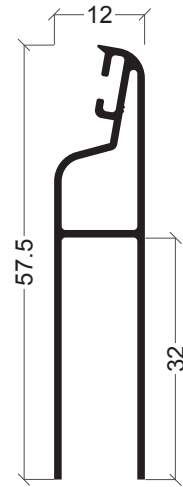
XP-02
Meia lâmina 10 mm



Z-52
Lâmina móvel

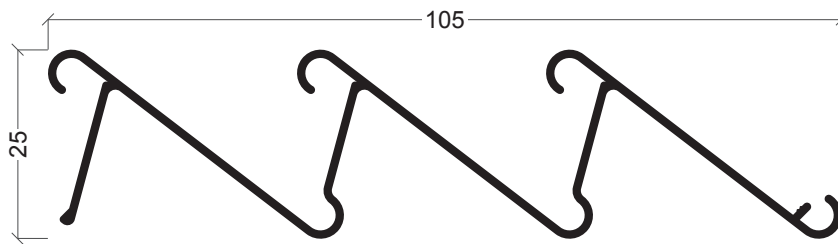


Z-53
Lâmina móvel

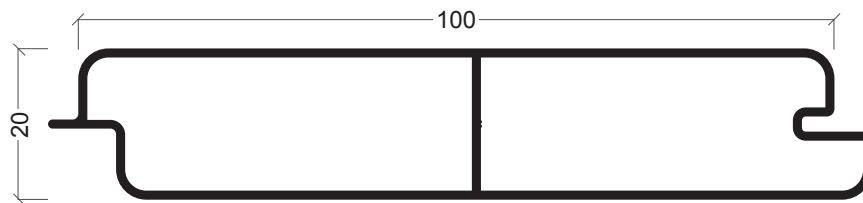


Z-54
Meia lâmina 32 mm

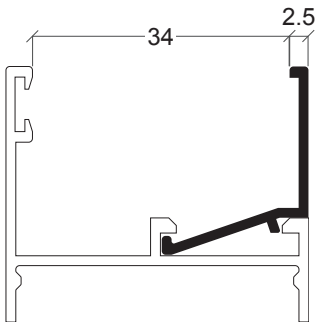
254



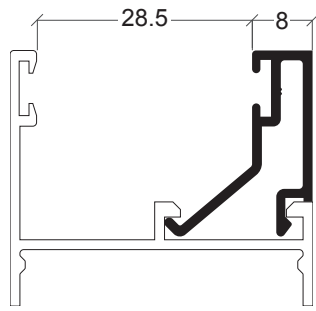
Z-20
Meia lâmina



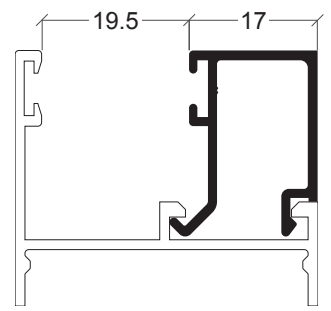
W-25
Lâmina de encaixe 100 x 20



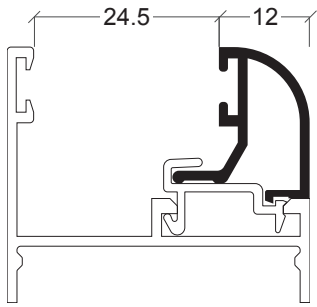
AX-69



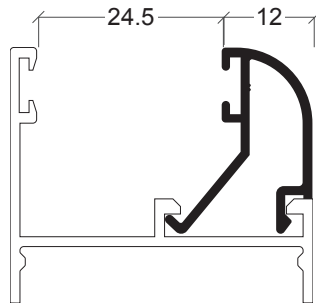
AX-74



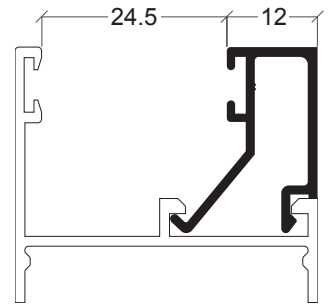
AX-46



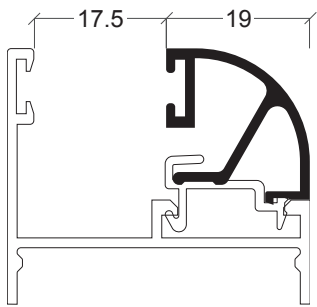
AX-37



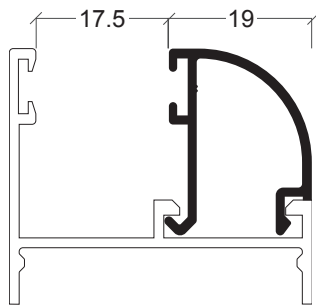
AZ-8



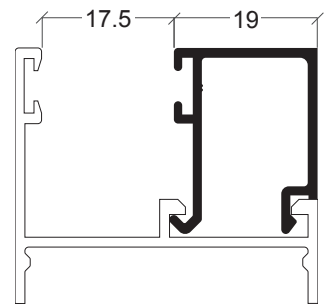
AX-36



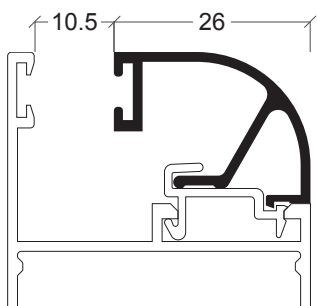
AX-30



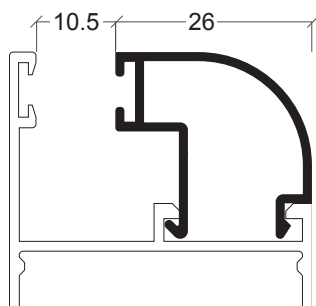
AZ-7



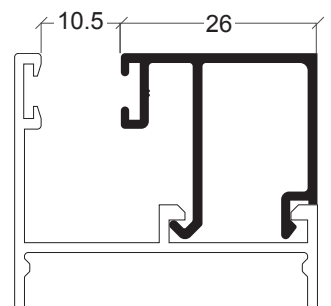
AX-35



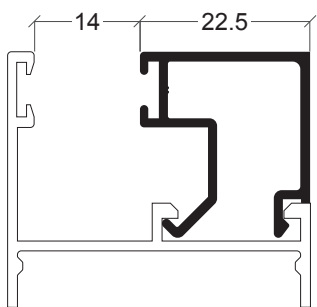
AX-29



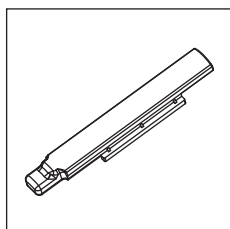
AZ-6



AX-31

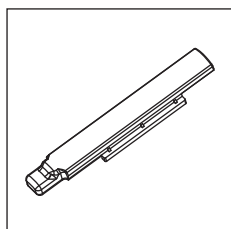


AX-78



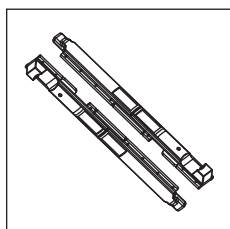
30 92 00 41

Terminal superior



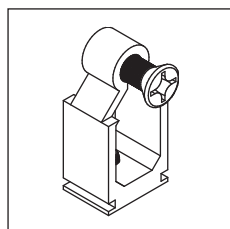
30 92 00 42

Terminal inferior



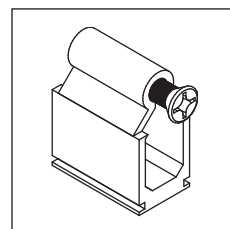
30 92 01 20

Fecho 2ª folha



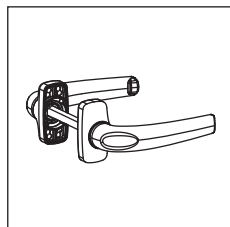
30 92 01 40

União topos janela



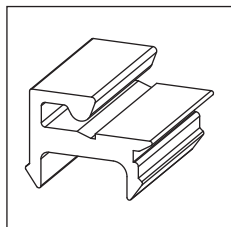
30 92 01 50

União topos porta



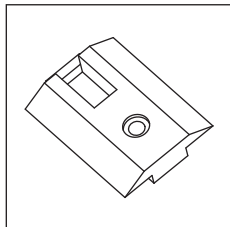
30 92 05 60

Puxador duplo



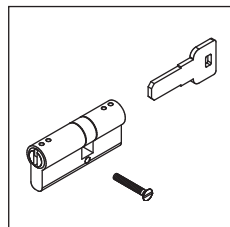
30 94 01 01

Mola bite plástica



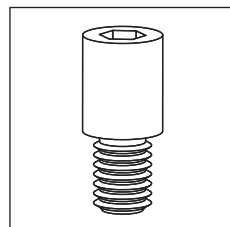
30 94 01 02

Complemento de fecho



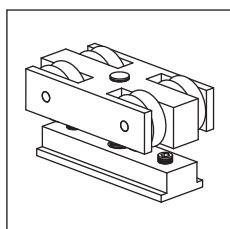
30 94 01 03

Canhão 30x30



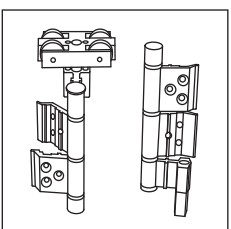
30 94 01 04

Jogo parafusos
distanciadores



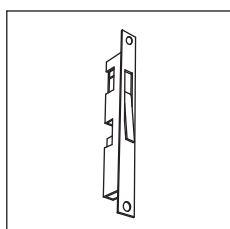
30 94 01 05

Rolamentos



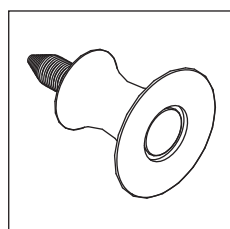
30 94 01 06/14

Rolamento e dobradiça
harmónio (branco/preto)



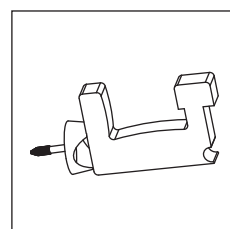
30 94 01 07/15

Fecho de embutir
(branco/preto)



30 94 01 08/16

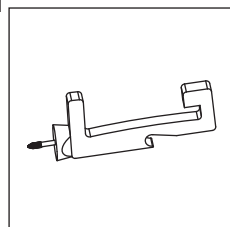
Aplicador fixador (branco/
preto)



30 94 01 09/17

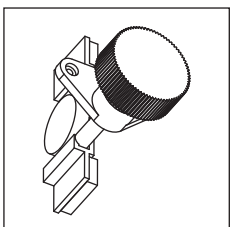
Fixador de portada 2
folhas (branco/preto)

256



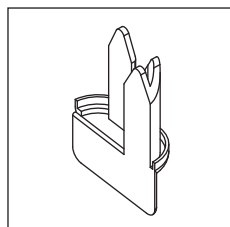
30 94 01 10/18

Fixador portada 4 folhas
(branco/preto)



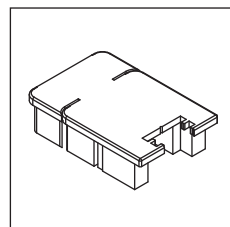
30 94 01 11/19

Comando lâminas
orientáveis (branco/preto)



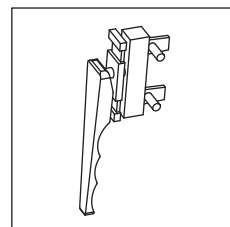
30 94 01 12/20

Jogo topos perfil batente
(branco/preto)



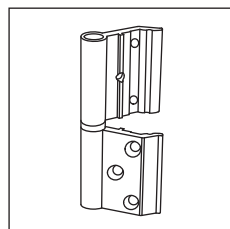
30 94 01 13/21

Tampa aro móvel
(branco/preto)



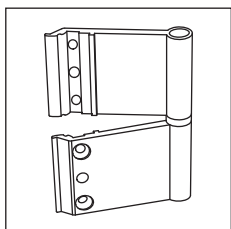
30 94 01 23/29 - 30 94 02 23/29

Cremone 4ª folha direito (branco/
preto) - esquerdo (branco/preto)



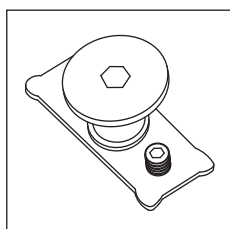
30 94 01 24/30

Dobradiça (branco/preto)



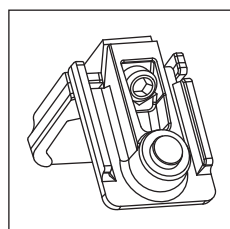
30 94 01 25/31

Dobradiça 4ª folha
(branco/preto)



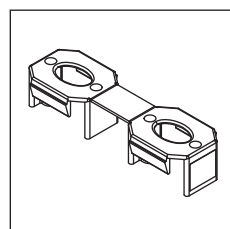
30 94 01 26

Distanciador aro



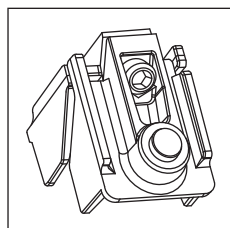
30 94 01 27

Esquadro janela



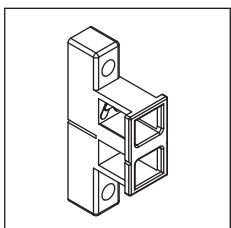
30 94 01 32

Distanciador travessa



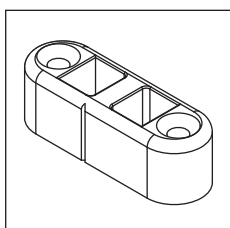
30 94 01 33

Esquadro porta



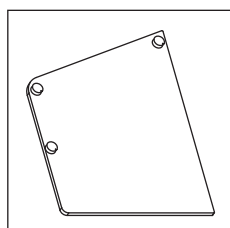
30 94 01 34

Fecho superior correr



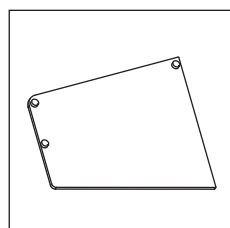
30 94 01 35

Fecho inferior correr



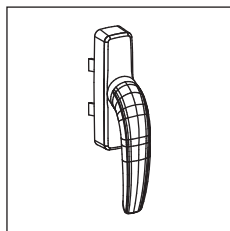
30 94 01 36

Tampa lateral correr
54 mm



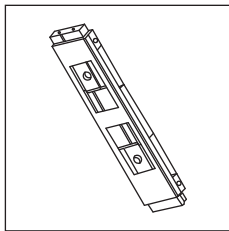
30 94 01 37

Tampa lateral correr
87 mm



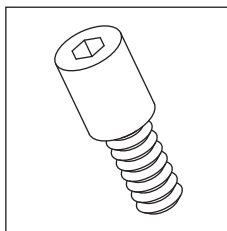
30 94 01 38

Cremone abertura exterior



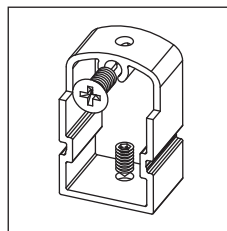
30 94 01 39

Kit fixação cremone abertura exterior



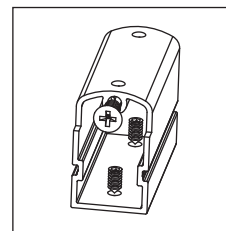
30 94 01 40

Distanciador abertura exterior 14 mm



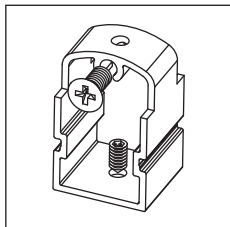
30 94 01 42

Topo travessa XP-10



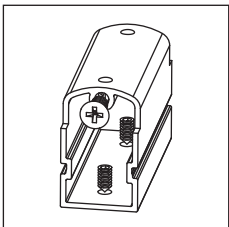
30 94 01 43

Topo travessa XP-16



30 94 01 44

União topos janela

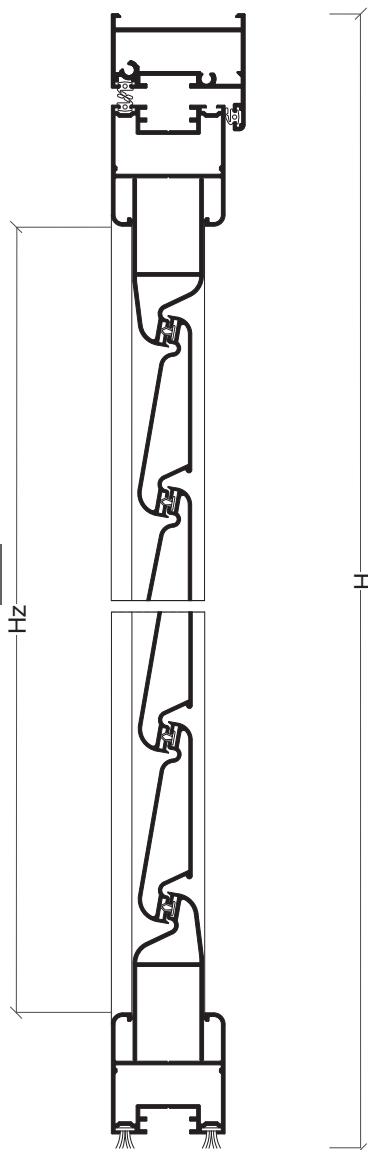
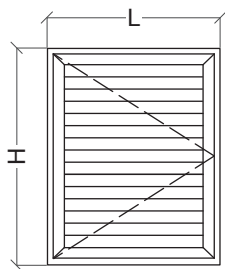


30 94 01 45

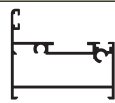


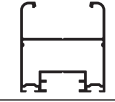








Topo travessa XP-27

Referência	Desenho	Descrição
30 93 01 40		Junta lâminas
30 94 01 46		Junta interior/exterior
30 95 00 10		Pelúcia 7x9 mm
30 95 00 30		Pelúcia 7x7 mm

Janela 1 folha abertura exterior



Perfis

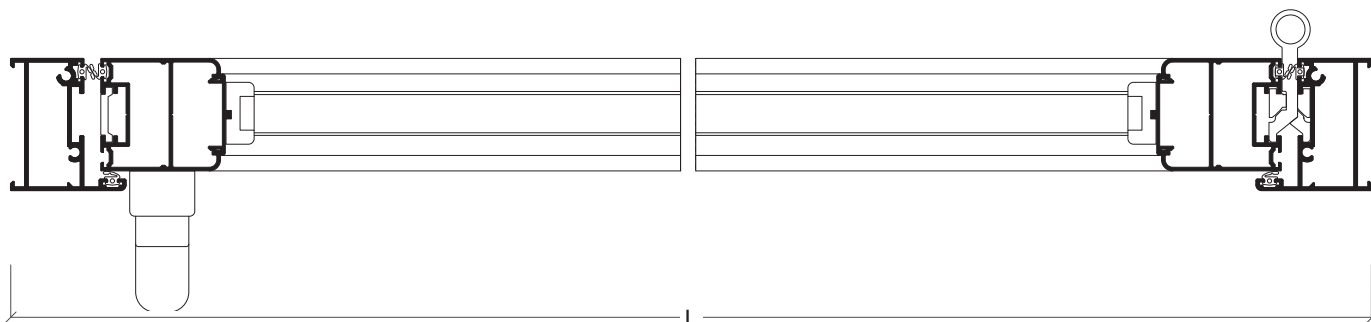
Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-03	Aro fixo		1	L
				2	H
	XP-05	Aro móvel de janela		2	L-64 mm
				2	H-37 mm
	XP-01	Meia lâmina		2	L-173 mm
	Z-53	Lâmina		Segundo altura	L-163 mm
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

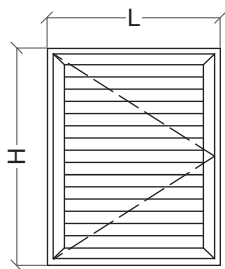
Referência	Descrição	Quantidade
30 94 01 02	Complemento fecho de portada	2
30 94 01 09	Fixador de portada	1
30 94 01 24	Dobradiça branca	2
30 94 01 27	Esquadro de janela	6
30 92 00 41	Terminal de fecho	2
30 94 01 38	Cremona abertura exterior	1
30 94 01 39	Kit fixação cremone	1
30 94 01 40	Distanciador 14 mm abertura exterior	2
---	Jogo portalâminas (segundo altura)	1
30 93 01 40	Vedante lâminas	Nº lâminas + 1L
30 94 01 46	Junta interior/exterior	3L+6H
30 95 00 30	Pelúcia 7x7 mm	2L

Portalâminas

Hz = H-122 mm

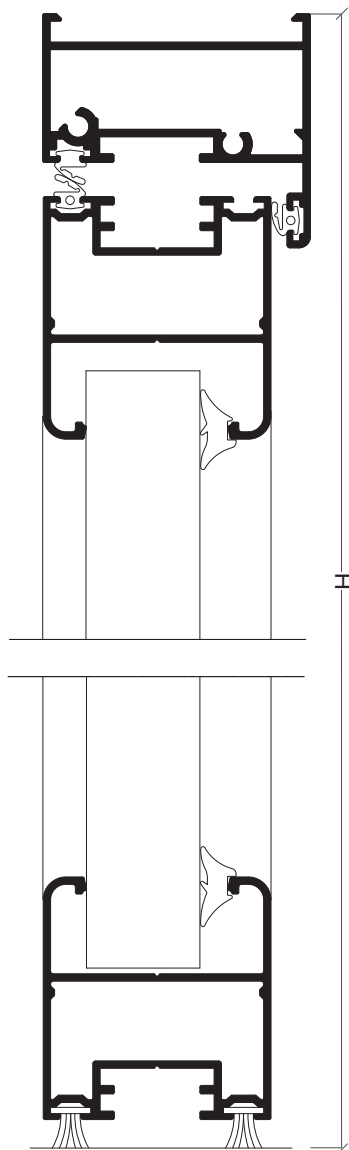


Janela 1 folha abertura exterior - lâminas fixas



Perfis

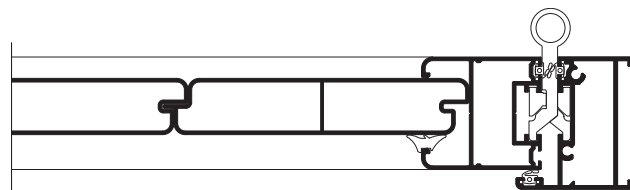
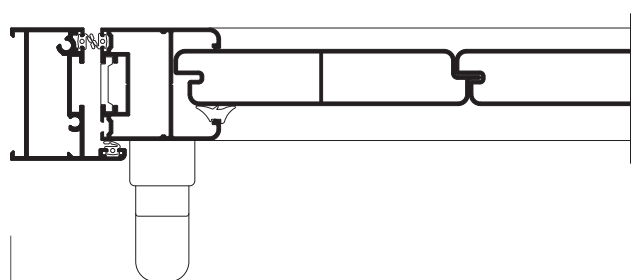
Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-03	Aro fixo		1	L
				2	H
	XP-05	Aro móvel de janela		2	L-64 mm
				2	H-37 mm
	W-25	Lâmina		Segundo altura	H-93 mm
	AX-19	Vareta		2	Apro. H/2 mm



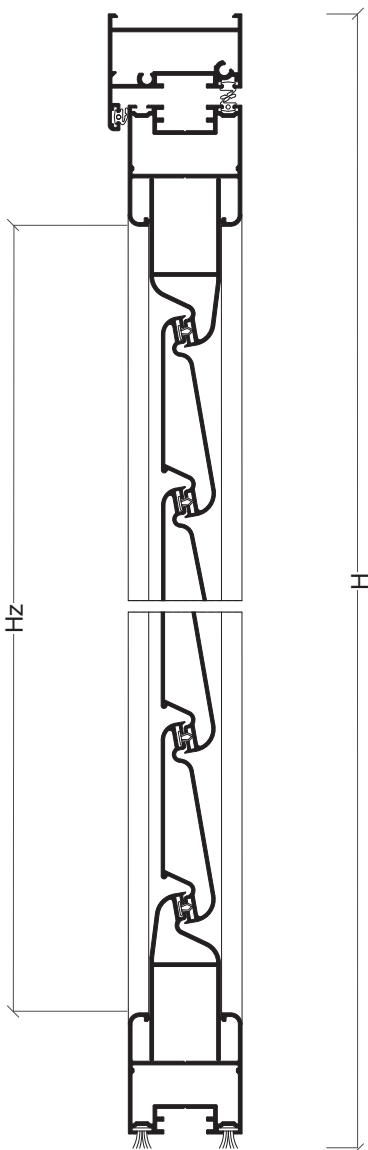
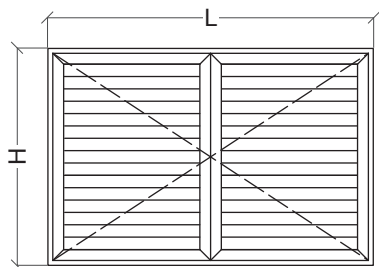
Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 01 02	Complemento fecho de portada	2
30 94 01 09	Fixador de portada	1
30 94 01 24	Dobradiça branca	2
30 94 01 27	Esquadro de janela	6
30 92 00 40	Terminal de fecho	2
30 94 01 38	Cremone abertura exterior	1
30 94 01 39	Kit fixação cremone	1
30 94 01 40	Distanciador 14 mm abertura exterior	2
30 94 01 46	Junta interior/exterior	3L+6H
30 95 00 30	Pelúcia 7x7 mm	2L
30 93 00 65	Junta de cunha	2L+2H

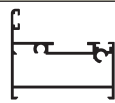


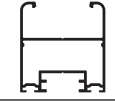










259



Janela 2 folhas abertura exterior



Perfis

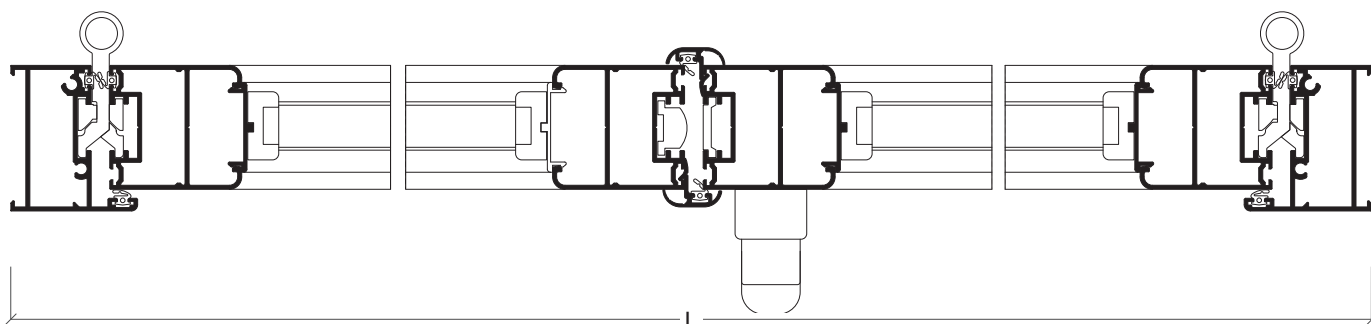
Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-03	Aro fixo		1	L
				2	H
	XP-05	Aro móvel de janela		4	L/2-37 mm
				4	H-37 mm
	XP-01	Meia lâmina		4	L/2-144 mm
	Z-53	Lâmina		Segundo altura	L/2-134 mm
	XP-04	Perfil de batente		2	H-37 mm
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

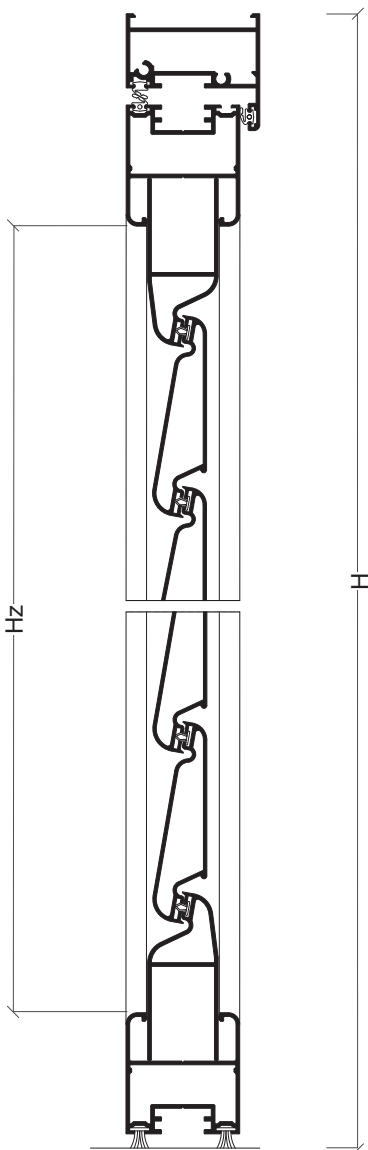
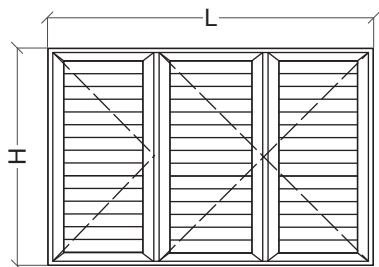
Referência	Descrição	Quantidade
30 92 00 41	Terminal de fecho	2
30 94 01 02	Complemento fecho de portada	2
30 92 01 20	Fecho 2ª folha	2
30 94 01 09	Fixador de portada	2
30 94 01 12	Jogo topos para perfil batente	2
30 94 01 24	Dobradiça	4
30 94 01 27	Esquadro de janela	10
30 94 01 38	Cremone abertura exterior	1
30 94 01 39	Kit fixação cremone	1
30 94 01 40	Distanciador 14 mm abertura exterior	2
---	Jogo portalâminas (segundo altura)	1
30 93 01 40	Vedante lâminas	Nº lâminas + 1 L/2
30 94 01 46	Junta interior/exterior	2L+2L/2+8H
30 95 00 30	Pelúcia 7x7 mm	4L/2

Portalâminas

Hz = H-122 mm



Janela 3 folhas abertura exterior



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-03	Aro fixo		1	L
				2	H
	XP-05	Aro móvel de janela		4	Lat. = L/2-37 mm
				2	Cen. = L/3-42 mm
				6	H-37 mm
	XP-01	Meia lâmina		4	Lat. = L/3-126 mm
				2	Cen. = L/3-151 mm
	Z-53	Lâmina		Segundo altura	Lat. = L/3-116 mm
				Segundo altura	Cen. = L/3-141 mm
	XP-04	Perfil de batente		2	H-37 mm
	AX-19	Vareta		2	Apro. H/2 mm

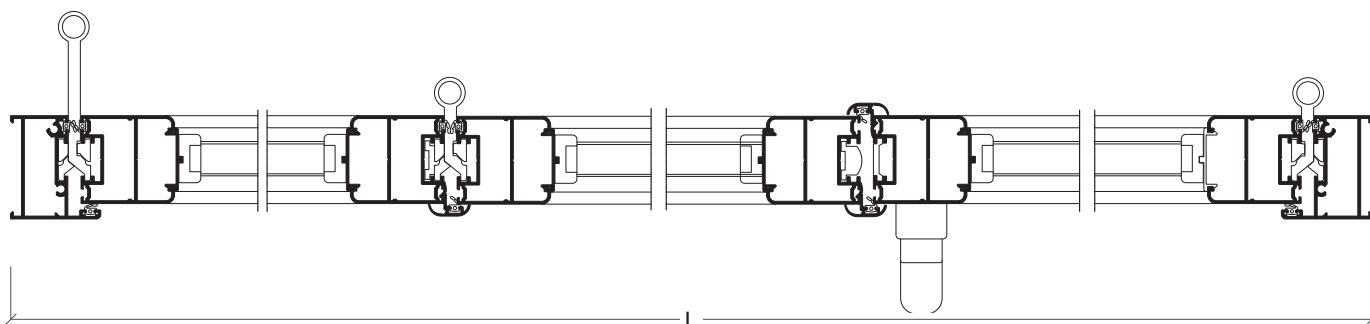
Acessórios e Juntas

Referência	Descrição	Quantidade
30 92 00 41	Terminal de fecho	2
30 94 01 02	Complemento fecho de portada	4
30 92 01 20	Fecho 2ª folha	4
30 94 01 09	Fixador de portada (opcional)	1
30 94 01 10	Fixador de portada 3/4 folhas (opcional)	1
30 94 01 12	Jogo topos para perfil batente	3
30 94 01 24	Dobradiça	4
30 94 01 25	Dobradiça 3ª/4ª folha	2
30 94 01 27	Esquadro de janela	14
30 94 01 38	Cremone abertura exterior	1
30 94 01 39	Kit fixação cremone	1
30 94 01 40	Distanciador 14 mm abertura exterior	2
---	Jogo portalâminas (segundo altura)	3
30 93 01 40	Vedante lâminas	Nº lâminas + 1 L/3
30 94 01 46	Junta interior/exterior	2L+3L/3+11H
30 95 00 30	Pelúcia 7x7 mm	6L/2

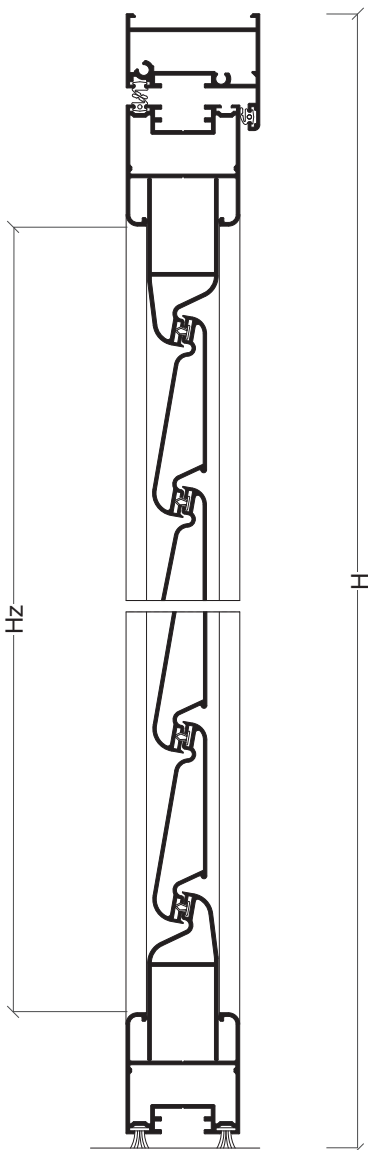
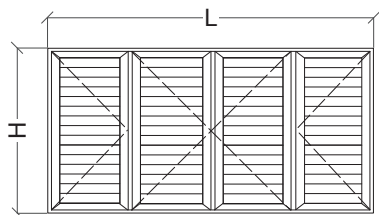
261

Portalâminas

Hz = H-122 mm



Janela 4 folhas abertura exterior



Perfis

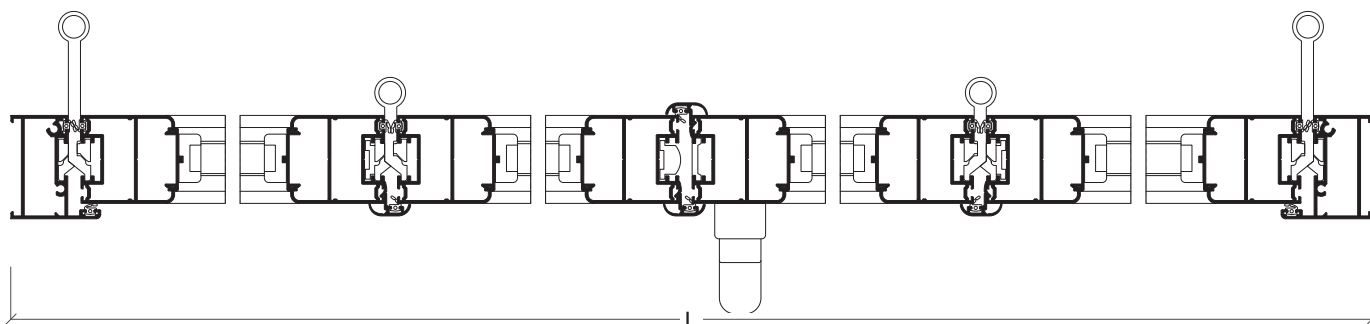
Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-03	Aro fixo		1	L
				2	H
	XP-05	Aro móvel de janela		4	Lat. = L/4-8 mm
				4	Cen. = L/4-33 mm
				8	H-37 mm
	XP-01	Meia lâmina		4	Lat. = L/4-117 mm
				4	Cen. = L/4-132 mm
	Z-53	Lâmina		Segundo altura	Lat. = L/4-107 mm
				Segundo altura	Cen. = L/4-132 mm
	XP-04	Perfil de batente		4	H-37 mm
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

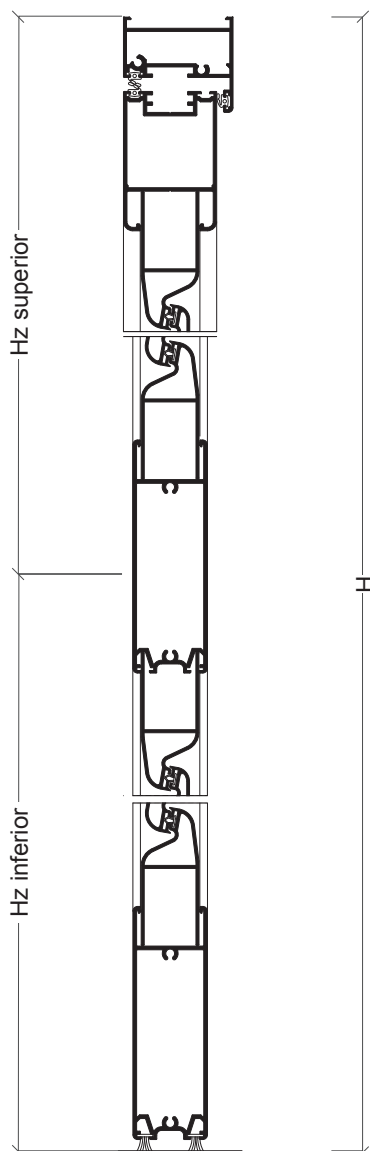
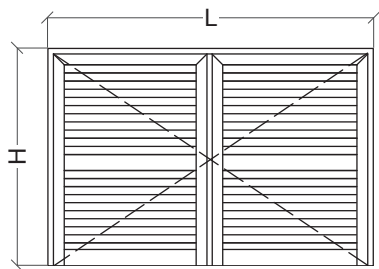
Referência	Descrição	Quantidade
30 92 00 41	Terminal de fecho	2
30 94 01 02	Complemento fecho de portada	6
30 92 01 20	Fecho 2ª folha	6
30 94 01 09	Fixador de portada (opcional)	2
30 94 01 10	Fixador de portada 3/4 folhas (opcional)	2
30 94 01 12	Jogo topos para perfil batente	4
30 94 01 24	Dobradiça	4
30 94 01 25	Dobradiça 3ª/4ª folha	4
30 94 01 27	Esquadro de janela	18
30 94 01 38	Cremone abertura exterior	1
30 94 01 39	Kit fixação cremone	1
30 94 01 40	Distanciador 14 mm abertura exterior	2
---	Jogo portalâminas (segundo altura)	4
30 93 01 40	Vedante lâminas	Nº lâminas + 1 L/4
30 94 01 46	Junta interior/exterior	2L+4L/4+14H
30 95 00 30	Pelúcia 7x7 mm	8L/4

Portalâminas

Hz = H-122 mm



Porta 2 folhas abertura exterior



Perfis

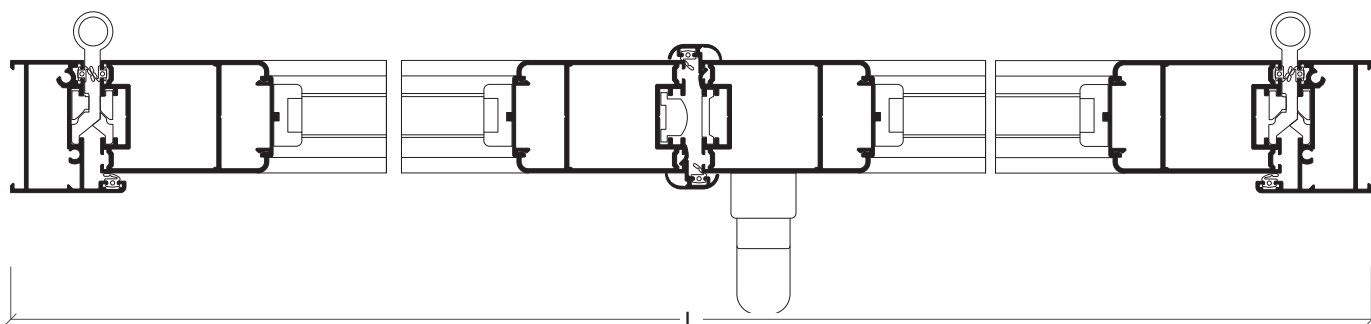
Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-03	Aro fixo		1	L
				2	H
	XP-18	Aro móvel de porta		2	L/2-35 mm
				4	H-37 mm
	XP-16	Almofada 100 mm		4	L/2-154 mm
	XP-01	Meia lâmina		8	L/2-178 mm
	Z-53	Lâmina		Segundo altura	L/2-168 mm
	XP-04	Perfil de batente		2	H-37 mm
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

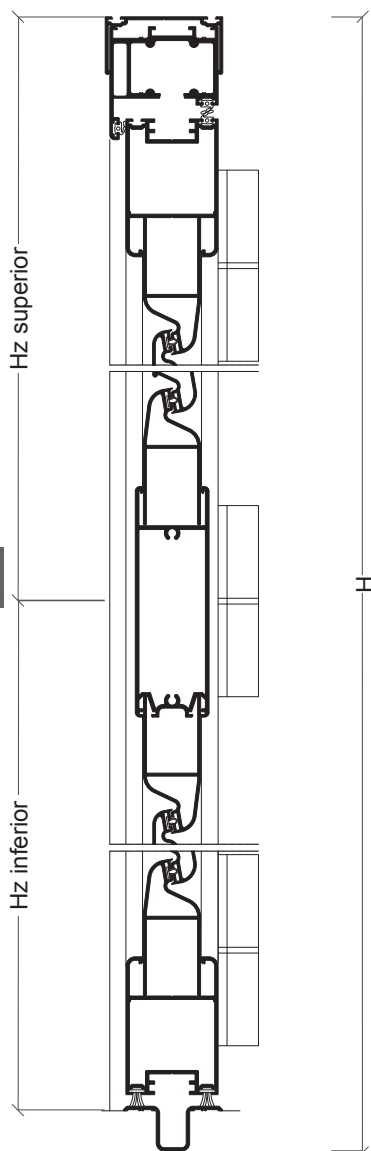
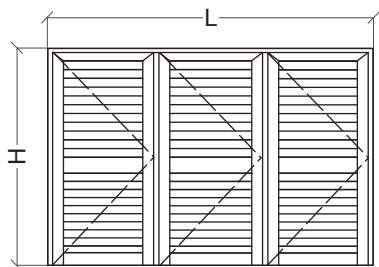
Referência	Descrição	Quantidade
30 94 01 38	Cremona abertura exterior	1
30 94 01 02	Complemento fecho de portada	2
30 94 01 39	Kit fixação cremona	1
30 94 01 12	Jogo topos para perfil batente	2
30 94 01 13	Tampa da folha	4
30 94 01 24	Dobradiça	8
30 94 01 27	Esquadro de janela	2
30 94 01 32	Distanciador de travessa	8
30 94 01 33	Esquadro porta	4
30 92 02 40	Fecho 2ª folha	6
30 94 01 40	Distanciador 14 mm abertura exterior	2
30 92 05 60	Puxador duplo	1
---	Jogo portalâminas (segundo Hz superior)	2
---	Jogo portalâminas (segundo Hv inferior)	2
30 93 01 40	Vedante lâminas	Nº lâminas + 2 L/2
30 94 01 46	Junta interior/exterior	2L+2L/2+8H
30 95 00 30	Pelúcia 7x7 mm	4L/2

Portalâminas





Hz superior = H1-148 mm
Hv inferior = H2-161 mm



Porta 3 folhas harmónio abertura exterior



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-20	Distanciador de aro		1	L
	XP-21	Aro fixo para carril		1	L
	XP-03	Aro fixo		2	H-31 mm
	XP-18	Aro móvel de porta		6	L/3-25 mm
				6	H-47 mm
	XP-16	Almofada 100 mm		3	L/3-145 mm
	XP-01	Meia lâmina		12	L/3-168 mm
	Z-53	Lâmina		Segundo altura	L/3-158 mm
	XP-23	Guia de embutir		1	L
	AX-19	Vareta		2	Apro. H

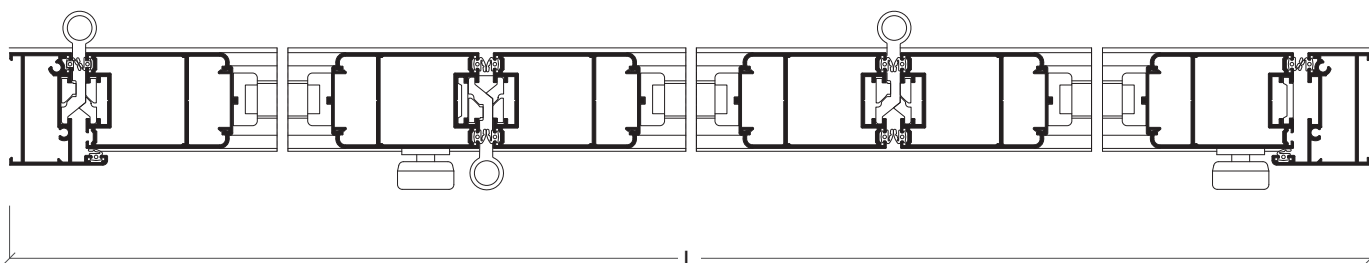
Dimensões máximas: 800x2500 mm por folha
 Peso máximo: 40 Kg por folha

Acessórios e Juntas

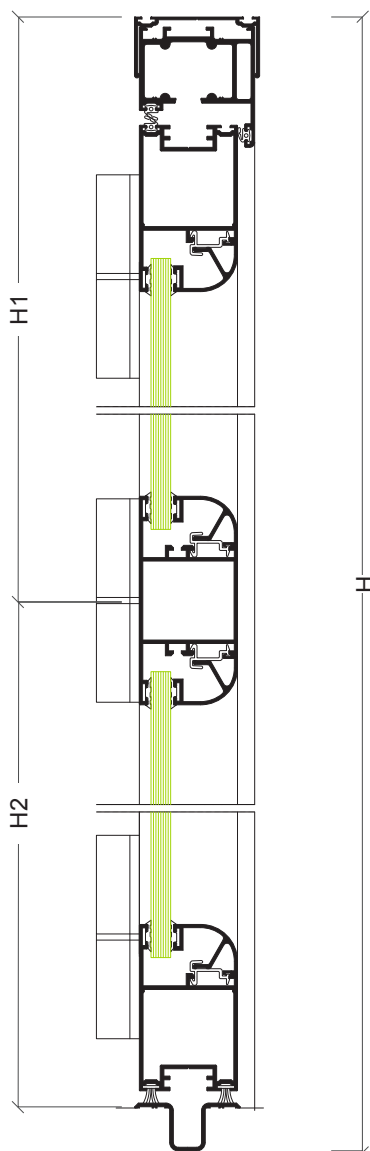
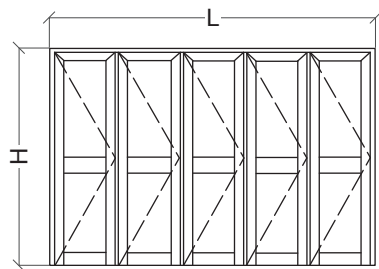
Referência	Descrição	Quantidade
30 94 01 04	Jogo parafusos distanciadores	2
30 94 01 07	Fecho de embutir portada	2
30 94 01 08	Aplique fixador	2
30 94 01 06	Rolamentos/dobradiças harmónio	1
30 94 01 23	Cremona 4 folhas (opcional a A)	2
30 94 01 24	Dobradiça	8
30 94 01 26	Distanciador de pavimento	4
30 94 01 32	Distanciador chão	8
30 94 01 33	Esquadro porta	12
30 92 00 41	Terminal fecho	2
30 92 00 42	Terminal fecho inferior	2
---	Jogo portalâminas (segundo Hz superior)	3
---	Jogo portalâminas (segundo Hz inferior)	3
30 93 01 40	Vedante lâminas	Nº lâminas + 2 L/3
30 94 01 46	Junta interior/exterior	2L+3L/3+14H
30 95 00 30	Pelúcia 7x7 mm	6L/3

Portalâminas























Hz superior = H1-156 mm
Hz inferior = H2-123 mm



Porta 5 folhas harmónio abertura exterior com vidro



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-20	Distanciador de aro		1	L
	XP-21	Aro fixo para carril		1	L
	XP-03	Aro fixo		2	H-31 mm
	XP-22	Aro móvel de porta		10	L/5-17 mm
				10	H-47 mm
	AZ-09	Travessa		5	L/5-103 mm
	AZ-06	Bite redondo		10	H1-100 mm
				10	H2-67 mm
	AX-29	Bite redondo		20	L/5-113 mm
	AX-33	Mola bite		A cada 300 mm	80 mm
	XP-23	Guia de embutir		1	L
	AX-19	Vareta		2	Apro. H

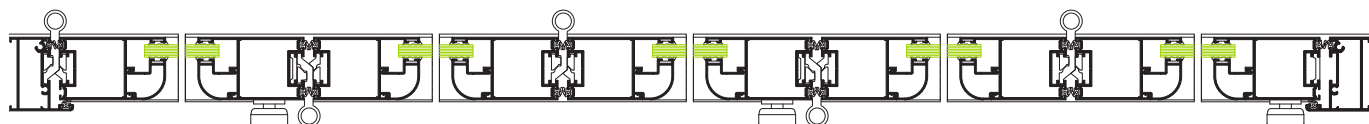
Dimensões máximas: 800x2500 mm por folha
 Peso máximo: 40 Kg por folha

Acessórios e Juntas

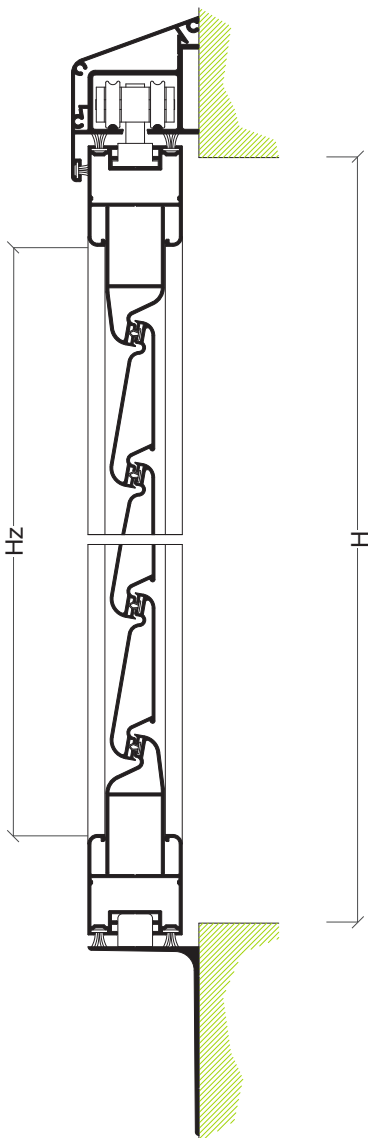
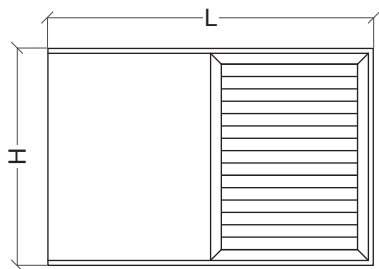
Referência	Descrição	Quantidade
30 94 01 04	Jogo parafusos distanciadores	3
30 94 01 07	Fecho de embutir portada	3
30 94 01 08	Aplique fixador	3
30 94 01 06	Rolamentos/dobradiças harmónio	2
30 94 01 23	Cremona 4 folhas (opcional a A)	3
30 94 01 24	Dobradiça	11
30 94 01 26	Distanciador de aro	1 a cada 50 cm
30 94 01 33	Esquadro porta	20
30 92 00 41	Terminal fecho	3
30 92 00 42	Terminal fecho inferior	3
30 92 01 50	União topos porta	10
30 94 01 46	Junta interior/exterior	2L+5L/5+22H
30 95 00 30	Pelúcia 7x7 mm	10L/5
---	Junta exterior vidro	4L+10H
---	Junta interior vidro	4L+10H

Vidros

L/5-126 mm	H1-123 mm
L/5-126 mm	H2-90 mm



Janela 1 folha correr



Perfis

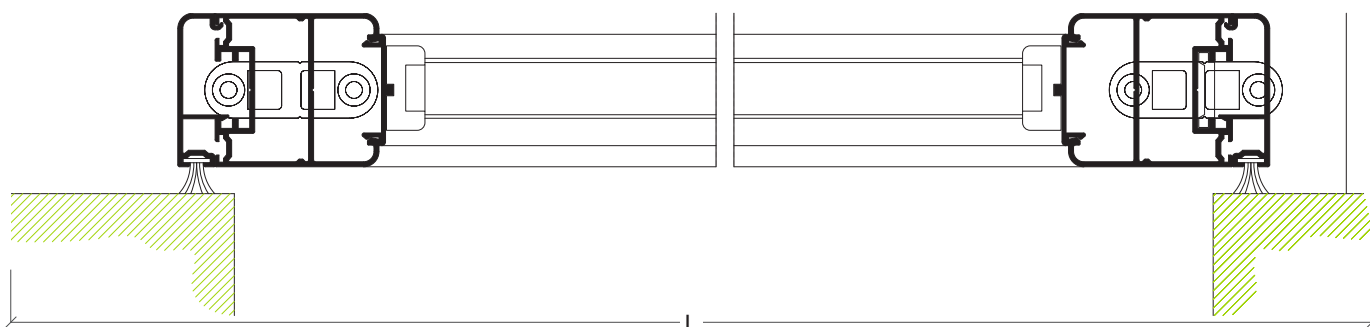
Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-07	Guia superior de correr		1	2L+59 mm
	XP-05	Aro móvel de janela		2	L+10 mm
				2	L+10 mm
	XP-01	Meia lâmina		2	L-99 mm
	Z-53	Lâmina		Segundo altura	L-89 mm
	AX-19	Vareta		2	Apro. H/2 mm
	XP-06	Tampa da guia superior		1	2L+59 mm
	XP-08	Tampa lateral de correr		2	H+10 mm
	XP-15	Guia inferior de correr		1	2L+59 mm

Acessórios e Juntas

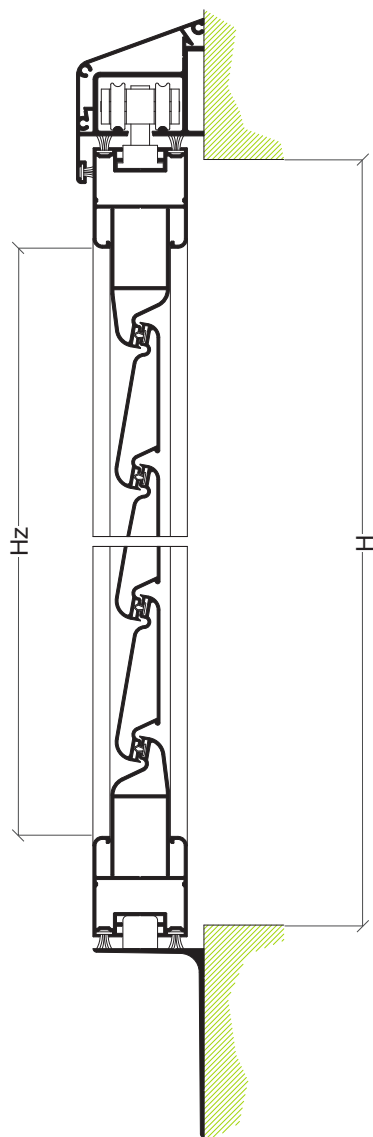
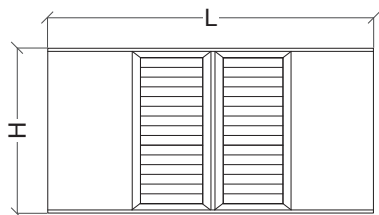
Referência	Descrição	Quantidade
30 94 01 04	Jogo parafusos distanciadores	1
30 94 01 05	Rolamentos portada de correr	2
30 94 01 07	Fecho de embutir portada	1
30 94 01 27	Esquadro de janela	4
30 94 01 34	Fecho superior correr	2
30 94 01 35	Fecho inferior correr	2
30 94 01 36	Tampa lateral	2
30 92 00 41	Terminal fecho	2
---	Jogo portalâminas (segundo altura)	1
30 93 01 40	Vedante lâminas	Nº lâminas + 1 L
30 95 00 10	Pelúcia 7x9 mm	4L+2H+12L

Portalâminas

Hz = H-75 mm



Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-07	Guia superior de correr		1	2L+19 mm
	XP-05	Aro móvel de janela		4	L/2 mm
				4	H+10 mm
	XP-01	Meia lâmina		4	L/2-109 mm
	Z-53	Lâmina		Segundo altura	L/2-99 mm
	AX-19	Vareta		2	Apro. H/2 mm
	XP-06	Tampa da guia superior		1	2L+19 mm
	XP-08	Tampa lateral de correr		2	H+10 mm
	XP-15	Guia inferior de correr		1	2L+19 mm
	XP-17	Perfil de batente		2	H-7 mm

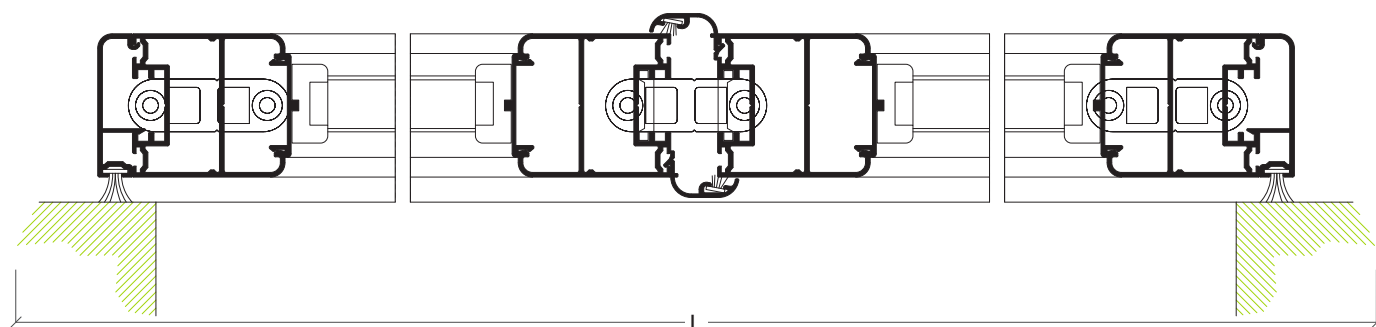
Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 01 04	Jogo parafusos distanciadores	2
30 94 01 05	Rolamentos portada de correr	4
30 94 01 07	Fecho de embutir portada	2
30 94 01 12	Jogo topos para perfil batente	2
30 94 01 27	Esquadro de janela	8
30 94 01 34	Fecho superior correr	3
30 94 01 35	Fecho inferior correr	3
30 94 01 36	Tampa lateral	2
30 92 00 41	Terminal fecho	4
---	Jogo portalâminas (segundo altura)	2
30 93 01 40	Vedante lâminas	Nº lâminas + L/2
30 95 00 10	Pelúcia 7x9 mm	8L/2+4H+12L

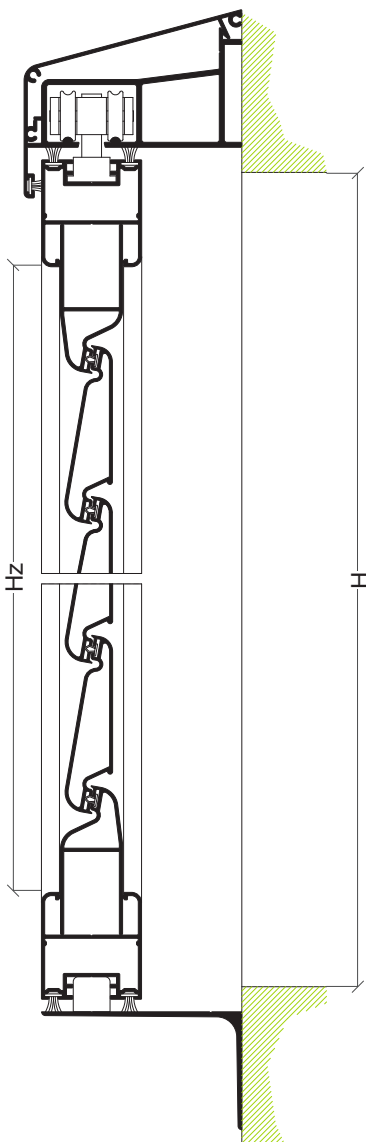
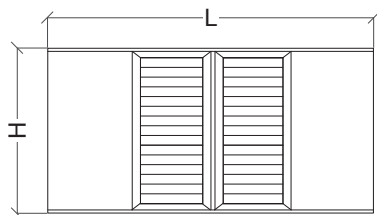
267

Portalâminas

Hz = H-75 mm



Janela 2 folhas correr afastada



Perfis

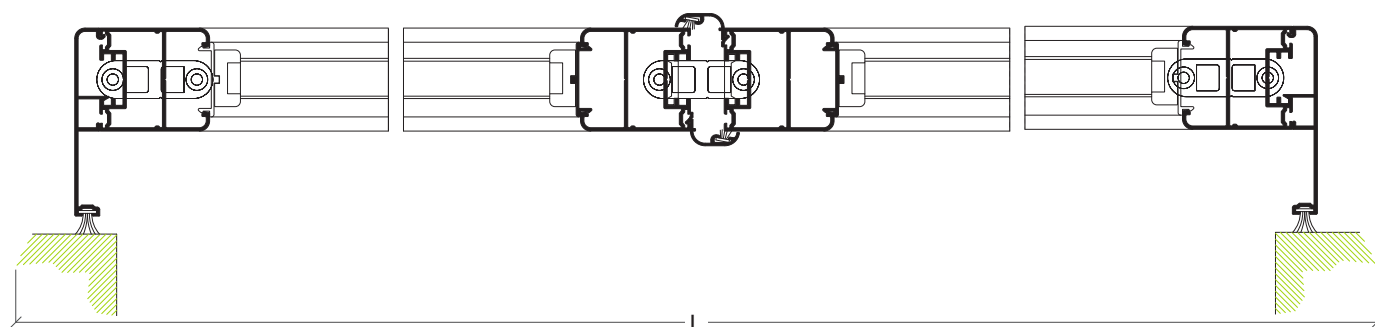
Desenho	Ref	Descrição	Corte	Quant	Medida
	XP-13	Guia superior de correr larga		1	2L+19 mm
	XP-05	Aro móvel de janela		4	L/2 mm
				4	H+10 mm
	XP-01	Meia lâmina		4	L/2-109 mm
	Z-53	Lâmina		Segundo altura	L/2-99 mm
	AX-19	Vareta		2	Apro. H/2 mm
	XP-12	Tampa guia superior larga		2	2L+19 mm
	XP-14	Tampa lateral de correr larga		2	H+10 mm
	XP-15	Guia inferior de correr		1	2L+19 mm
	XP-17	Perfil de batente		2	H-7 mm

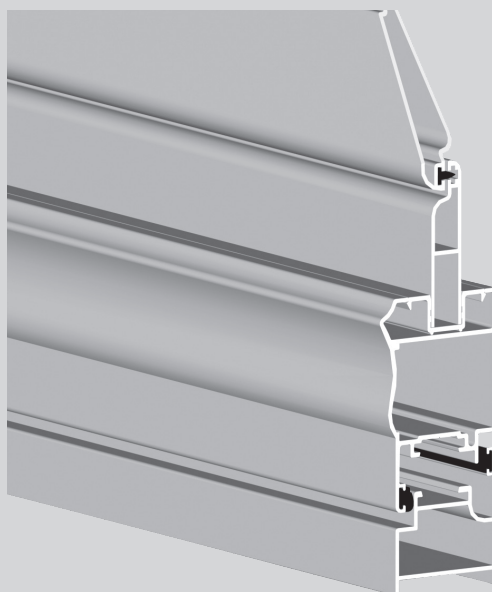
Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 01 04	Jogo parafusos es	2
30 94 01 05	Rolamentos portada de correr	4
30 94 01 07	Fecho de embutir portada	2
30 94 01 12	Jogo topos para perfil batente	2
30 94 01 27	Esquadro de janela	8
30 94 01 34	Fecho superior correr	3
30 94 01 35	Fecho inferior correr	3
30 94 01 36	Tampa lateral	2
30 92 00 41	Terminal fecho	4
---	Jogo portalâminas (segundo altura)	2
30 93 01 40	Vedante lâminas	Nº lâminas + L/2
30 95 00 10	Pelúcia 7x9 mm	8L/2+4H+12L

Portalâminas

Hz = H-75 mm





Sistema
BE

Sistema BE

Sistema de Portadas

Características do sistema

Sistema de portada que oferece a possibilidade de dois tipos de lâminas:

- Lâminas fixas
- Lâminas orientáveis

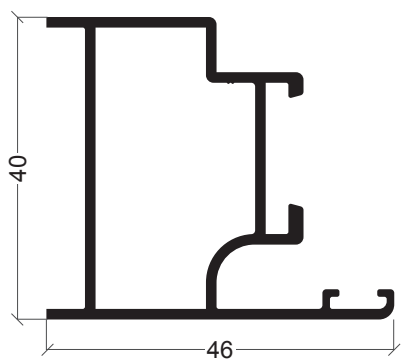
As lâminas orientáveis permitem uma total regulação através de mecanismos de rotação que permitem assim um controle da luminosidade de interior.

Perfis de alumínio

As secções do aro e do móvel são ambas de 40 mm, com uma espessura média dos perfis de alumínio de 1.5 mm.

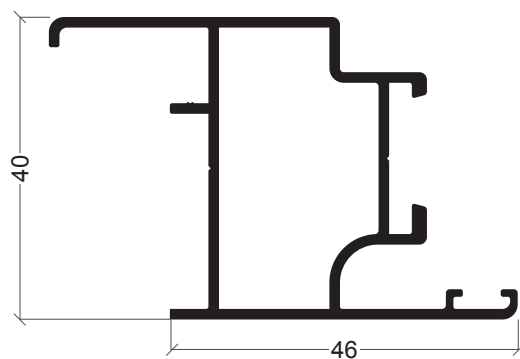
Dimensionamento e manobralidade

Possibilidades de abertura: exterior (1, 2 ,3 e 4 folhas);



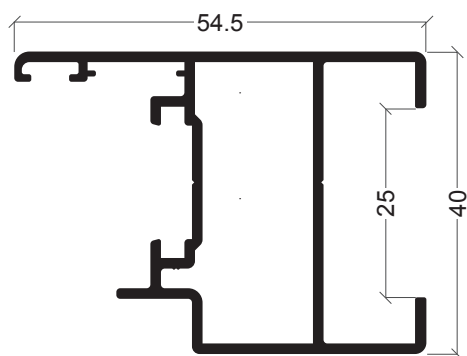
BE-01

Aro fixo



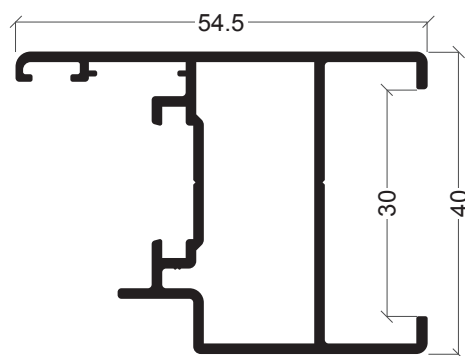
BE-27

Aro fixo com remate



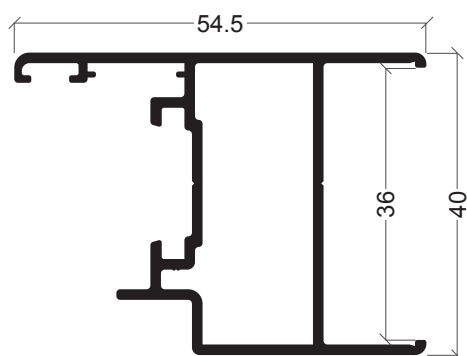
BE-19

Aro móvel caixa 25 mm



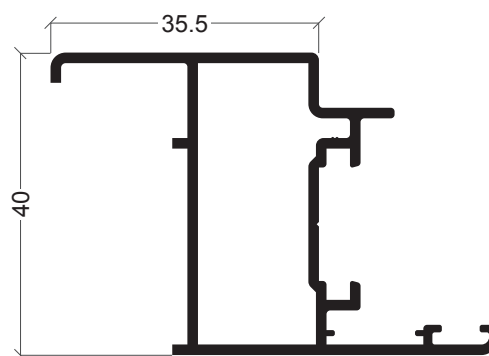
BE-03

Aro móvel caixa 30 mm



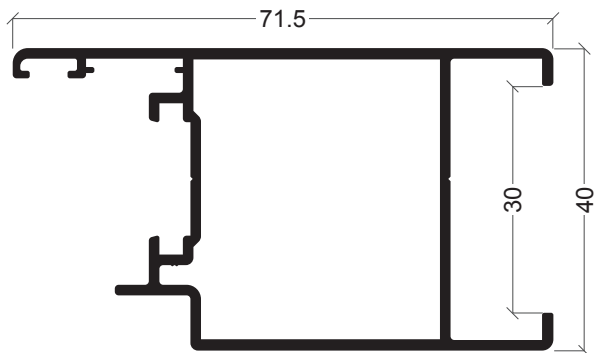
BE-02

Aro móvel caixa 36 mm

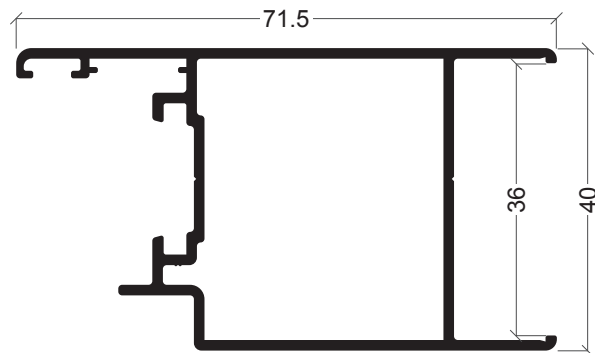


BE-17

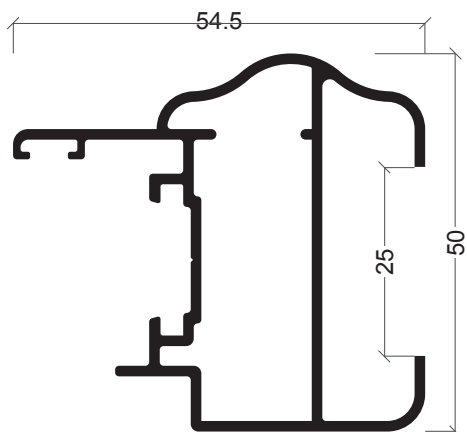
Aro fixo com remate



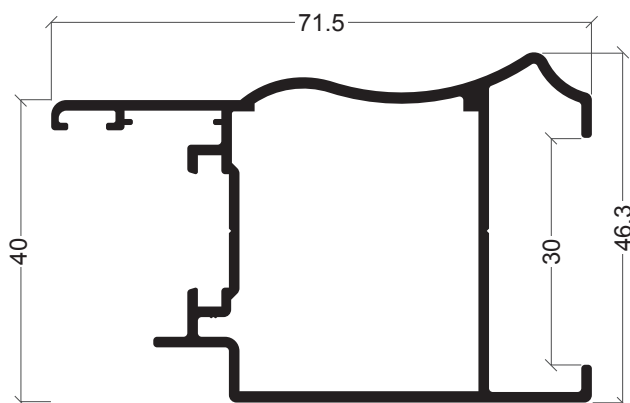
BE-22
Aro móvel caixa 30 mm



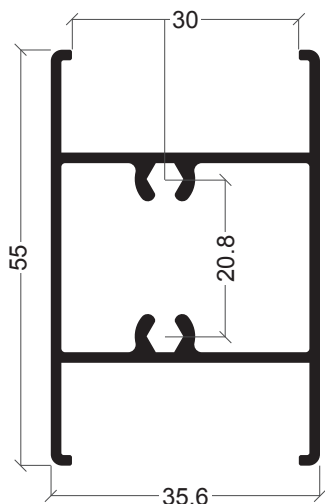
BE-23
Aro móvel caixa 36 mm



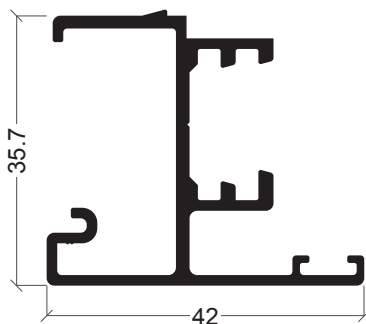
BE-20
Aro móvel decorativo caixa 25 mm



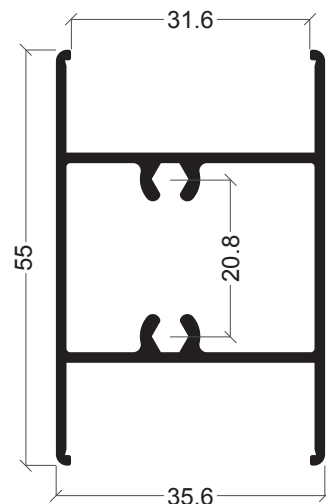
BE-24
Aro móvel decorativo caixa 36 mm



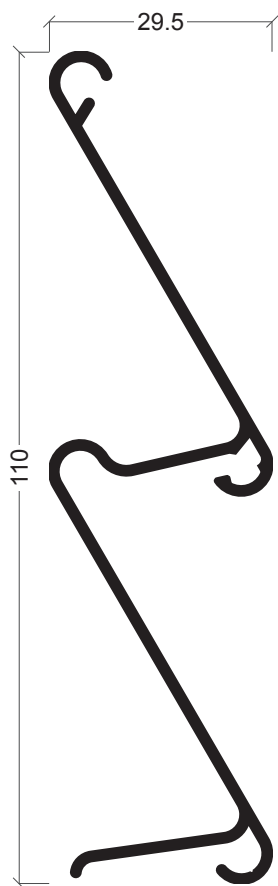
BE-05
Travessa caixa 30 mm



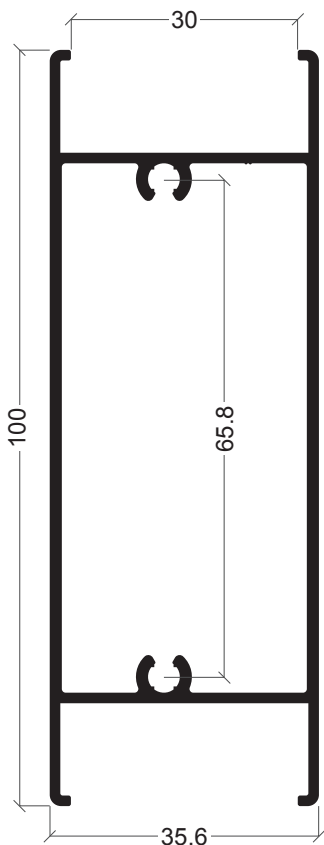
BE-04
Inversor



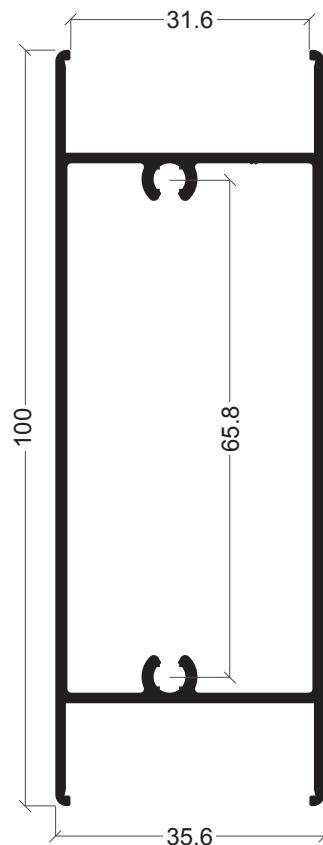
BE-06
Travessa caixa 31.6 mm



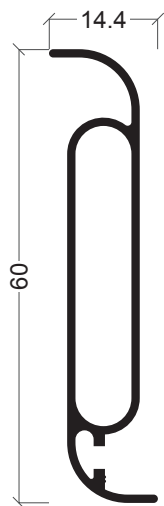
Z-34
Lâmina fixa



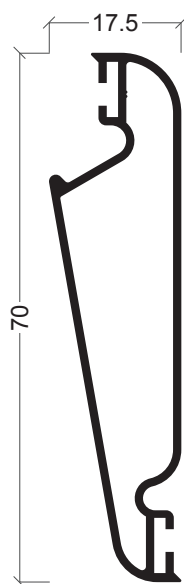
BE-09
Travessa caixa 30 mm



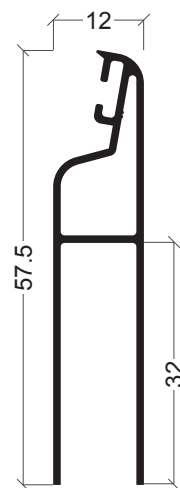
BE-10
Travessa caixa 31.6 mm



Z-52
Lâmina móvel



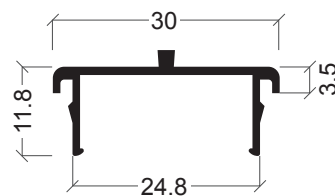
Z-53
Lâmina móvel



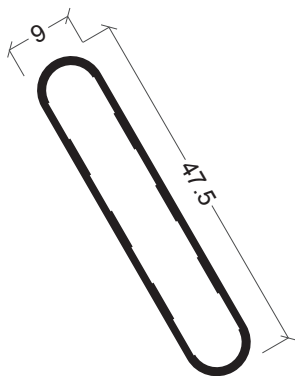
Z-54
Meia lâmina 32 mm



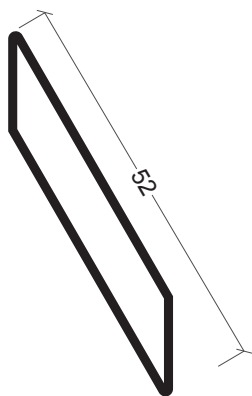
BE-12
Calha fecho



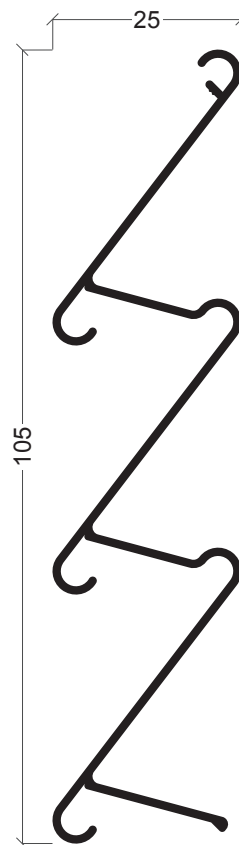
BE-18
Calha comando



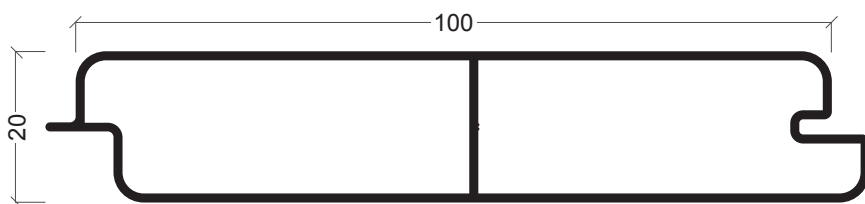
Z-35
Lâmina fixa



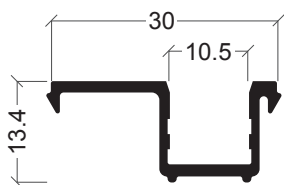
Z-40
Lâmina fixa



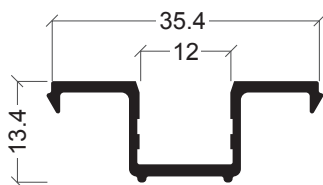
Z-20
Lâmina fixa



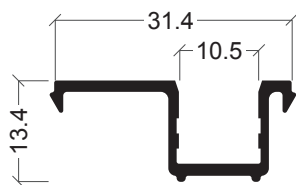
W-25
Lâmina de encaixe 100 x 20



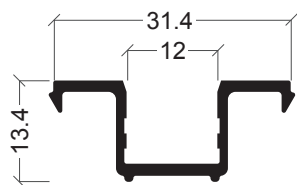
BE-26
Calha fecho



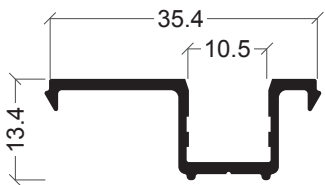
BE-15
Compensador



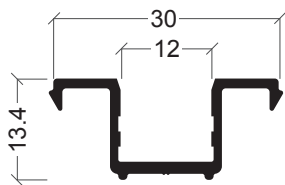
BE-11
Compensador



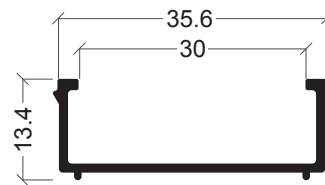
BE-16
Compensador



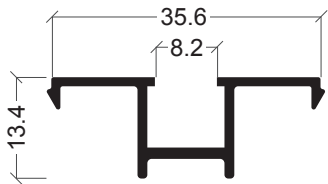
BE-08
Compensador



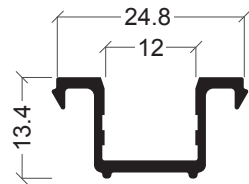
BE-25
Compensador



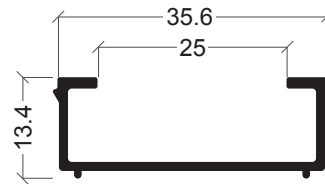
BE-14
Redutor



BE-07
Compensador

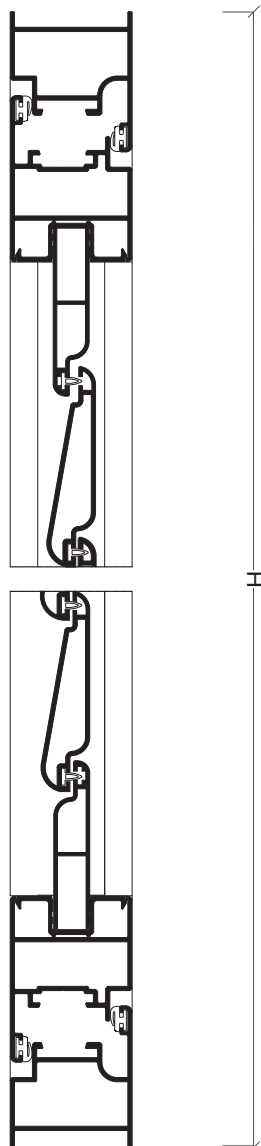
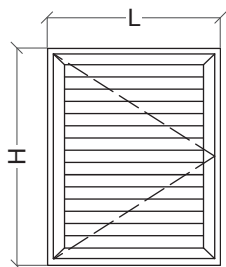


BE-21
Compensador




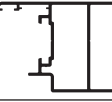






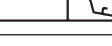





BE-13
Redutor

Janela 1 folha abertura exterior



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	BE-01	Aro fixo		2	L
				2	H
	BE-02	Aro móvel		2	L-55 mm
				2	H-55 mm
	BE-15	Compensador		2	L-164 mm
	Z-53	Lâmina		Segundo altura	L-184 mm
	Z-54	Meia lâmina		2	L-184 mm
	AX-19	Vareta		2	Apro. H/2 mm

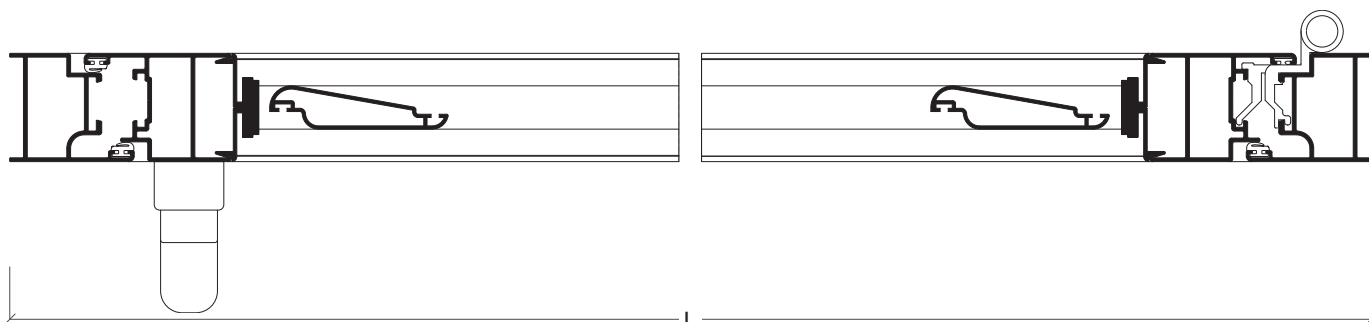
Acessórios e Juntas

Referência	Descrição	Quantidade
---	Dobradiça aro fixo	3
31 02 70 01	Esquadro janela	8
30 94 01 38	Cremona abertura exterior	1
30 94 01 39	Kit fixação cremona	1
30 94 01 40	Parafuso de ligação	2
30 92 00 40	Terminal de fecho	2
---	Contra-fecho aro fixo	2
30 96 00 22	Esquadro alinhamento	4
30 94 01 09	Fixador de portada	1
---	Jogo portalaminas (segundo altura)	1
30 92 09 60	Comando rotativo	1
31 02 60 50	Junta de batente	4L+4H
30 93 01 40	Junta para lamina	(nº laminas + 1) L

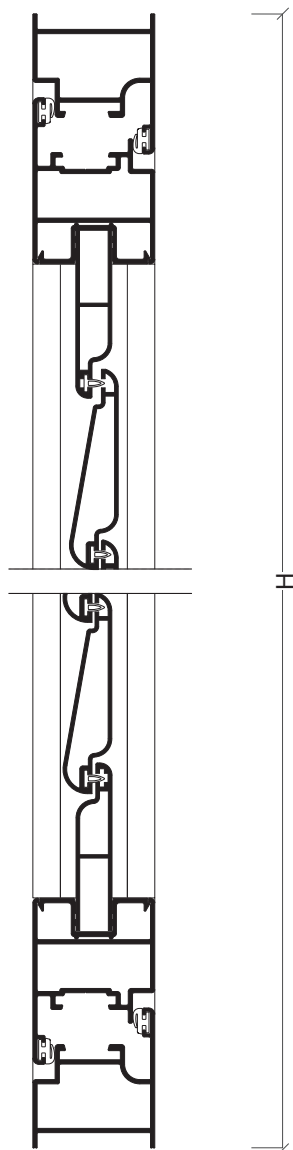
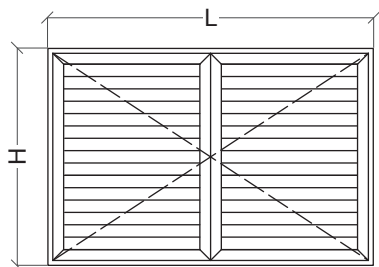
275

Portalâminas


Hv = H-164 mm



Janela 2 folhas abertura exterior



Perfis

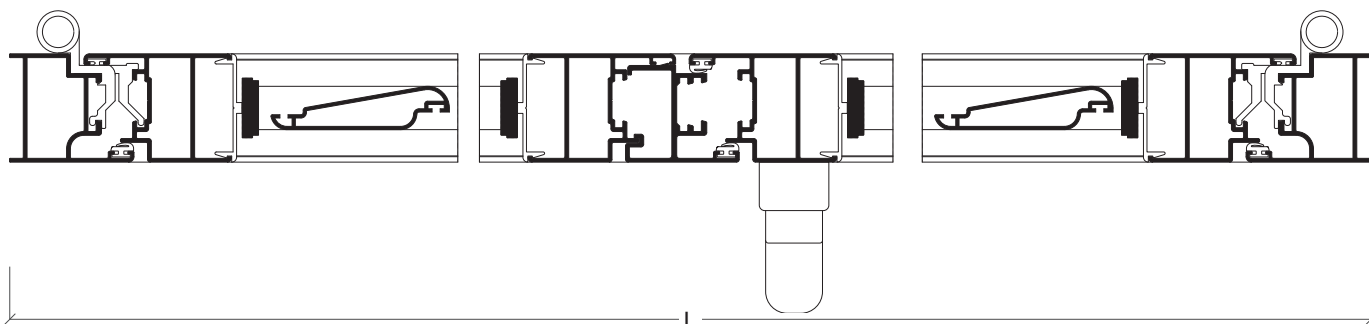
Desenho	Ref	Descrição	Corte	Quant	Medida
	BE-01	Aro fixo		2	L
				2	H
	BE-02	Aro móvel		4	L/2-30 mm
				4	H-55 mm
	BE-04	Inversor		1	H-102 mm
	BE-15	Compensador		4	L/2-139 mm
	Z-53	Lâmina		Segundo altura	L/2-159 mm
	Z-54	Meia lâmina		4	L/2-159 mm
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

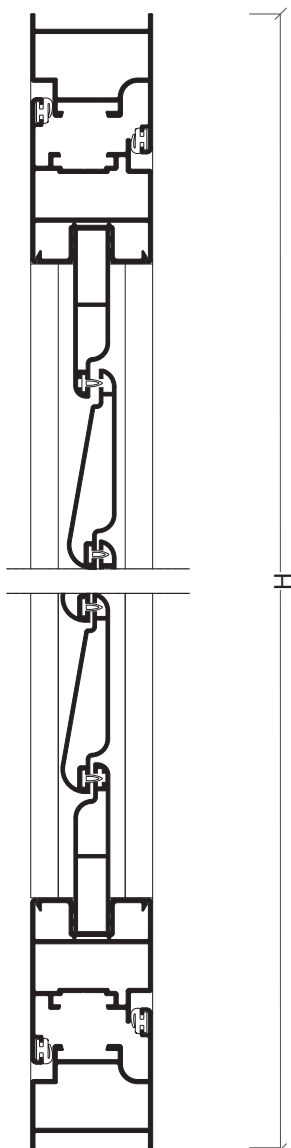
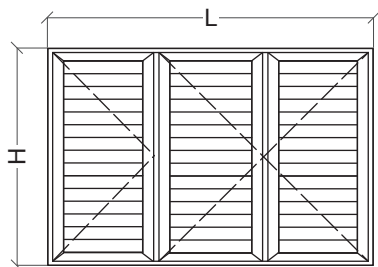
Referência	Descrição	Quantidade
---	Dobradiça aro fixo	6
31 02 70 01	Esquadro janela	12
30 94 01 38	Cremona abertura exterior	1
30 94 01 39	Kit fixação cremone	1
30 94 01 40	Parafuso de ligação	2
30 92 00 40	Terminal de fecho	2
31 02 60 04	Jogo topos	1
30 92 01 20	Fecho 2ª folha	1
30 96 00 22	Esquadro alinhamento	8
---	Contra-fecho aro fixo	2
30 94 01 09	Fixador de portada	2
---	Jogo portalaminas (segundo altura)	2
30 92 09 60	Comando rotativo	2
31 02 60 50	Junta de batente	4L+6H
30 93 01 40	Junta para lamina	(nº laminas + 2) L/2

Portalaminas

Hv = H-164 mm



Janela 3 folhas abertura exterior



Perfis

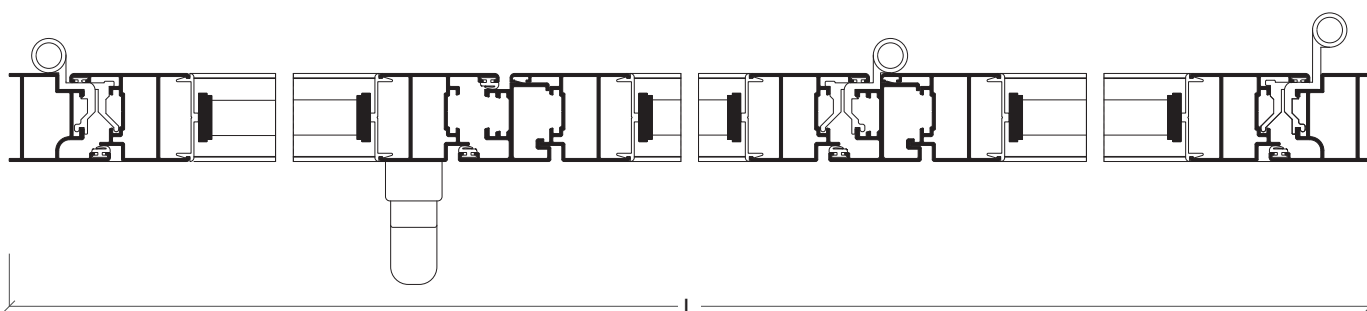
Desenho	Ref	Descrição	Corte	Quant	Medida
	BE-01	Aro fixo		2	L
				2	H
	BE-02	Aro móvel		4	Lat. = L/3 mm
				2	Centr. = L/3-65 mm
				6	H-55 mm
	BE-04	Inversor		2	H-102 mm
	BE-15	Compensador		4	Lat. = L/3-109 mm
				2	Centr. = L/3-174 mm
	Z-53	Lâmina		Segundo altura	Lat. = L/3-129 mm
				Segundo altura	Centr. = L/3-194 mm
	Z-54	Meia lâmina		4	Lat. = L/3-129 mm
				2	Centr. = L/3-194 mm
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

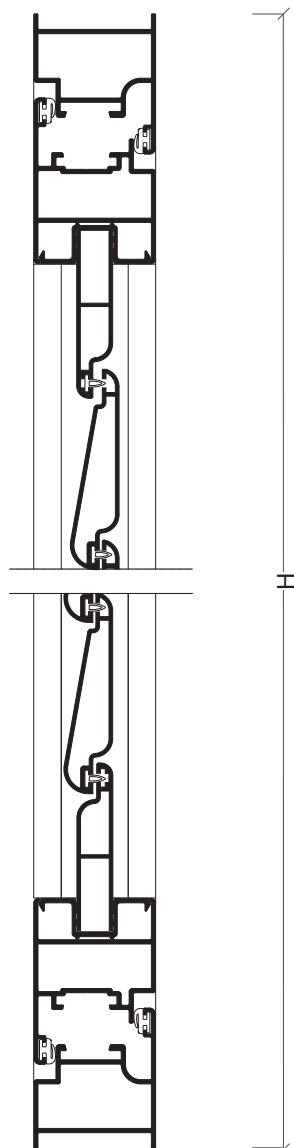
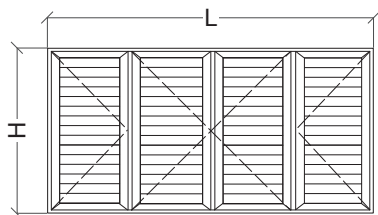
Referência	Descrição	Quantidade
---	Dobradiça aro fixo	6
---	Dobradiça de balanço aro fixo	3
31 02 70 01	Esquadro janela	16
30 94 01 38	Cremona abertura exterior	1
30 94 01 39	Kit fixação cremona	1
30 94 01 40	Parafuso de ligação	2
30 92 00 40	Terminal de fecho	2
31 02 60 04	Jogo topos	2
30 92 01 20	Fecho 2ª folha	2
30 96 00 22	Esquadro alinhamento	12
---	Contra-fecho aro fixo	4
30 94 01 09	Fixador de portada	1
30 94 01 10	Fixador de portada duplo	1
---	Jogo portalaminas (segundo altura)	3
30 92 09 60	Comando rotativo	3
31 02 60 50	Junta de batente	4L+8H
30 93 01 40	Junta para lamina	(nº laminas + 3) L/3

Portalâminas

Hv = H-164 mm



Janela 4 folhas abertura exterior



Perfis

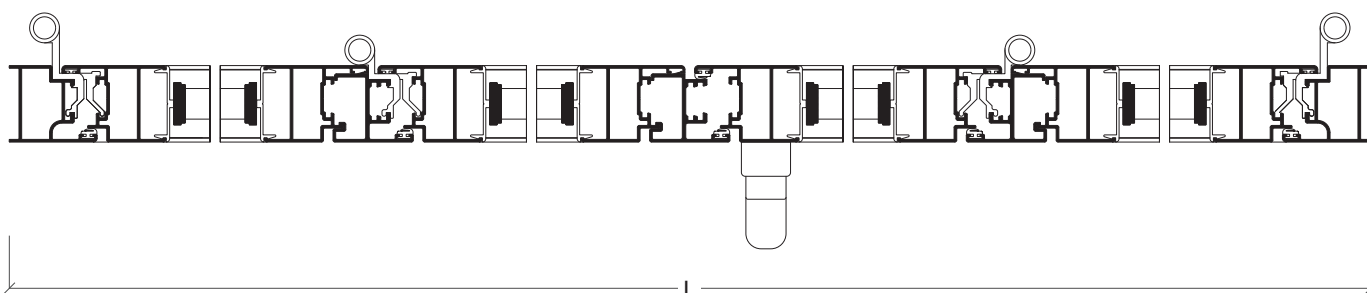
Desenho	Ref	Descrição	Corte	Quant	Medida
	BE-01	Aro fixo		2	L
				2	H
	BE-02	Aro móvel		4	Lat. = L/4+10 mm
				4	Centr. = L/4-45 mm
				8	H-55 mm
	BE-04	Inversor		3	H-102 mm
	BE-15	Compensador		4	Lat. = L/4-119 mm
				4	Centr. = L/4-154 mm
	Z-53	Lâmina		Segundo altura	Lat. = L/4-139 mm
				Segundo altura	Centr. = L/4-174 mm
	Z-54	Meia lâmina		4	Lat. = L/4-139 mm
				4	Centr. = L/4-174 mm
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

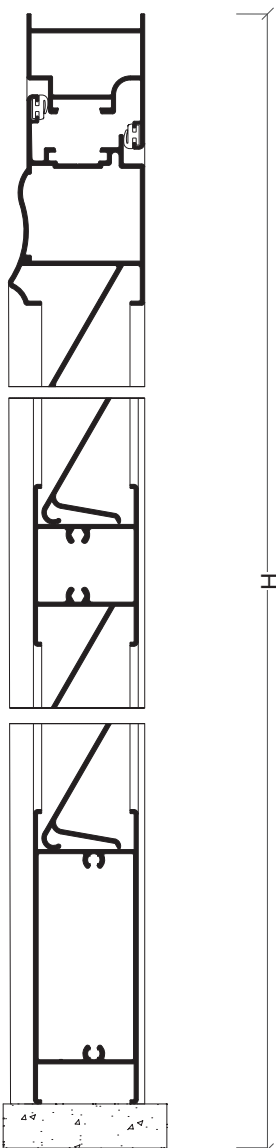
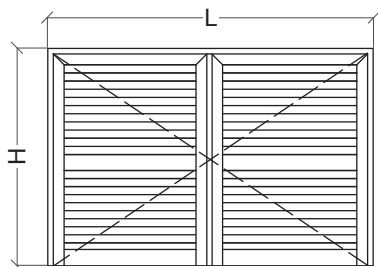
Referência	Descrição	Quantidade
---	Dobradiça aro fixo	6
---	Dobradiça de balanço aro fixo	6
31 02 70 01	Esquadro janela	20
30 94 01 38	Cremona abertura exterior	1
30 94 01 39	Kit fixação cremona	1
30 94 01 40	Parafuso de ligação	2
30 92 00 40	Terminal de fecho	2
31 02 60 04	Jogo topos	3
30 92 01 20	Fecho 2ª folha	3
30 96 00 22	Esquadro alinhamento	16
---	Contra-fecho aro fixo	6
30 94 01 10	Fixador de portada duplo	2
---	Jogo portalaminas (segundo altura)	4
30 92 09 60	Comando rotativo	4
31 02 60 50	Junta de batente	4L+10H
30 93 01 40	Junta para lamina	(nº laminas + 4) L/4

Portalâminas

Hv = H-164 mm



Porta 2 folhas abertura exterior



Perfis

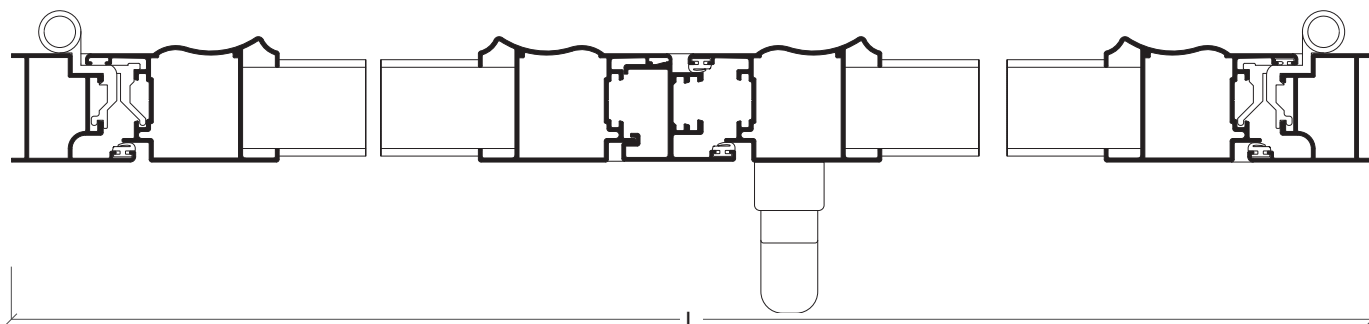
Desenho	Ref	Descrição	Corte	Quant	Medida
	BE-01	Aro fixo		1	L
				2	H
	BE-24	Aro móvel		2	L/2-30 mm
				4	H-33 mm
	BE-04	Inversor		1	H-156 mm
	BE-05	Travessa 55 mm		2	(L-146 mm)/2
	BE-09	Travessa 100 mm		2	(L-146 mm)/2
	Z-34	Lâmina fixa		Segundo altura	(L-146 mm)/2
	AX-19	Vareta		2	Apro. H/2 mm

Acessórios e Juntas

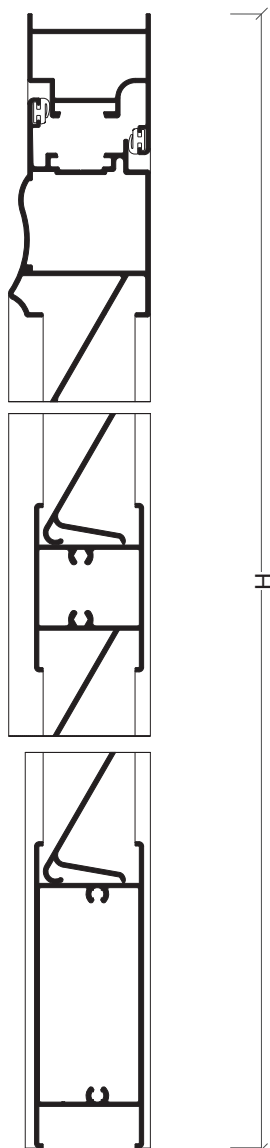
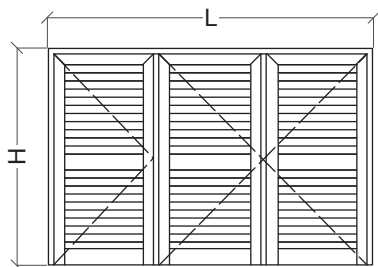
Referência	Descrição	Quantidade
---	Dobradiça aro fixo	8
31 02 70 01	Esquadro janela	2
31 02 70 02	Esquadro porta	4
30 94 01 38	Cremona abertura exterior	1
30 94 01 39	Kit fixação cremona	1
30 94 01 40	Parafuso de ligação	2
30 92 00 40	Terminal de fecho	2
31 02 60 04	Jogo topos	1
30 92 01 20	Fecho 2ª folha	1
30 96 00 22	Esquadro alinhamento	4
---	Contra-fecho aro fixo	1
30 94 01 09	Fixador de portada	2
30 24 30 75	Contra-fecho inferior	1
31 02 60 50	Junta de batente	2L+6H

Portalâminas

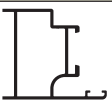

Hv = H-164 mm



Porta 3 folhas abertura exterior



Perfis

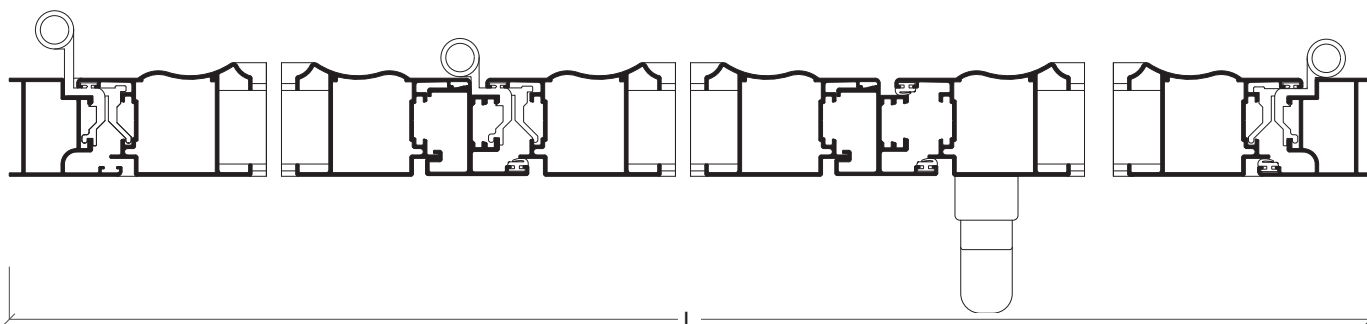
Desenho	Ref	Descrição	Corte	Quant	Medida
	BE-01	Aro fixo		1	L
				2	H
	BE-24	Aro móvel		2	Lat. = L/3 mm
				1	Centr. = L/3-67 mm
				6	H-33 mm
	BE-04	Inversor		2	H-56 mm
	BE-05	Travessa 55 mm		2	Lat. = L/3-116 mm
				1	Centr. = L/3-183 mm
	BE-09	Travessa 100 mm		2	Lat. = L/3-116 mm
				1	Centr. = L/3-183 mm
	Z-34	Lâmina fixa		Segundo altura	Lat. = L/3-116 mm
				Segundo altura	Centr. = L/3-183 mm
	AX-19	Vareta		2	Apro. H/2 mm

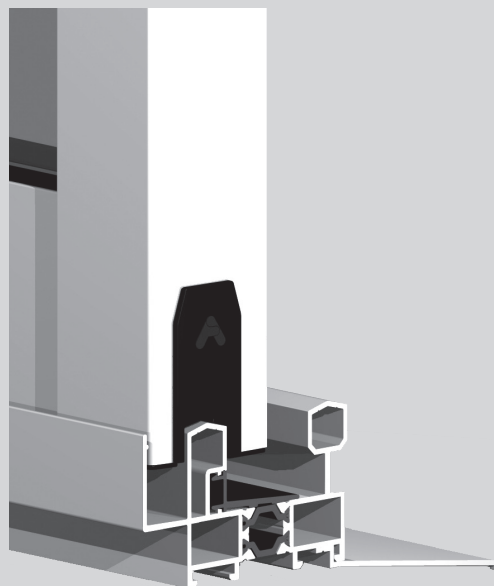
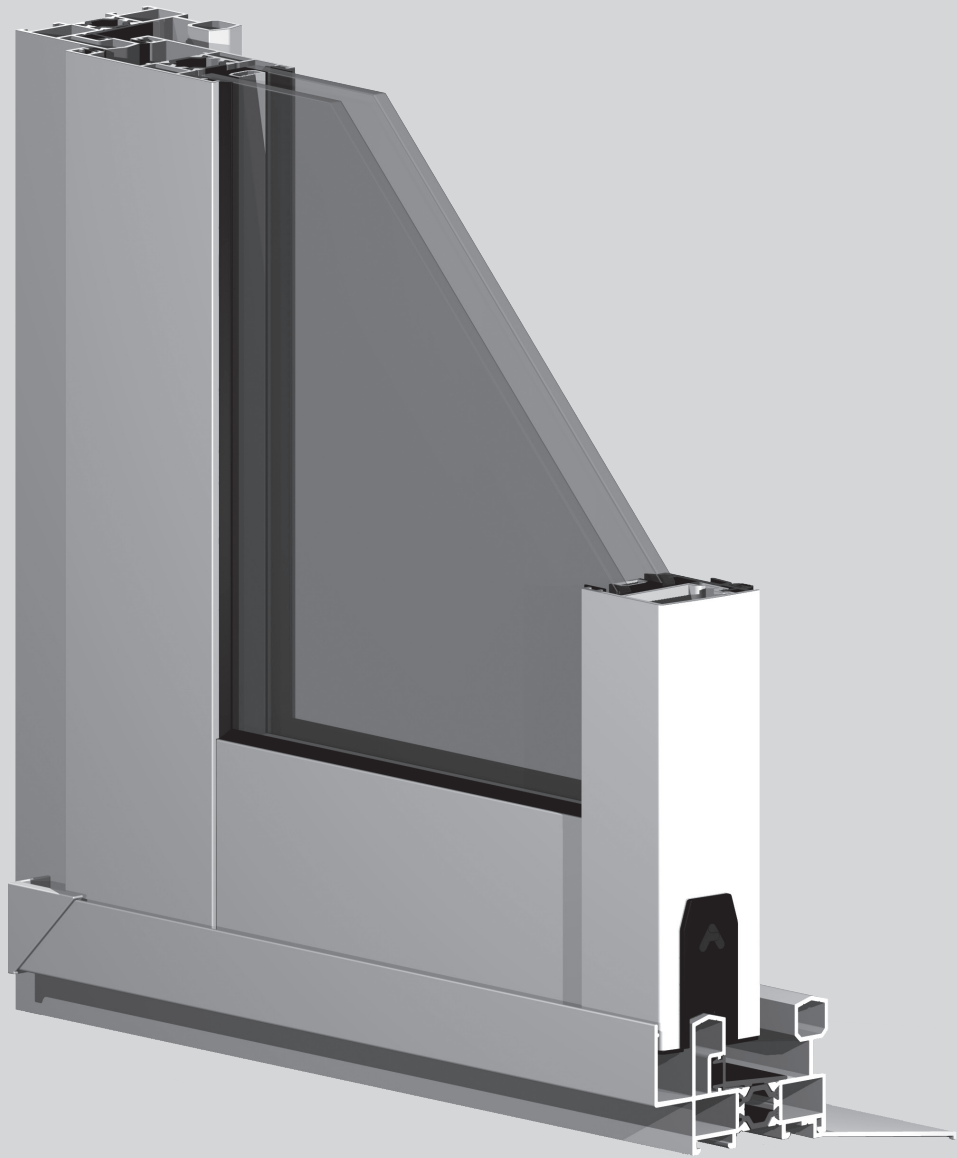
Acessórios e Juntas

Referência	Descrição	Quantidade
---	Dobradiça aro fixo	8
---	Dobradiça de balanço aro fixo	4
31 02 70 01	Esquadro janela	2
31 02 70 02	Esquadro porta	6
30 94 01 38	Cremona abertura exterior	1
30 94 01 39	Kit fixação cremone	1
30 94 01 40	Parafuso de ligação	2
30 92 00 40	Terminal de fecho	2
31 02 60 04	Jogo topos	2
30 92 01 20	Fecho 2ª folha	2
30 96 00 22	Esquadro alinhamento	6
---	Contra-fecho aro fixo	2
30 94 01 09	Fixador de portada	1
30 94 01 10	Fixador de portada duplo	1
30 24 30 75	Contra-fecho inferior	2
31 02 60 50	Junta de batente	2L+6H

Portalâminas

Hv = H-164 mm





Sistema

CT

Sistema CT

Sistema de correr com RPT - 60 mm

Características do sistema

Sistema de alumínio com rotura térmica para execução de vãos de correr.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Os perfis com rotura térmica são obtidos por inserção de varetas isolantes de poliamida 6.6 mm reforçadas com 25% de fibra de vidro. Versátil sistema de rotura térmica com aros e folhas perimetrais ou de corte recto designado por Benelux, é o sistema indicado para as inovadoras soluções arquitectónicas da actualidade.

Espessura média dos perfis de alumínio de 1.5 mm.

Aros fixos

Secção do aro fixo perimetral de 2 guias de 60 mm para montagem a meia esquadria;

Perfis com rotura térmica obtida por inserção de varetas isolantes de poliamida de 14.6 mm ou 18 mm;

Perfil guia de deslizamento inferior em aço inoxidável 304 ou em poliamida, para evitar desgaste das peças.

Aros móveis

Secção dos aros móveis perimetrais de 33.1 mm para montagem a meia esquadria;

Enchimento de 18 mm a 26 mm;

Aros móveis de linha recta ou curva com ou sem bite;

Estanquidade assegurada através de junta em TPE e/ou pelúcia tipo Sin-Feal.

Dimensionamento e manobralidade

Peso máximo de 150 kg por folha (com 2 rolamentos duplos);

Possibilidades de abertura: 2, 3, 4 e 6 folhas com folhas móveis e/ou fixas;

Rolamento duplo oscilante com regulação;

Rolamentos de agulhas inox com eixo temperado rectificando sendo possível a substituição sem desmontagem da folha;

Suporte exterior com tratamento cataforese (anti-corrosivo);

Abertura do vão com fecho lateral ou ferragem multi-ponto com 2 ou 4 pontos de fecho.

Performances

Sistema certificado por laboratório notificado do ensaio tipo inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CT tipologia janela:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema CT tipologia porta:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)

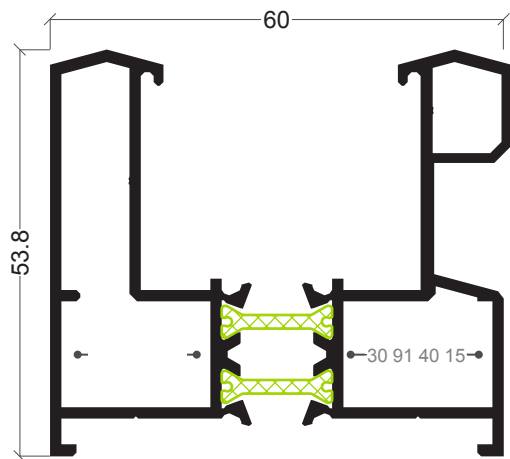
Coefficiente de transmissão térmica de vão de 2 folhas com 1.80 m x 2.20 m com vidro $U_g = 1.0 \text{ W/m}^2\text{K}$ com intercalar efeito "Warm Edge":

• $U_w = 1.91 \text{ W/m}^2\text{K}$

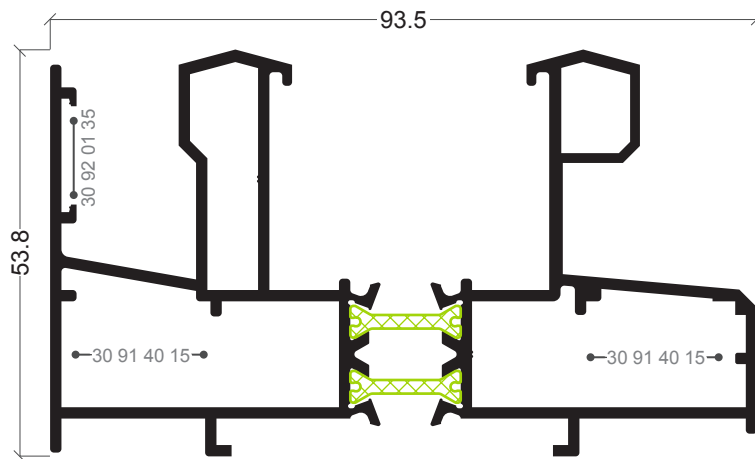
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 6/14/33.1 acústico:

• $R_w (C; C_{tr}) = 34 \text{ dB} (-1; -6)$

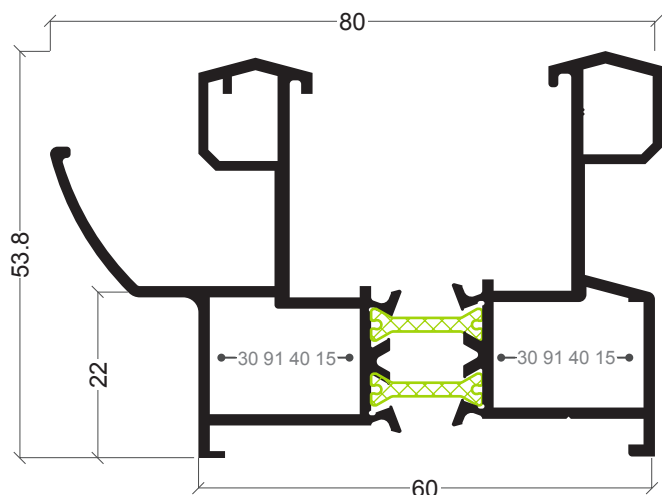
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



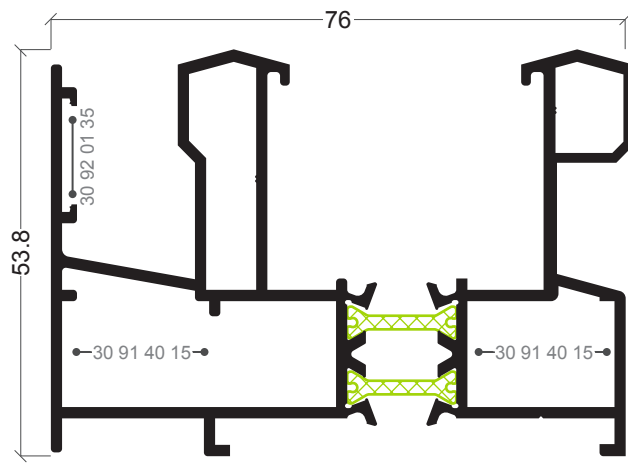
CT-01
Aro fixo perimetral



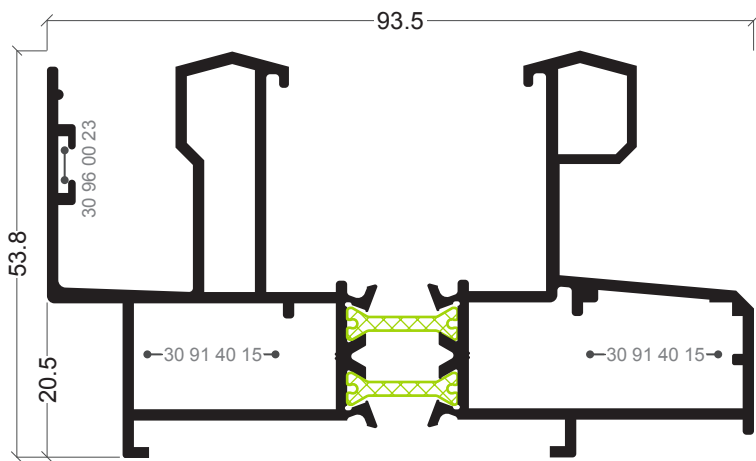
CT-16
Aro fixo perimetral



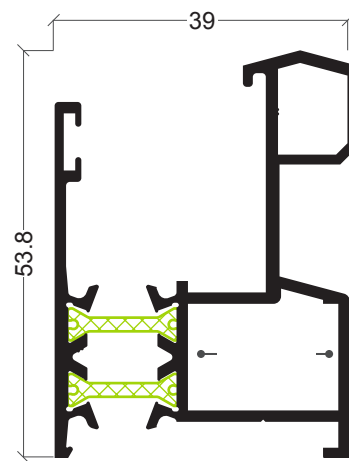
CT-15
Aro fixo perimetral



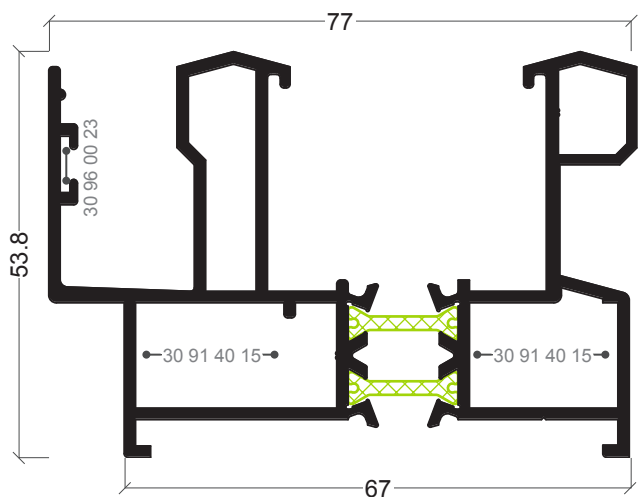
CT-22
Aro fixo perimetral



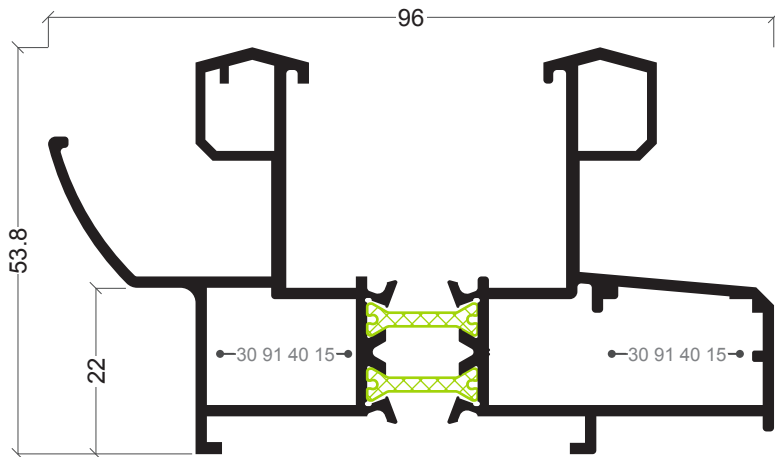
CT-17
Aro fixo perimetral



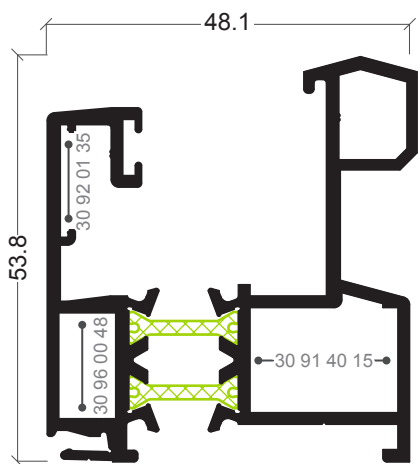
CT-59
Aro fixo perimetral mono-rail



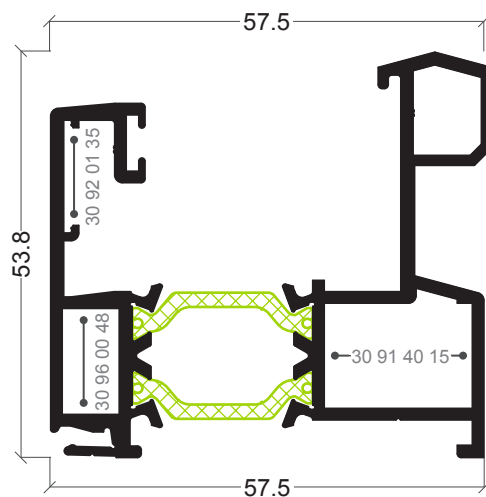
CT-60
Aro fixo perimetral



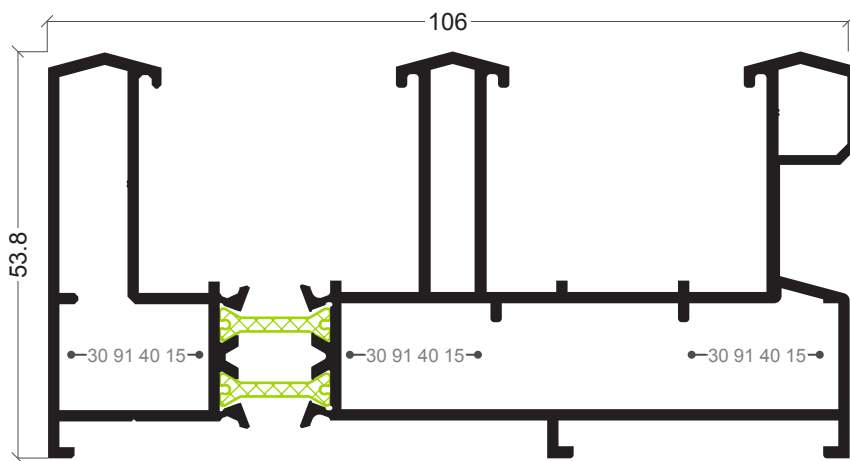
CT-20
Aro fixo perimetral



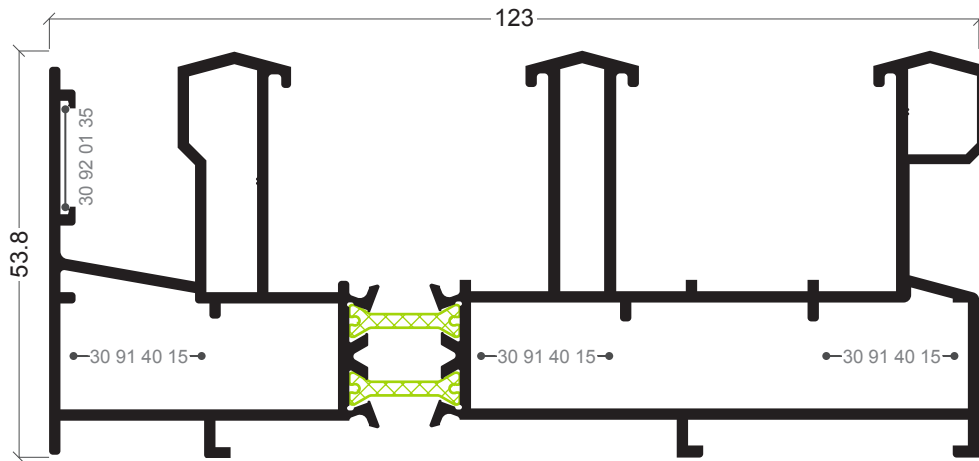
CT-66
Aro fixo monorail



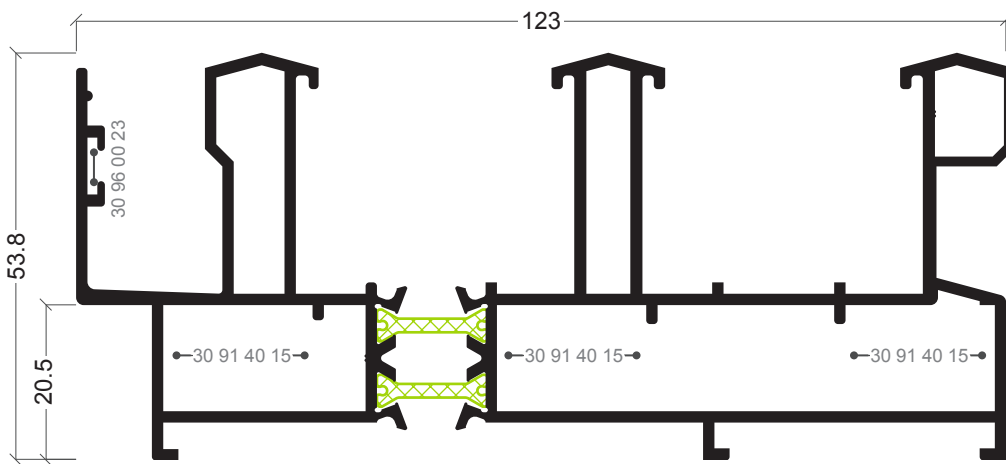
CT-70
Aro fixo monorail galandage



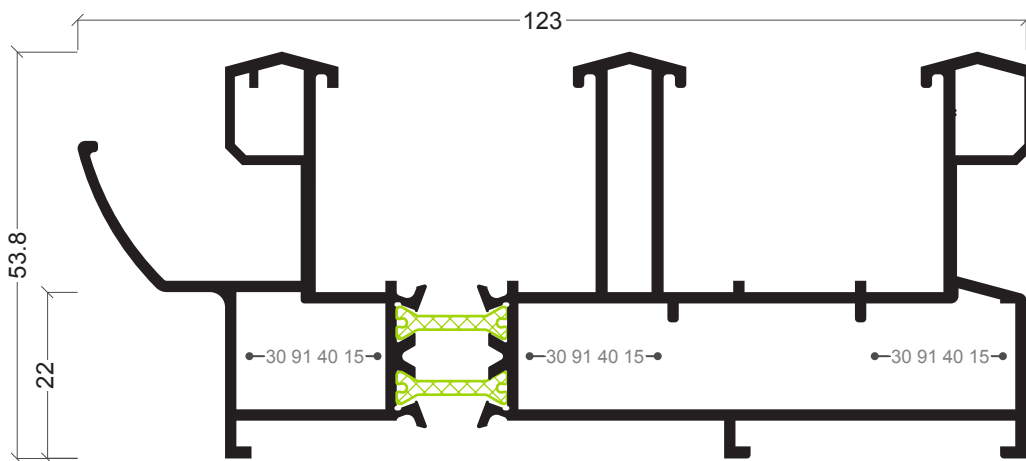
CT-14
Aro fixo perimetral tri-rail



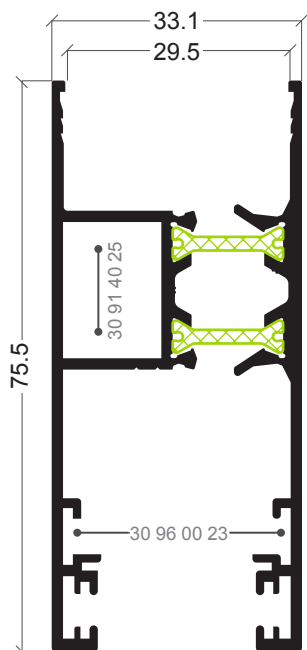
CT-18
Aro fixo perimetral tri-rail



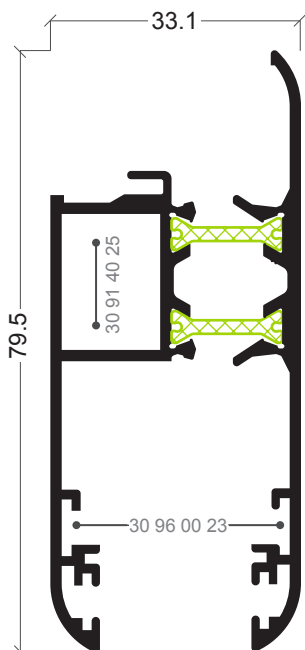
CT-19
Aro fixo perimetral tri-rail



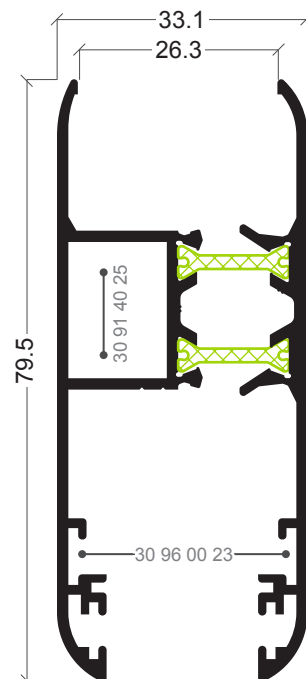
CT-21
Aro fixo perimetral tri-rail



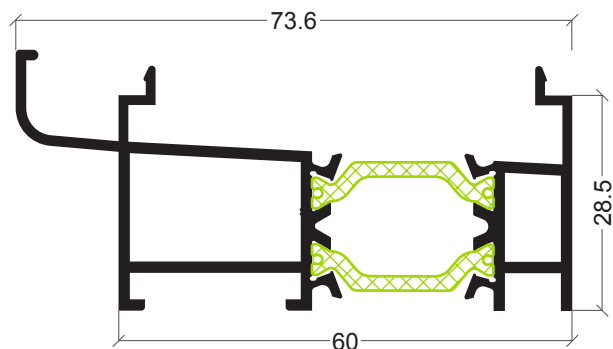
CT-53
Aro fixo perimetral recto



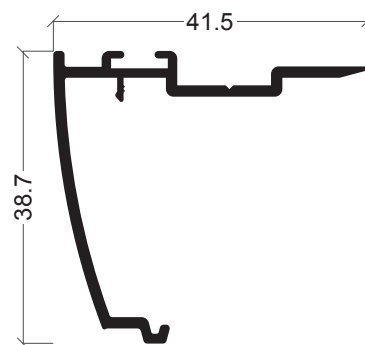
CT-02
Aro móvel perimetral c/ bite



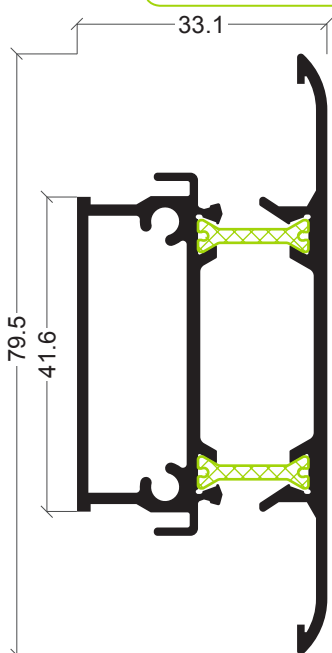
CT-12
Aro móvel perimetral



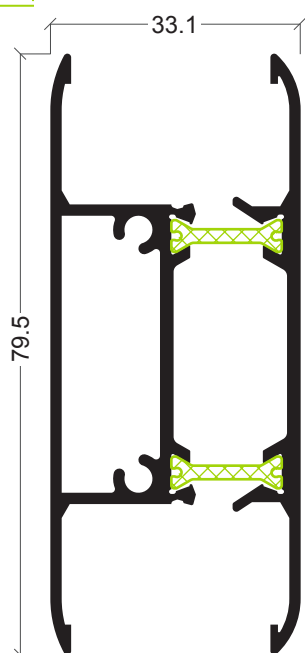
CT-11
Soleira condensação



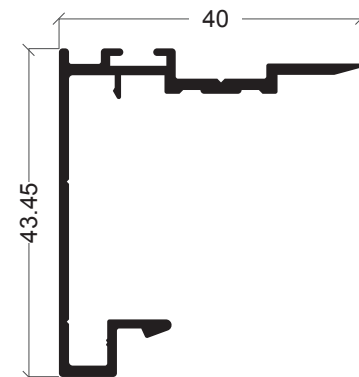
CT-06
Tampa cruzamento aro móvel



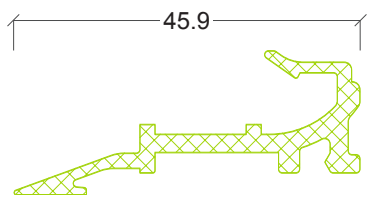
CT-04
Travessa com bite



CT-13
Travessa sem bite

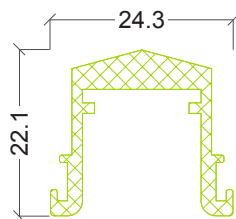


CT-54
Tampa cruzamento aro móvel recto



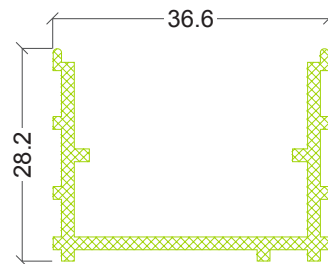
CT-08

Cruzamento móvel



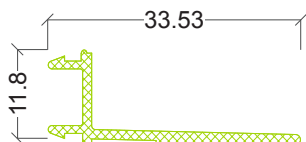
CT-10

União 3/4 folhas CT-02/12



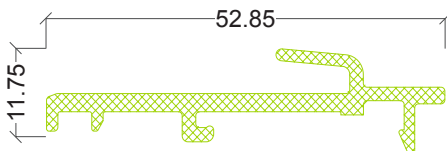
CT-09

Tampa aro fixo perimetral



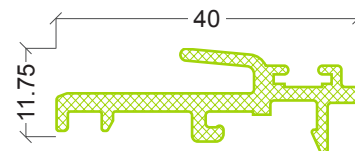
CT-23

Tampa aro fixo perimetral



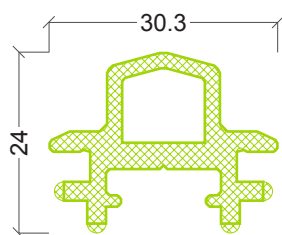
CT-26

Cruzamento móvel



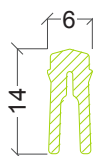
CT-25

Cruzamento móvel



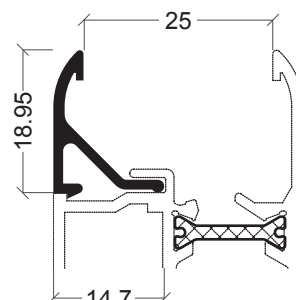
CT-24

União 3/4 folhas CT-35/53



CT-71

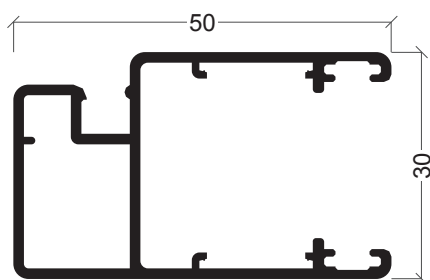
Guia carril (poliamida)



CT-05

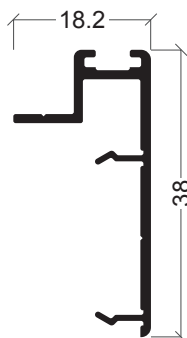
Bite

287



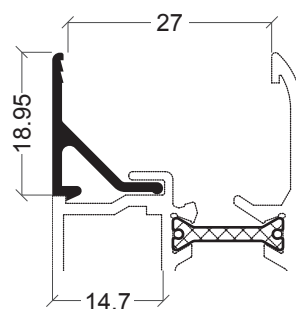
CT-73

Perfil para rede mosquiteira



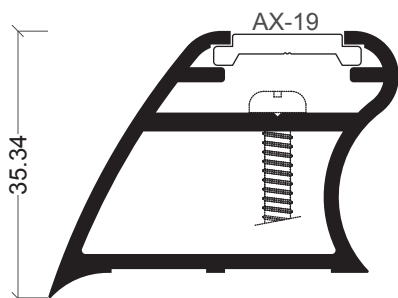
CT-74

Tampa



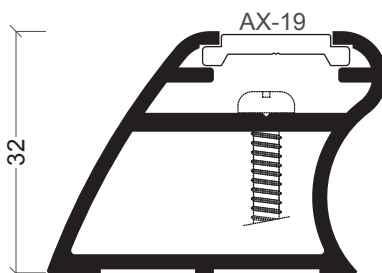
CT-40

Bite



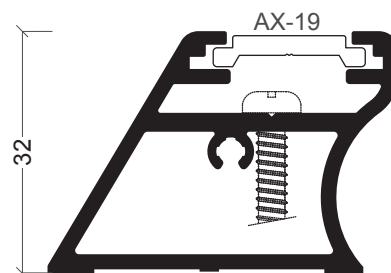
CT-03

Reforço



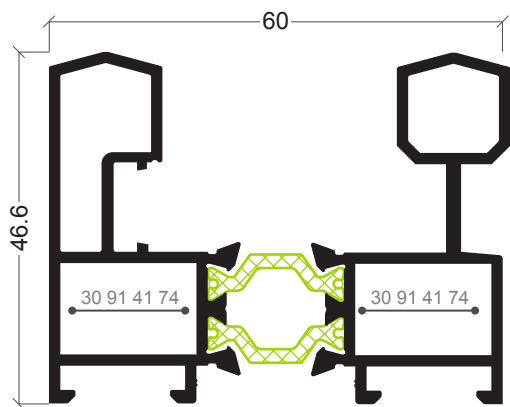
CT-27

Reforço

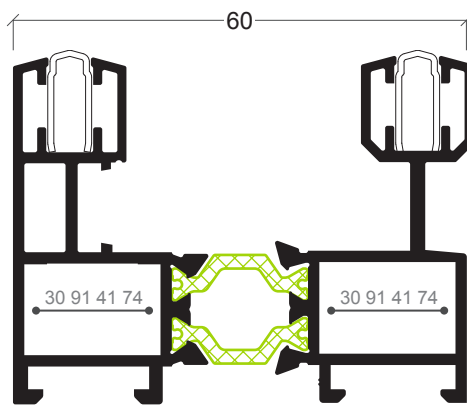


CT-28

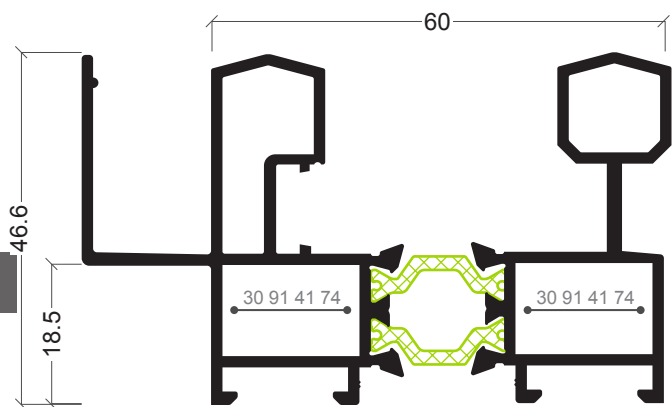
Reforço



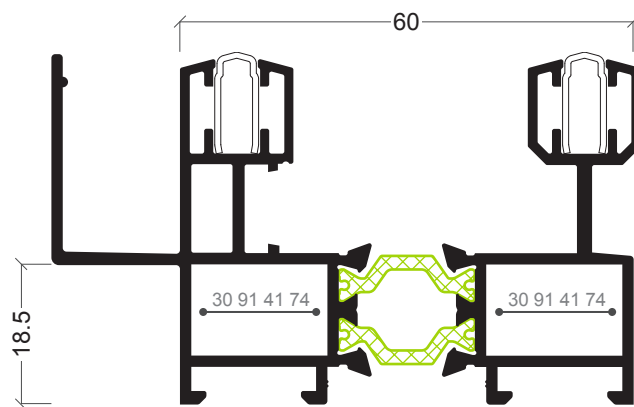
CT-41
Aro fixo perimetral



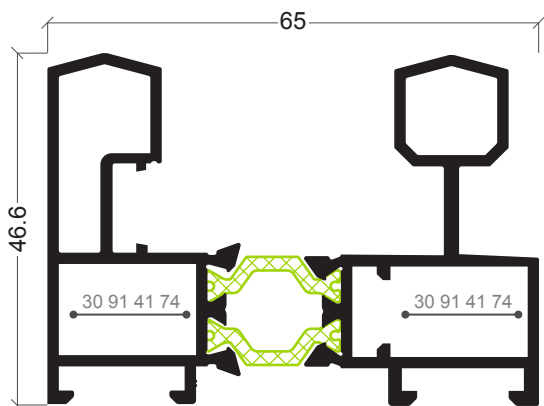
CT-42
Aro fixo perimetral



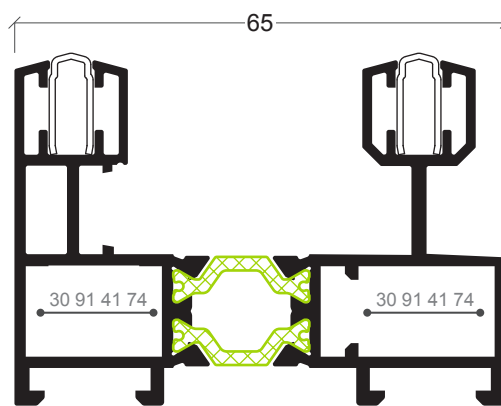
CT-43
Aro fixo perimetral



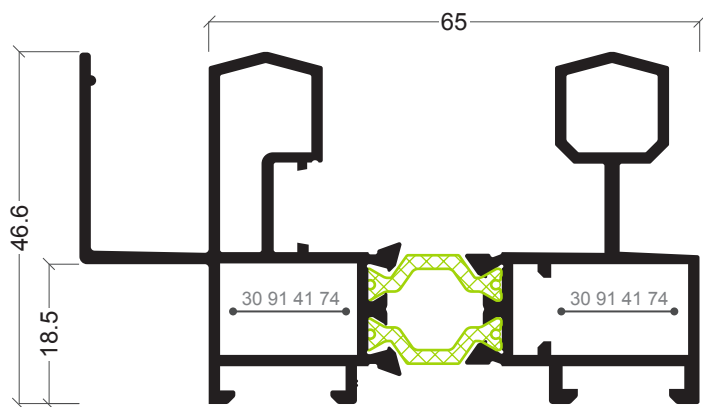
CT-44
Aro fixo perimetral



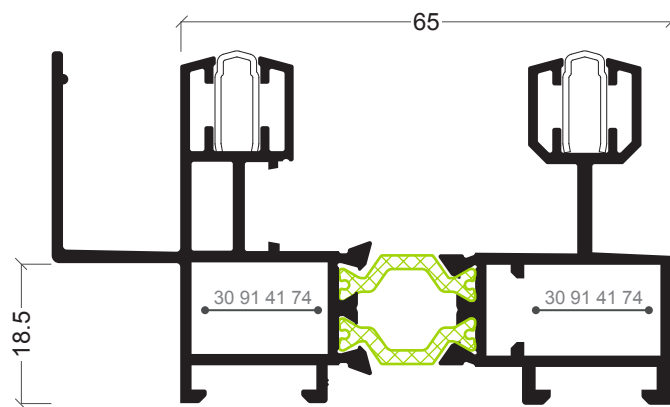
CT-45
Aro fixo perimetral



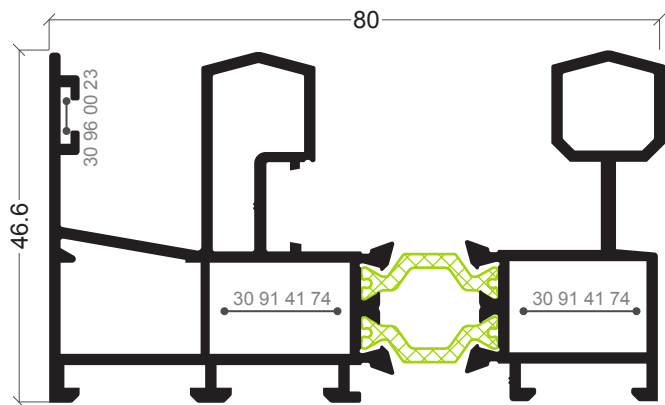
CT-46
Aro fixo perimetral



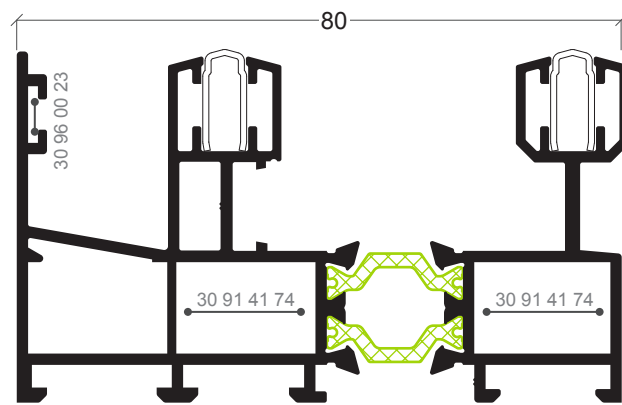
CT-47
Aro fixo perimetral



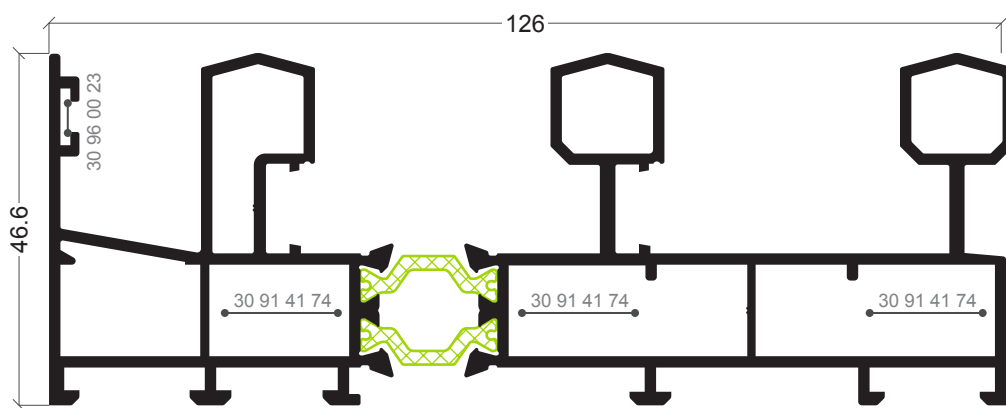
CT-48
Aro fixo perimetral



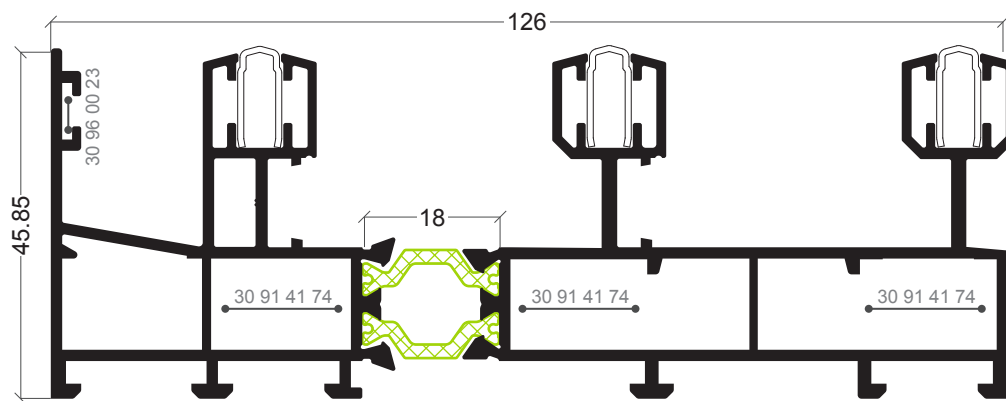
CT-49
Aro fixo perimetral



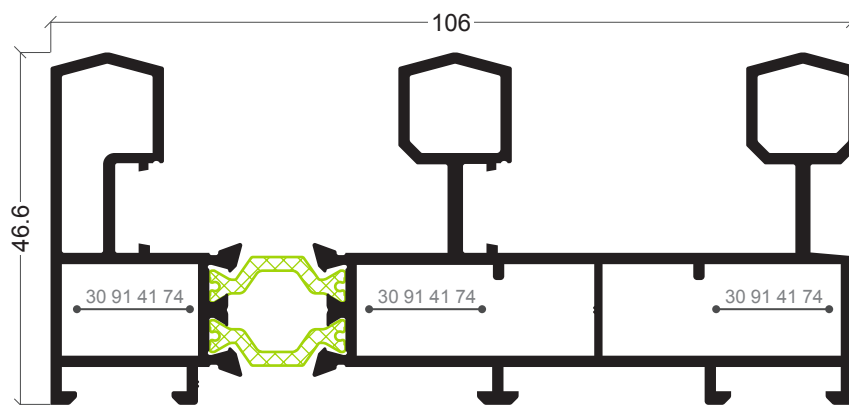
CT-50
Aro fixo perimetral



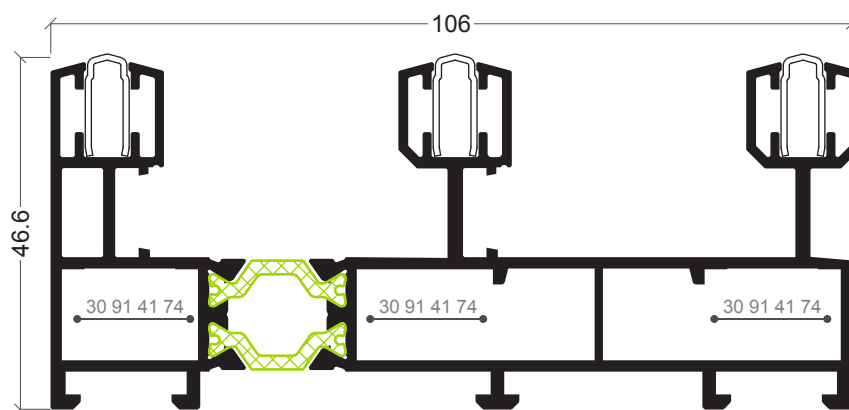
CT-51
Aro fixo perimetral tri-rail



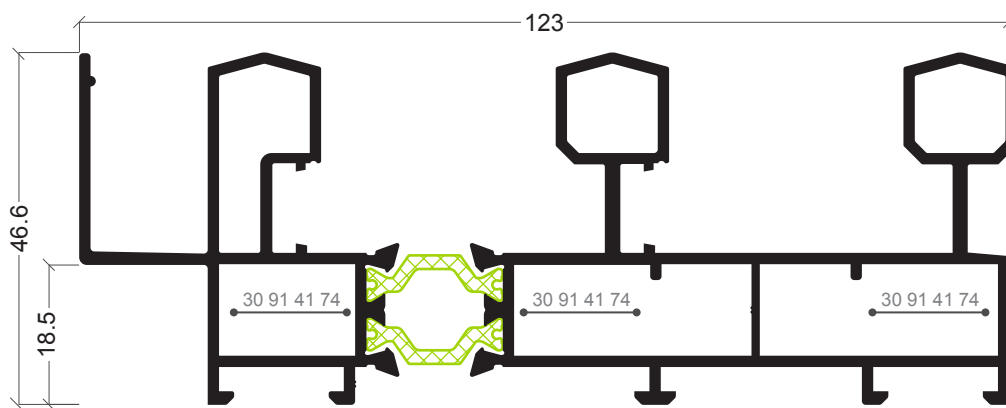
CT-52
Aro fixo perimetral tri-rail



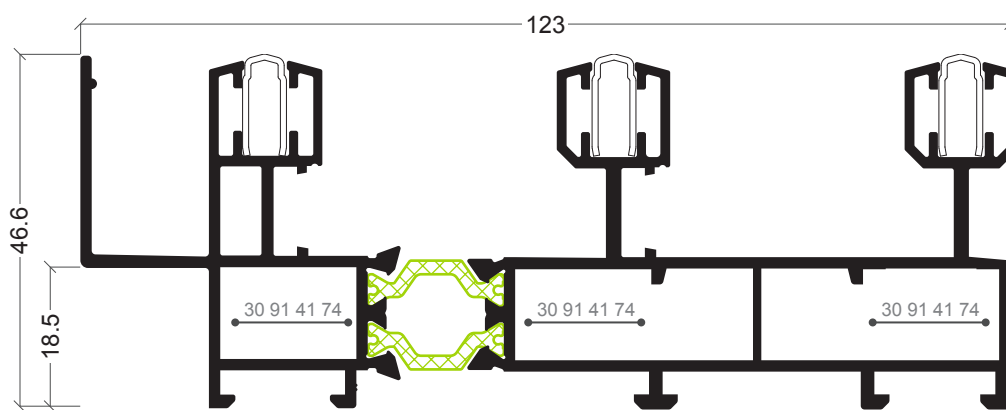
CT-55
Aro fixo perimetral tri-rail



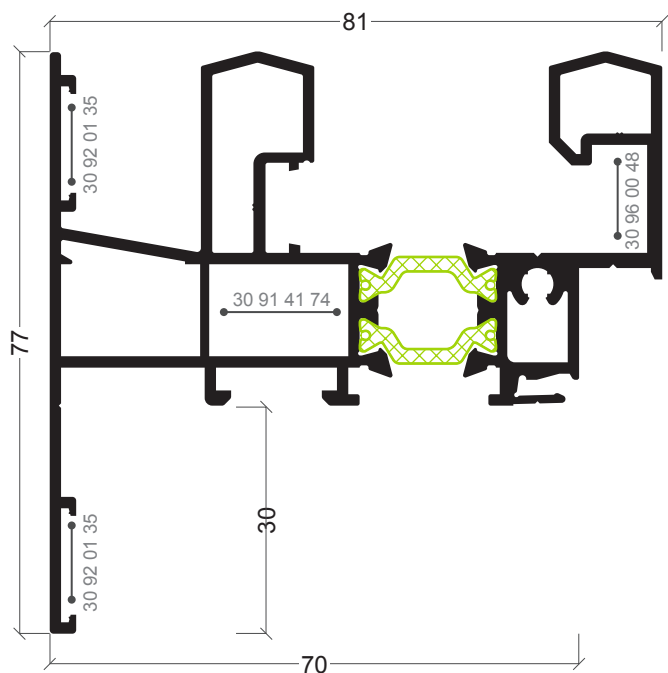
CT-56
Aro fixo perimetral tri-rail



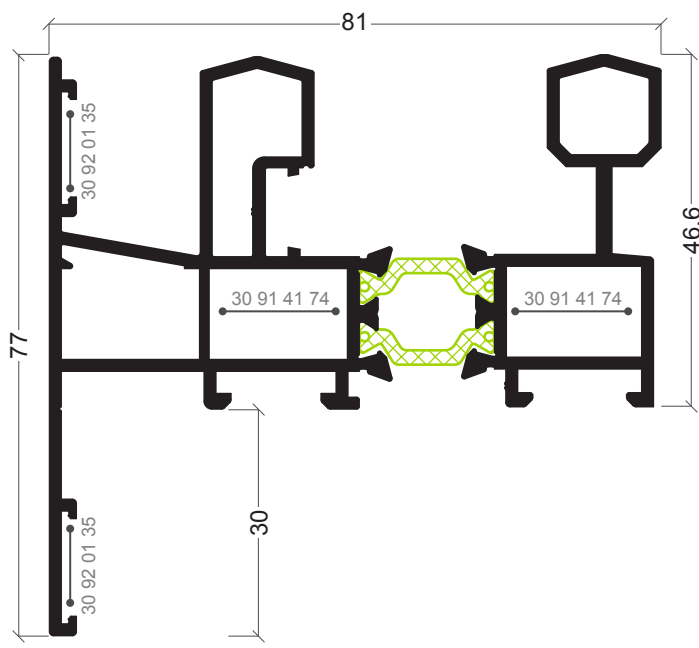
CT-57
Aro fixo perimetral tri-rail



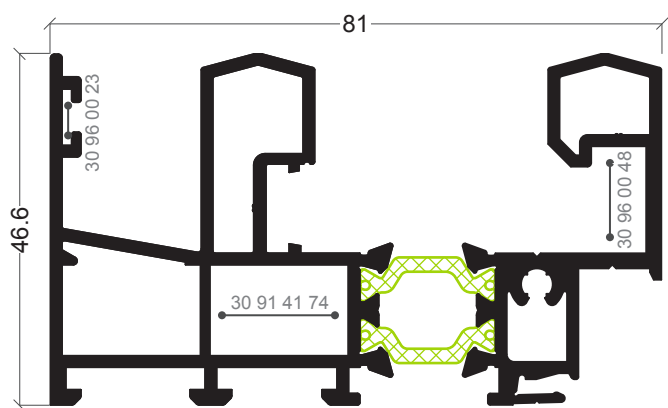
CT-58
Aro fixo perimetral tri-rail



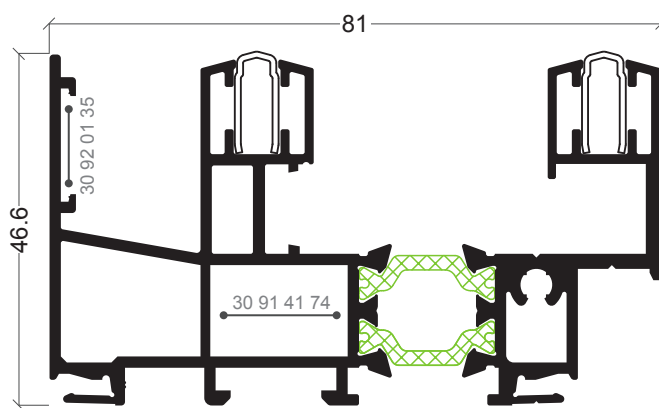
CT-61
Aro fixo perimetral c/ aba remate



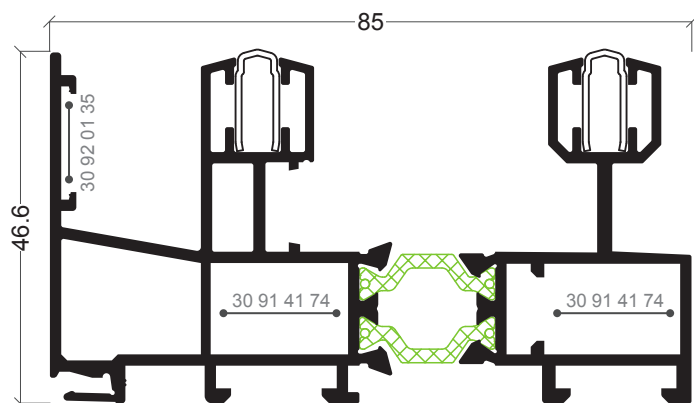
CT-62
Aro fixo perimetral c/ aba remate



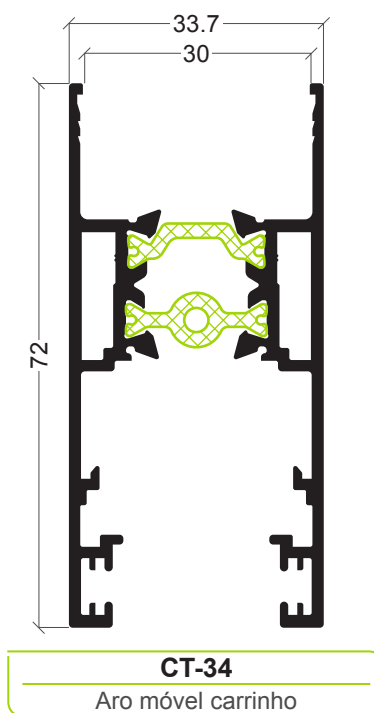
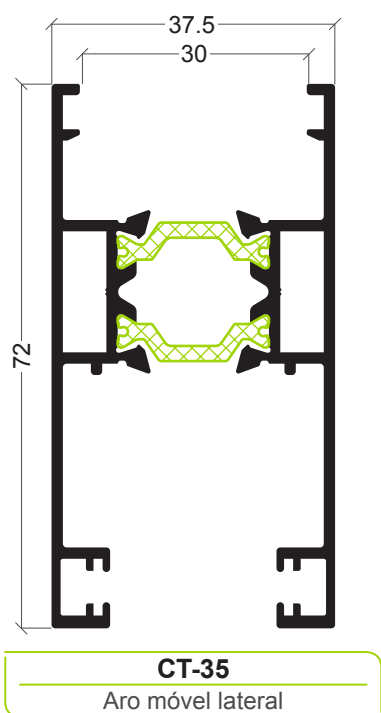
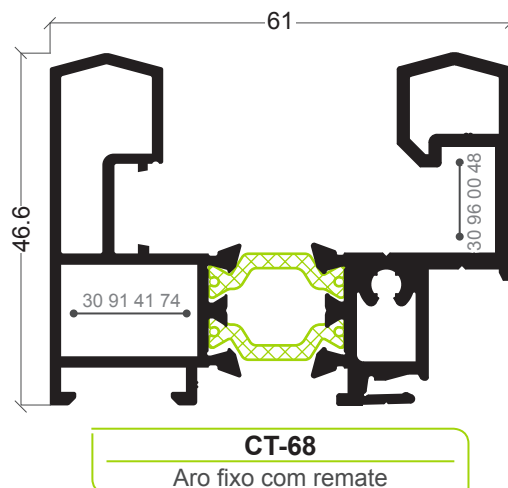
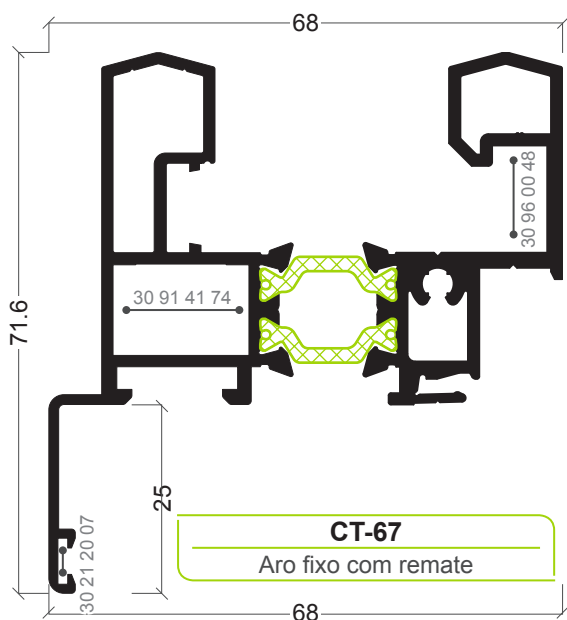
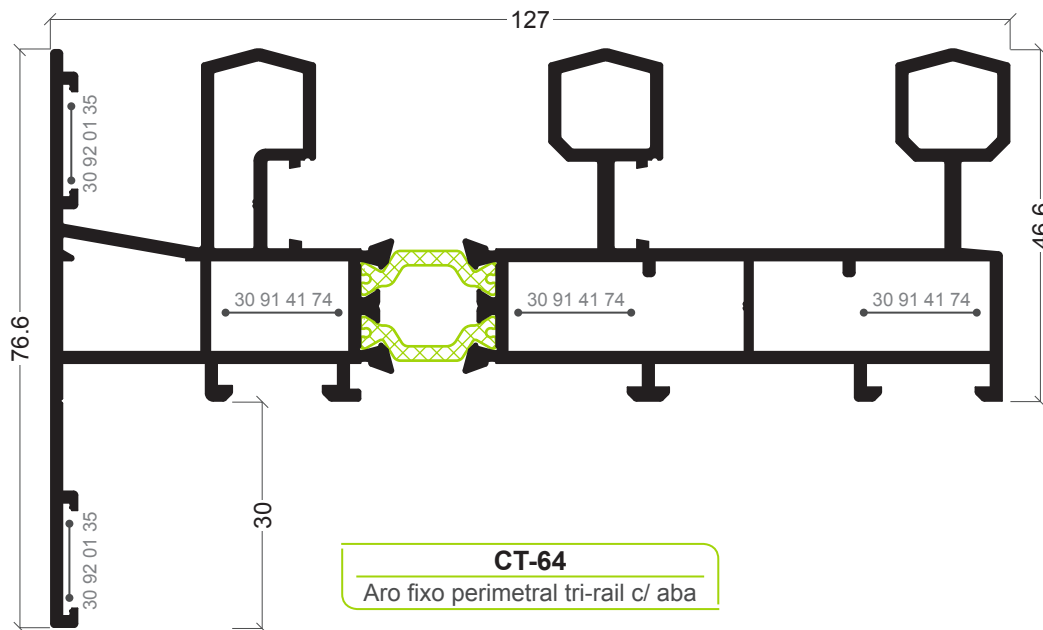
CT-63
Aro fixo perimetral

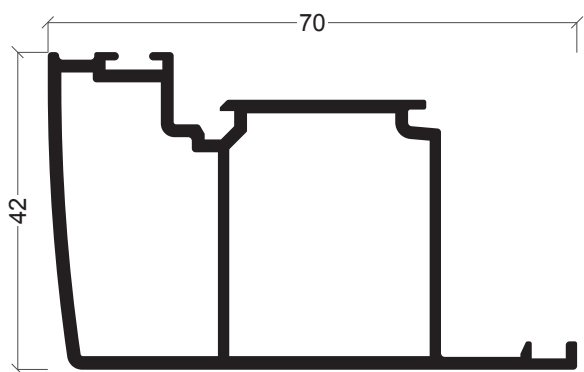


CT-69
Aro fixo perimetral

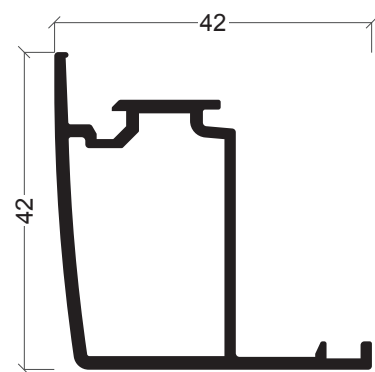


CT-72
Aro fixo perimetral

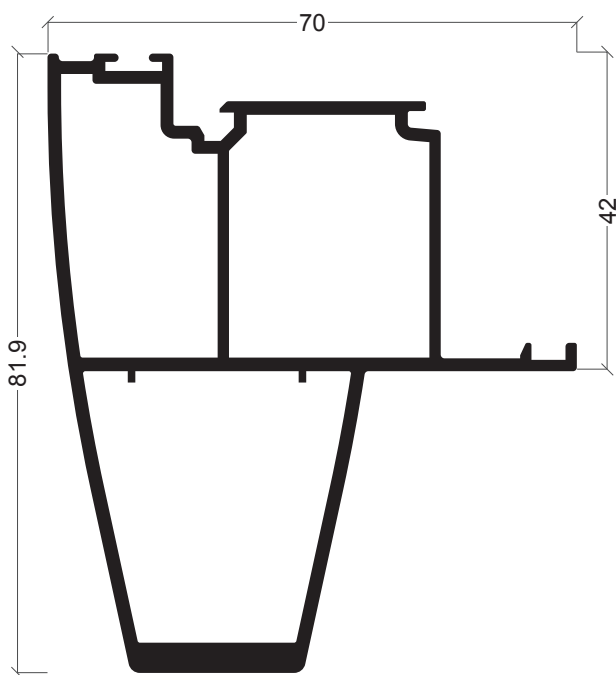




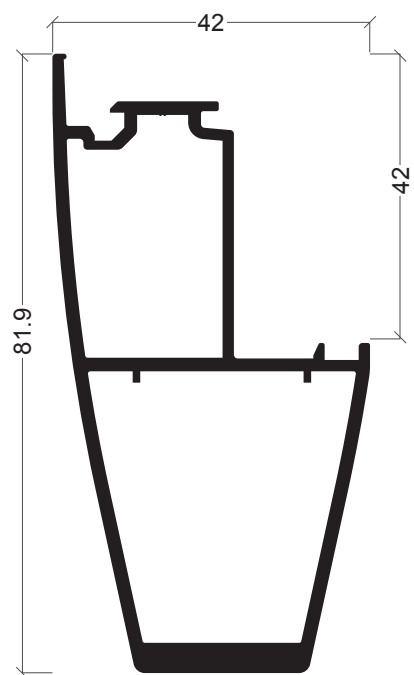
CT-37
Aro móvel central



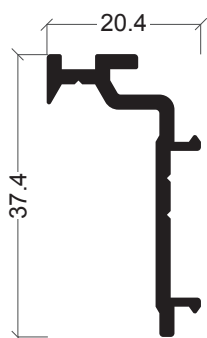
CT-36
Aro móvel central



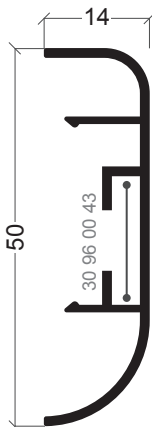
CT-39
Aro móvel central com reforço



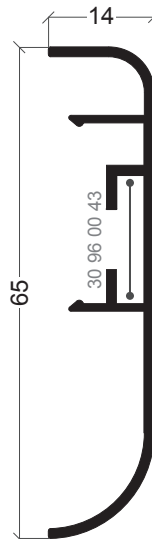
CT-38
Aro móvel central com reforço



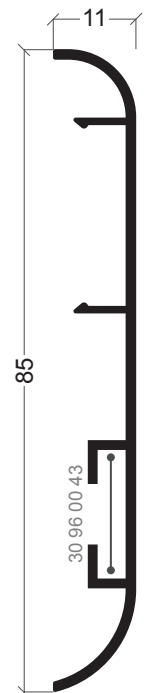
ARI-26
Mola tapa juntas



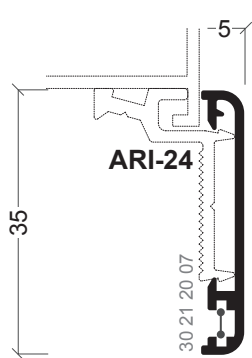
ARI-27
Tapa juntas



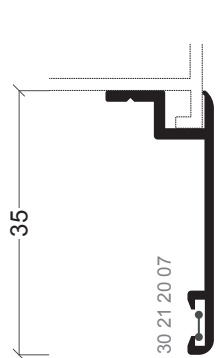
ARI-34
Tapa juntas



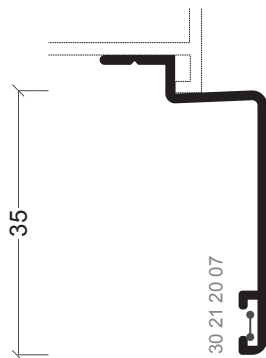
ARI-28
Tapa juntas



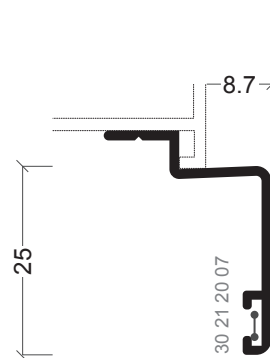
ARI-30
Tapa juntas



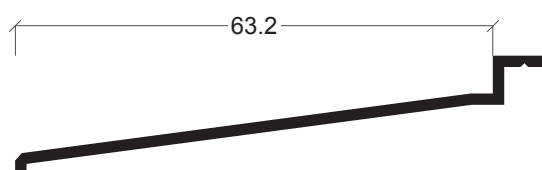
ARI-31
Tapa juntas



ARI-37
Tapa juntas



ARI-66
Tapa juntas

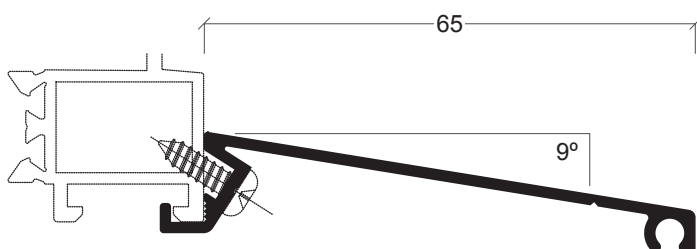


AZ-23
Pingadeira 60 mm



ARI-32
Complemento condensação

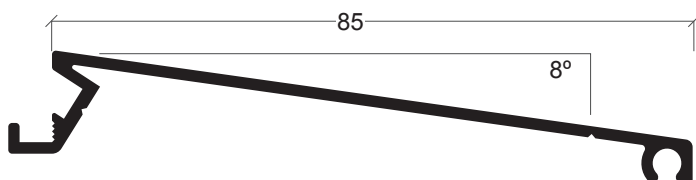
294



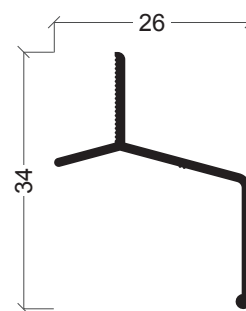
CT-30
Pingadeira 65 mm



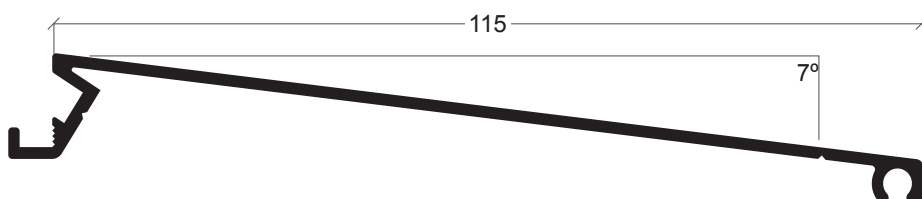
CT-33
Guia carril (aço inox 304)



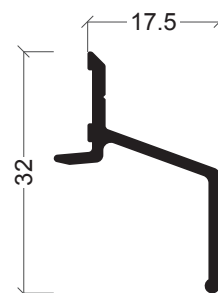
CT-31
Pingadeira 85 mm



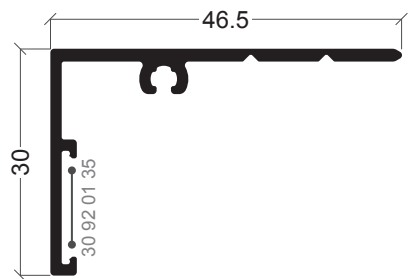
CT-07
Pingadeira superior



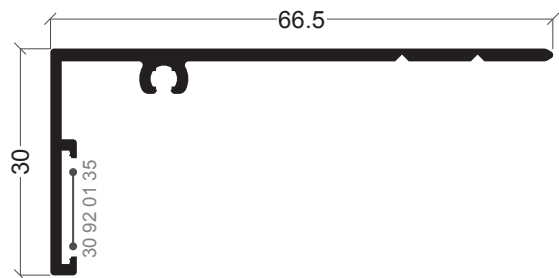
CT-32
Pingadeira 115 mm



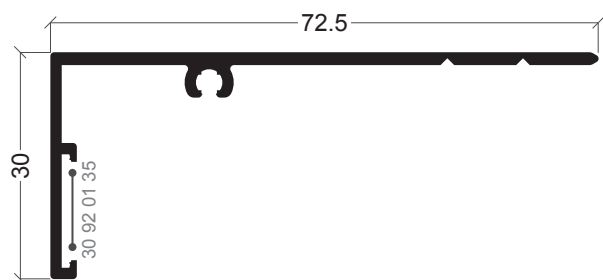
CT-29
Pingadeira superior



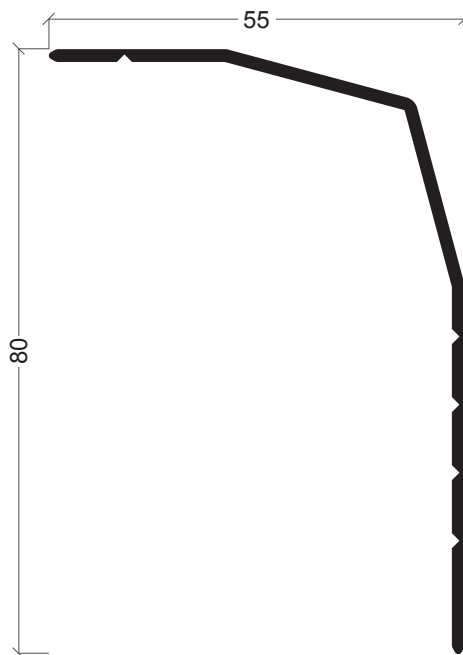
AXi-80
Remate



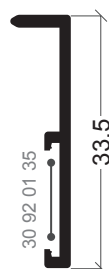
AXi-73
Remate



AXi-83
Remate



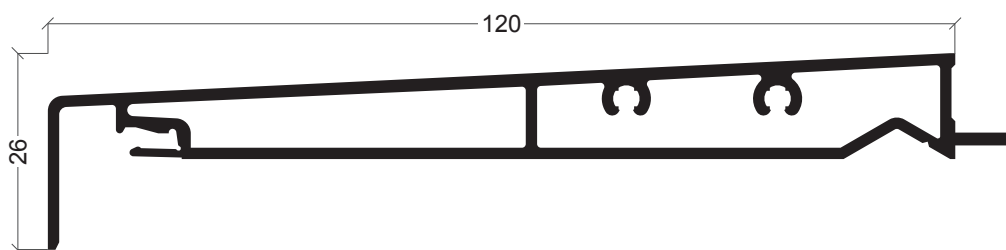
AXi-72
Remate



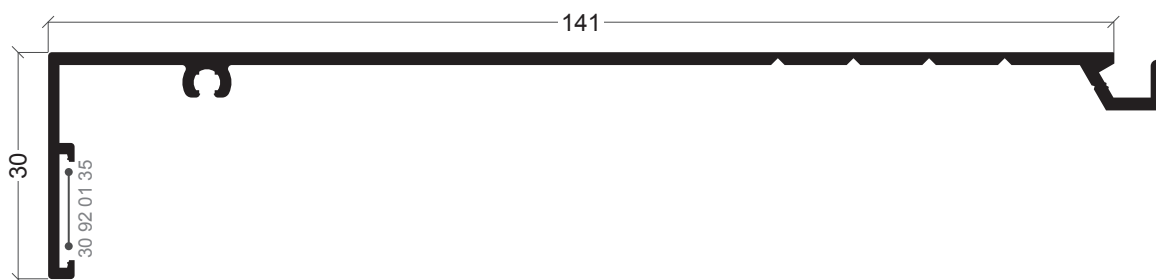
AXi-88
Remate



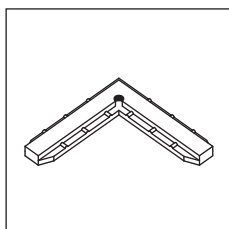
AXi-91
Complemento remate



AXi-74
Pingadeira de 120 mm

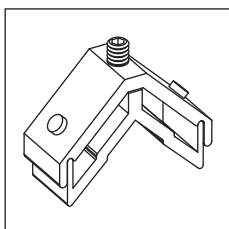


S-09
Remate



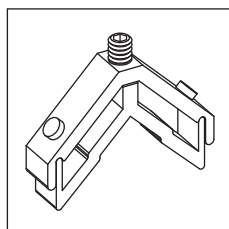
30 21 20 07

Esquadro de alinhamento



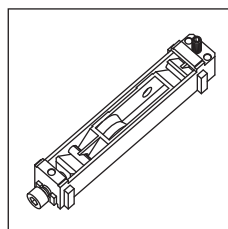
30 91 40 15

Esquadro aro fixo



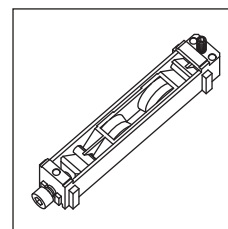
30 91 40 25

Esquadro aro móvel



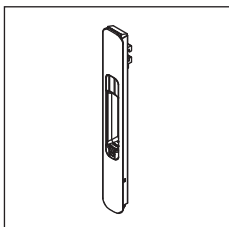
30 91 40 35

Rolamento simples (25Kg)



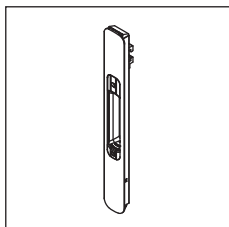
30 91 40 36

Rolamento simples (50Kg)



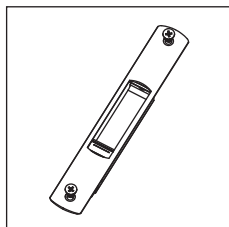
30 91 40 39/40/41

Fecho lateral manual natural/branco/preto



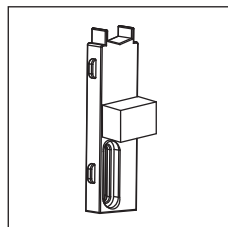
30 91 40 42/43

Fecho lateral de embutir branco/preto



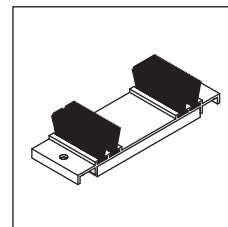
30 91 40 45/46

Fecho lateral com fixação branco/preto



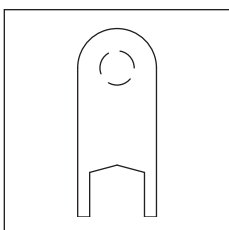
30 91 40 50

Guia lateral batente



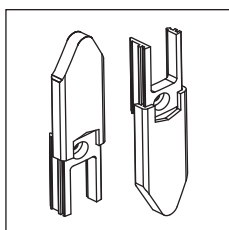
30 91 40 70

Corta-vento superior/inferior



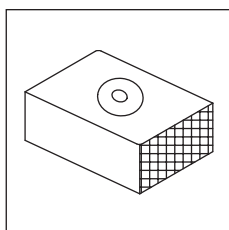
30 91 41 00

Tampa aro móvel recta



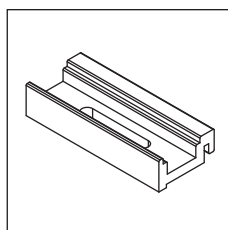
30 91 41 05

Jogo topos laterais



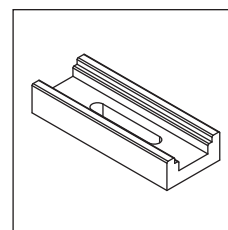
30 91 41 10

Taco anti-levantamento preto



30 91 41 20

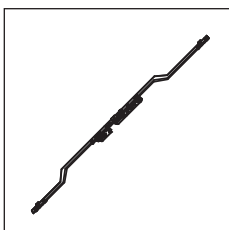
Calço nº 1 para multi-ponto CT-02/12/53



30 91 41 21

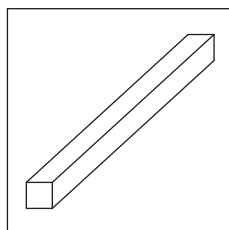
Calço nº 2 para multi-ponto CT-35

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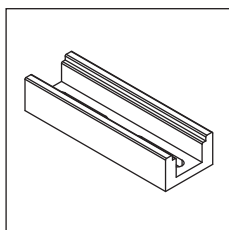
30 91 41 22

Ferragem MP c/ chave sem canhão



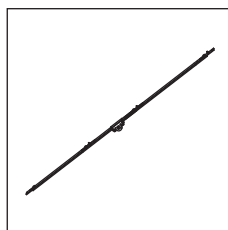
30 91 41 23

Perno 7x131 mm



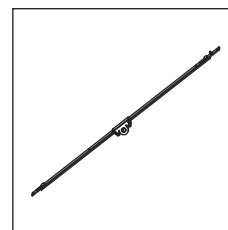
30 91 41 24

Calço nº 3 para multi-ponto inox



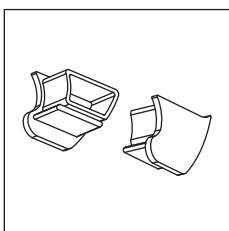
30 91 41 29

Barra 4 pontos (1800 mm)



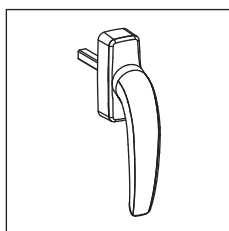
30 91 41 30

Barra 2 pontos (600 mm)



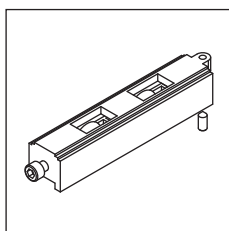
30 91 41 35

Jogo topos CT-03



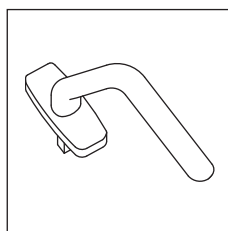
30 91 41 47/48

Cremone multi-ponto branco/preto



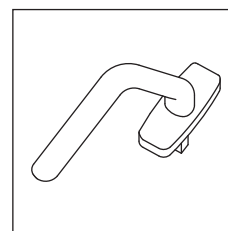
30 91 41 49

Rolamento duplo (75 kg)



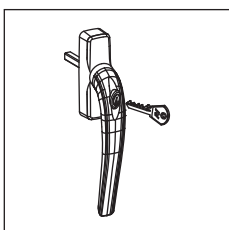
30 91 41 52/53

Cremone desviado direita branco/preto



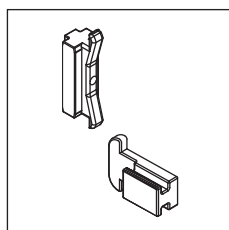
30 91 41 54/55

Cremone desviado esquerda branco/preto



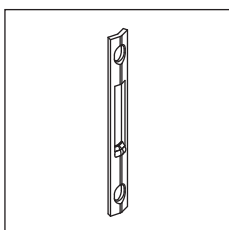
30 91 41 56/57

Cremone porta com chave branco/preto



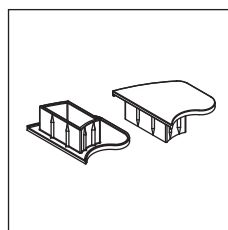
30 91 41 60

Ponto de fecho para carris abertos



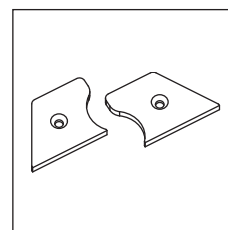
30 91 41 61

Ponto de fecho plano (para ferragem inox)



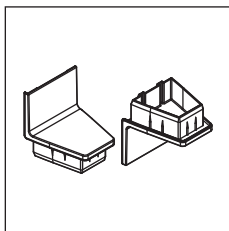
30 91 41 63/64

Jogo topos CT-27 branco/preto

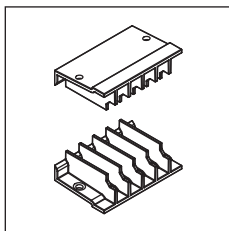


30 91 41 65/66

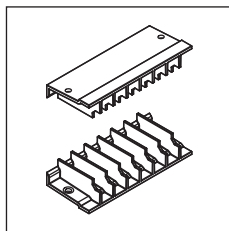
Jogo topos CT-28 branco/preto



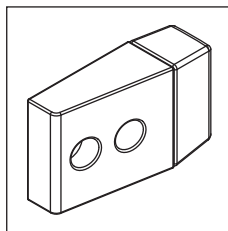
30 91 41 67/68
Jogo topos centrais
(branco/preto)



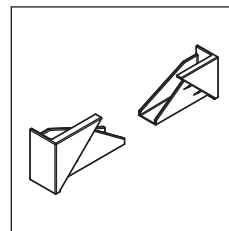
30 91 41 69
Corta ventos aro fixo
Benelux (CT-36/38)



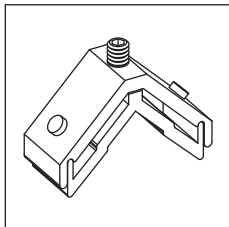
30 91 41 70
Corta ventos aro fixo Benelux
(CT-02/12/37/39/53)



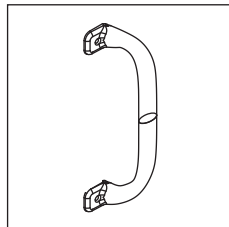
30 91 41 71
Topo limitador de
abertura



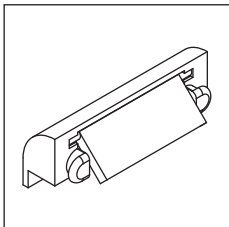
30 91 41 72/73
Jogo topos aro
condensação branco/preto



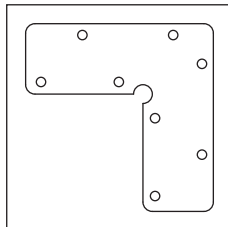
30 91 41 74
Esquadro aro fixo
perimetral Benelux



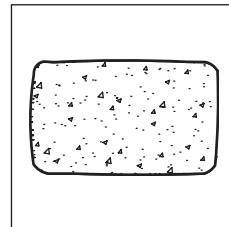
30 91 41 77/78
Puxador p/ fecho embutir
(branco/preto)



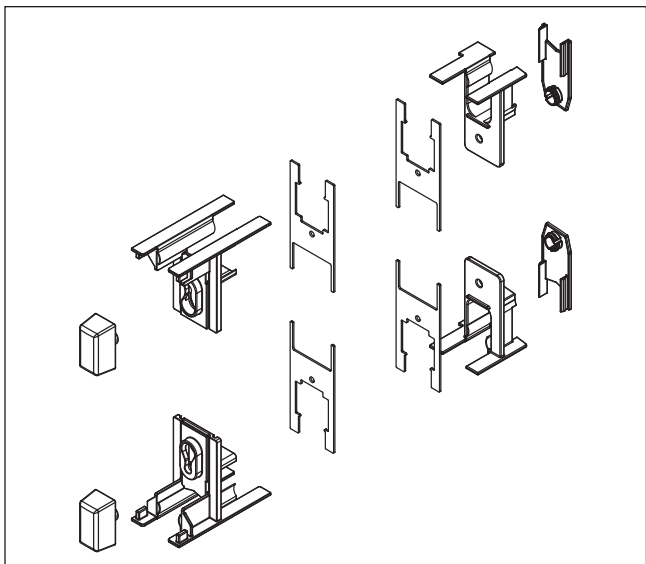
30 92 01 02/03
Goteira nylon c/ válvula
preto / branco



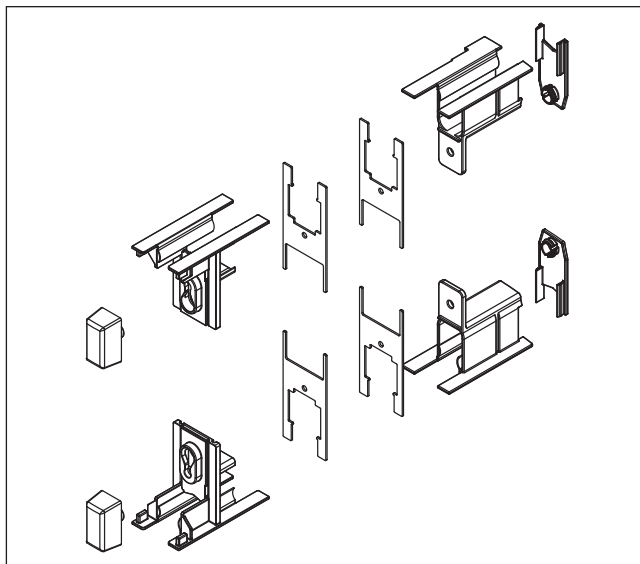
30 92 01 35
Esquadro alinhamento



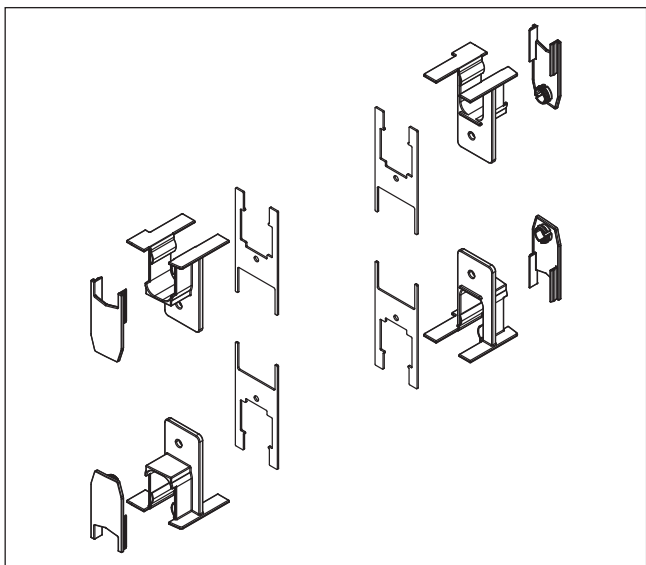
30 92 04 70
Espuma isolante



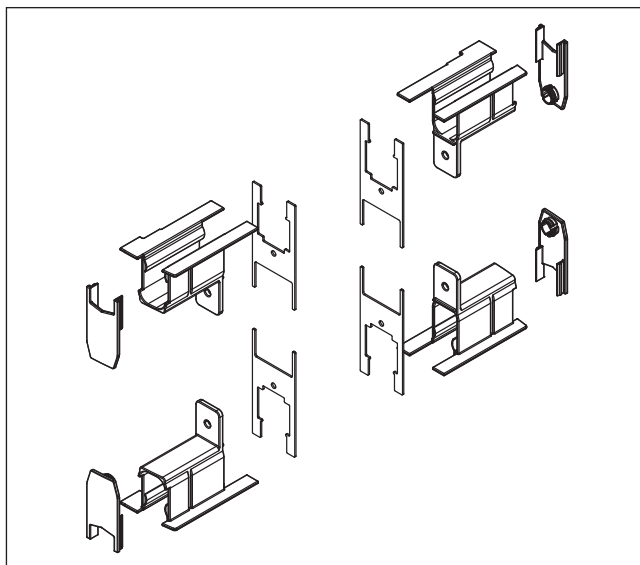
30 91 41 81
Kit topos de janela folhas
laterais Benelux (1 folha)



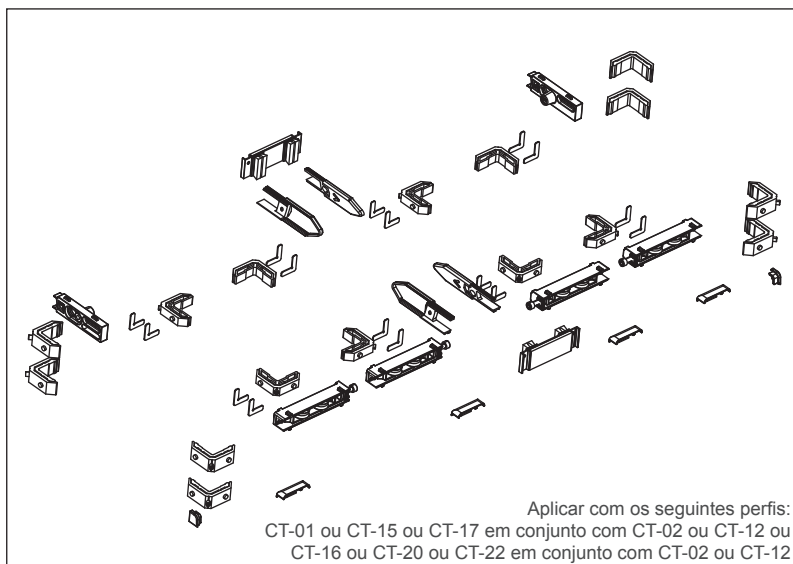
30 91 41 82
Kit topos de porta folhas
laterais Benelux (1 folha)



30 91 41 83
Kit topos de janela folha
central Benelux (3ª folha)



30 91 41 84
Kit topos de porta folha
central Benelux (3ª folha)



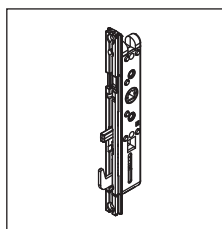
Aplicar com os seguintes perfis:
CT-01 ou CT-15 ou CT-17 em conjunto com CT-02 ou CT-12 ou
CT-16 ou CT-20 ou CT-22 em conjunto com CT-02 ou CT-12

30 91 41 85

Kit de correr janela CT (2 folhas). Resistência até 50Kg/folha. Utilização vãos de 2 folhas.

30 91 41 86

Kit de correr porta CT (2 folhas). Resistência até 100Kg/folha. Utilização vãos de 2 folhas.



30 92 07 30

Ferragem MP regulável inox 1 ponto CT-35



30 92 07 35

Ferragem MP regulável inox 2 pontos CT-35



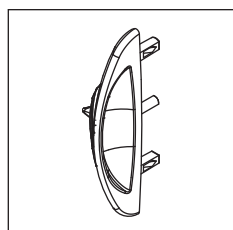
30 92 07 40

Ferragem MP regulável inox 3 pontos CT-35



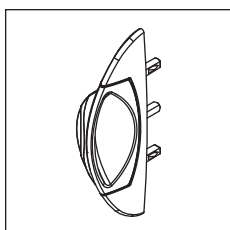
30 92 07 45

Ferragem MP regulável inox 3 pontos com chave CT-35



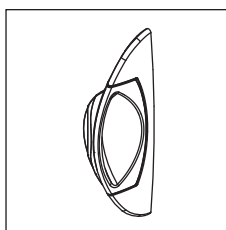
30 92 07 50/55

Puxador calipso interior branco/preto (p/ ferragem inox)



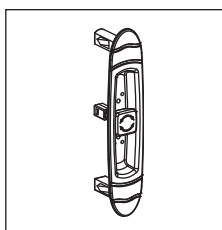
30 92 07 60/65

Puxador neptune interior branco/preto (p/ ferragem inox)



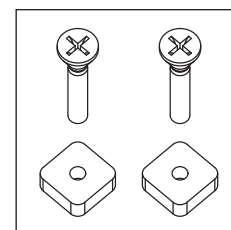
30 92 07 70/75

Puxador neptune exterior branco/preto (p/ ferragem inox)



30 92 07 80/85

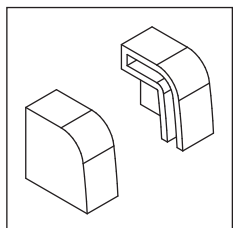
Fecho lateral hera branco/preto (p/ ferragem inox)



30 92 07 96

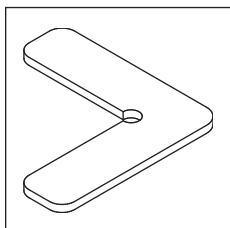
Placas para pontos de fecho multiponto com carris abertos

298



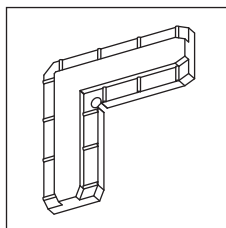
30 96 00 12

Jogo topos condensação CT-11/ARI-32



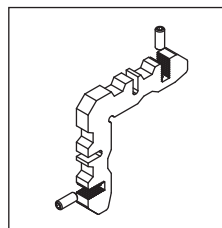
30 96 00 23

Esquadro alinhamento



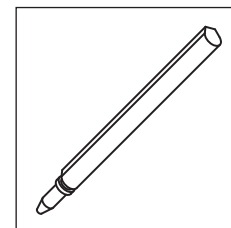
30 96 00 43

Esquadro de alinhamento 004



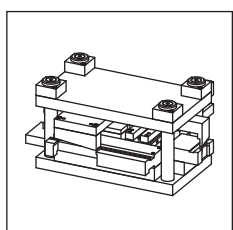
30 96 00 48

Esquadro de alinhamento 7x14 c/ parafusos



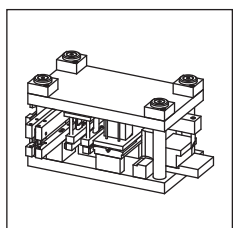
30 96 00 55

Perno alternativo para fixação de esquadro



33 94 29 99

Cunho CT

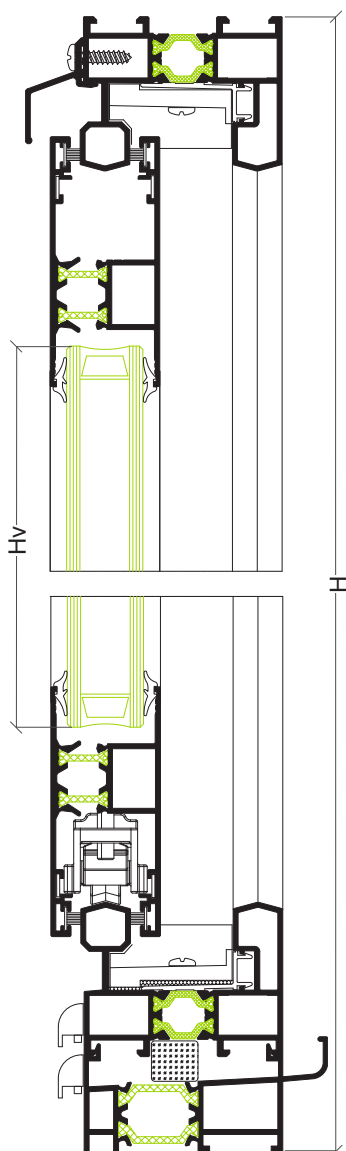
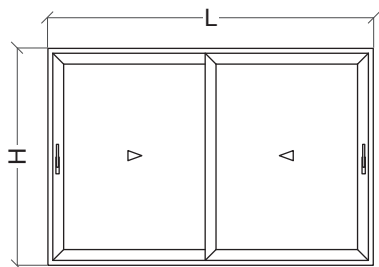


33 94 30 00

Cunho CT Benelux

Referência	Desenho	Descrição
30 20 30 03		Junta isolante CT-01/11/15/17
30 25 44 15		Junta tapa canal
30 91 41 87		Junta tapa carril aberto
30 91 41 88		Junta de correr
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 95 00 40		Pelúcia 7x5.5 mm
30 95 00 50		Pelúcia 7x6 mm
30 95 00 70		Pelúcia 7x3.5 mm

Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-41	Aro fixo perimetral		2	L
				2	H-28.5 mm
	CT-23	Tampa aro fixo		2	L-40 mm
				2	H-68 mm
	CT-53	Aro móvel perimetral		4	L/2+1 mm
				4	H-101.5 mm
	CT-54	Tampa cruzamento 2 folhas		2	H-101.5 mm
	CT-29	Pingadeira superior		1	L
	CT-08	União cruzamento 2 folhas		2	H-101.5 mm
	CT-11	Soleira de condensação		1	L

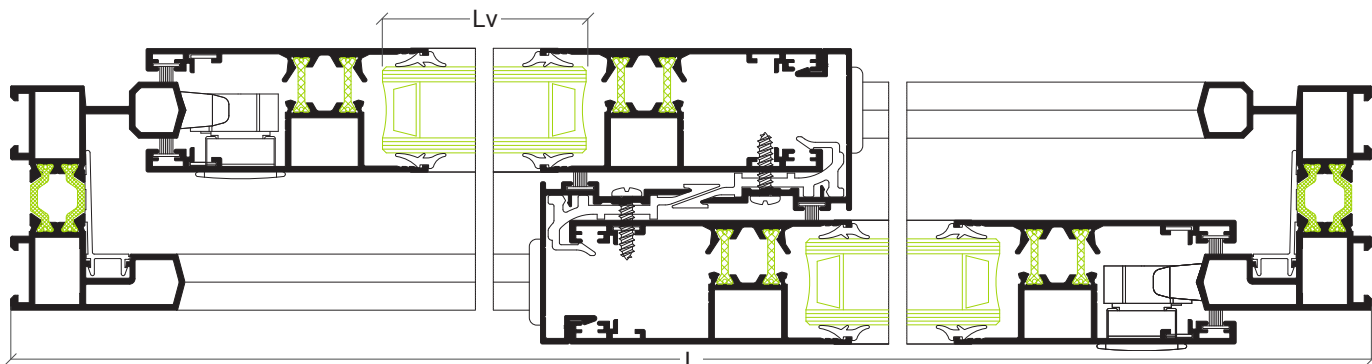
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 74	Esquadro aro fixo	8
30 91 40 25	Esquadro aro móvel	8
30 91 40 35	Rolamento simples	4
30 91 40 42	Fecho lateral	2
30 91 40 50	Guia lateral	4
30 91 40 70	Corta-ventos inferior/superior	1
30 91 41 00	Tampa móvel recta	4
30 92 01 02	Goteiras	4
30 96 00 12	Jogo topos condensação	1
30 96 00 23	Esquadro alinhamento	16
30 91 41 10	Taco anti-levantamento	2
30 92 04 70	Espuma isolante	L
----	Junta vidro	4L+8H
30 95 00 40*	Pelúcia 7x5.5 mm	4L+6H

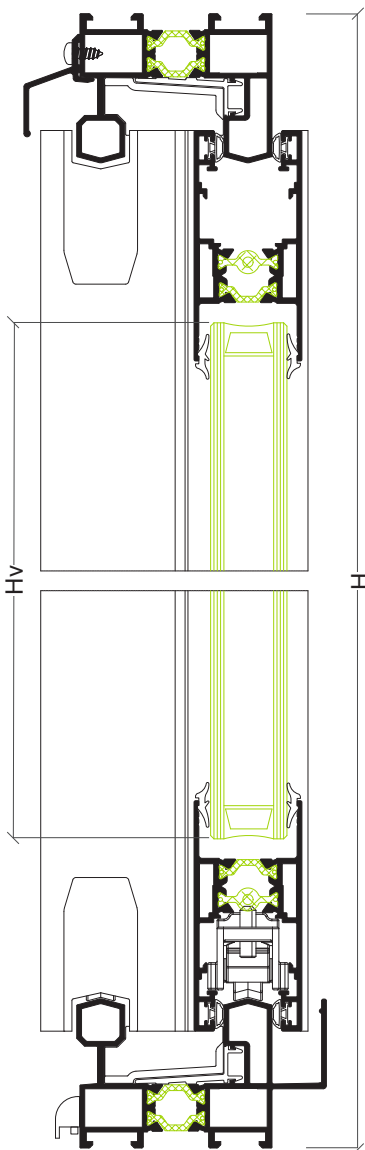
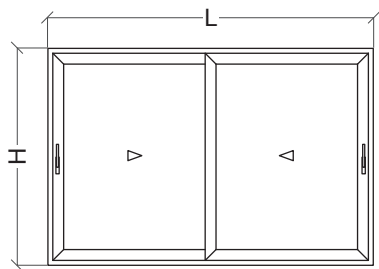
* junta alternativa ref.: 30 91 41 88

Vidro

Hv = H-200 mm	Lv = L/2-126 mm
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Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-41	Aro fixo perimetral		1	L
				2	H
	CT-43	Aro fixo perimetral condensação		1	L
	CT-23	Tampa aro fixo		2	L-40 mm
				2	H-40 mm
	CT-34	Aro móvel carrinho		4	L/2-93 mm
	CT-35	Aro móvel lateral		2	H-73 mm
	CT-36	Aro móvel central		2	H-73 mm
	CT-25	Cruzamento móvel		2	H-73 mm
	CT-29	Pingadeira superior		1	L

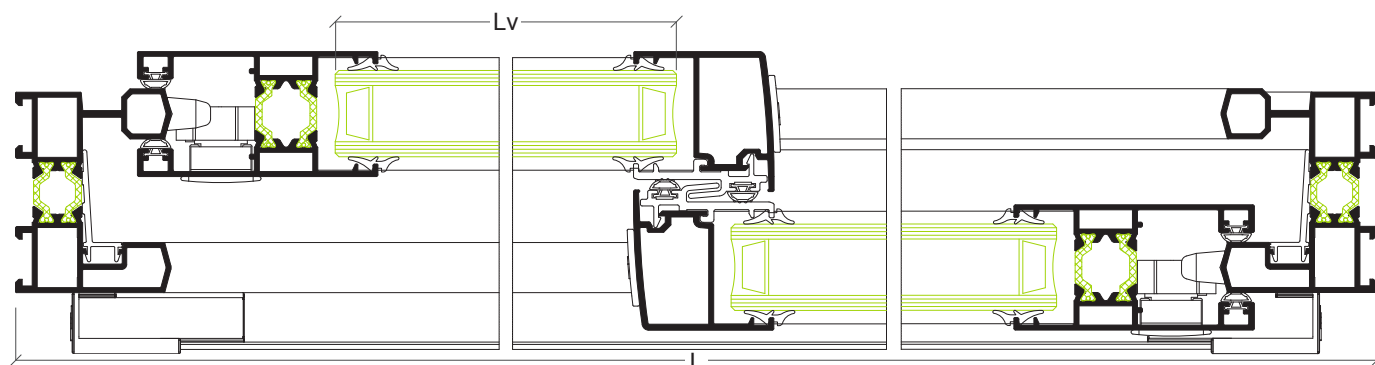
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 74	Esquadro aro fixo	8
30 91 40 35	Rolamento simples	4
30 91 40 42	Fecho lateral	2
30 91 41 69	Jogo corta-ventos superior/inferior	1
30 91 41 81	Kit topos janela	2
30 92 01 02	Goteiras	2
30 91 41 73	Jogo topos condensação	1
30 91 41 10	Taco anti-levantamento	2
30 91 41 88*	Junta de correr	4L+6H

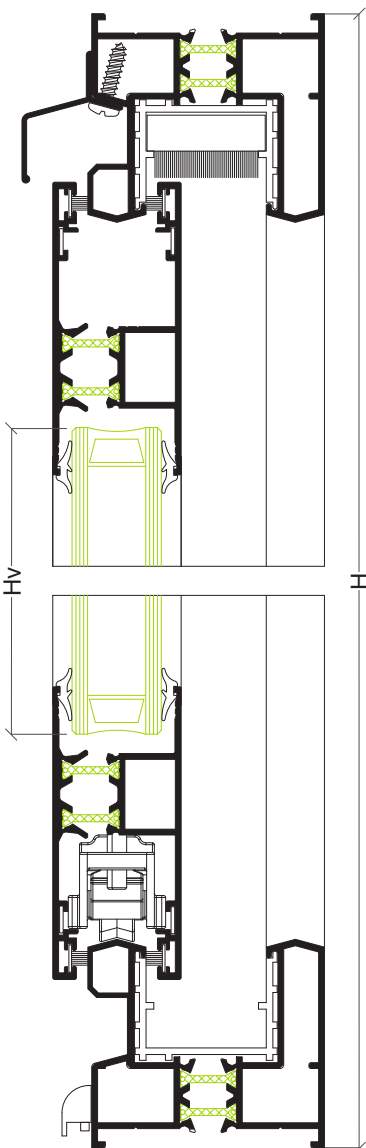
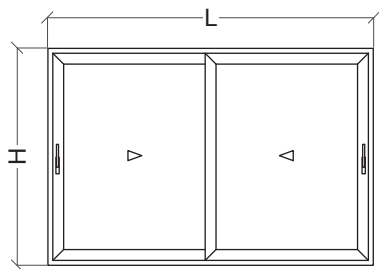
* pelúcia alternativa ref.: 30 95 00 40

Vidro







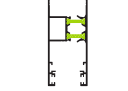




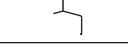







Hv = H-192 mm	Lv = L/2-103 mm
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Porta 2 folhas correr multiponto



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-01	Aro fixo perimetral		2	L
				2	H
	CT-09	Tampa aro fixo		2	L-45 mm
				2	H-45 mm
	CT-53	Aro móvel perimetral		4	L/2-7 mm
				4	H-87 mm
	CT-54	Tampa cruzamento 2 folhas		2	H-87 mm
	CT-07	Pingadeira superior		1	L
	CT-08	União cruzamento 2 folhas		2	H-87 mm
	CT-28	Perfil de reforço		1	H-170 mm
	AX-19	Complementar para perfil de reforço		1	H-170 mm

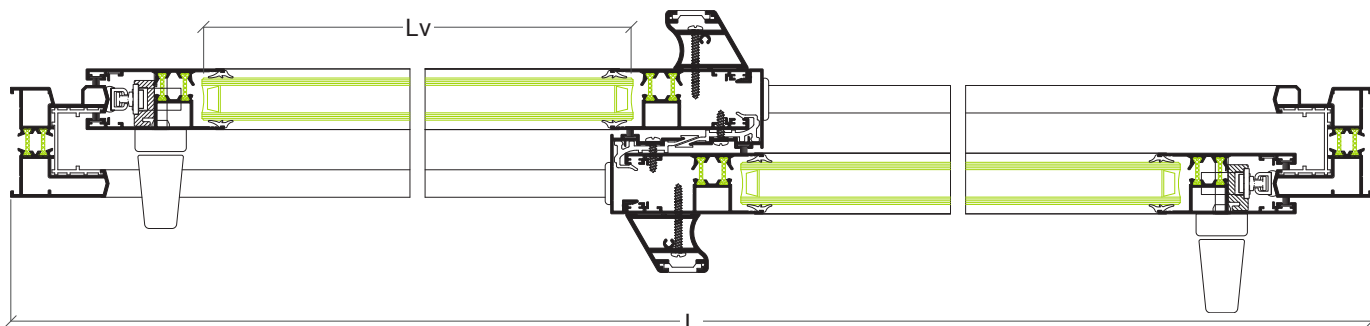
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 40 15	Esquadro aro fixo	8
30 91 40 25	Esquadro aro móvel	8
30 91 41 49	Rolamento duplo reforçado	4
----	Ferragem multiponto (600 ou 1800 mm)	2
30 91 41 47	Cremona multiponto	2
30 91 41 20	Calço nº 1 para multiponto	8 ou 16
30 91 41 71	Limitador de abertura	1
30 91 40 50	Guia lateral	4
30 91 40 70	Corta ventos inferior/superior	2
30 91 41 00	Tampa móvel recta	4
30 92 01 02	Goteiras	2
30 96 00 23	Esquadro alinhamento	16
30 91 41 66	Jogo topos CT-28	2
----	Junta vidro	4L+8H
30 95 00 40'	Pelúcia 7x5.5 mm	4L+6H

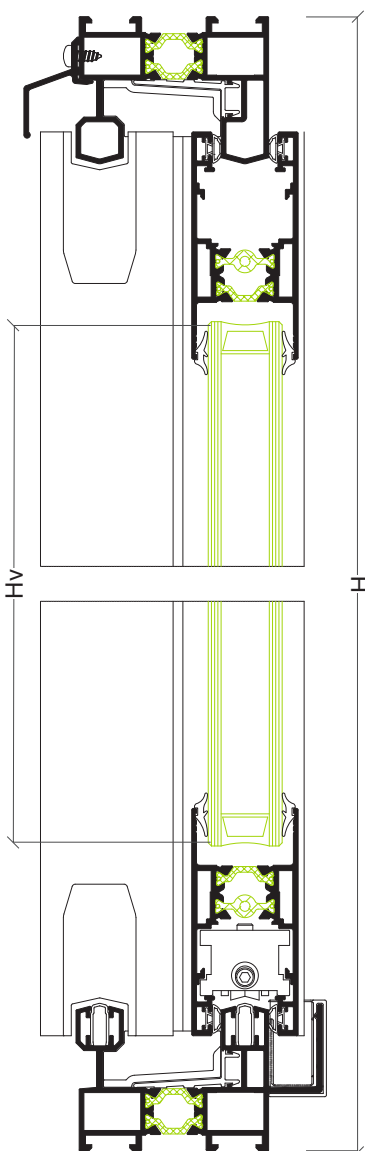
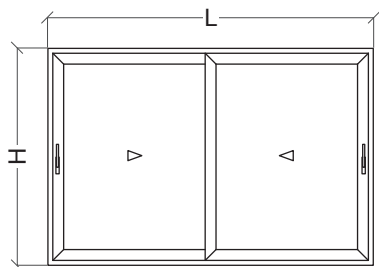
* junta alternativa ref.: 30 91 41 88

Vidro

Hv = H-214 mm	Lv = L/2-134 mm
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Porta 2 folhas correr multiponto



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-41	Aro fixo perimetral		1	L
				2	H
	CT-44	Aro fixo perimetral condensação		1	L
	CT-33	Guia carril		2	L-93 mm
	CT-23	Tampa aro fixo		2	L-40 mm
				2	H-40 mm
	CT-34	Aro móvel carrinho		4	L/2-107 mm
	CT-35	Aro móvel lateral		2	H-73 mm
	CT-37	Aro móvel central		1	H-73 mm
	CT-39	Aro móvel central com reforço		1	H-73 mm
	CT-26	Cruzamento móvel		2	H-73 mm
	CT-29	Pingadeira superior		1	L

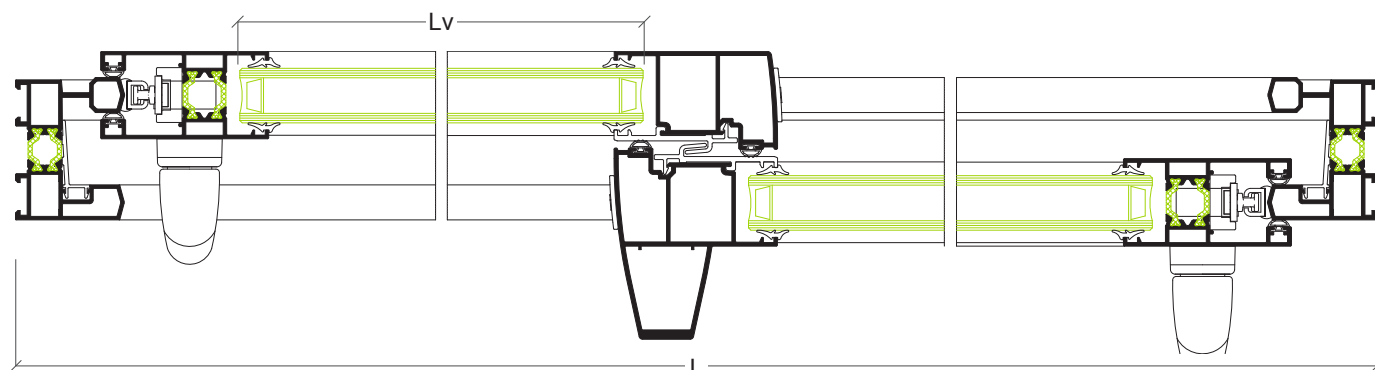
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 74	Esquadro aro fixo	8
30 91 41 49	Rolamento duplo reforçado	4
----	Ferragem multiponto (600 ou 1800 mm)	2
30 91 41 47	Cremona multiponto	2
30 91 41 21	Calço nº 2 para multiponto	8 ou 16
30 91 41 71	Limitador de abertura	1
30 91 41 70	Jogo corta-ventos superior/inferior	1
30 91 41 82	Kit topos porta	2
30 92 01 00	Goteiras	2
30 91 41 73	Jogo topos condensação	1
30 91 41 67	Jogo topo central	1
30 91 41 88*	Junta de correr	4L+6H

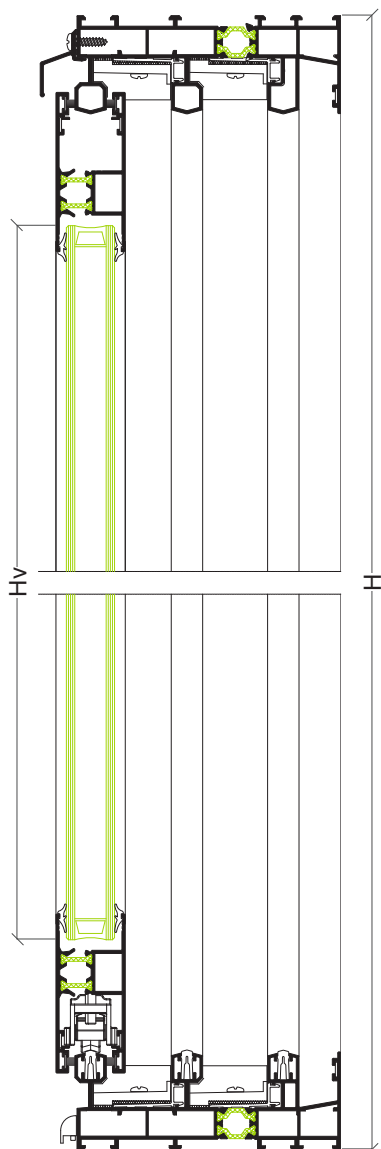
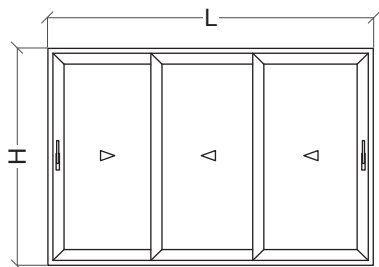
* pelúcia alternativa ref.: 30 95 00 40

Vidro




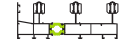




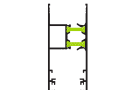




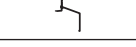





Hv = H-192 mm	Lv = L/2-119 mm
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Porta 3 folhas correr tri-rail



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-51	Aro fixo perimetral		1	L
				2	H
	CT-52	Aro fixo perimetral		1	L
	CT-23	Tampa aro fixo		4	L-40 mm
				4	H-40 mm
	CT-53	Aro móvel perimetral		6	L/3+22.5 mm
				6	H-73 mm
	CT-54	Tampa cruzamento móvel		4	H-73 mm
	CT-29	Pingadeira superior		1	L
	CT-08	Cruzamento móvel		4	H-73 mm
	CT-71	Guia carril (poliamida)		3	L-93 mm

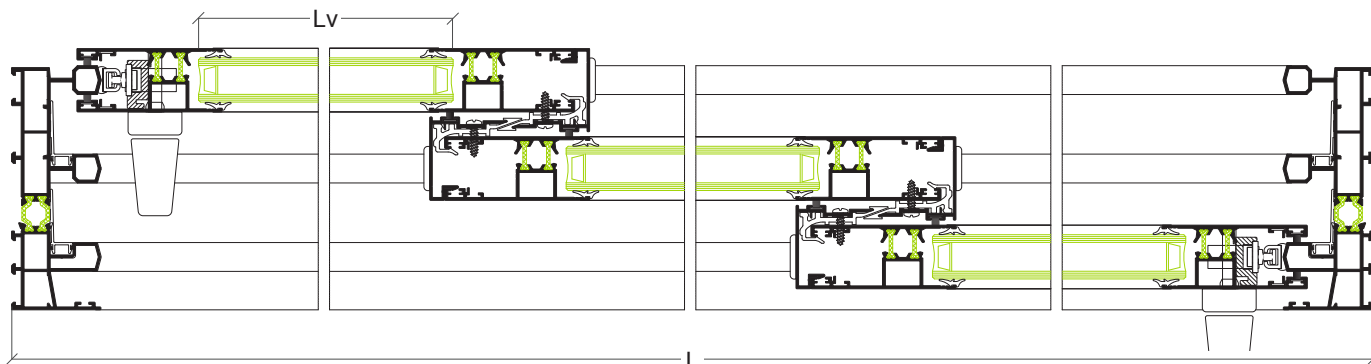
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 74	Esquadro aro fixo	12
30 91 40 25	Esquadro aro móvel	12
30 91 41 49	Rolamento duplo reforçado	6
----	Ferragem multiponto (600 ou 1800 mm)	2
30 91 41 47	Cremona multiponto	2
30 91 41 20	Calço nº 1 para multiponto	8 ou 16
30 91 41 71	Limitador de abertura	2
30 91 40 50	Guia lateral	4
30 91 41 70	Corta-ventos inferior/superior	6
30 91 41 00	Tampa guia recta	8
30 92 01 02	Goteiras	4
30 96 00 23	Esquadro alinhamento	24
----	Junta vidro	4L+12H
30 95 00 40'	Pelúcia 7x5.5 mm	4L+8H

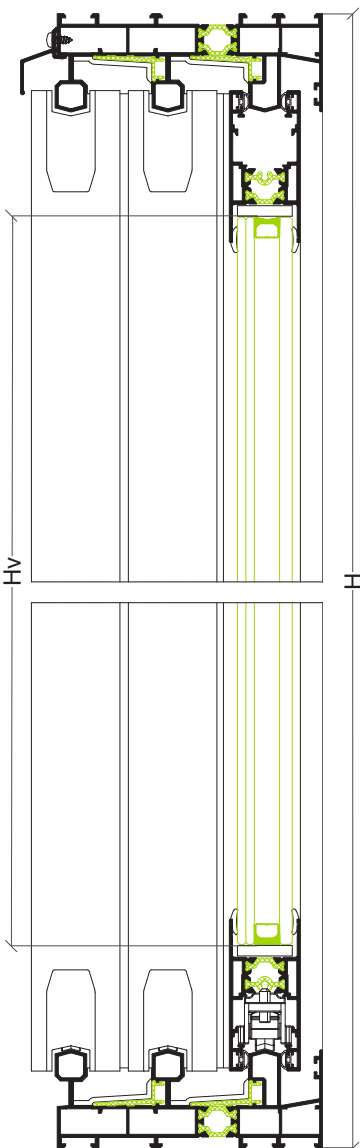
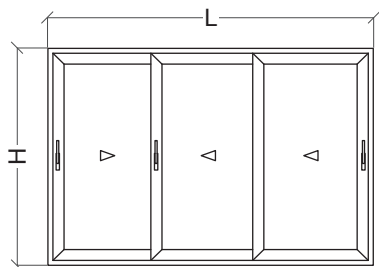
* junta alternativa ref.: 30 91 41 88

Vidro

Hv = H-200 mm	Lv = L/3-104 mm
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Janela 3 folhas correr tri-rail



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-51	Aro fixo perimetral		2	L
				2	H
	CT-23	Tampa aro fixo		4	L-40 mm
				4	H-40 mm
	CT-34	Aro móvel carrinho		6	L/3-64 mm
	CT-35	Aro móvel lateral		2	H-73 mm
	CT-36	Aro móvel central		4	H-73 mm
	CT-25	Cruzamento móvel		4	H-73 mm
	CT-29	Pingadeira superior		1	L

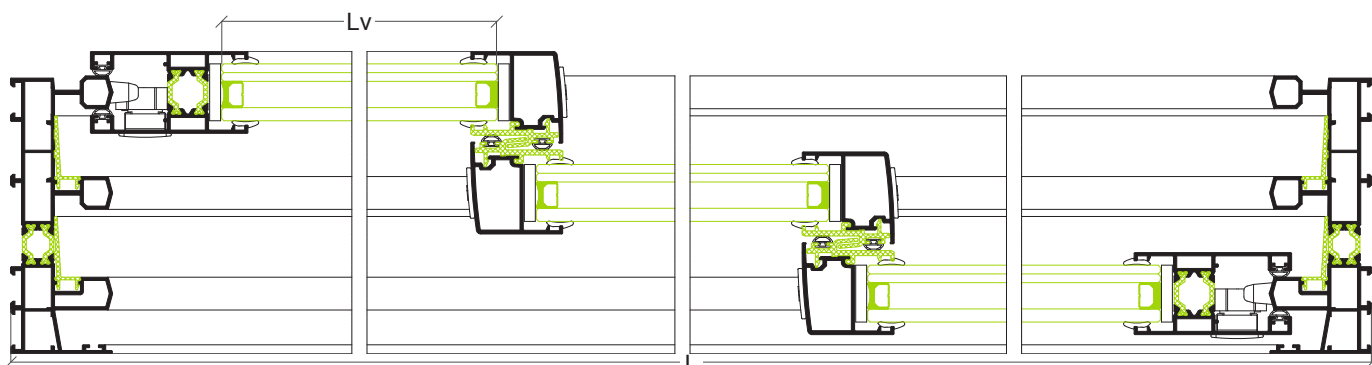
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 74	Esquadro aro fixo	12
30 91 40 35	Rolamento simples	6
30 91 40 42	Fecho lateral	2
30 91 41 69	Jogo cortaventos superior/inferior	2
30 91 41 81	Kit topos janela folhas laterais	2
30 91 41 83	Kit topos janela folhas centrais	1
30 92 01 00	Goteiras	2
30 91 41 88 *	Junta de correr	4L+8H

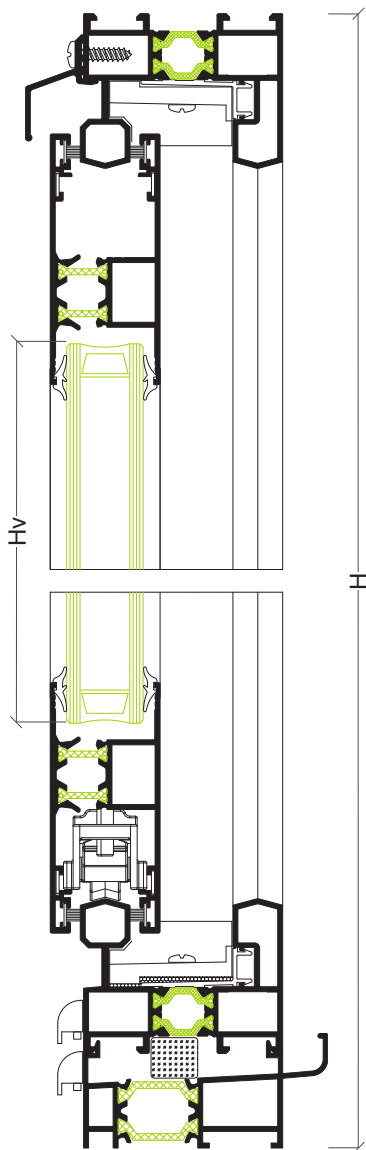
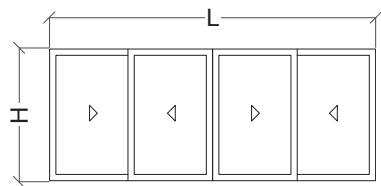
* pelúcia alternativa ref.: 30 95 00 40

Vidro

Hv = H-193 mm	Lv = L/3-76 mm
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Janela 4 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-41	Aro fixo perimetral		2	L
				2	H-28.5 mm
	CT-23	Tampa aro fixo		4	L-40 mm
				4	H-68 mm
	CT-53	Aro móvel perimetral		8	L/4+16.5 mm
				8	H-101.5 mm
	CT-54	Tampa cruzamento 2 folhas		4	H-101.5 mm
	CT-29	Pingadeira superior		1	L
	CT-08	Cruzamento móvel		4	H-101.5 mm
	CT-11	Soleira de condensação		1	L
	CT-24	União 3/4 folhas		1	L-101.5 mm

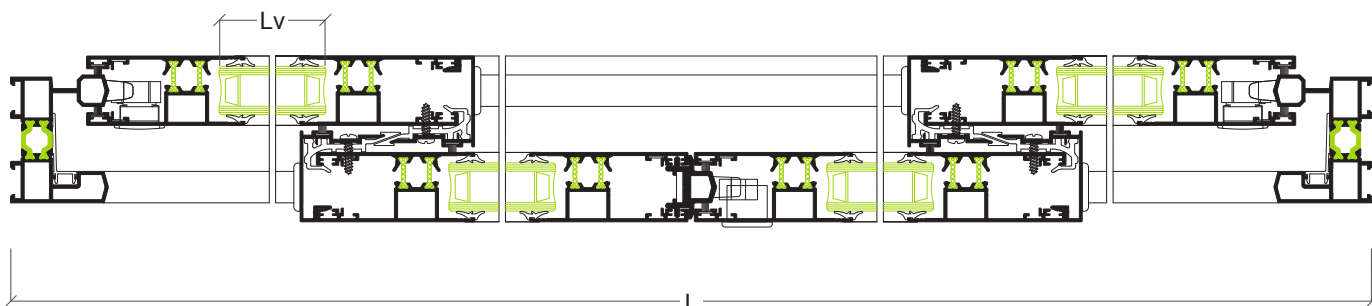
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 74	Esquadro aro fixo	8
30 91 40 25	Esquadro aro móvel	16
30 91 40 35	Rolamento simples	8
30 91 40 42	Fecho lateral	3
30 91 40 50	Guia lateral	6
30 91 41 70	Corta-ventos inferior/superior	3
30 91 41 00	Tampa móvel recta	8
30 92 01 02	Goteiras	4
30 96 00 12	Jogo topos condensação	1
30 96 00 23	Esquadro alinhamento	32
30 91 41 10	Taco anti-levantamento	3
30 92 04 70	Espuma isolante	L
----	Junta vidro	4L+16H
30 95 00 40'	Pelúcia 7x5.5 mm	4L+10H

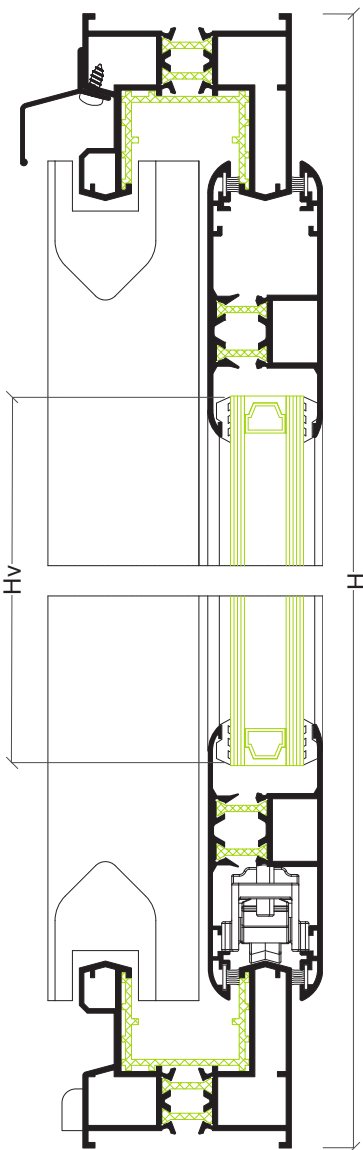
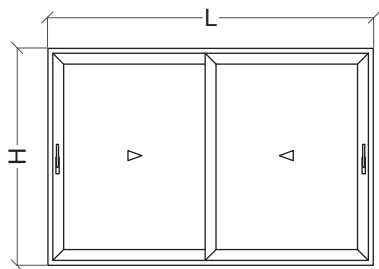
* junta alternativa ref.: 30 91 41 88

Vidro

Hv = H-200 mm	Lv = L/4-110 mm
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Porta 2 folhas correr multiponto



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CT-01	Aro fixo perimetral		2	L
				2	H
	CT-09	Tampa aro fixo		2	L-45 mm
				2	H-45 mm
	CT-12	Aro móvel perimetral		4	L/2-4 mm
				4	H-85 mm
	CT-06	Tampa cruzamento móvel		2	H-85 mm
	CT-07	Pingadeira superior		1	L
	CT-08	Cruzamento móvel		2	H-85 mm
	CT-03	Reforço (opcional)		2	H-170 mm
	AX-19	Vareta (opcional)		2	H-170 mm

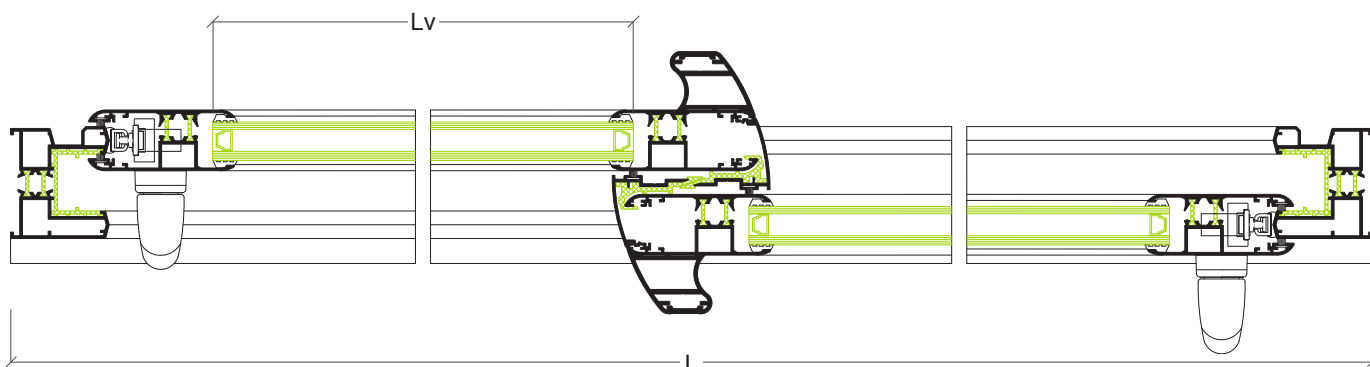
Acessórios e Juntas

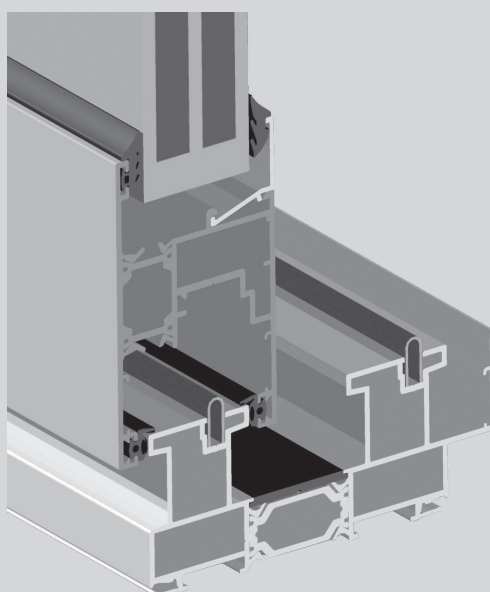
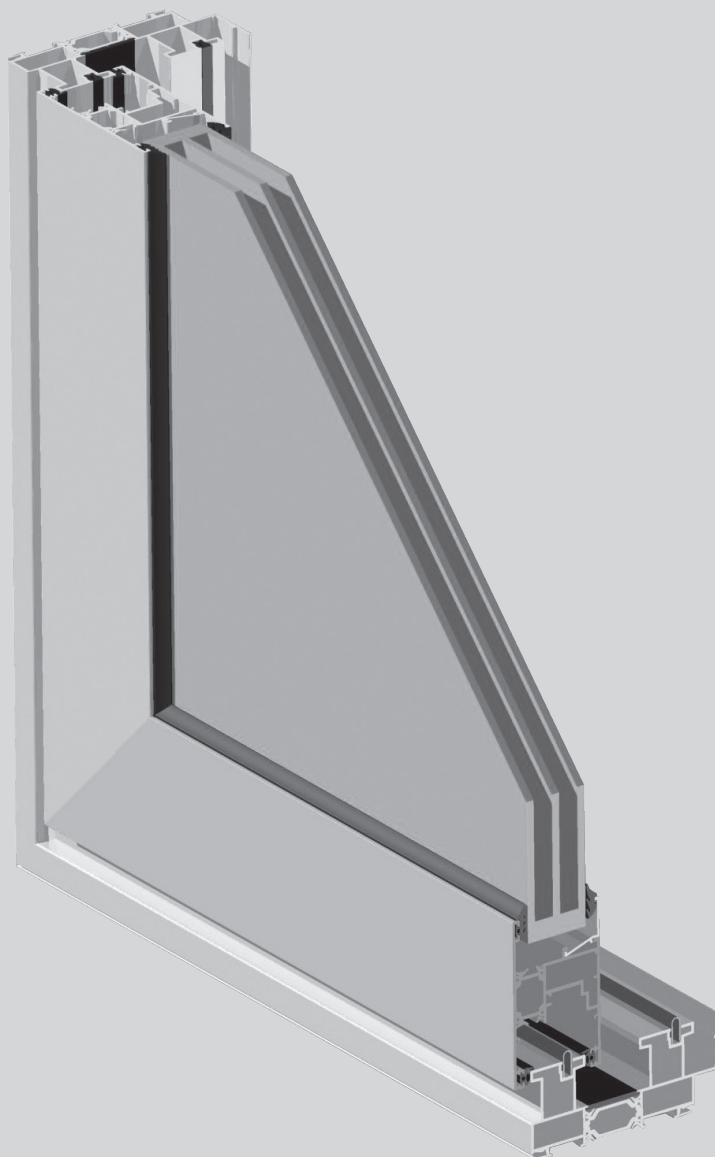
Referência	Descrição	Quantidade
30 91 40 15	Esquadro aro fixo	8
30 91 40 25	Esquadro aro móvel	8
30 91 40 36	Rolamento duplo	4
30 91 40 50	Guia lateral	2
30 91 40 70	Corta-ventos inferior/superior	2
30 91 41 05	Jogo topos laterais	2
30 91 41 35	Jogo topos CT-03	2
30 92 01 02	Goteiras	2
30 96 00 23	Esquadro alinhamento	16
-----	Barra de ferragem multi-ponto (600 ou 1800 mm)	2
30 91 41 47	Cremona multiponto	2
30 91 41 20	Calço nº 1	8 ou 16
30 95 00 40*	Pelúcia 7x5.5 mm	2L+6H
-----	Junta vidro	4L+8H

* junta alternativa ref.: 30 91 41 88

Vidro

Hv = H-214 mm	Lv = (L/2)-133 mm
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Sistema
CW

Sistema CW

Sistema de correr com RPT - 105 mm

Características do sistema

Sistema de alumínio com rotura térmica para executar vãos de correr.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Perfis com rotura térmica obtida por inserção de varetas isolantes de poliamida de 6.6 mm reforçadas com 25% de fibra de vidro de 30 mm nos aros fixos e de 14.6 mm nos aros móveis.

Espessura média dos perfis de alumínio de 1.5 mm.

Aros fixos

Secção do aro fixo perimetral de 2 guias de 105 mm para montagem a meia esquadria;

Perfil guia de deslizamento inferior em aço inoxidável AISI 304 para evitar desgaste das peças.

Aros móveis

Secção dos aros móveis perimetrais de 48 mm com montagem a meia esquadria;

Enchimento de 4 a 36 mm;

Aros móveis de linha recta com ou sem bite ou com bite reduzido;

Bites rectos;

Estanquidade assegurada através de juntas em EPDM e pelúcia tipo Fin-Seal.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 300 mm - 2500 mm (L); 350 mm - 2675 mm (H);

Peso máximo de 200 kg por folha (com 2 rolamentos duplos);

Tipologias de 2, 3, 4 e 6 folhas móveis e/ou fixas;

Tipologias de correr Galandage de 1 ou 2 folhas;

Rolamento duplo oscilante com regulação;

Rolamentos de agulhas em inox com eixo temperado retificado sendo possível a substituição sem desmontagem da folha;

Suporte exterior com tratamento cataforese (anti-corrosivo);

Abertura do vão com fecho lateral ou ferragem multi-ponto com 2 ou 4 pontos de fecho;

Puxadores desviados (esquerdo ou direito) para ferragem multi-ponto permitindo maior facilidade de abertura;

Possibilidade de aplicação de ferragem elevatória de média dimensão;

Puxador específico para ferragem elevatória de modo a facilitar as manobras de abertura e fecho do vão;

Existe a opção de puxador duplo com colocação de canhão com chave para permitir a abertura do vão pelo exterior.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CW tipologia janela:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema CW tipologia porta:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 6A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe B3 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema CW tipologia porta elevatória:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C3 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema CW para determinação das forças de manobra (EN 12046):

1. Libertação da ferragem de fecho: Classe 2
2. Abertura da folha: Classe 1
3. Fecho da folha: Classe 2
4. Engate da ferragem de fecho: Classe 2

Categoria alcançada na determinação da resistência a abertura e fecho repetidos (5000 ciclos): Classe 1 (EN 1191)

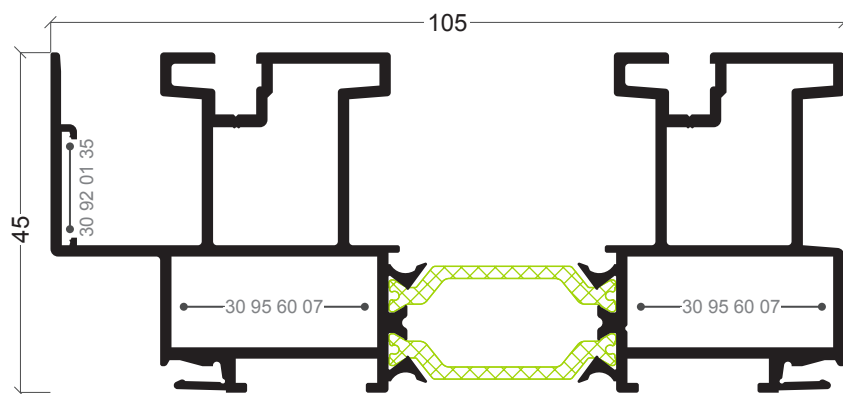
Coefficiente de transmissão térmica de vão de 2 folhas com 4.0 m x 2.4 m com vidro $U_g = 0.7 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

- $U_w = 1.48 \text{ W/m}^2\text{K}$

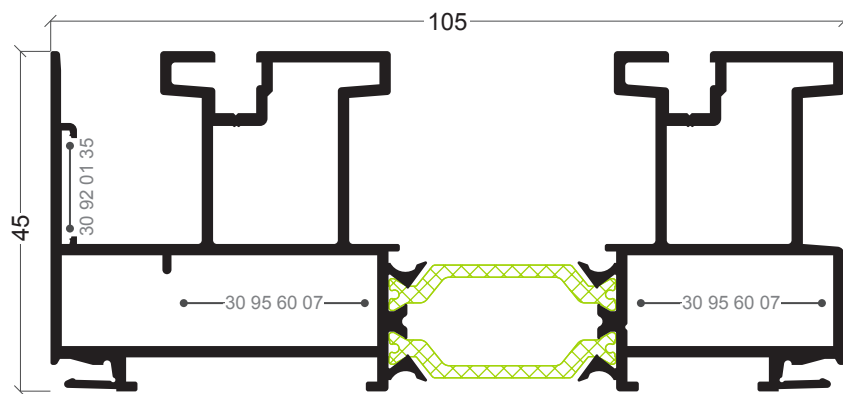
Coefficiente de atenuação acústica de vão de 2 folhas com vidro acústico 6/16/44.1:

- $R_w (C; C_{tr}) = 34 \text{ dB} (-1; -6)$

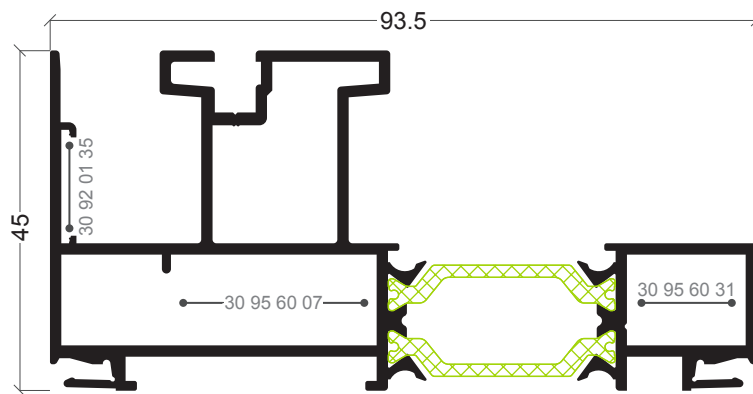
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3.



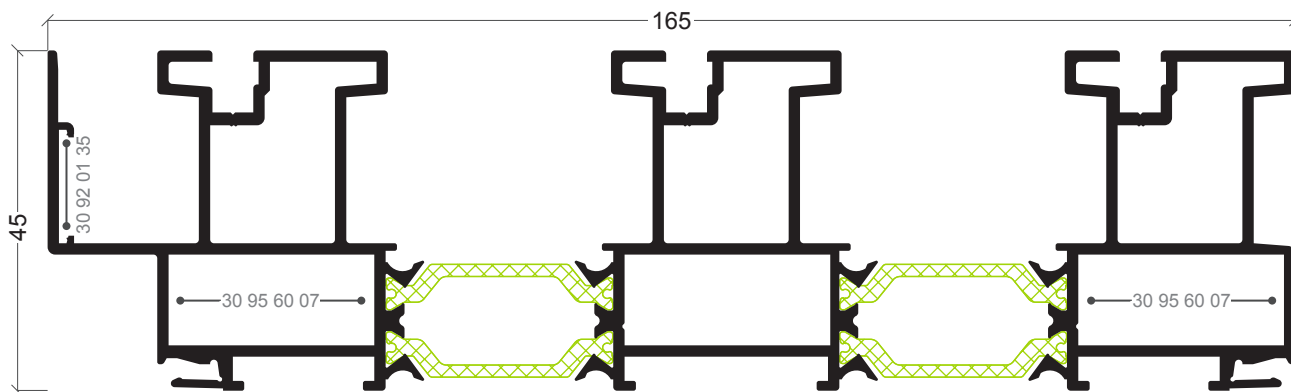
CW-01
Aro fixo perimetral



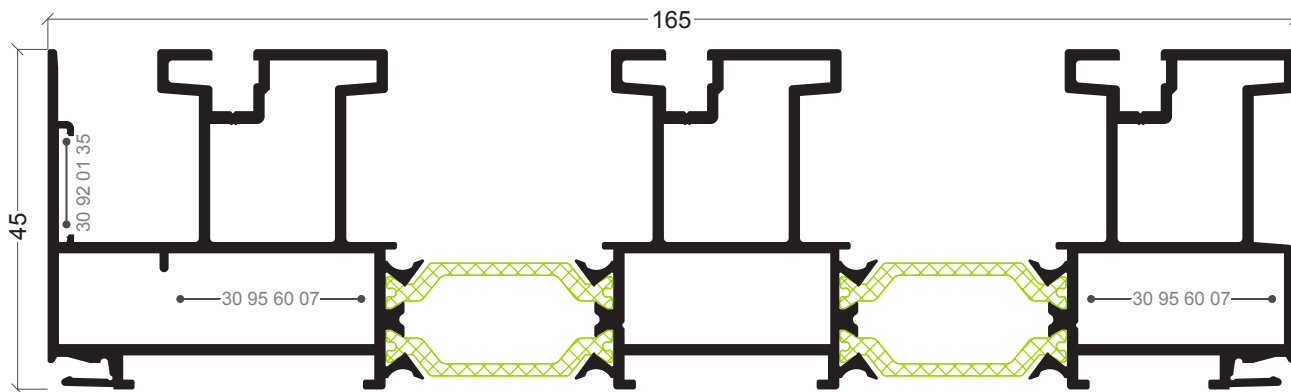
CW-05
Aro fixo perimetral



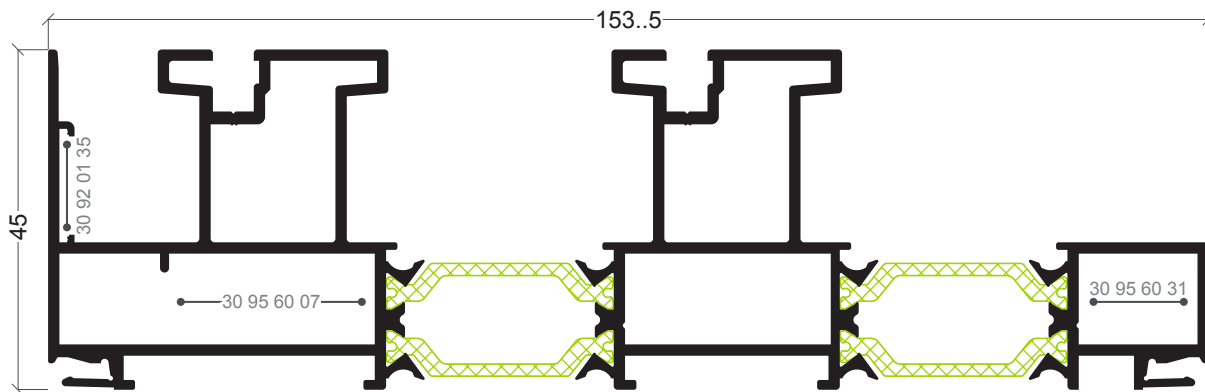
CW-07
Aro fixo mono-rail galandage



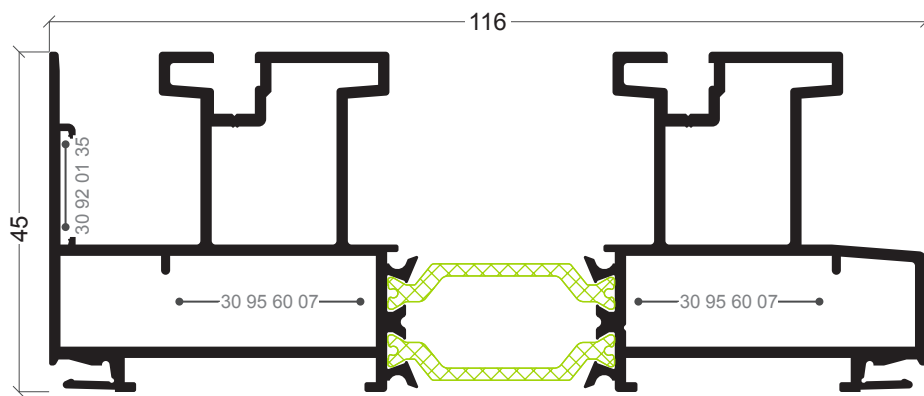
CW-08
Aro fixo tri-rail perimetral



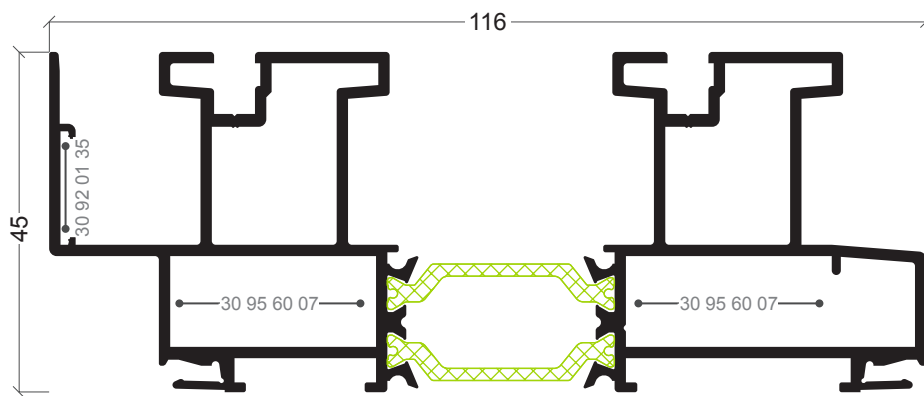
CW-09
Aro fixo tri-rail perimetral



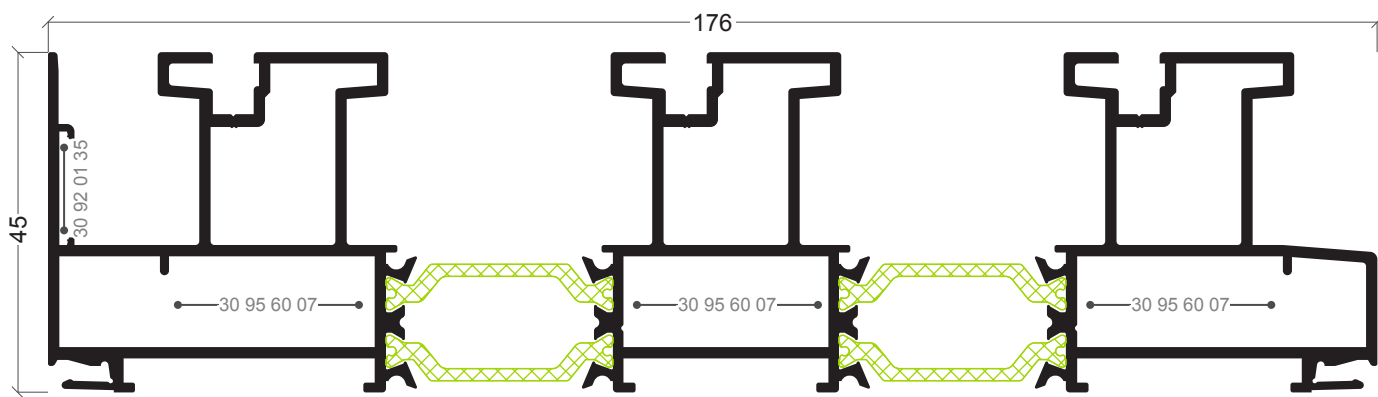
CW-10
Aro fixo bi-rail galandage



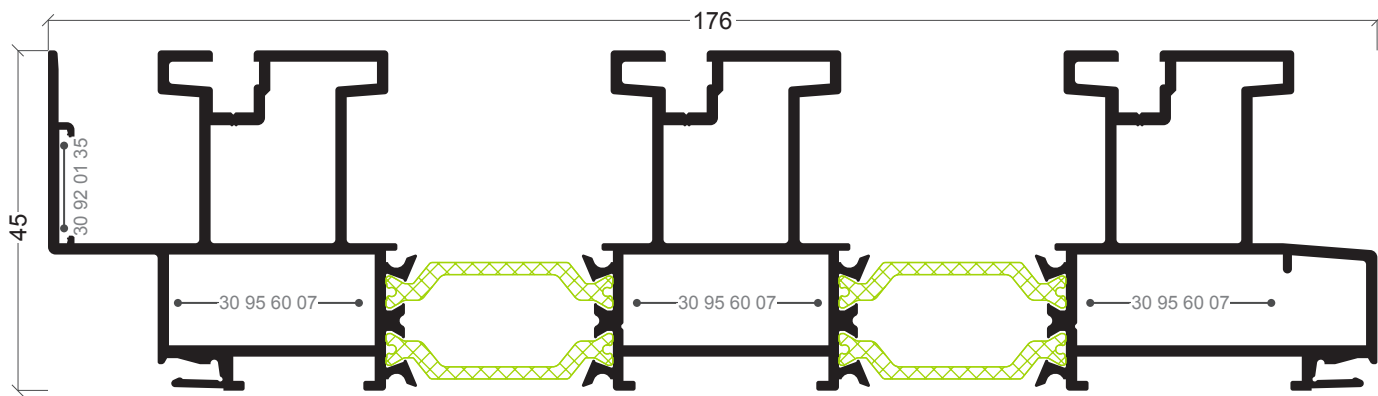
CW-20
Aro fixo bi-rail



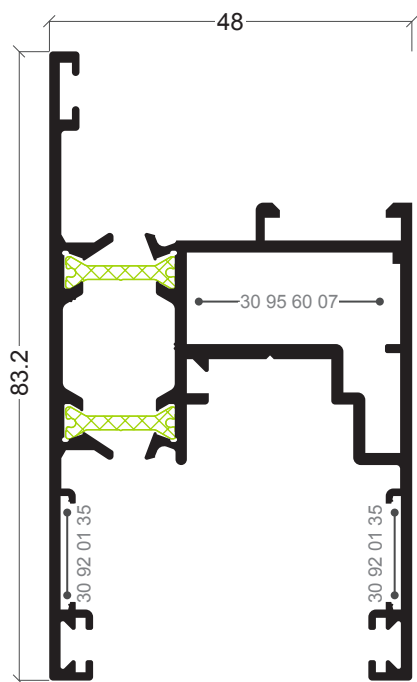
CW-21
Aro fixo bi-rail



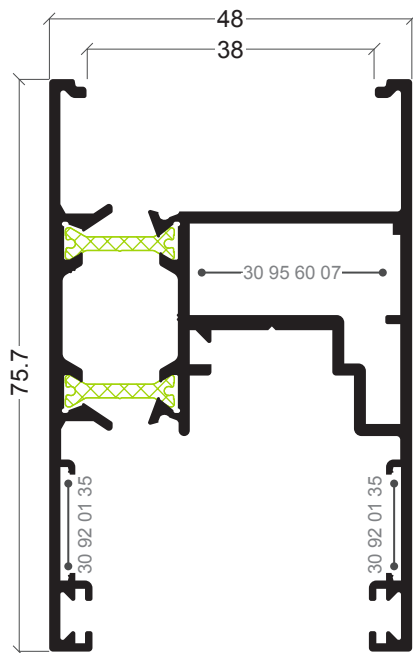
CW-22
Aro fixo tri-rail



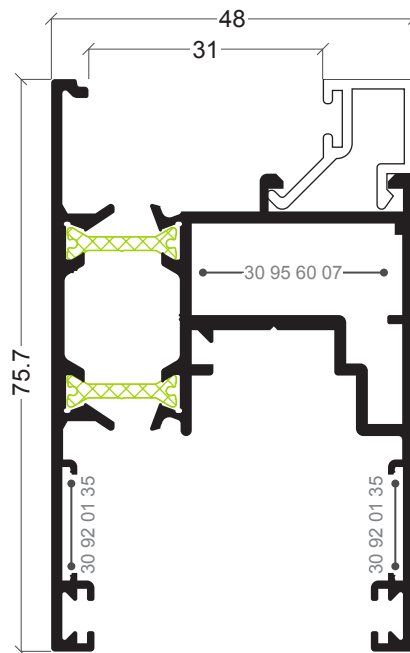
CW-23
Aro fixo tri-rail



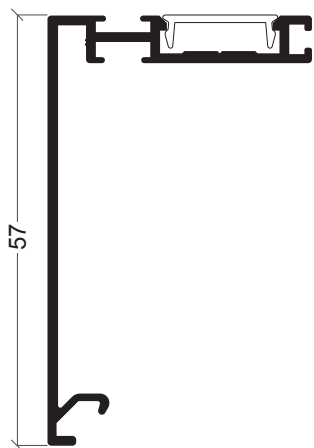
CW-02
Aro móvel perimetral



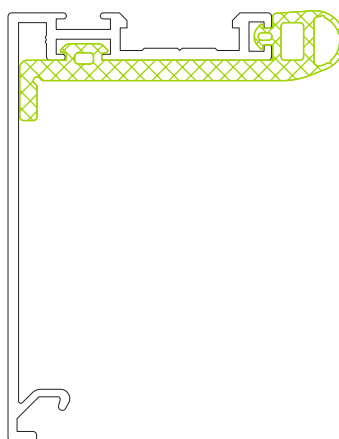
CW-03
Aro móvel perimetral



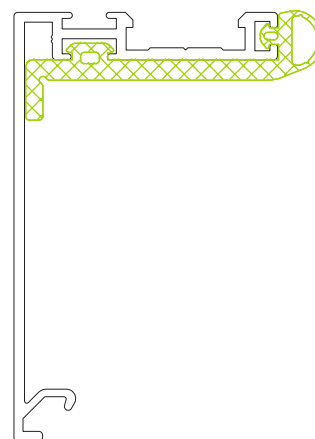
CW-04
Aro móvel perimetral



CW-06
Aro móvel perimetral



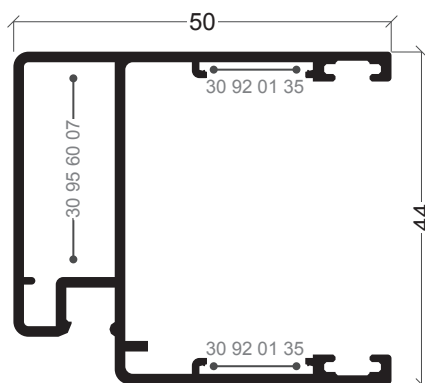
30 95 60 04
Junta central para CW-02



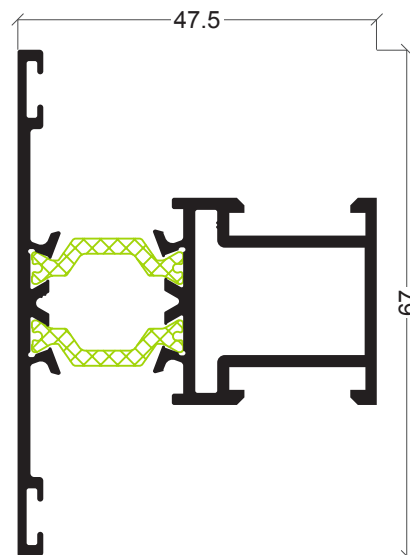
30 95 60 05
Junta central para CW-03/04



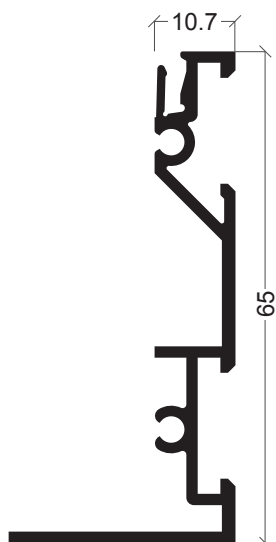
CW-15
Tampa



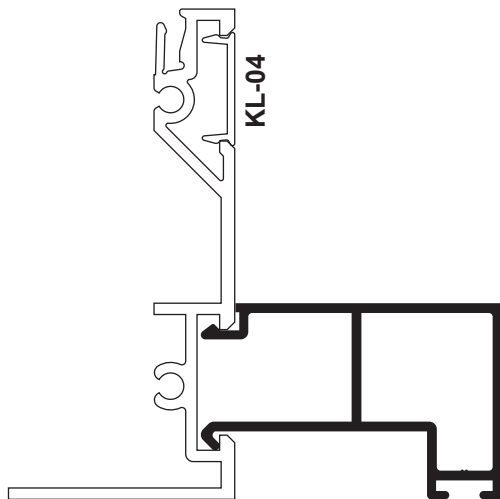
CW-14
Perfil para rede mosquiteira



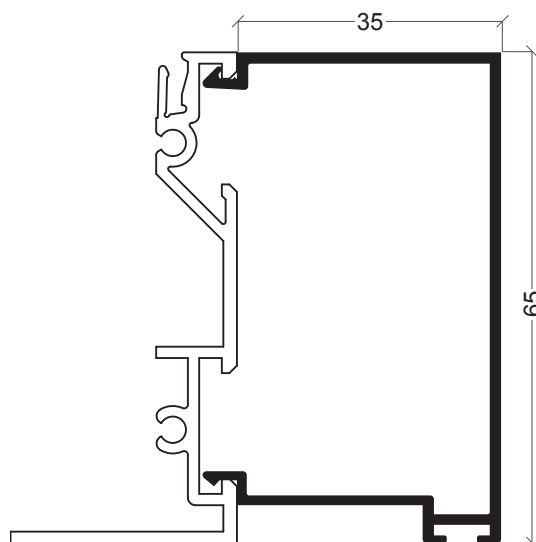
CW-16
Travessa



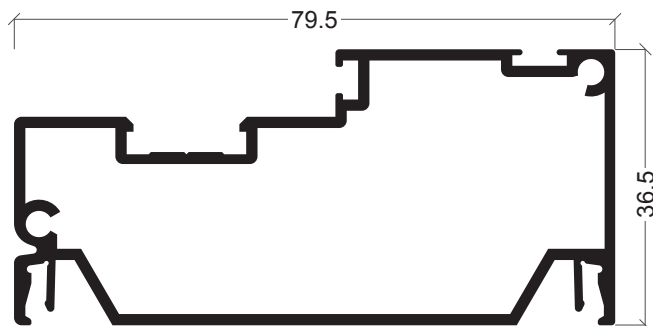
CW-11
Perfil para isolamento



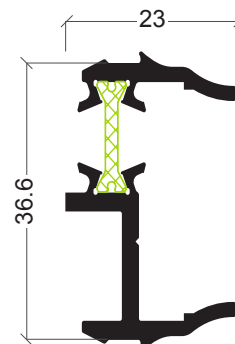
ARi-48
Bite



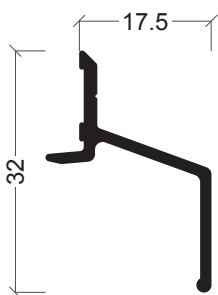
CW-12
Remate de isolamento



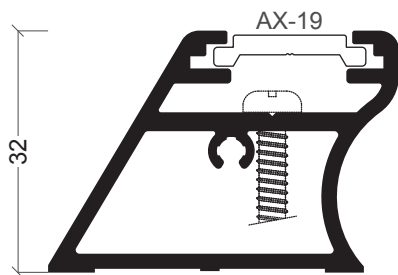
CW-13
Prumo de cruzamento



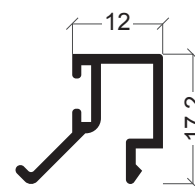
CTe-09
Perfil 4 folhas



CT-29
Pingadeira superior



CT-28
Reforço



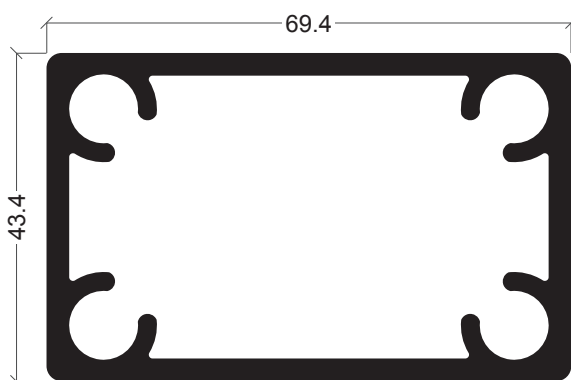
AX-70
Bite CW-04



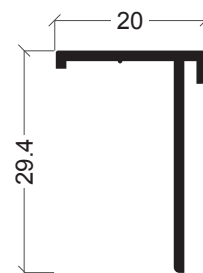
CTe-03
Perfil guia



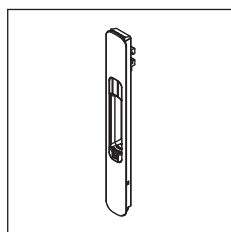
KL-04
Perfil complementar



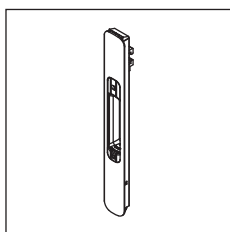
PO-07



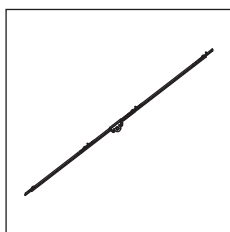
Y-24
Remate p/ apainelado



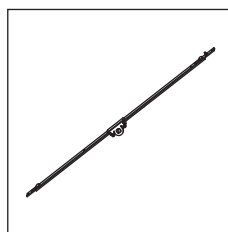
30 91 40 39/40/41
Fecho embutir manual
(natural/preto/branco)



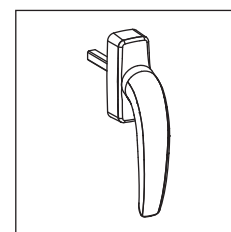
30 91 40 42/43/44
Fecho embutir automático
(natural/preto/branco)



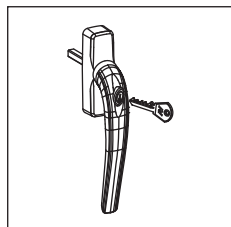
30 91 41 29
Barra multiponto 4
pontos (1800 mm)



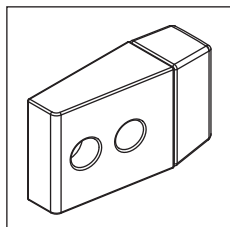
30 91 41 30
Barra multiponto 2
pontos (600 mm)



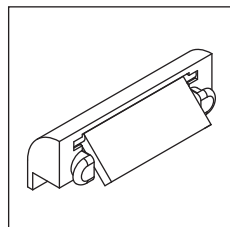
30 91 41 47/48
Cremone multi-ponto
(branco/preto)



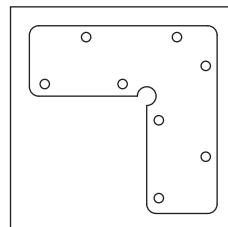
30 91 41 56/57
Cremone com chave multi-
ponto (branco/preto)



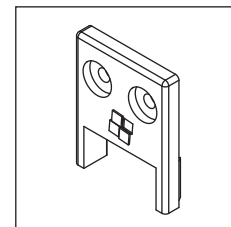
30 91 41 71
Topo limitador de
abertura



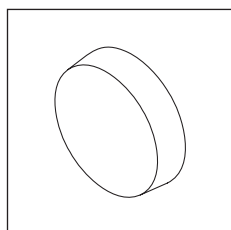
30 92 01 02/03
Goteira (preto/branco)



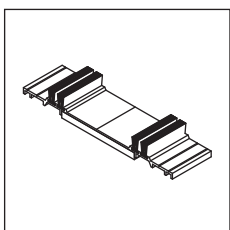
30 92 01 35
Esquadro de alinhamento
CW-01/02/03/04/05/08/09



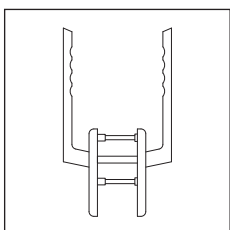
30 94 50 35
Tampa guia móvel recta
CW-06



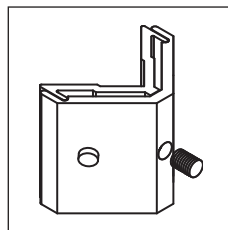
30 94 50 36
Tampa preta para parafuso
cabeça de queijo 9.3



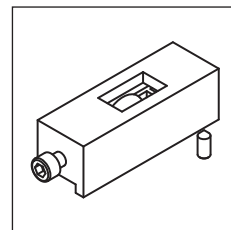
30 94 50 41
Cortavento superior
elevável



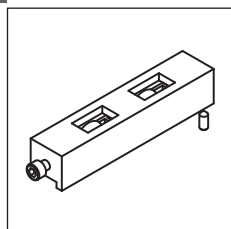
30 94 52 00/01/02
Puxador duplo para correr-
elevatória (natural/preto/inox)



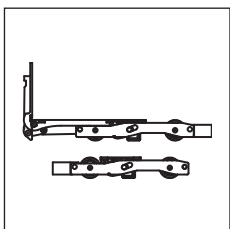
30 95 60 07
Esquadro 27x12 mm
centrado



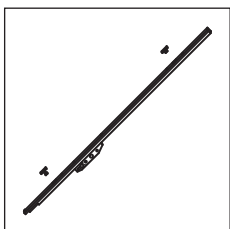
30 95 60 08
Rolamento simples regulável
CW (50 kg por rolamento)



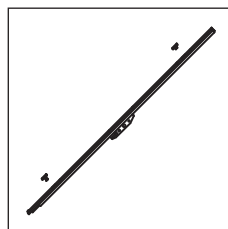
30 95 60 09
Rolamento duplo regulável
CW (100 kg por rolamento)



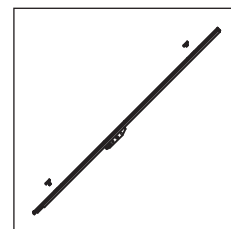
30 95 60 10
Conjunto rolamentos
elevável 200kg



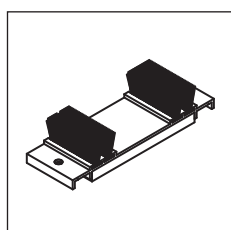
30 95 60 11
Ferragem correr/
elevatória 170



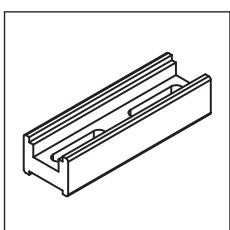
30 95 60 12
Ferragem correr/
elevatória 220



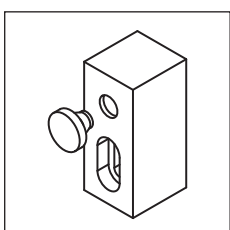
30 95 60 13
Ferragem correr/
elevatória 260



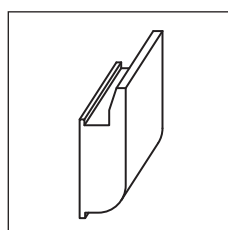
30 95 60 14
Corta-vento inferior/
superior



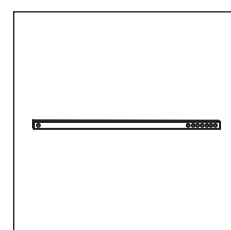
30 95 60 15
Calço multi-ponto nº 4



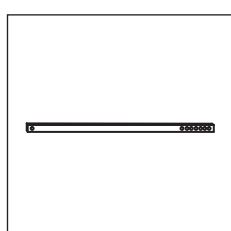
30 95 60 16
Batente lateral



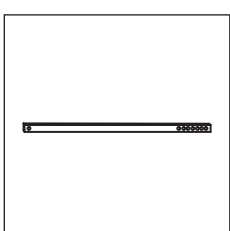
30 95 60 17
Guia



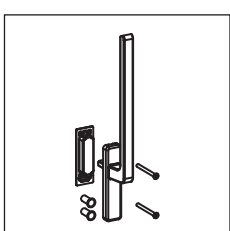
30 95 60 18
Barra de ligação 150



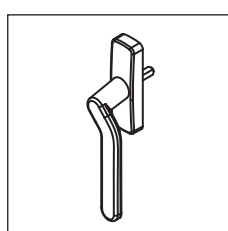
30 95 60 19
Barra de ligação 200



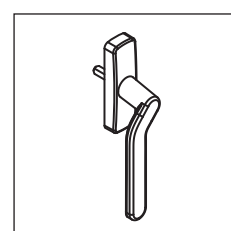
30 95 60 20
Barra de ligação 250



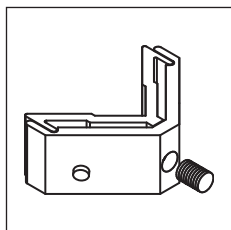
30 95 60 21/22/23/24/25
Conjunto puxador elevável
(natural/preto/branco/inox/bronze)



30 95 60 26/28
Puxador desviado M-P
direito branco/preto

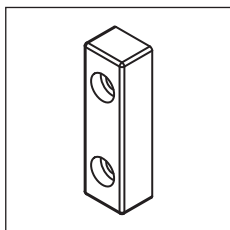


30 95 60 27/29
Puxador desviado M-P
esquerdo branco/preto



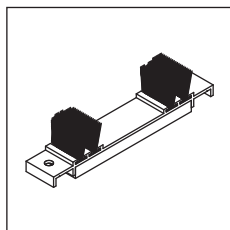
30 95 60 31

Esquadro 15x12 mm exterior



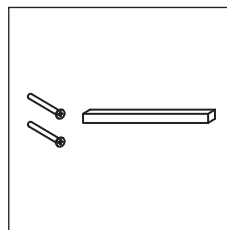
30 95 60 34

Calço 3/4 folhas



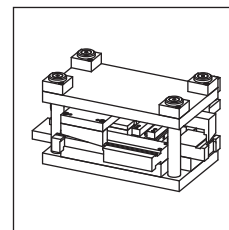
30 95 60 35

Corta-vento inferior/superior mono-rail



30 95 60 36

Conjunto perno + parafuso para puxador multiponto desviado duplo

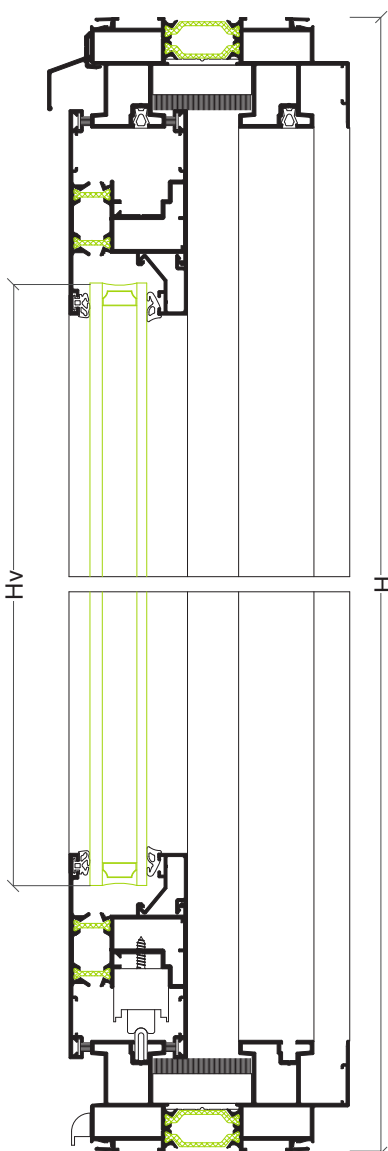
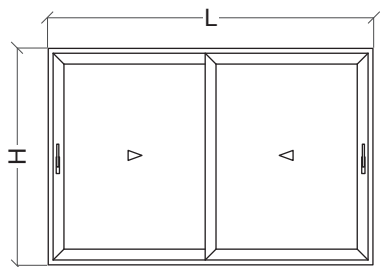


33 92 29 99

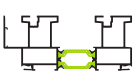


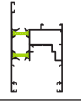














Cunho

Referência	Desenho	Descrição
30 20 26 03		Junta interior/exterior
30 93 00 60		Vedante exterior do vidro
30 93 00 61		Junta vedação exterior vidro 2 mm
30 93 00 62		Junta plana para vidro
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 94 01 46		Junta para CW-13
30 94 60 12		Pelúcia tri-fin
30 95 00 10		Pelúcia 7x9 mm
30 95 00 40		Pelúcia 7x5.5 mm
30 95 60 01		Junta tapa-canal central
30 95 60 02		Junta tapa-canal aro fixo
30 95 60 03		Junta vedação aro móvel
30 95 60 04		Junta central CW-02
30 95 60 05		Junta central CW-03/04
30 95 60 06		Junta em U para vidro de 30 mm
30 95 60 30		Junta isolante CW

Janela 2 folhas correr



Perfis

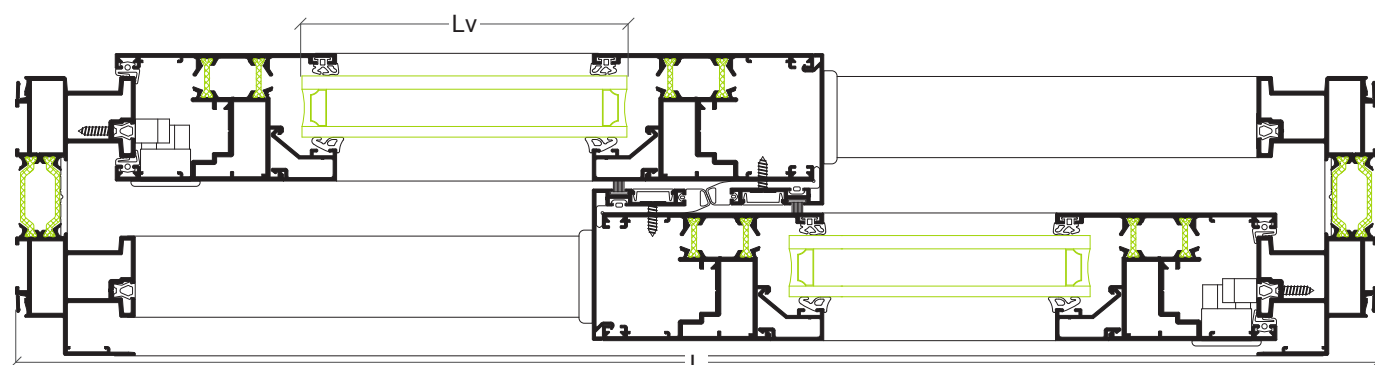
Desenho	Ref	Descrição	Corte	Quant	Medida
	CW-01	Aro fixo perimetral		2	L
				2	H
	CW-02	Aro móvel perimetral		4	L/2+2 mm
				4	H-75 mm
	CW-06	Tampa de cruzamento		2	H-75 mm
	CTe-03	Perfil guia		2	L-74 mm
	CT-29	Pingadeira		1	L
	KL-04	Perfil tampa central		2	H-75 mm
	---	Bite horizontal		4	L/2-124.5 mm
	---	Bite vertical		4	H-241.5 mm

Acessórios e Juntas

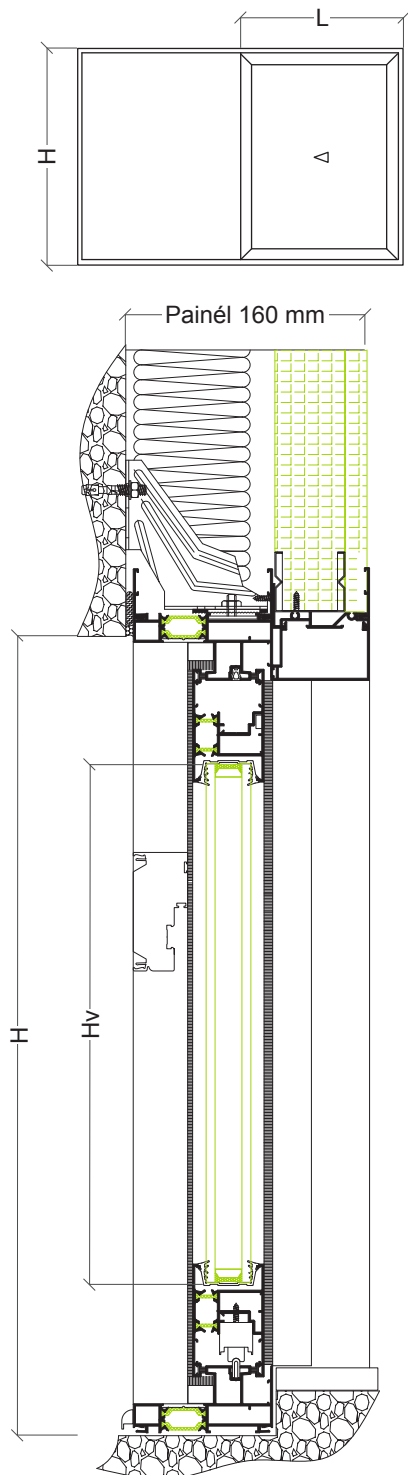
Referência	Descrição	Quantidade
30 95 60 07	Esquadro	16
30 92 01 35	Esquadro de alinhamento	20
30 95 60 14	Corta-vento inferior/superior	2
30 95 60 16	Batente lateral	4
30 94 50 35	Tampa guia	4
30 92 01 02	Goteira com válvula (preto)	diversas
30 91 40 43	Fecho lateral automático (preto)	2
30 95 60 09	Rolamento duplo regulável	4
30 95 00 40	Pelúcia 7x5.5 mm fin-seal	4L+2H
30 95 60 01	Junta tapa-canal central	2L+2H
30 95 60 02	Junta tapa-canal	2L+4H
30 95 60 03	Junta de vedação	4H
30 95 60 04	Junta central CW-02	2H
---	Junta exterior para vidro	2L+4H
---	Junta interior para vidro	2L+4H

Vidro

Hv = H-215 mm	Lv = L/2-138 mm
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Porta 1 folha galandage



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CW-07	Aro fixo perimetral		2	(Lx2)+112 mm
				2	H+15 mm
	CW-03	Aro móvel perimetral		2	L+52 mm
				2	H-60 mm
	CW-06	Tampa de cruzamento		1	H-60 mm
	CW-11	Perfil para isolamento		1	L+167 mm
				2	H-39 mm
	CW-12	Remate de isolamento		1	L+106 mm
				2	L+106 mm
	CW-13	Prumo de cruzamento		1	H-24 mm
	CTe-03	Perfil guia		1	(Lx2)+38 mm
	KL-04	Perfil tampa central		1	H-24 mm
				1	H-60 mm
	AXi-88	Remate lateral de isolamento exterior		1	(Lx2)+126 mm
				2	H+45 mm
	AXi-88	Remate lateral de isolamento interior		1	L+188 mm
				2	H+1.5 mm

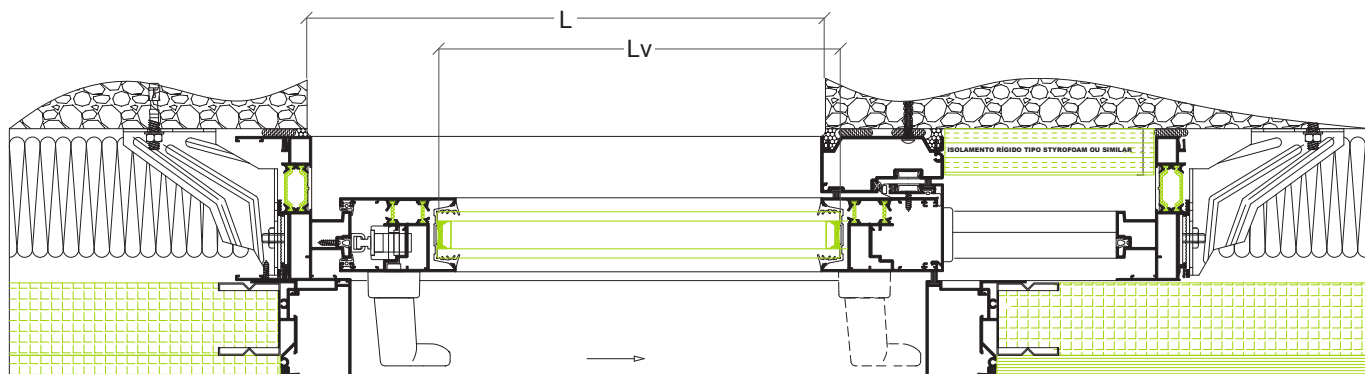
Acessórios e Juntas

Referência	Descrição	Quantidade
30 95 60 07	Esquadro	8
30 95 60 31	Esquadro exterior	4
30 92 01 35	Esquadro alinhamento	24
30 95 60 35	Corta-vento inferior/superior mono-rail	2
30 95 60 16	Batente lateral	2
30 94 50 35	Tampa guia	2
30 92 01 02	Goteira com válvula (preto)	diversas
30 91 41 48	Puxador preto	1
30 95 60 09	Rolamento duplo regulável	2
30 91 41 30	Ferragem multi-ponto 600 mm	2
30 95 60 15	Calço MP nº 4	4
30 95 00 40	Pelúcia 7x5.5 mm fin-seal	4L+2H
30 95 60 01	Junta tapa-canal central	4L+2H
30 95 60 02	Junta tapa-canal	4L+4H
30 95 60 03	Junta de vedação	2H
30 95 60 05	Junta central CW-03/04	H
30 59 60 06	Junta para vidro (30 mm)	2L+2H
30 94 01 46	Junta para CW-13	H
30 95 00 10	Pelúcia 7x9 mm	H
30 94 01 46	Junta para CW-13	H

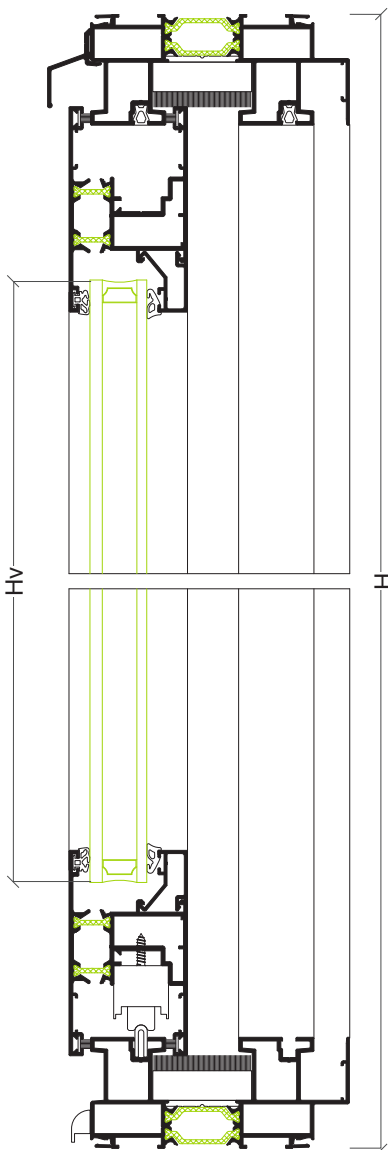
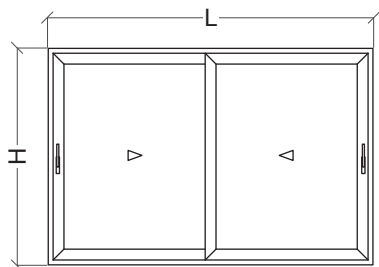
3 1 7

Vidro

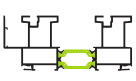


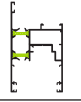














Hv = H-186 mm	Lv = L-75 mm
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Porta 2 folhas correr



Perfis

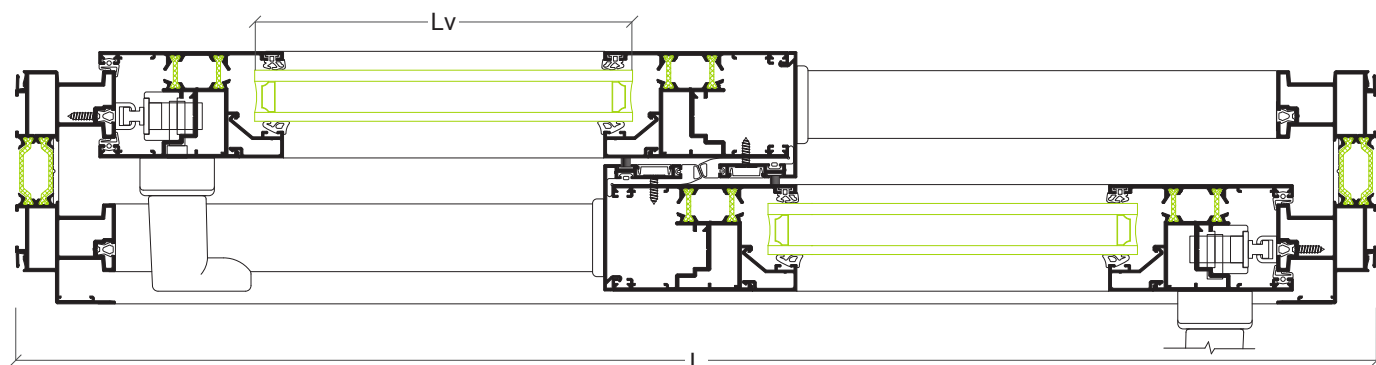
Desenho	Ref	Descrição	Corte	Quant	Medida
	CW-01	Aro fixo perimetral		2	L
				2	H
	CW-02	Aro móvel perimetral		4	L/2+2 mm
				4	H-75 mm
	CW-06	Tampa de cruzamento		2	H-75 mm
	CTe-03	Perfil guia		2	L-74 mm
	CT-29	Pingadeira		1	L
	KL-04	Perfil tampa central		2	H-75 mm
	---	Bite horizontal		4	L/2-124.5 mm
	---	Bite vertical		4	H-241.5 mm

Acessórios e Juntas

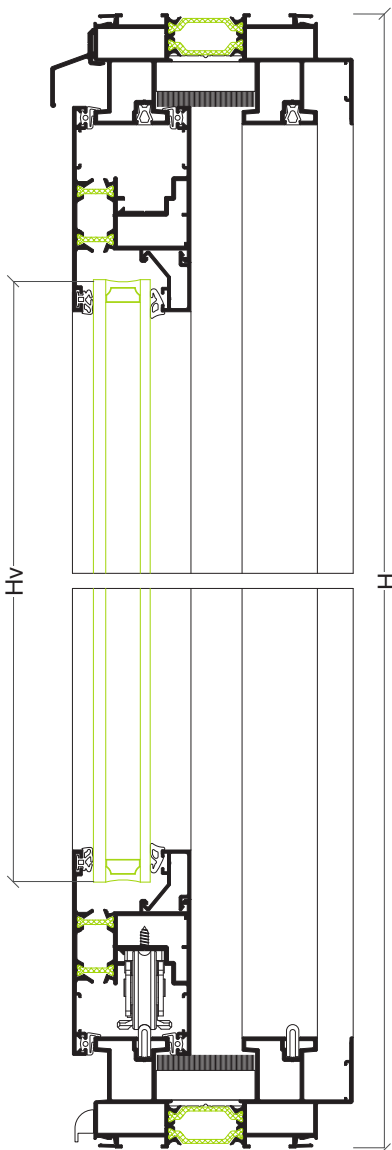
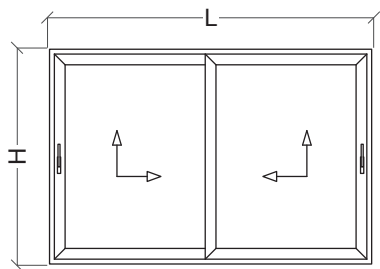
Referência	Descrição	Quantidade
30 95 60 07	Esquadro	16
30 92 01 35	Esquadro de alinhamento	20
30 95 60 14	Corta-vento inferior/superior	2
30 95 60 16	Batente lateral	4
30 94 50 35	Tampa guia	4
30 92 01 02	Goteira com válvula (preto)	diversas
30 95 60 29	Puxador desviado esquerdo (preto)	1
30 95 60 28	Puxador desviado direito (preto)	1
30 91 41 30	Ferragem multi-ponto 600 mm	2
30 95 60 15	Calço MP nº 4	8
30 91 41 71	Limitador	1
30 95 60 09	Rolamento duplo regulável	4
30 95 00 40	Pelúcia 7x5.5 mm fin-seal	4L+2H
30 95 60 01	Junta tapa-canal central	2L+2H
30 95 60 02	Junta tapa-canal	2L+4H
30 95 60 03	Junta de vedação	4H
30 95 60 04	Junta central CW-02	2H
---	Junta exterior para vidro	2L+4H
---	Junta interior para vidro	2L+4H

Vidro

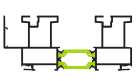


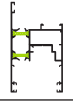














Hv = H-215 mm	Lv = L/2-138 mm
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Porta 2 folhas correr elevável



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CW-01	Aro fixo perimetral		2	L
				2	H
	CW-02	Aro móvel perimetral		4	L/2+2 mm
				4	H-75 mm
	CW-06	Tampa de cruzamento		2	H-75 mm
	CTe-03	Perfil guia		2	L-74 mm
	CT-29	Pingadeira		1	L
	KL-04	Perfil tampa central		2	H-75 mm
	---	Bite horizontal		4	L/2-124.5 mm
	---	Bite vertical		4	H-241.5 mm

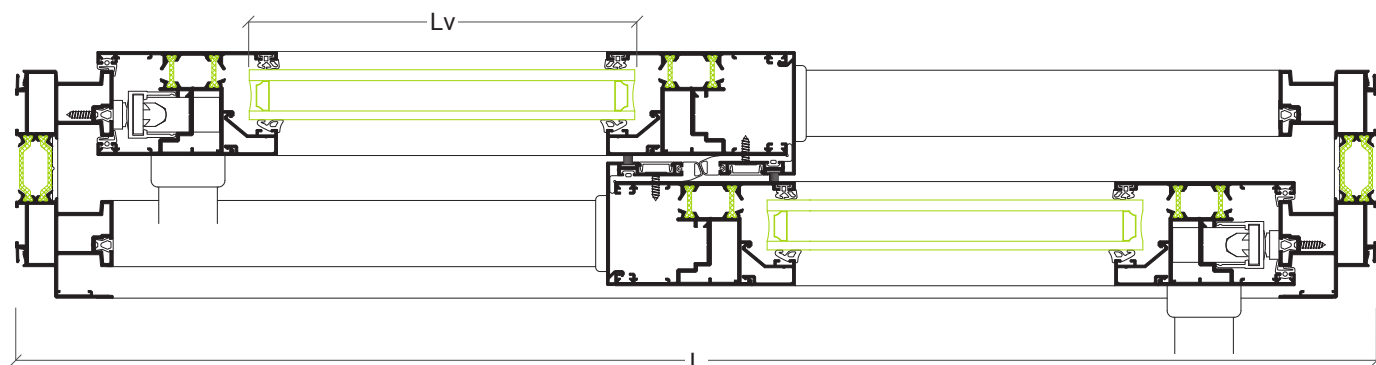
Acessórios e Juntas

Referência	Descrição	Quantidade
30 95 60 07	Esquadro	16
30 92 01 35	Esquadro de alinhamento	20
30 95 60 14	Corta-vento inferior	1
30 94 50 41	Corta-vento superior (elevável)	1
30 94 50 35	Tampa guia	4
30 92 01 02	Goteira com válvula (preto)	diversas
30 95 60 XX	Ferragem correr/elevatória	2
30 95 60 10	Conjunto rolamentos elevável	2
30 95 60 XX	Conjunto puxador elevável	2
30 95 60 XX	Barra de ligação	2
30 91 41 71	Limitador	1
30 95 00 40	Pelúcia 7x5.5 mm fin-seal	2H
30 95 60 01	Junta tapa-canal central	2L+2H
30 95 60 02	Junta tapa-canal	2L+4H
30 95 60 03	Junta de vedação	4L+4H
30 95 60 04	Junta central CW-02	2H
---	Junta exterior para vidro	2L+4H
---	Junta interior para vidro	2L+4H

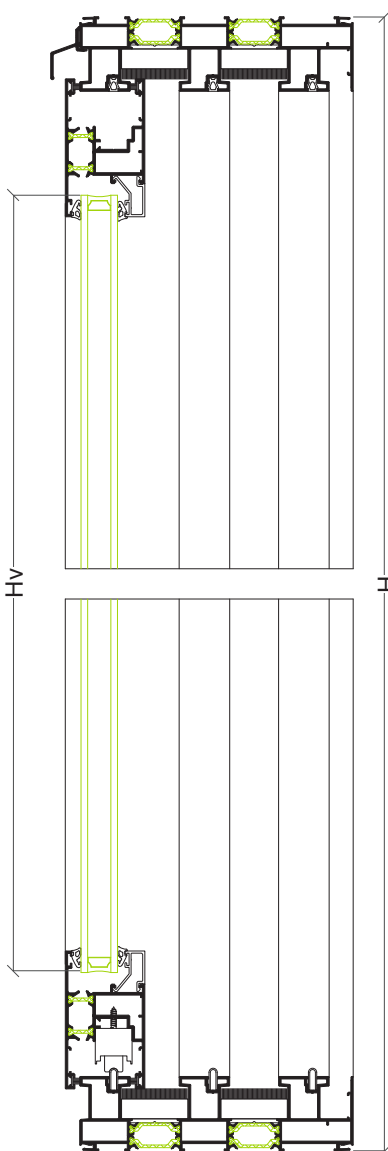
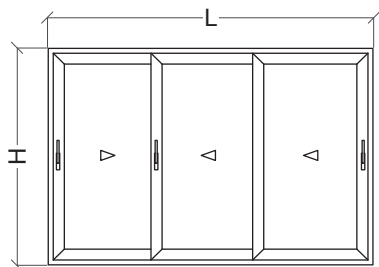
3 1 9

Vidro



















Hv = H-215 mm	Lv = L/2-138 mm
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Porta 3 folhas correr tri-rail



Perfis

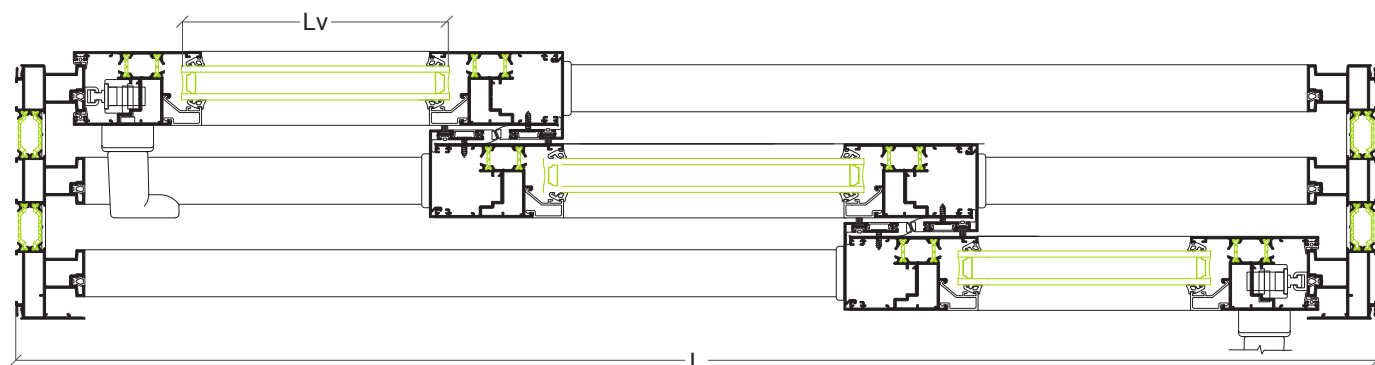
Desenho	Ref	Descrição	Corte	Quant	Medida
	CW-09	Aro fixo tri-rail perimetral		2	L
				2	H
	CW-02	Aro móvel perimetral		6	L/3+28 mm
				6	H-75 mm
	CW-06	Tampa de cruzamento		4	H-75 mm
	CTe-03	Perfil guia		3	L-74 mm
	CT-29	Pingadeira		1	L
	KL-04	Perfil tampa central		4	H-75 mm
	---	Bite horizontal		6	L/3-98.5 mm
	---	Bite vertical		6	H-241.5 mm

Acessórios e Juntas

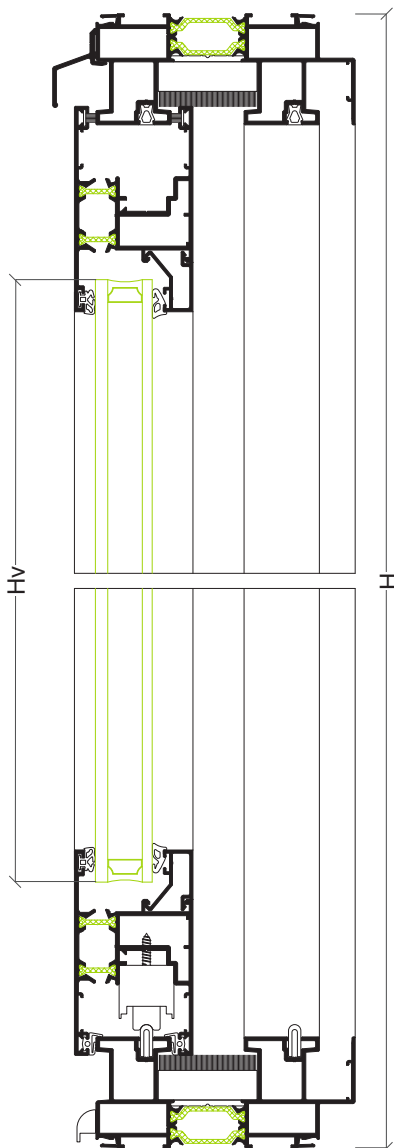
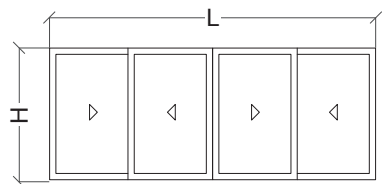
Referência	Descrição	Quantidade
30 95 60 07	Esquadro	20
30 92 01 35	Esquadro de alinhamento	28
30 95 60 14	Corta-vento inferior/superior	4
30 95 60 16	Batente lateral	4
30 94 50 35	Tampa guia	8
30 92 01 02	Goteira com válvula (preto)	diversas
30 95 60 29	Puxador desviado esquerdo (preto)	1
30 95 60 28	Puxador desviado direito (preto)	1
30 91 41 30	Ferragem multiponto 600 mm	2
30 95 60 15	Calço MP nº 4	8
30 91 41 71	Limitador	2
30 95 60 09	Rolamento duplo regulável	6
30 95 00 40	Pelúcia 7x5.5 mm fin-seal	4H+4L
30 95 60 01	Junta tapa-canal central	4L+4H
30 95 60 02	Junta tapa-canal	3L+6H
30 95 60 03	Junta de vedação	4H
30 95 60 04	Junta central CW-02	4H
---	Junta exterior para vidro	2L+6H
---	Junta interior para vidro	2L+6H

Vidro


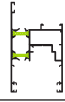










Hv = H-215 mm	Lv = L/3-113 mm
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Porta 4 folhas correr



Perfis

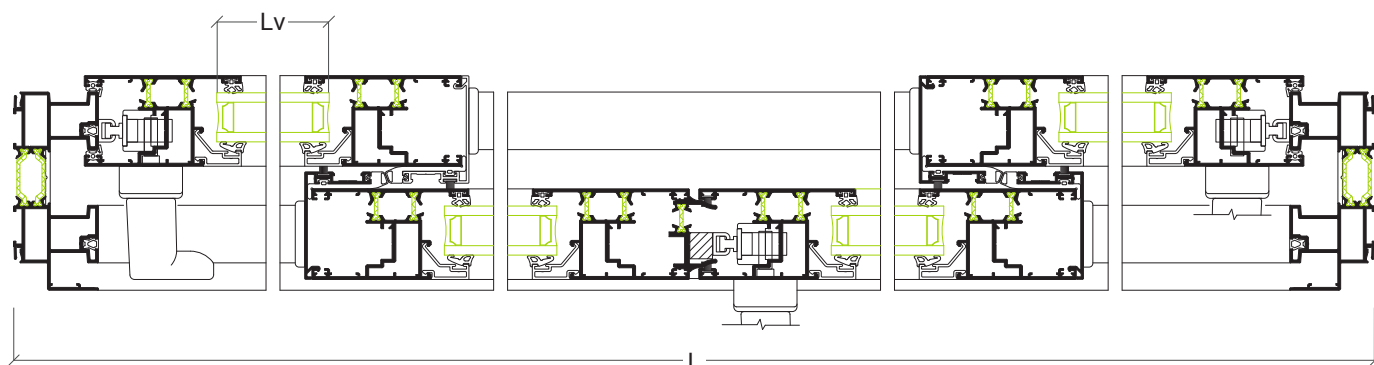
Desenho	Ref	Descrição	Corte	Quant	Medida
	CW-01	Aro fixo perimetral		2	L
				2	H
	CW-02	Aro móvel perimetral		8	L/4+20 mm
				8	H-75 mm
	CW-06	Tampa de cruzamento		4	H-75 mm
	CTe-03	Perfil guia		2	L-74 mm
	CT-29	Pingadeira		1	L
	KL-04	Perfil tampa central		4	H-75 mm
	CTe-09	Perfil 4 folhas		1	H-75 mm
	---	Bite horizontal		8	L/4-107 mm
	---	Bite vertical		8	H-241.5 mm

Acessórios e Juntas

Referência	Descrição	Quantidade
30 95 60 07	Esquadro	24
30 92 01 35	Esquadro de alinhamento	36
30 95 60 14	Corta-vento inferior/superior	6
30 95 60 16	Batente lateral	6
30 95 60 34	Calço 3-4 folhas	4
30 94 50 35	Tampa guia	8
30 92 01 02	Goteira com válvula (preto)	diversas
30 95 60 29	Puxador desviado esquerdo (preto)	1
30 95 60 28	Puxador desviado direito (preto)	2
30 91 41 30	Ferragem multiponto 600 mm	3
30 95 60 15	Calço MP nº 4	12
30 91 41 71	Limitador	2
30 95 60 09	Rolamento duplo regulável	8
30 95 00 40	Pelúcia 7x5.5 mm fin-seal	4L+6H
30 95 60 01	Junta tapa-canal central	2L+2H
30 95 60 02	Junta tapa-canal	2L+4H
30 95 60 03	Junta de vedação	4H
30 95 60 04	Junta central CW-02	4H
---	Junta exterior para vidro	2L+8H
---	Junta interior para vidro	2L+8H

Vidro

Hv = H-215 mm	Lv = L/4 - 120 mm
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Sistema
CTe

Sistema CTe

Sistema de correr-elevável com RPT - 125 mm

Características do sistema

Sistema de alumínio com rotura térmica para executar vãos de correr eleváveis.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Perfis com rotura térmica obtida por inserção de varetas isolantes de poliamida de 6.6 mm reforçadas com 25% de fibra de vidro de 24 mm ou 30 mm nos aros fixos e de 14.6 mm nos aros móveis.

Espessura média dos perfis de alumínio de 2 mm.

Aros fixos

Secção dos aros fixos de 2 guias de 127.4 mm para montagem em corte recto;

Secção dos aros fixos de 3 guias (tri-rail) de 189.4 mm para montagem em corte recto;

Secção do aro fixo perimetral de 2 guias de 123 mm para montagem a meia esquadria;

Secção do aro fixo perimetral de 3 guias (tri-rail) de 185 mm para montagem a meia esquadria;

Perfil guia de deslizamento inferior em aço inoxidável AISI 304 para evitar desgaste das peças.

Aros móveis

Secção dos aros móveis perimetrais de 50.6 mm com montagem a meia esquadria;

Enchimento de 4 a 38 mm;

Aros móveis de linha recta ou curva;

Bites rectos ou curvos;

Estanquidade assegurada através de juntas em EPDM e pelúcia tipo Fin-Seal.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 720 mm - 3350 mm (L); 1190 mm - 2690 mm (H) com opção de 3325 mm com prolongador;

Peso máximo de 300 kg por folha com a ferragem base, com opção de 400 kg por folha com kit suplementar;

Tipologias de 2, 3, 4 e 6 folhas móveis e/ou fixas;

Sistema de correr elevável com funcionamento baseado numa ferragem montada em conjunto nas folhas e que permite a elevação destas aquando da sua abertura, mesmo com configurações extremas de peso ou dimensão. Quando fechada a folha comprime as juntas em EPDM permitindo uma estanquidade perimetral perfeita;

Ferragem base com 2 pontos de fecho e possibilidade de adicionar mais 1 ou 2 pontos suplementares;

Ferragem base com micro ventilação;

Ferragem constituída por carrinhos de 4 rodas em pvc reforçadas com fibra de vidro e rolamentos de agulha de alta prestação;

Puxador específico para facilitar as manobra de abertura e fecho do vão;

Existe a opção de puxador duplo com colocação de canhão com chave para permitir a abertura pelo exterior.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CTe:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)

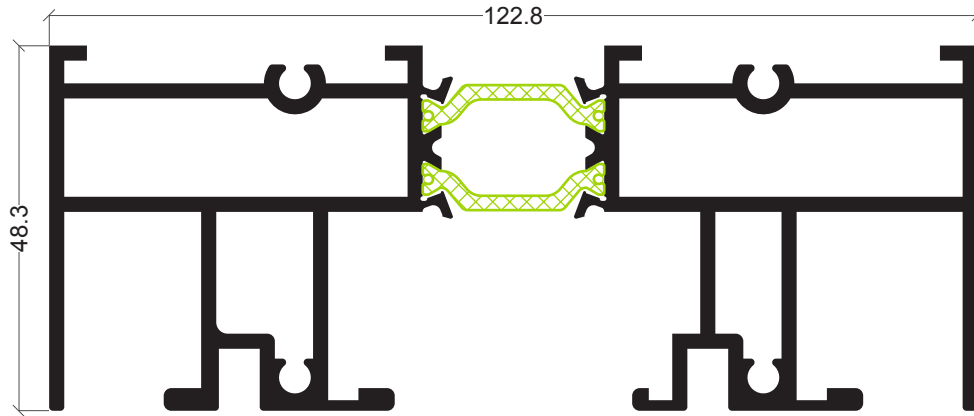
Coefficiente de transmissão térmica de vão de 2 folhas com 5.0 m x 2.5 m com vidro $U_g = 0.7 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.37 \text{ W/m}^2\text{K}$

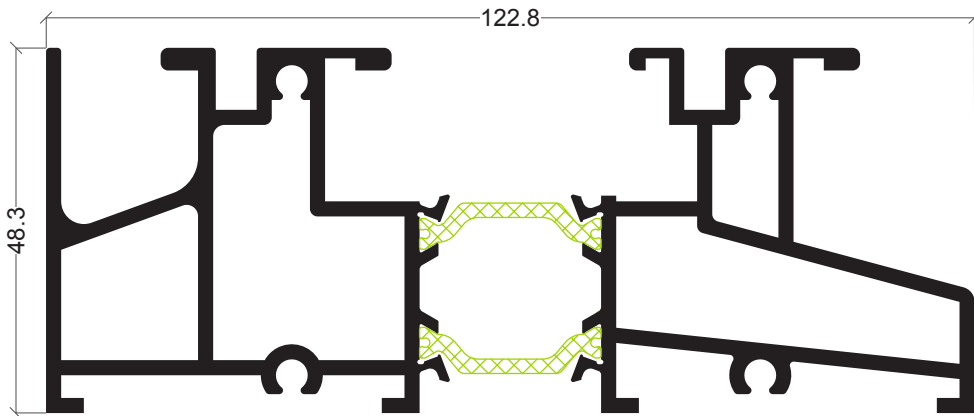
Coefficiente de atenuação acústica de vão de 2 folhas com vidro acústico 6/16/44.1:

• $R_w (C; C_{tr}) = 41 \text{ dB} (-1; -5)$

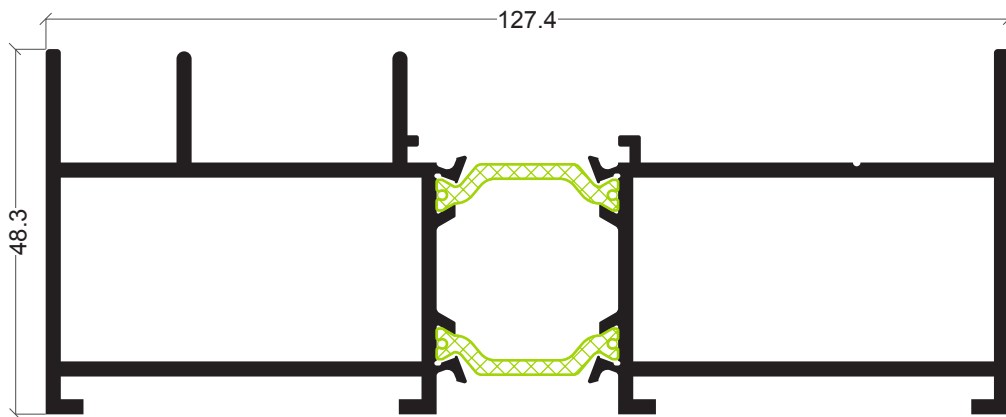
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3.



CTe-05
Padieira

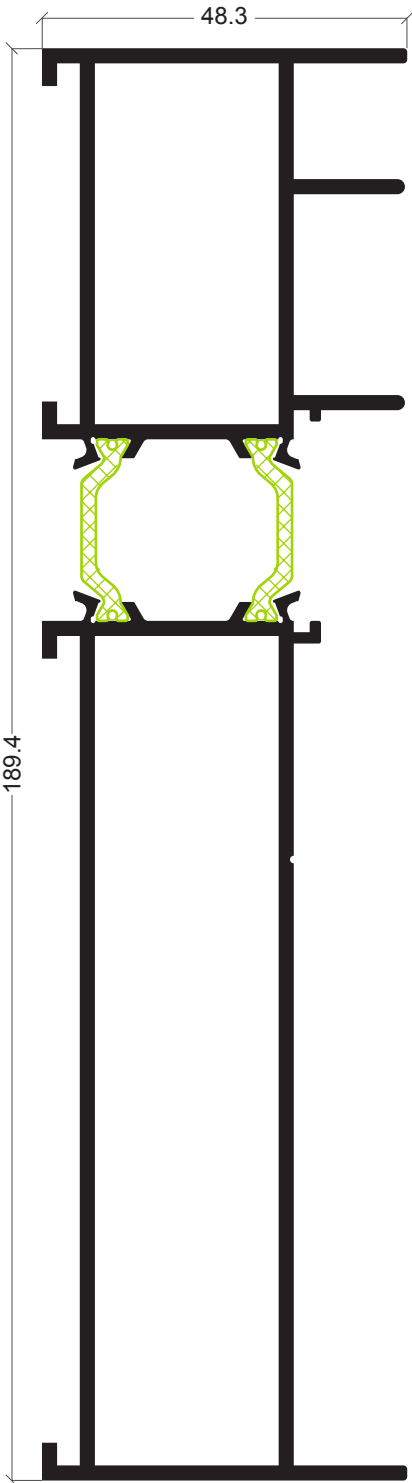


CTe-01
Soleira

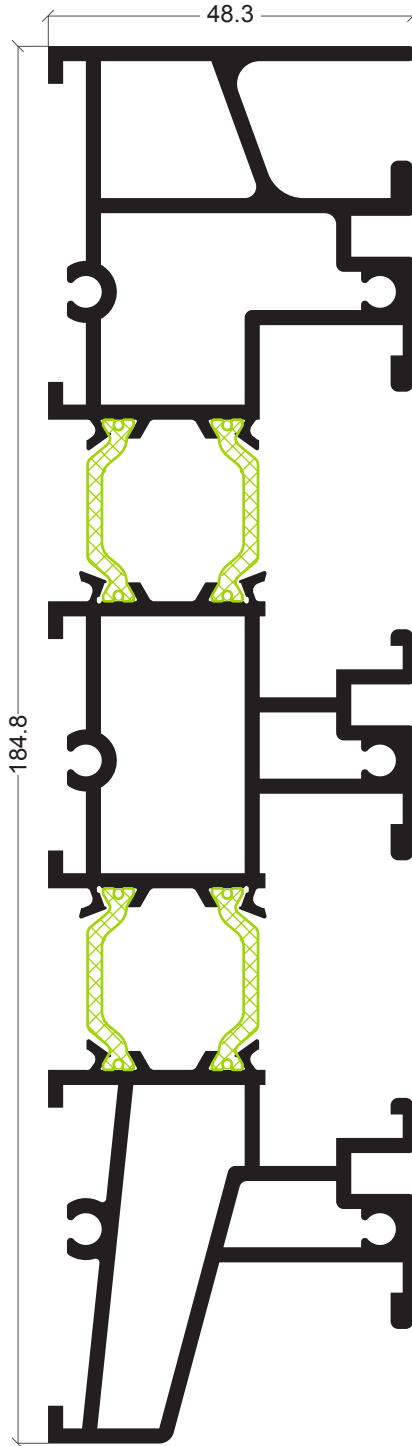


CTe-08
Ombreira

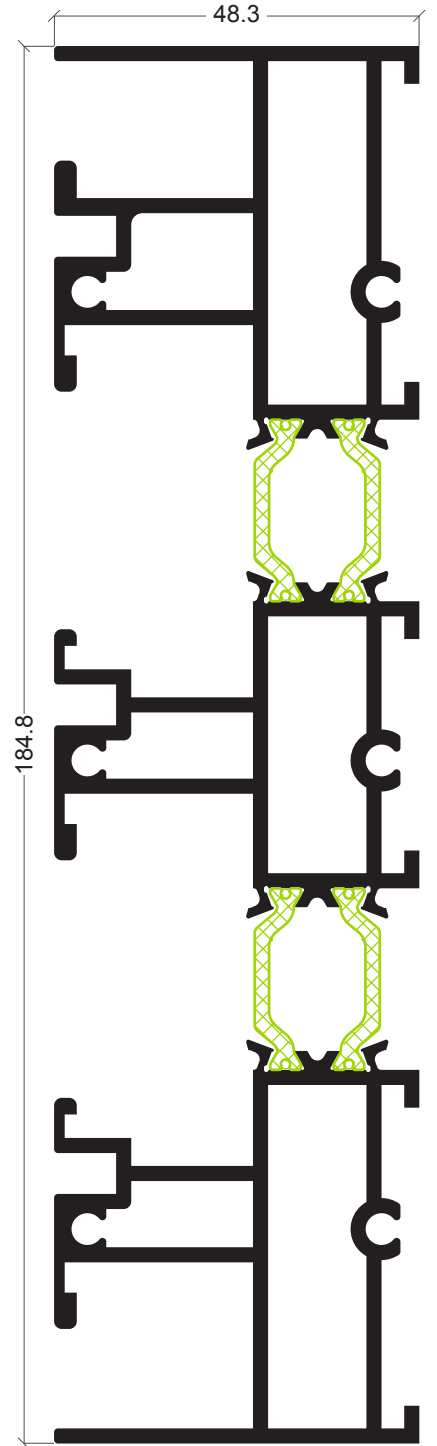
326



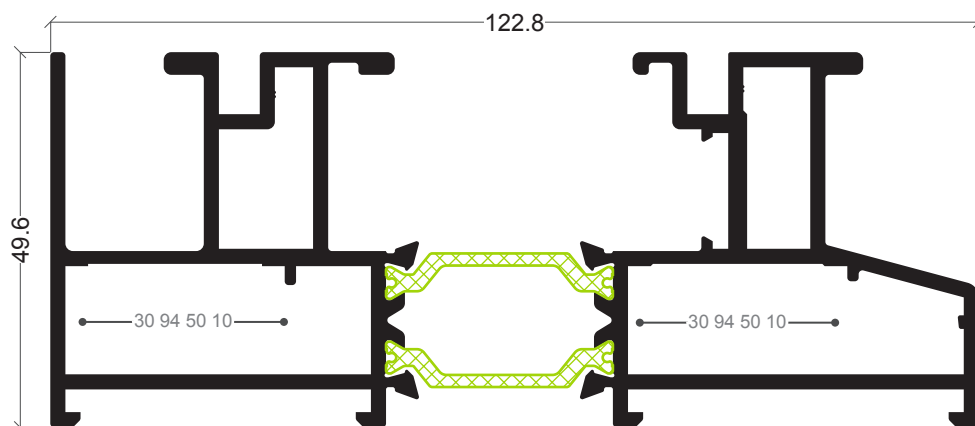
CTe-12
Ombreira tri-rail



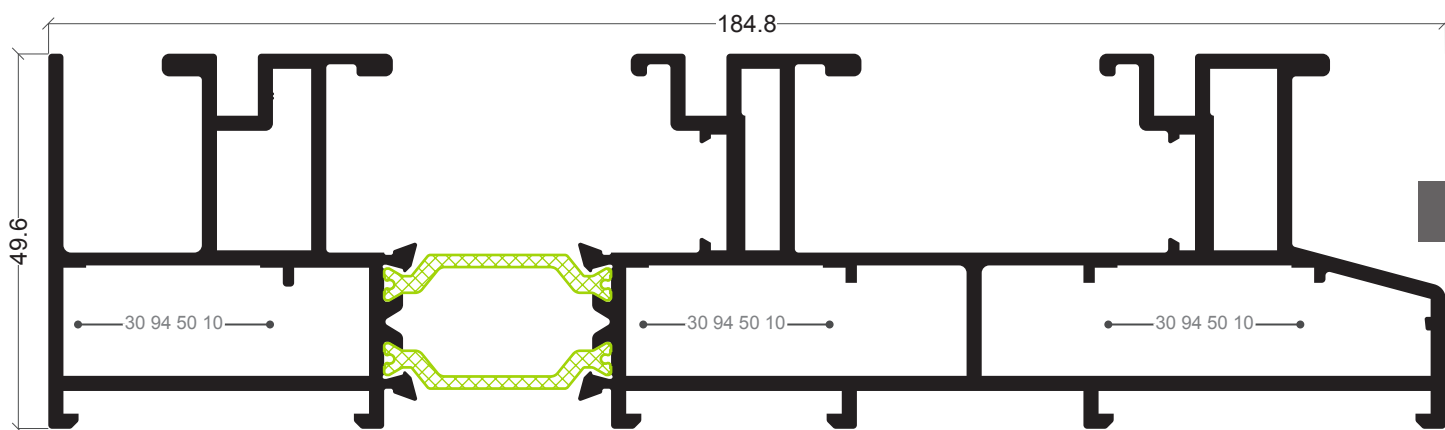
CTe-13
Soleira tri-rail



CTe-11
Padieira tri-rail



CTe-14
Soleira bi-rail



CTe-15
Soleira tri-rail

327



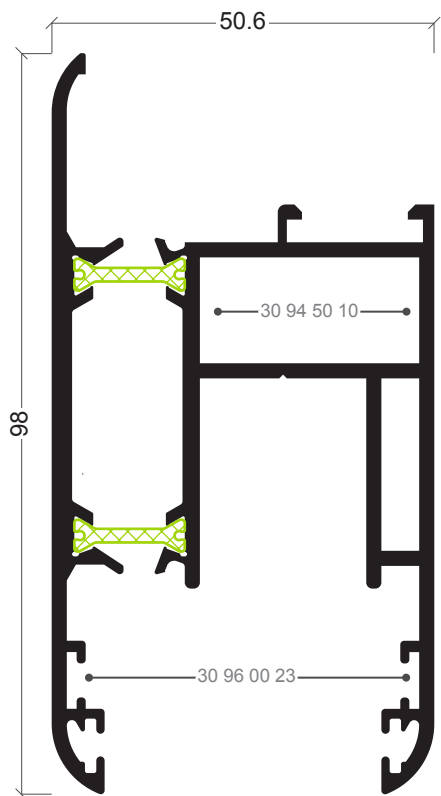
CTe-03
Guia carril (aço inox 304)



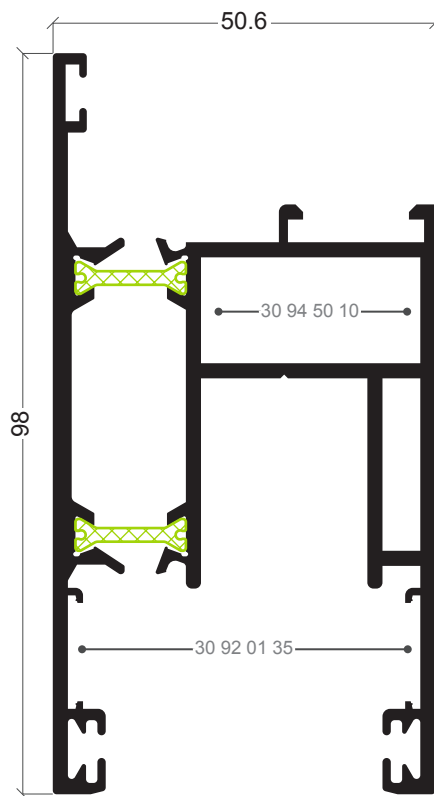
CTe-07
Tampa aro inf. PVC CTe-01/13



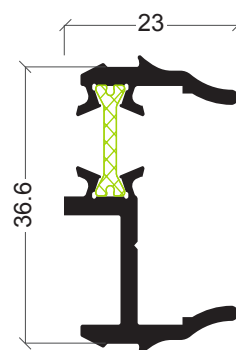
CTe-16
Tampa aro PVC CTe-05/11/14/15



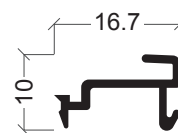
CTe-02
Aro móvel perimetral



CTe-17
Aro móvel perimetral

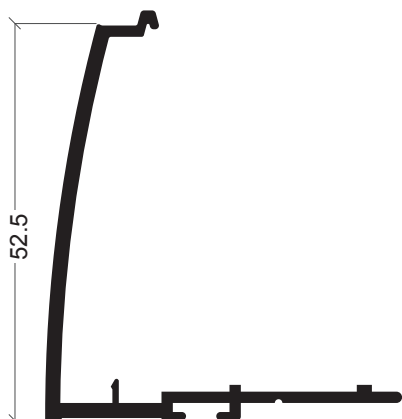


CTe-09
União 3/4 Folhas

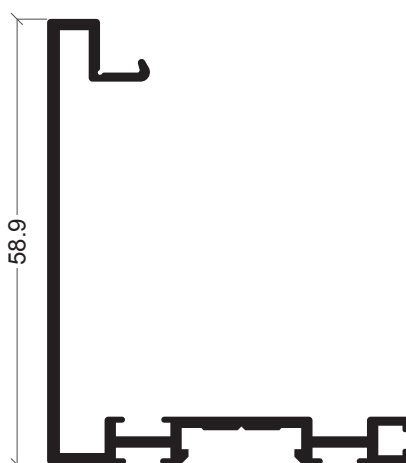


AX-33
Mola bite

328



CTe-06
Tampa cruzamento



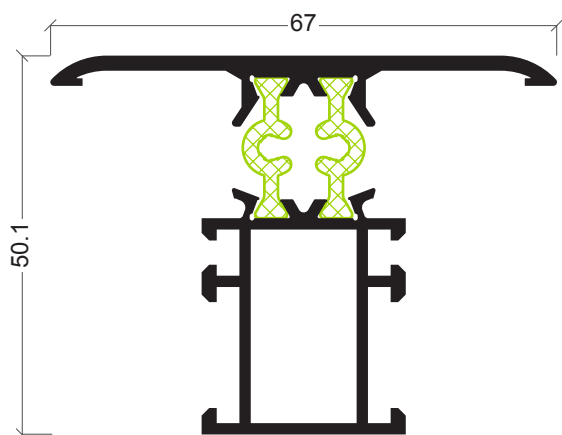
CTe-18
Tampa cruzamento recta



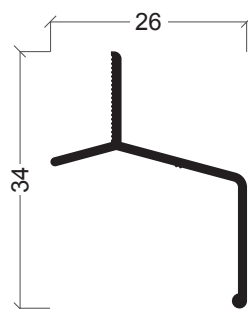
CTe-04
Cruzamento PVC



30 94 50 95
Junta central para CTe-18



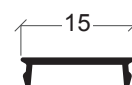
CTe-10
Travessa



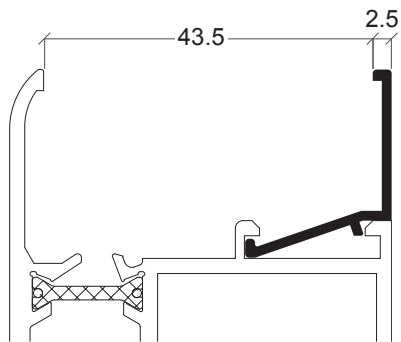
CT-07
Pingadeira superior



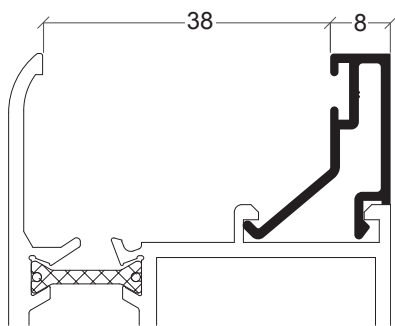
AX-19
Vareta



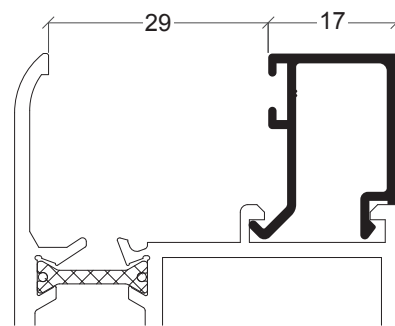
KL-04
Tampa p/ CTe-18



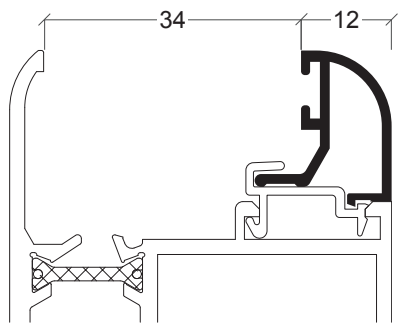
AX-69



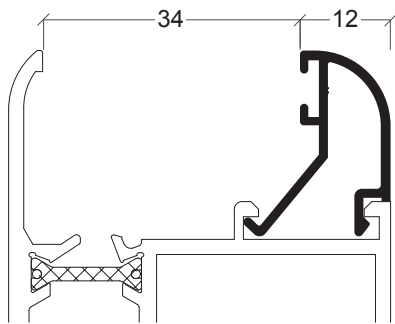
AX-74



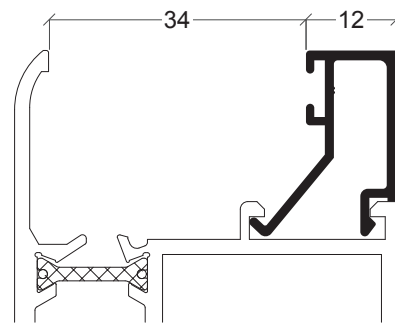
AX-46



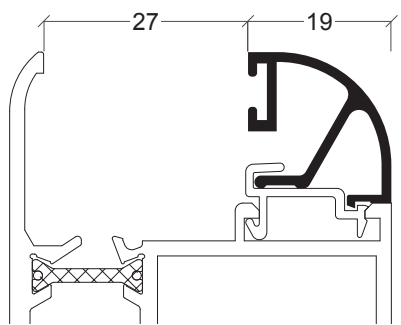
AX-37



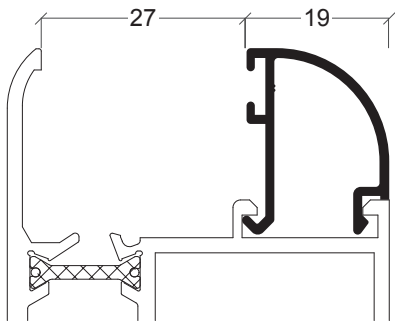
AZ-08



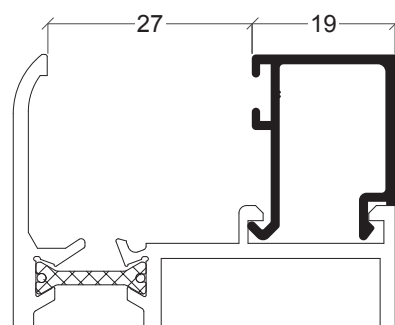
AX-36



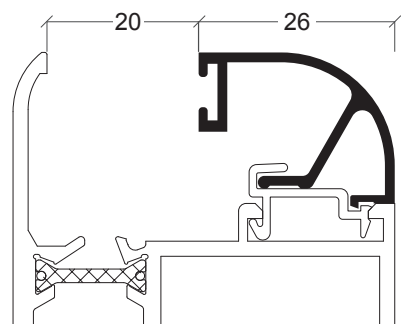
AX-30



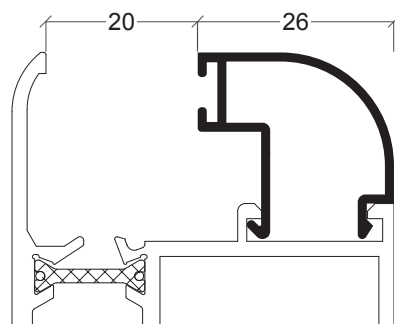
AZ-07



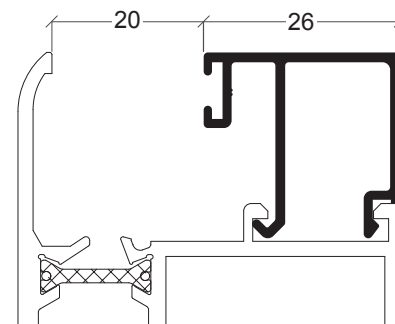
AX-35



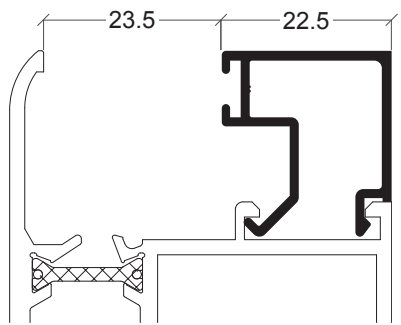
AX-29



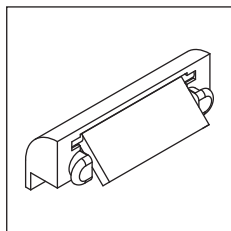
AZ-06



AX-31

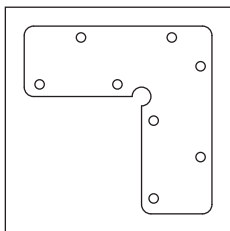


AX-78



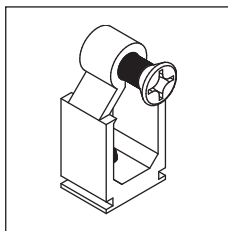
30 92 01 02/03

Goteira preto/branco



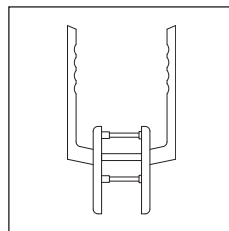
30 92 01 35

Esquadro alinhamento



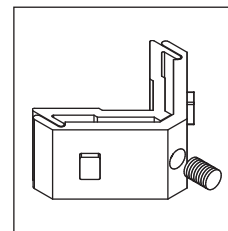
30 92 01 40

União travessa



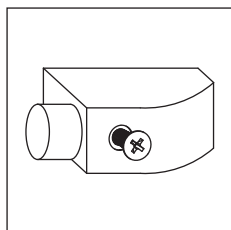
30 94 50 00/01/02

Puxador duplo para correr-elevatória (natural/preto/inox)



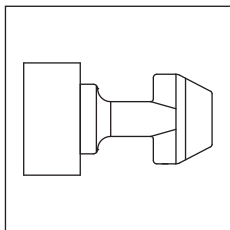
30 94 50 10

Esquadro



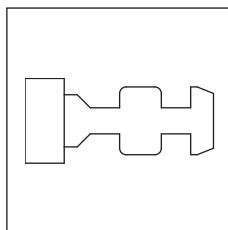
30 94 50 20

Limitador abertura



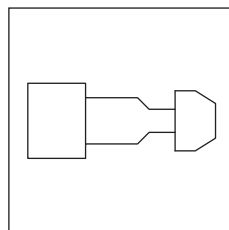
30 94 50 22

Ponto de fecho nº 1 para CTe-14/15



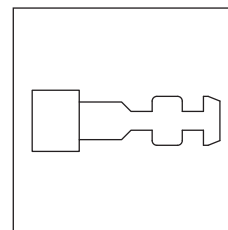
30 94 50 23

Ponto de fecho nº 2 para CTe-14/15



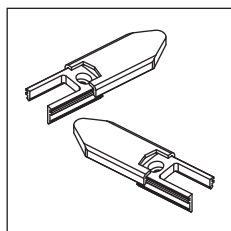
30 94 50 24

Ponto de fecho nº 3 para CTe-08/09/12



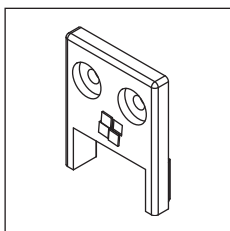
30 94 50 25

Ponto de fecho nº 4 para CTe-08/09/12



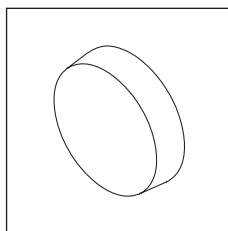
30 94 50 30

Jogo guia móvel CTe-06



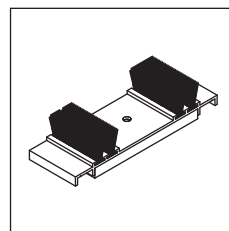
30 94 50 35

Tampa guia móvel CTe-18



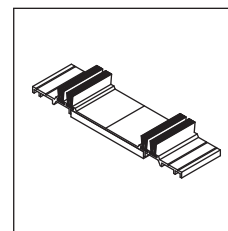
30 94 50 36

Tampa preta para parafuso cabeça de queijo 9.3



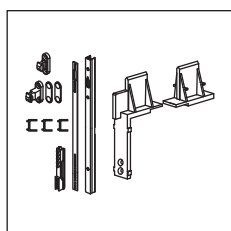
30 94 50 40

Corta vento inf. CTe-01/13



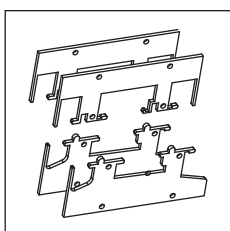
30 94 50 41

Corta vento inf/sup para CTe-05/11/14/15



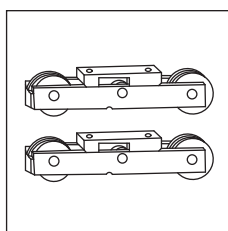
30 94 50 50

Prolongador



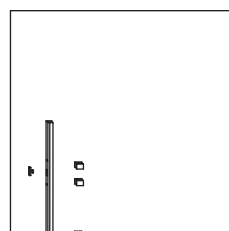
30 94 50 60

Junta estanq. aro inf/sup



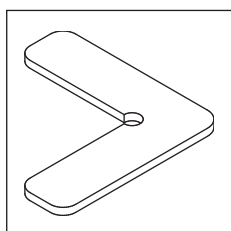
30 94 50 70

Jogo rolamento folha fixa 225Kg



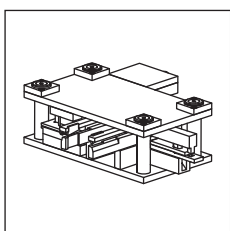
30 94 51 95

Kit elevável 400kg



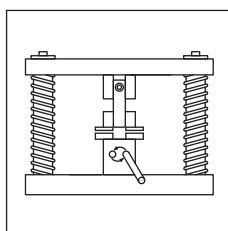
30 96 00 23

Esquadro alinhamento



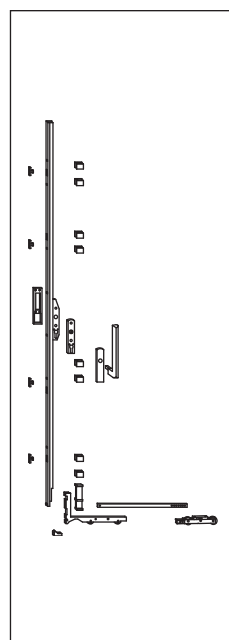
33 94 59 99

Cunho


















33 94 69 99

Cunho CTe-18



Ver tabela

Kit correr-elevatório para folha até 300kg

Referência	Desenho	Descrição
30 60 00 17		Junta exterior vidro plana 2 mm preto
30 93 00 60		Junta exterior para vidro para o perfil CTe-17 (4 mm)
30 93 00 61		Junta de vedação exterior para o perfil CTe-17 (2 mm)
30 93 00 62		Junta exterior plana para vidro para o perfil CTe-17 (4 mm)
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 94 50 90		Junta para os perfis CTe-2 ou CTe-17
30 94 50 95		Junta para o perfil CTe-18
30 94 51 00		Junta para os perfis CTe-8 ou CTe-12
30 95 00 40		Pelúcia 7x5.5 mm Fin-Seal para o perfil CTe-06
30 95 00 50		Pelúcia 7x6 mm Fin-Seal para o perfil CTe-18
30 95 60 02		Junta tapa-canal

largura mínima da folha: 720 mm
 largura máxima folha: 3350 mm

altura mínima folha: 1190 mm
 altura máxima folha: 2690 mm^a

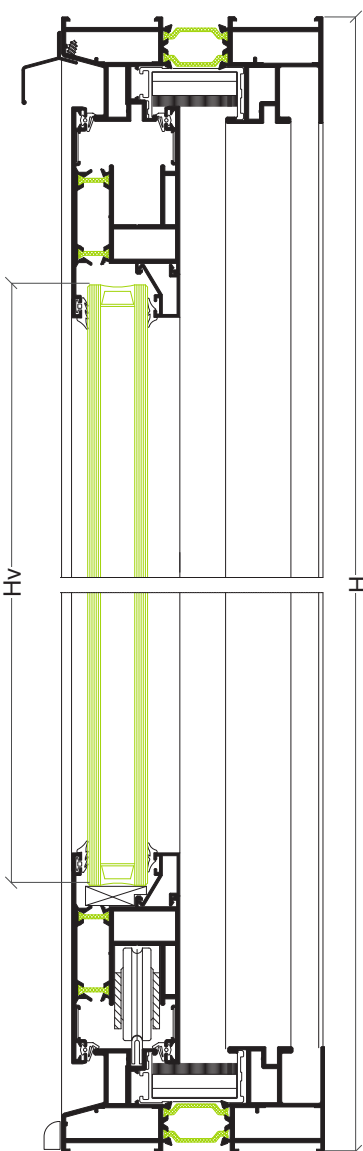
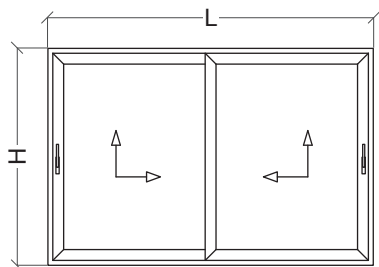
Kits Correr-eleváveis (peso máximo por folha 300kg ^b)							
Largura LF	Altura HF	Cor	Referência	Cor	Referência	Cor	Referência
720/1500	1190/1790	Branco	30 94 51 06	Preto	30945107	Natural	30945108
720/1500	1791/2090	Branco	30 94 51 11	Preto	30945112	Natural	30945113
720/1500	2091/2390	Branco	30 94 51 16	Preto	30945117	Natural	30945118
720/1500	2391/2690	Branco	30 94 51 21	Preto	30945122	Natural	30945123
1501/2000	1190/1790	Branco	30 94 51 26	Preto	30945127	Natural	30945128
1501/2000	1791/2090	Branco	30 94 51 31	Preto	30945132	Natural	30945133
1501/2000	2091/2390	Branco	30 94 51 36	Preto	30945137	Natural	30945138
1501/2000	2391/2690	Branco	30 94 51 41	Preto	30945142	Natural	30945143
2011/2500	1190/1790	Branco	30 94 51 46	Preto	30945147	Natural	30945148
2011/2500	1791/2090	Branco	30 94 51 51	Preto	30945152	Natural	30945153
2011/2500	2091/2390	Branco	30 94 51 56	Preto	30945157	Natural	30945158
2011/2500	2391/2690	Branco	30 94 51 61	Preto	30945162	Natural	30945163
2501/3350	1190/1790	Branco	30 94 51 66	Preto	30945167	Natural	30945168
2501/3350	1791/2090	Branco	30 94 51 71	Preto	30945172	Natural	30945173
2501/3350	2091/2390	Branco	30 94 51 76	Preto	30945177	Natural	30945178
2501/3350	2391/2690	Branco	30 94 51 81	Preto	30945182	Natural	30945183

^a Altura máxima até 3325 mm com prolongador (sob encomenda)

^b para folha com peso inferior a 300kg. Para folha entre 301kg e 400kg acrescentar o kit suplementar 30945195

Cor Inox sob encomenda

Porta 2 folhas correr elevável perimetral



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CTe-14	Aro fixo perimetral		2	L
				2	H
	CTe-17	Aro móvel perimetral		4	L/2+4 mm
				4	H-83 mm
	CTe-18	Tampa de cruzamento		2	H-83 mm
	CTe-03	Perfil guia		2	L-83 mm
	CT-07	Pingadeira		1	L
	----	Bite recto		4	L/2-152 mm
				4	H-279 mm
	CTe-16'	Tampa aro perimetral PVC		2	L-47 mm
				2	H-47 mm
	KL-04	Tampa para CTe-18		2	H-83 mm

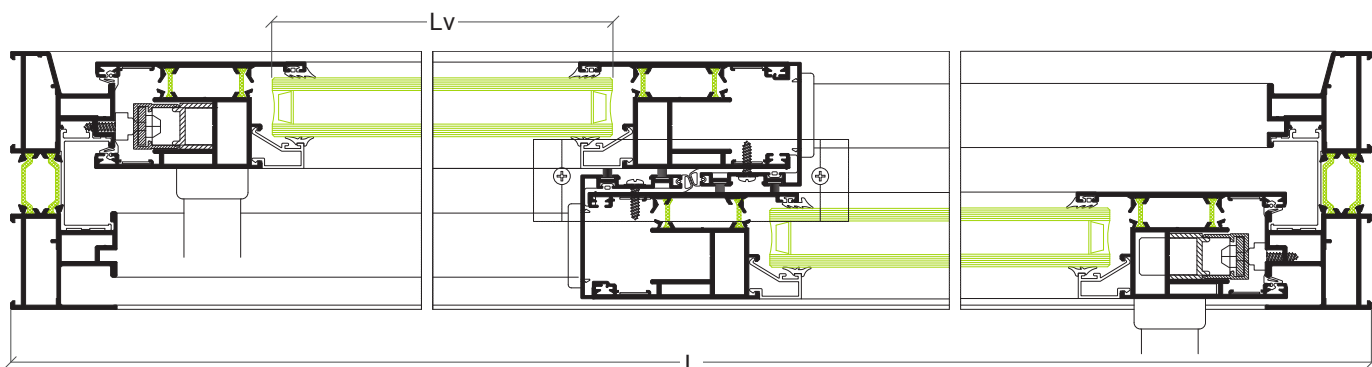
* cortar juntamente com o perfil CTe-14

Acessórios e Juntas

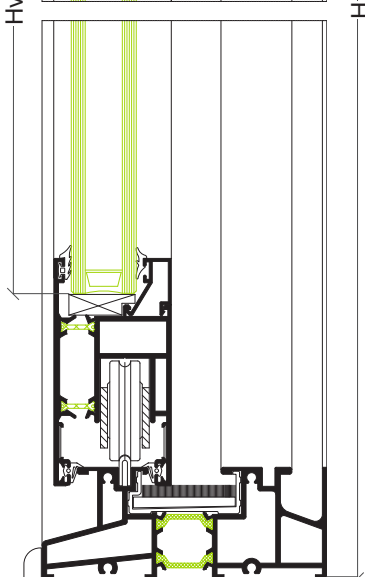
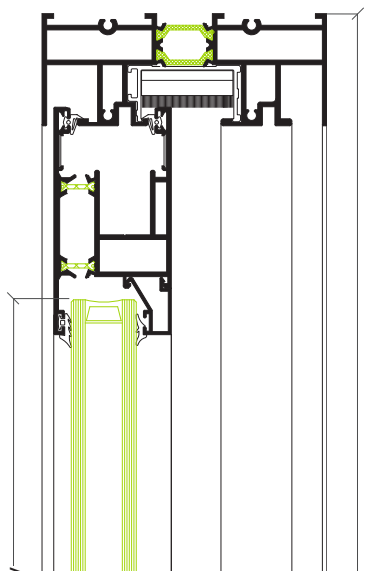
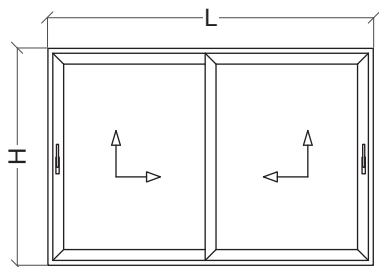
Referência	Descrição	Quantidade	
		Móvel/Fixa	Móvel/Móvel
----	Kit elevável	1	2
30 94 50 10	Esquadro	16	16
30 94 50 35	Tampa guia lateral	4	4
30 92 01 35	Esquadro alinhamento	16	16
30 94 50 41	Corta ventos	2	2
30 92 01 02	Goteira com válvula (cor preto)	diversas	diversas
30 95 00 50	Pelúcia 7x6 mm Fin-seal	4H	4H
30 94 50 95	Junta central CTe-Recta	2H	2H
30 94 50 90	Junta aro móvel perimetral	2L+4H	2L+4H
----	Junta para vidro (interior)	2L+4H	2L+4H
----	Junta para vidro (exterior)	2L+4H	2L+4H
30 94 51 95	Kit suplementar (folha com 301kg-400kg)	1 (opcional)	2 (opcional)
30 94 50 50	Prolongador (Hf -> 2790 mm-3225 mm)	1 (opcional)	2 (opcional)
30 94 50 20	Limitador de abertura	-	1
30 94 50 70	Rolamento folha fixa	2	-

Vidro



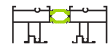

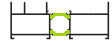

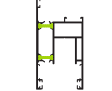













Hv = H-253 mm	Lv = L/2-162 mm
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Porta 2 folhas correr elevável



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CTe-01	Soleira		1	L-67 mm
	CTe-05	Padieira		1	L-67 mm
	CTe-08	Ombreira		2	H
	CTe-17	Aro móvel perimetral		4	L/2-6 mm
	CTe-18	Tampa de cruzamento		2	H-81 mm
	CTe-03	Perfil guia		2	L-67 mm
	----	Bite recto		4	L/2-150 mm
	CTe-16'	Tampa para padieira		1	L-67 mm
	CTe-07'	Tampa para soleira		1	L-67 mm
	KL-04	Tampa para CTe-18		2	H-83 mm

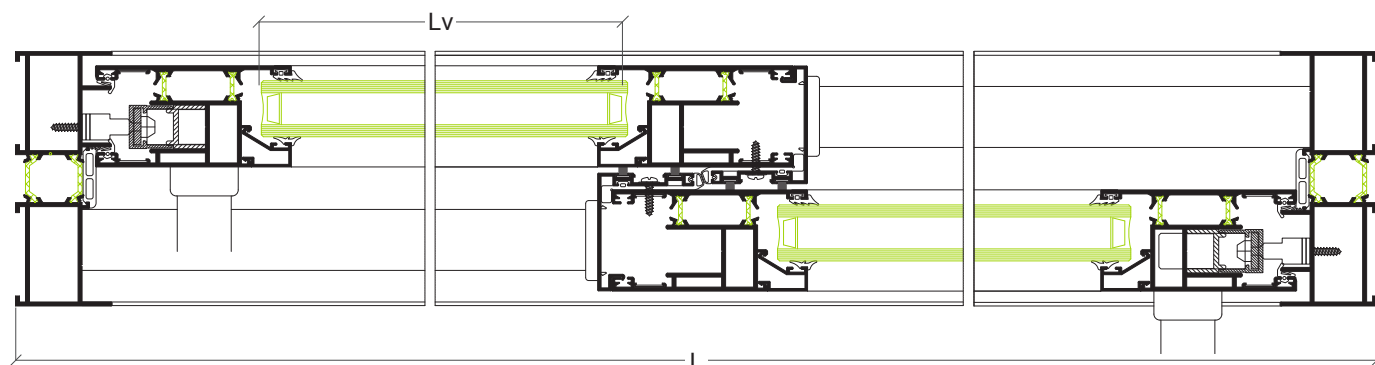
* cortar juntamente com o respectivo perfil de alumínio

Acessórios e Juntas

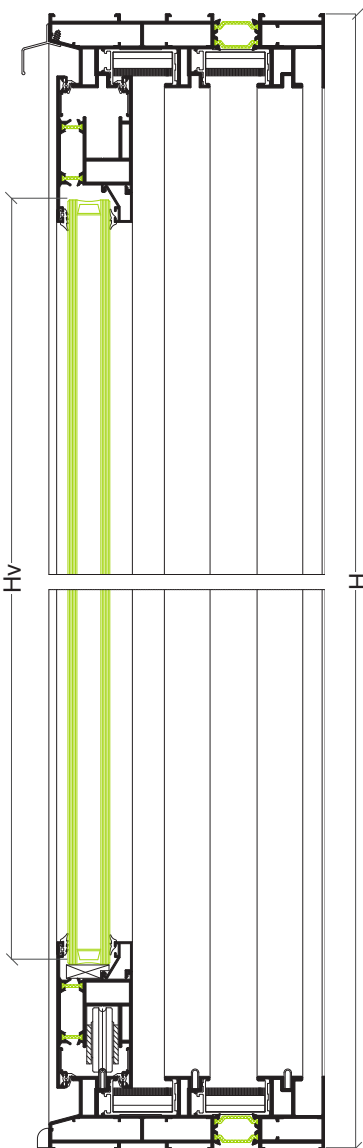
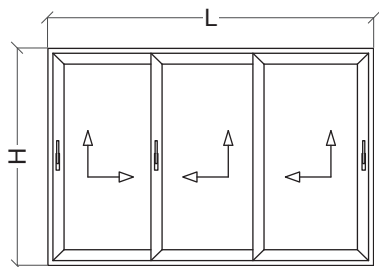
Referência	Descrição	Quantidade
----	Kit elevável	2
30 94 50 10	Esquadro	8
30 94 50 35	Tampa guia lateral	4
30 92 01 35	Esquadro alinhamento	16
30 94 50 40	Corta vento inferior	1
30 94 50 41	Corta vento superior	1
30 94 50 60	Kit de juntas de estanquidade	1
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 95 00 50	Pelúcia 7x6 mm Fin-Seal	4H
30 94 50 90	Junta aro perimetral	4L+4H
30 94 51 00	Junta ombreira	2H
30 94 50 95	Junta central CTe-Recta	2H
----	Junta para vidro (interior)	2L+4H
----	Junta para vidro (exterior)	2L+4H
30 94 51 95	Kit suplementar (folha com 301kg-400kg)	2 (opcional)
30 94 50 50	Prolongador (Hf -> 2790 mm-3225 mm)	2 (opcional)
30 94 50 20	Limitador de abertura	1

Vidro

Hv = H-253 mm	Lv = L/2-164 mm
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Porta 3 folhas correr elevável tri-rail



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CTe-15	Aro fixo tri-rail perimetral		2	L
				2	H
	CTe-17	Aro móvel perimetral		6	L/3+33 mm
				6	H-83 mm
	CTe-18	Tampa de cruzamento		4	H-83 mm
	CTe-03	Perfil guia		3	L-83 mm
	CT-07	Pingadeira		1	L
	-----	Bite recto		6	L/3-123 mm
				6	H-279 mm
	CTe-16'	Tampa aro perimetral PVC		4	L-47 mm
				4	H-47 mm
	KL-04	Tampa para CTe-18		4	H-83 mm

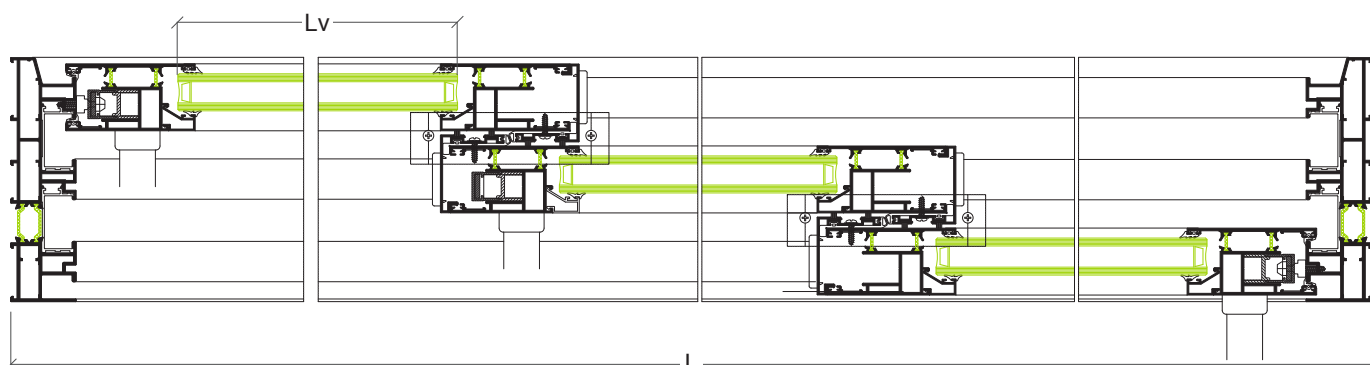
* cortar juntamente com o perfil CTe-15

Acessórios e Juntas

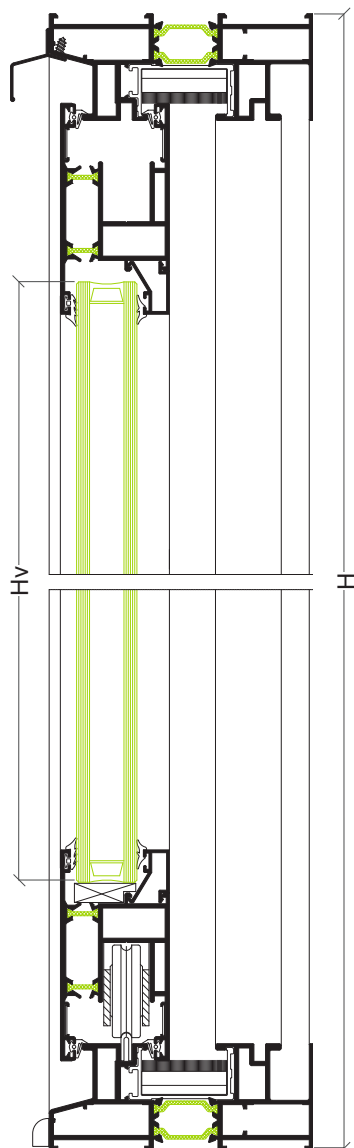
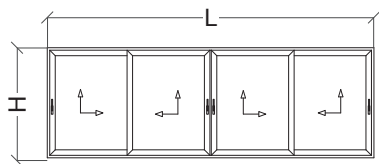
Referência	Descrição	Quantidade
-----	Kit elevável	3
30 94 50 10	Esquadro	24
30 94 50 35	Tampa guia lateral	8
30 92 01 35	Esquadro alinhamento	24
30 94 50 41	Corta ventos	4
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 95 00 50	Pelúcia 7x6 mm Fin-seal	8H
30 94 50 95	Junta central CTe-Recta	4H
30 94 50 90	Junta aro móvel perimetral	4L+4H
-----	Junta para vidro (interior)	2L+6H
-----	Junta para vidro (exterior)	2L+6H
30 94 51 95	Kit suplementar (folha com 301kg-400kg)	3 (opcional)
30 94 50 50	Prolongador (Hf -> 2790 mm-3225 mm)	3 (opcional)
30 94 50 20	Limitador de abertura	2

Vidro

Hv = H-253 mm	Lv = L/3-137 mm
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Porta 4 folhas correr elevável



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CTe-14	Aro fixo perimetral		2	L
				2	H
	CTe-17	Aro móvel perimetral		8	L/4+23 mm
				8	H-83 mm
	CTe-18	Tampa de cruzamento		4	H-83 mm
	CTe-03	Perfil guia		2	L-83 mm
	CT-07	Pingadeira		1	L
	CTe-09	União 3/4F		1	H-83 mm
	-----	Bite recto		8	L/4-133 mm
				8	H-279 mm
	CTe-16*	Tampa aro perimetral PVC		2	L-47 mm
				2	H-47 mm
	KL-04	Tampa para CTe-18		4	H-83 mm

* cortar juntamente com o perfil CTe-14

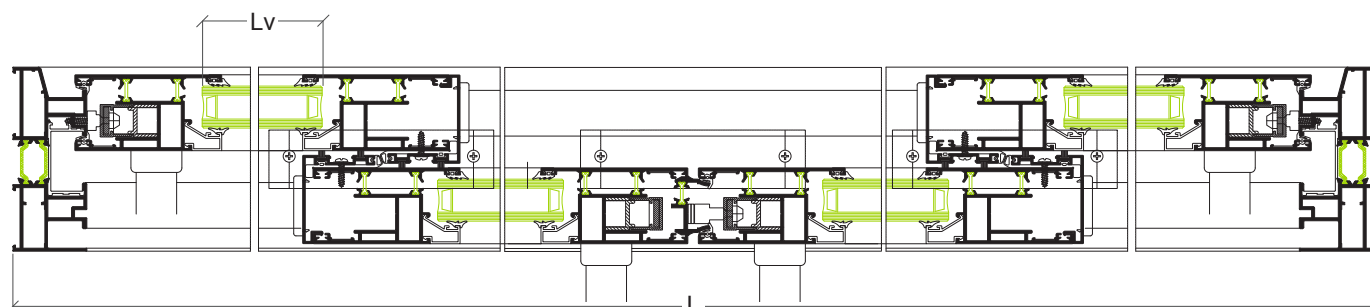
Acessórios e Juntas

Referência	Descrição	Quantidade
-----	Kit elevável	4
30 94 50 10	Esquadro	24
30 94 50 35	Tampa guia lateral	8
30 92 01 35	Esquadro alinhamento	32
30 94 50 41	Corta ventos	6
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 95 00 50	Pelúcia 7x6 mm Fin-seal	8H
30 94 50 95	Junta central CTe-Recta	4H
30 94 50 90	Junta aro móvel perimetral	4L+6H
-----	Junta para vidro (interior)	2L+8H
-----	Junta para vidro (exterior)	2L+8H
30 94 51 95	Kit suplementar (folha com 301kg-400kg)	4 (opcional)
30 94 50 50	Prolongador (Hf -> 2790 mm-3225 mm)	4 (opcional)
30 94 50 20	Limitador de abertura	2

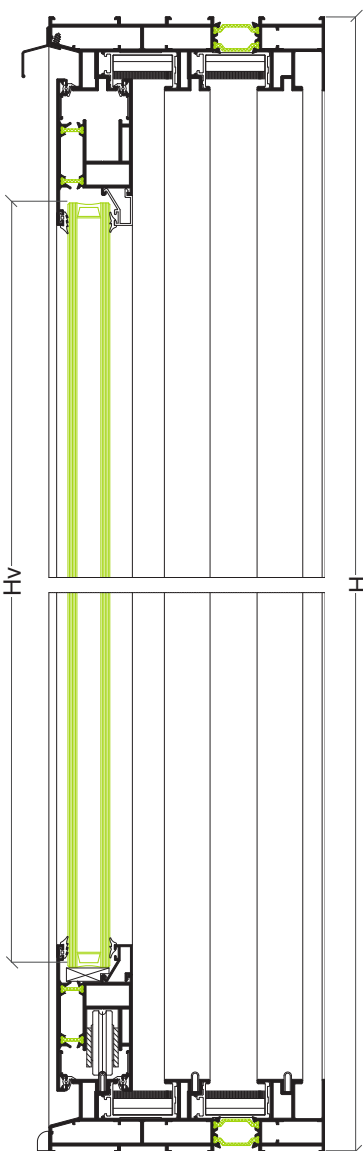
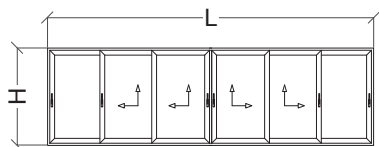
335

Vidro

Hv = H-253 mm	Lv = L/4-147 mm
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Porta 6 folhas correr elevável tri-rail



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CTe-15	Soleira tri-rail		2	L
				2	H
	CTe-17	Aro móvel perimetral		12	L/6+46 mm
				12	H-83 mm
	CTe-18	Tampa de cruzamento		8	H-83 mm
	CTe-09	Perfil para 4 folhas		1	H-83 mm
	CTe-03	Perfil guia		3	L-83 mm
	CT-07	Pingadeira		1	L
	----	Bite recto		12	L/6-110 mm
				12	H-279 mm
	CTe-16'	Tampa aro perimetral PVC		4	L-47 mm
				4	H-47 mm
	KL-04	Tampa para CTe-18		8	H-83 mm

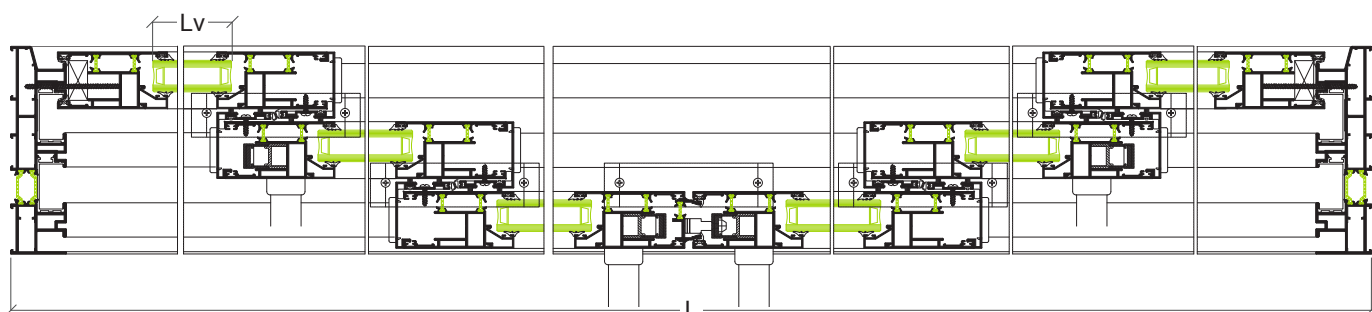
* cortar juntamente com o perfil CTe-15

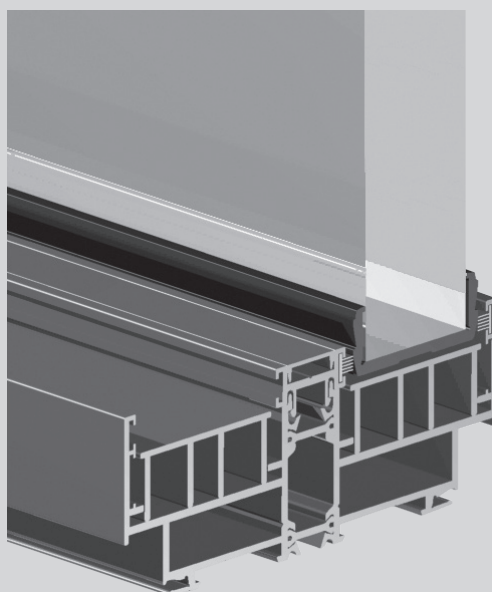
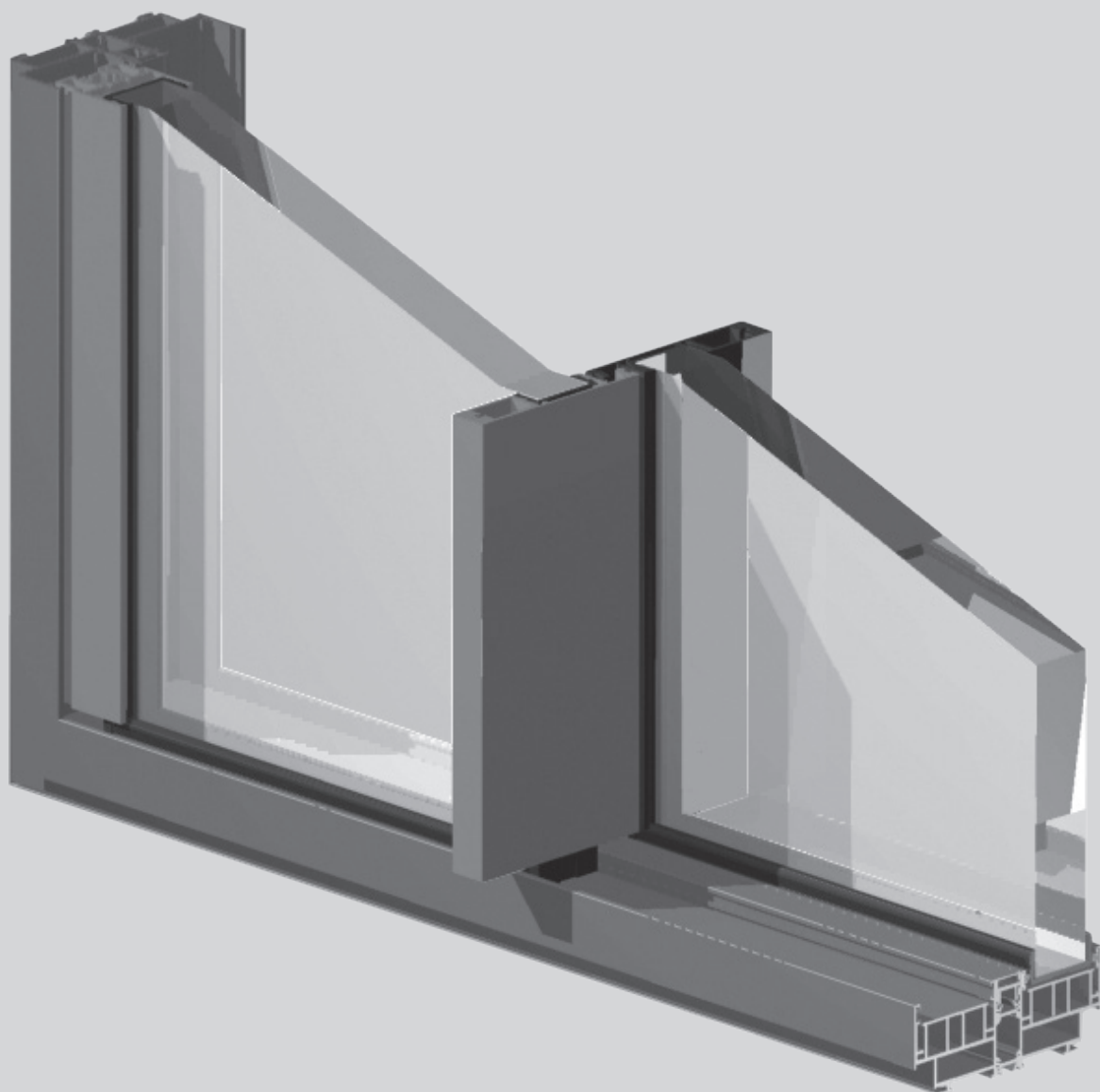
Acessórios e Juntas

Referência	Descrição	Quantidade
----	Kit elevável	4
30 94 50 10	Esquadro	36
30 94 50 35	Tampa guia lateral	16
30 92 01 35	Esquadro alinhamento	48
30 94 50 41	Corta ventos	10
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 95 00 50	Pelúcia 7x6 mm Fin-seal	16H
30 94 50 95	Junta central CTe-Recta	8H
30 94 50 90	Junta aro móvel perimetral	4L+6H
----	Junta para vidro (interior)	2L+12H
----	Junta para vidro (exterior)	2L+12H
30 94 50 70	Rolamento para folha fixa (250kg máx. folha)	4
30 94 51 95	Kit suplementar (folha com 301kg-400kg)	4 (opcional)
30 94 50 50	Prolongador (Hf -> 2790 mm-3225 mm)	4 (opcional)
30 94 50 20	Limitador de abertura	2

Vidro

Hv = H-253 mm	Lv = L/6-124 mm
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**Sistema
Kristal**

Sistema Kristal

Sistema de correr de conceito minimalista com RPT

Características do sistema

Sistema de alumínio com rotura térmica para executar vãos de correr de conceito minimalista.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Perfis com rotura térmica obtida por inserção de varetas isolantes de poliamida de 6.6 mm reforçadas com 25% de fibra de vidro de 14.6 mm nos aros fixos e de 18 mm nos aros móveis.

Espessura média dos perfis de alumínio de 2.0 mm.

Aros fixos

Secção do aro fixo perimetral de 120 mm com bi-rail para montagem a meia esquadria;

Possibilidade de aplicação de remates interior ou exterior;

Perfil guia de deslizamento inferior em alumínio com rolamentos duplos de altas prestações em aço inoxidável 316.

Aros móveis

Secção dos aros móveis de vista muito reduzida de corte recto por montagem por clipagem;

Vidro duplo isolante com selagem secundária de silicone de 32.4 mm a 32.8 mm de espessura total, composto por tipologias de vidro exterior temperado ou termo-endurecido e de vidro interior laminado termo-endurecido ou temperado;

Calha em polímero colada em todo o perímetro do vidro isolante com silicone estrutural preto;

Silicones estruturais recomendados: Dow Corning 791 preto ou Sikasil SG20 preto;

Aros móveis reforçados de linha contemporânea para elevados dimensionamentos.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 300 mm - 3000 mm (L); 500 mm - 3000 mm (H);

Peso máximo de 300 kg por folha;

Tipologias de 2, 3 ou 4 folhas móveis e/ou fixas;

Possibilidade de abertura em canto;

Sistema de correr de conceito minimalista com deslizamento das folhas sobre o perfil de alumínio efectuado com rolamentos em aço inoxidável de altas prestações para uma fácil abertura do vão mesmo com configurações extremas de peso ou dimensão;

Tipologias dos vãos com mais de 95% de luminosidade;

Permeabilidade ao ar e estanquidade à água asseguradas através de pelúcia de última geração e junta em EPDM de qualidade marítima;

Ferragem multiponto com diversos pontos de fecho e de fácil aplicação e regulação;

Ferragem multiponto com micro-ventilação incluída em todos os pontos de fecho;

Puxador específico para facilitar a manobra de abertura e de fecho do vão;

Existe a opção de puxador com chave para permitir a abertura do vão pelo exterior.

Performances

Sistema certificado por laboratório notificado para Ensaio Tipo Inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema Kristal tipologia janela:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C5 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema Kristal tipologia porta:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 6A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)
4. Permeabilidade ao ar em Micro-ventilação: Classe 1 (norma de ensaio EN 1026)

Categorias alcançadas na avaliação do sistema KRISTAL para determinação das forças de manobra (EN 12046):

1. Libertação da ferragem de fecho: Classe 2
2. Abertura da folha: Classe 1
3. Fecho da folha: Classe 1
4. Engate da ferragem de fecho: Classe 2

Categoria alcançada na determinação da resistência a abertura e fecho repetidos (5000 ciclos): Classe 1 (EN 1191)

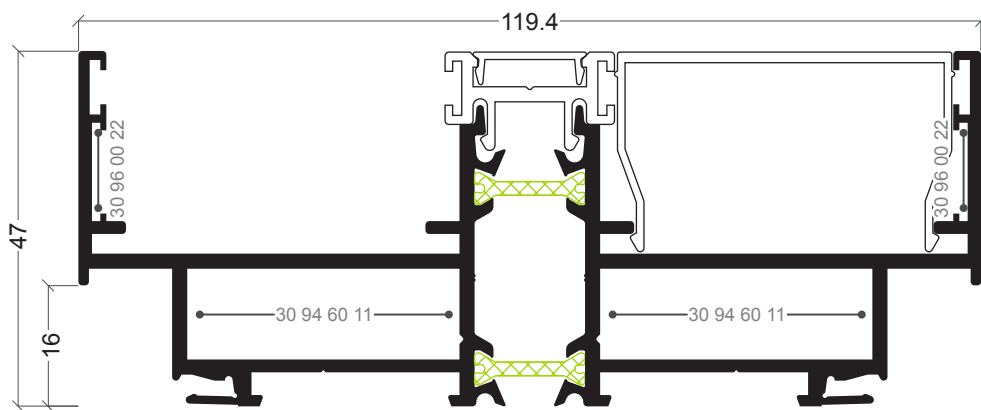
Coefficiente de transmissão térmica de vão de 2 folhas com 5.0 m x 3.0 m com vidro $U_g = 1.0 \text{ W/m}^2\text{K}$, com intercalar efeito "Warm Edge":

• $U_w = 1.29 \text{ W/m}^2\text{K}$

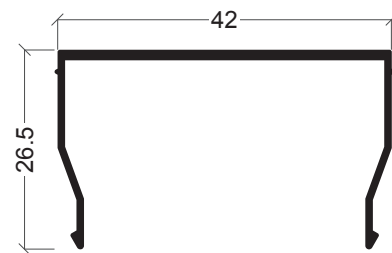
Coefficiente de atenuação acústica de vão de 2 folhas com vidro acústico 8/16/44.1:

• $R_w (C; C_{tr}) = 41 \text{ dB} (-1; -5)$

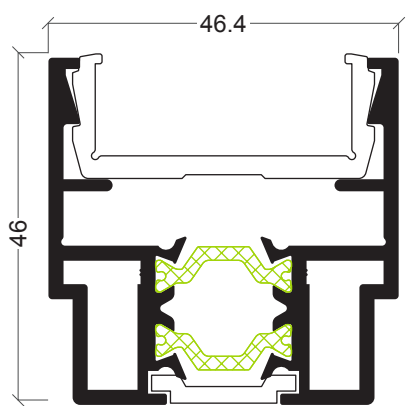
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3.



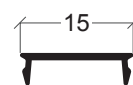
KL-01
Aro fixo perimetral



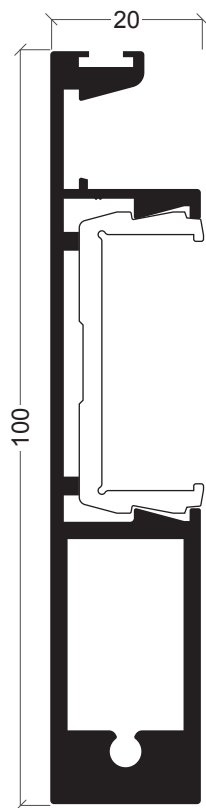
KL-13
Perfil Tampa



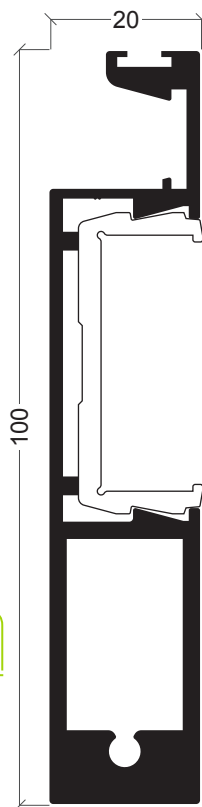
KL-03
Aro móvel lateral



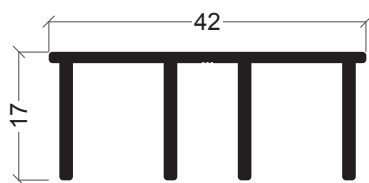
KL-04
Perfil complementar aro fixo



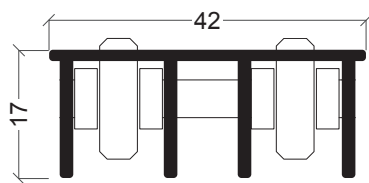
KL-02
Aro móvel central reforçado



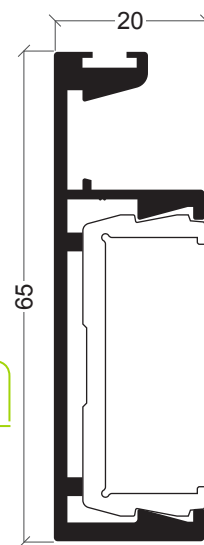
KL-12
Aro móvel central reforçado 3/4 folhas



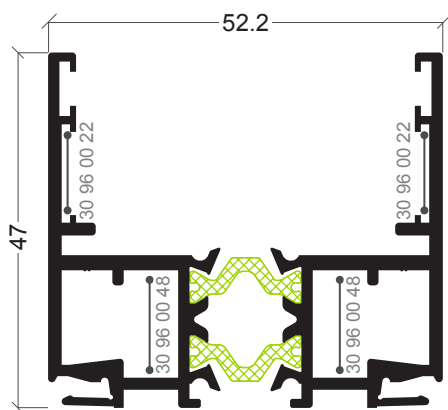
KL-05
Perfil suporte para folha fixa



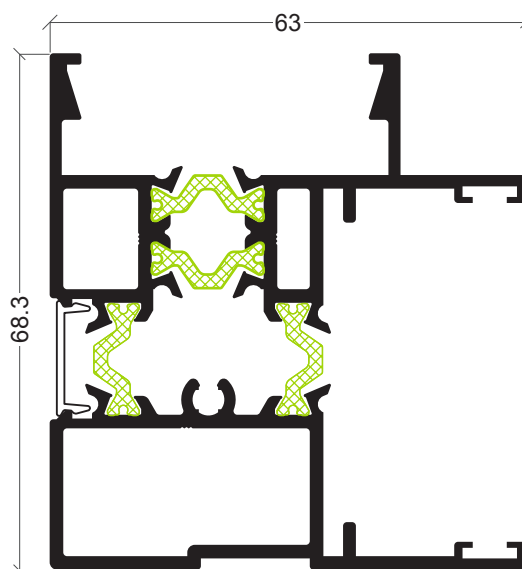
KL-05/RD
Perfil guia para folha móvel
Acetinado 1AC
Acetinado 2AC
Lacado 9005 MT



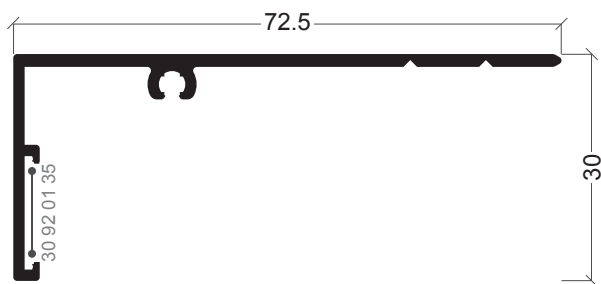
KL-09
Aro móvel central



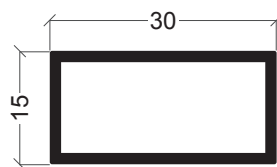
KL-10
Perfil mono-rail e 3º rail



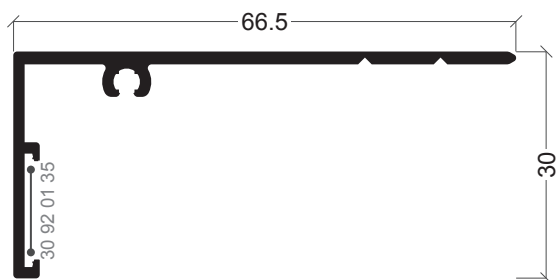
KL-11
Perfil canto



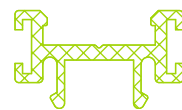
AXi-83
Remate



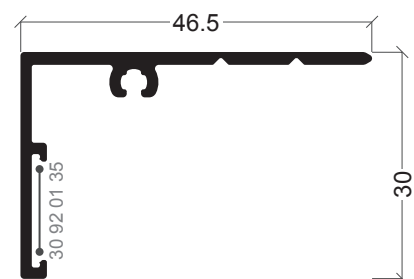
P-02
Complemento para 3ª e 4ª guia



AXi-73
Remate



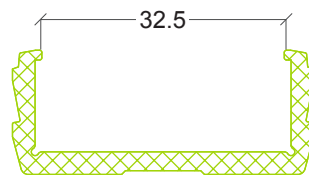
KL-06
Perfil polímero central



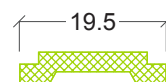
AXi-80
Remate



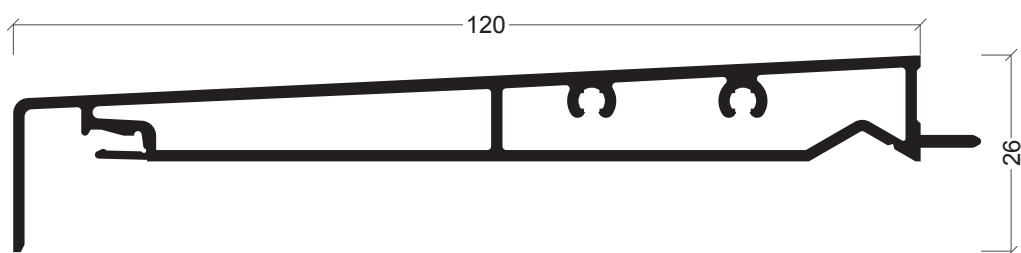
AXi-88
Complemento remate



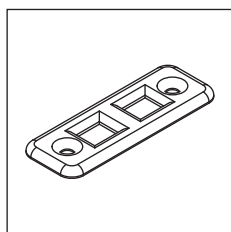
KL-07
Perfil polímero para vidro



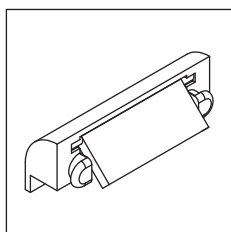
KL-08
Vareta de poliamida



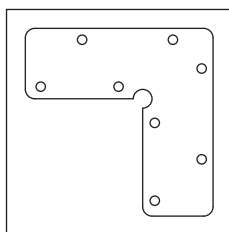
AXi-74
Remate soleira



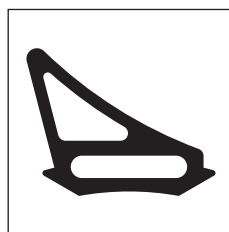
30 24 30 75
Contra-fecho inox
aplicar com fechos lisos



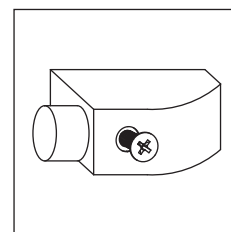
30 92 01 02/03
Goteira com válvula
(preto/branco)



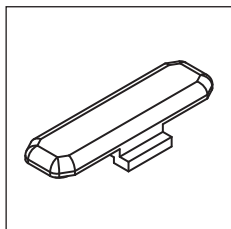
30 92 01 35
Esquadro alinhamento
AXi-73/80/83/88



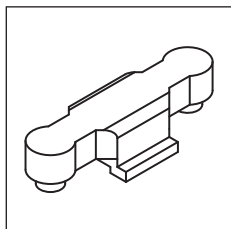
30 93 05 00
Junta central EPDM
KL-02



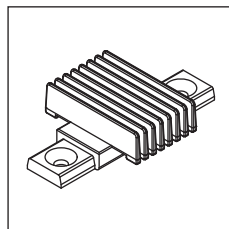
30 94 50 20
Limitador de abertura



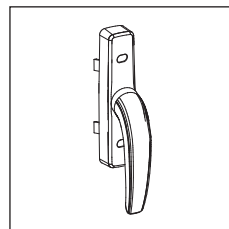
30 94 60 01
União varetas nylon
preto



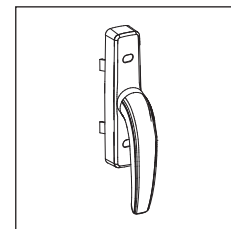
30 94 60 02
União varetas zamack
preto alternativa



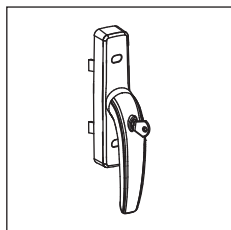
30 94 60 03
Corta-vento Kristal preto



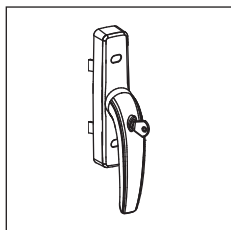
30 94 60 04/05
Cremone exterior lacado
(branco/preto)



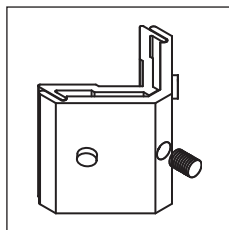
30 94 60 06
Cremone exterior lacado
(cinza 9006)



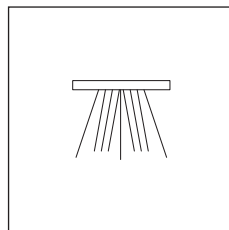
30 94 60 08/09
Cremone exterior com
chave lacado (branco/preto)



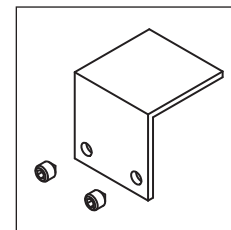
30 94 60 10
Cremone exterior lacado
com chave (cinza 9006)



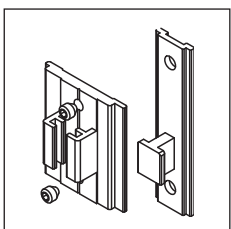
30 94 60 11
Esquadro 36x12 mm
centrado KL-01



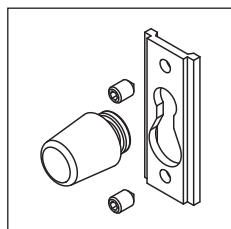
30 94 60 12
Pelúcia tri-fin



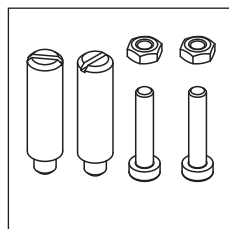
30 94 60 13
Cantoneira de apoio
central preto KL-02



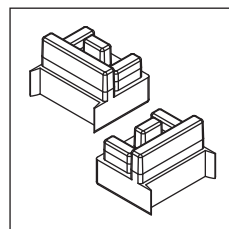
30 94 60 14
Conjunto fecho preto



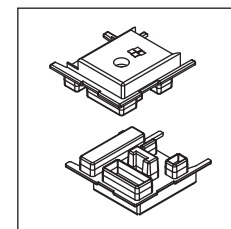
30 94 60 15
Batente preto KL-03



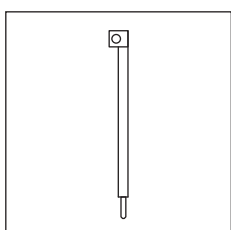
30 94 60 16
Suplemento para fecho
fixação cremone exterior



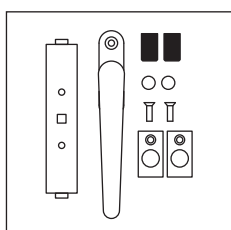
30 94 60 17
Conjunto topo lateral
preto KL-03



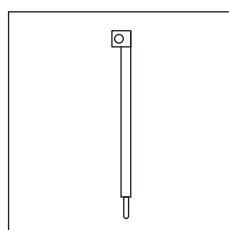
30 94 60 18
Conjunto topo canto
preto KL-11



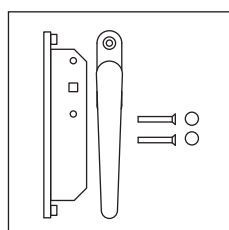
30 94 60 19/21
Fecho liso interior
450 mm (branco/preto)



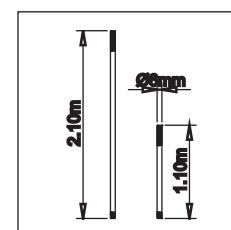
30 94 60 20/22
Conjunto puxadores para
3F/4F ou central



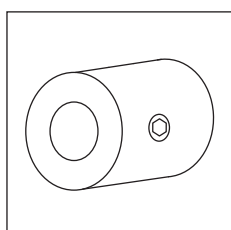
30 94 60 25/26
Fecho liso interior
700 mm (branco/preto)



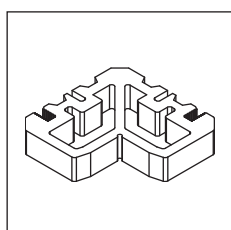
30 94 60 28/29
Puxador lateral baixo
(branco/preto)



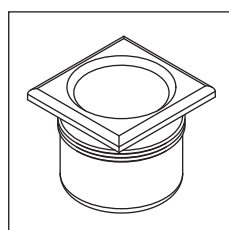
30 94 60 31
Conjunto varão alumínio
3000 mm



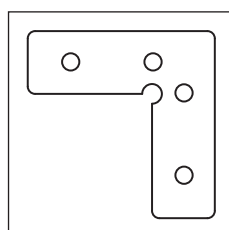
30 94 60 32
Guiador para varão por
cada 500 mm



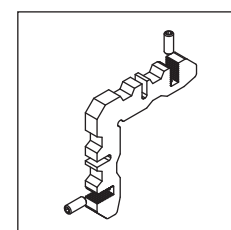
30 94 60 33
Esquadro para canto 90°



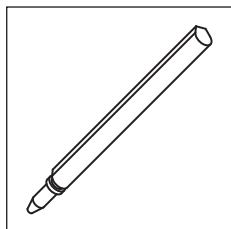
30 94 60 34
Contra-fecho central para
puxador 3/4 F + central (preto)



30 96 00 22
Esquadro de
alinhamento KL-01

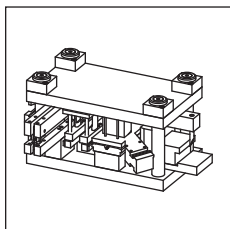


30 96 00 48
Esquadro interior/exterior
KL-10



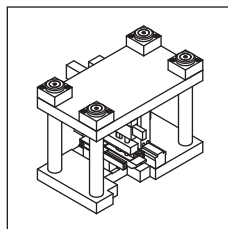
30 96 00 55

Perno para fixação esquadro
30 96 00 48 (opcional)



33 93 29 99

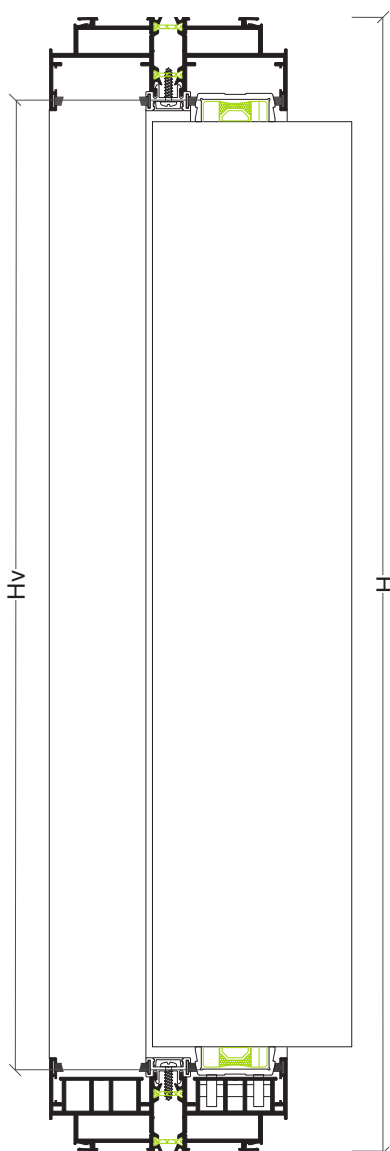
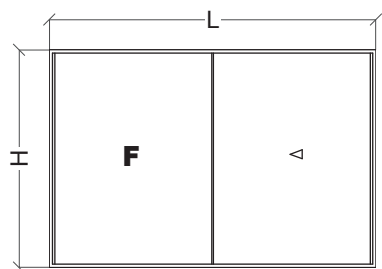
Cunho



33 96 87 99

Cunho esquadros exteriores
e interiores KL-10

Janela 1 folha correr com fixo lateral



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	KL-01	Aro fixo		2	L
				2	H
	KL-02	Aro central		2	H-105 mm
	KL-03	Aro lateral		2	H-106 mm
	KL-04	Tampa fixa		4	(L/2)-60 mm
				2	H-94 mm
	KL-05/RD	Guia com rolamentos		1	L (a dividir)
	KL-05	Perfil suporte folha fixa		1	L-50 mm
	KL-06*	Separador fixo		2	L-68 mm
				2	H-68 mm
	KL-07	Perfil para colar no vidro		4	(L/2)-62 mm
				4	H-77 mm
	KL-08	Vareta poliamida		1	H-400 mm
	KL-13	Perfil tampa		1	H-62 mm
				1	H-49 mm

* preferencialmente cortar juntamente com o perfil KL-01

Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 60 11	Esquadro aro fixo	8
30 96 00 22	Esquadro de alinhamento	8
30 94 60 0X	Cremona	1
30 94 60 16	Suplemento para fecho	1
30 94 60 15	Batente Kristal	4
30 94 60 14	Conjunto fecho Kristal**	2 ou 4
30 94 60 02	União vareta***	2 ou 6
30 94 60 17	Conjunto topo lateral Kristal	2
30 94 60 03	Corta-vento central	2
30 94 60 13	Cantoneira de apoio	2
30 94 50 20	Limitador de abertura	1
30 93 05 00	Junta central Kristal	2H
30 94 60 12	Pelúcia tri-fin	8L+6H

** vãos até altura de 1600 mm considerar 4 conjuntos e 4 uniões

*** vãos com altura >1600 mm considerar 8 conjuntos e 12 uniões

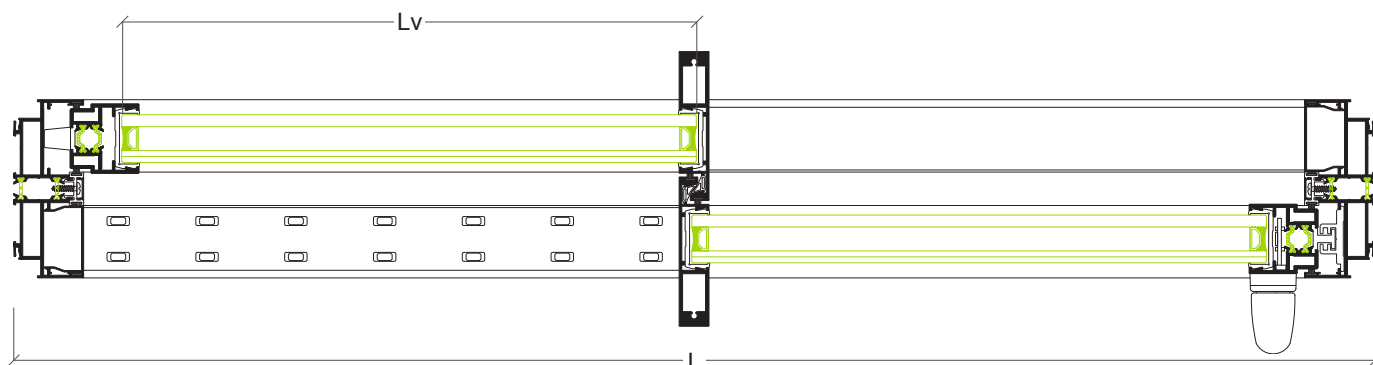
Vidro

+0 -1 mm	+0 -1 mm
Hv = H-84 mm	Lv = (L/2)-70 mm

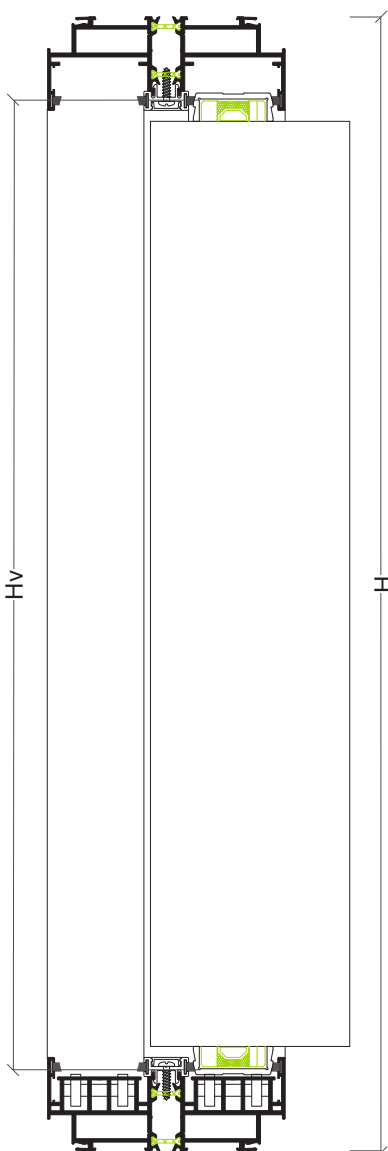
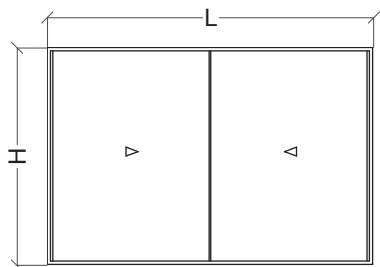
Altura Hv e largura Lv dos vidros com tolerância de +0/-1 mm

Selagem secundária do vidro duplo em silicone



Aplicar vidro duplo com bordos arestados



Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	KL-01	Aro fixo		2	L
				2	H
	KL-02	Aro central		2	H-105 mm
	KL-03	Aro lateral		2	H-106 mm
	KL-04	Tampa fixa		4	(L/2)-60 mm
				2	H-94 mm
	KL-05/RD	Guia com rolamentos		2	L (a dividir)
	KL-06*	Separador fixo		2	L-68 mm
				2	H-68 mm
	KL-07	Perfil para colar no vidro		4	(L/2)-62 mm
				4	H-77 mm
	KL-08	Vareta poliamida		1	H-400 mm
	KL-13	Perfil tampa		1	H-49 mm

* preferencialmente cortar juntamente com o perfil KL-01

Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 60 11	Esquadro aro fixo	8
30 96 00 22	Esquadro de alinhamento	8
30 94 60 0X	Cremona	2
30 94 60 16	Suplemento para fecho	2
30 94 60 15	Batente Kristal	4
30 94 60 14	Conjunto fecho Kristal**	4 ou 8
30 94 60 02	União vareta***	4 ou 12
30 94 60 17	Conjunto topo lateral Kristal	2
30 94 60 03	Corta-vento central	2
30 94 60 13	Cantoneira de apoio	2
30 94 50 20	Limitador de abertura	2
30 93 05 00	Junta central Kristal	2H
30 94 60 12	Pelúcia tri-fin	8L+6H

** vãos até altura de 1600 mm considerar 4 conjuntos e 4 uniões

*** vãos com altura >1600 mm considerar 8 conjuntos e 12 uniões

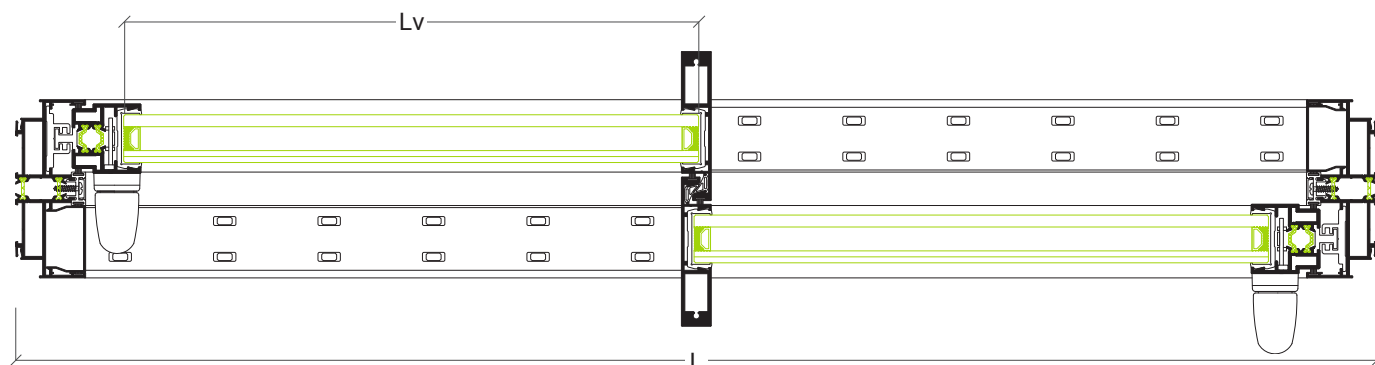
Vidro

+0 -1 mm	+0 -1 mm
Hv = H-84 mm	Lv = (L/2)-70 mm

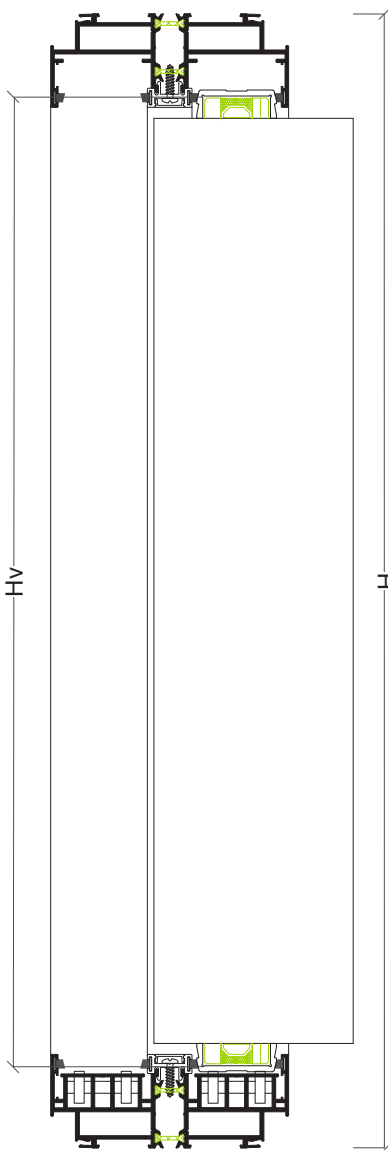
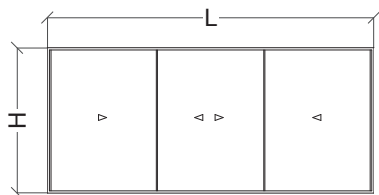
Altura Hv e largura Lv dos vidros com tolerância de +/-1 mm

Selagem secundária do vidro duplo em silicone

Aplicar vidro duplo com bordos arestados



Janela 3 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	KL-01	Aro fixo		2	L
				2	H
	KL-02	Aro central		4	H-105 mm
	KL-03	Aro lateral		2	H-106 mm
	KL-04	Tampa fixa		4	(L/2)-60 mm
				2	H-94 mm
	KL-05/RD	Guia com rolamentos		2	L (a dividir)
	KL-06*	Separador fixo		2	L-68 mm
				2	H-68 mm
	KL-07	Perfil para colar no vidro		6	(L/3)-37.5 mm
				6	H-77 mm
	KL-08	Vareta poliamida		2	H-400 mm
	KL-13	Perfil tampa		2	H-49 mm

* preferencialmente cortar juntamente com o perfil KL-01

Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 60 11	Esquadro aro fixo	8
30 96 00 22	Esquadro de alinhamento	8
30 94 60 0X	Cremona	2
30 94 60 16	Suplemento para fecho	2
30 94 60 15	Batente Kristal	4
30 94 60 14	Conjunto fecho Kristal**	4 ou 8
30 94 60 02	União vareta***	4 ou 12
30 94 60 17	Conjunto topo lateral Kristal	2
30 94 60 03	Corta-vento central	4
30 94 60 13	Cantoneira de apoio	4
30 94 50 20	Limitador de abertura	1
30 93 05 00	Junta central Kristal	4H
30 94 60 12	Pelúcia tri-fin	8L+6H

** vãos até altura de 1600 mm considerar 4 conjuntos e 4 uniões

*** vãos com altura >1600 mm considerar 8 conjuntos e 12 uniões

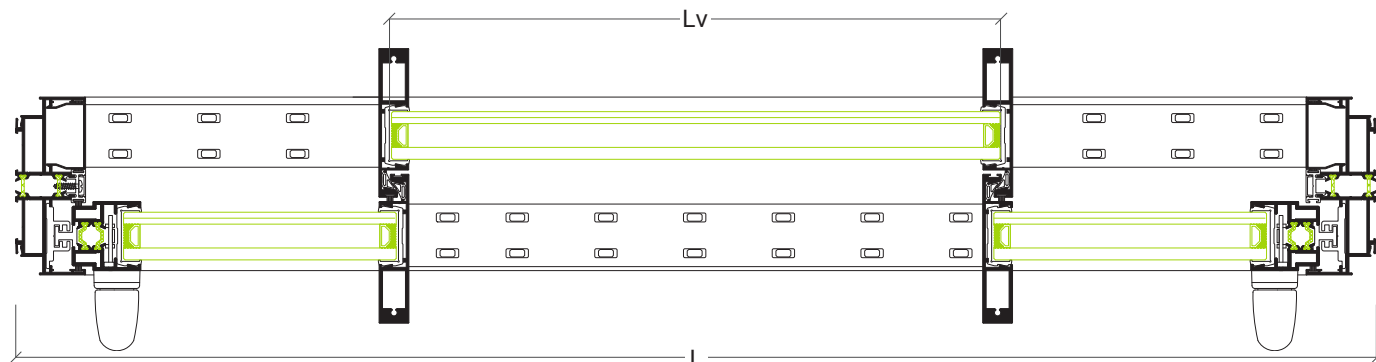
Vidro

+0 -1 mm Hv = H-84 mm	+0 -1 mm Lv = (L/3)-46 mm
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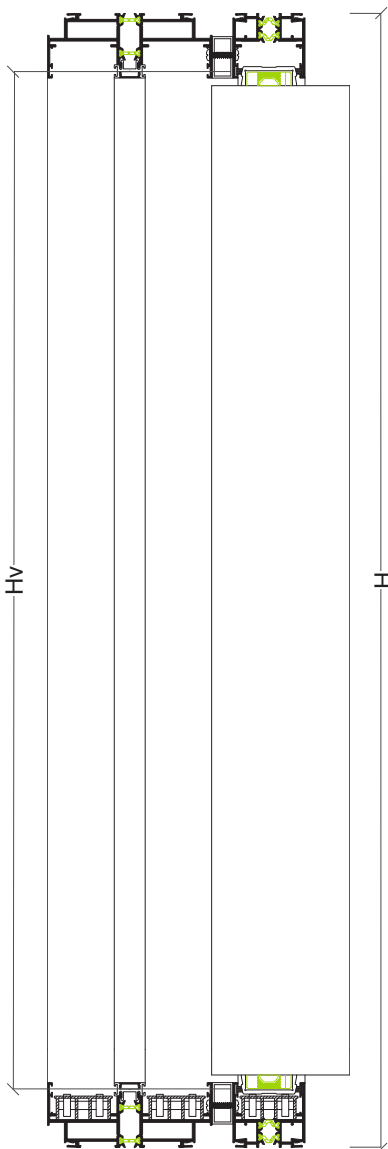
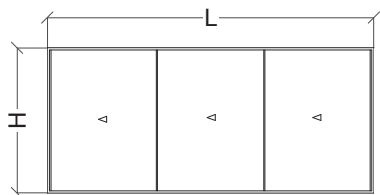
Altura Hv e largura Lv dos vidros com tolerância de +0/-1 mm

Selagem secundária do vidro duplo em silicone

Aplicar vidro duplo com bordos arestados



Janela 3 folhas correr tri-rail



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	KL-01	Aro fixo		2	L
				2	H
	KL-02	Aro central		4	H-105 mm
	KL-03	Aro lateral		2	H-106 mm
	KL-04	Tampa fixa		4	(L/2)-60 mm
				2	H-94 mm
	KL-05/RD	Guia com rolamentos		2	(a dividir)
	KL-06*	Separador fixo		2	L-68 mm
				2	H-68 mm
	KL-07	Perfil para colar no vidro		6	(L/3)-37.5 mm
				6	H-77 mm
	KL-08	Vareta poliamida		2	H-400 mm
	KL-10	Aro fixo		2	L
				2	H
	P-02	Perfil de ligação		2+2	L-7 mm / H-94 mm
	KL-13	Perfil tampa		2	H-49 mm

* preferencialmente cortar juntamente com o perfil KL-01

Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 60 11	Esquadro aro fixo	8
30 96 00 22	Esquadro de alinhamento	8
30 94 60 0X	Cremone	2
30 94 60 16	Suplemento para fecho	2
30 94 60 15	Batente Kristal	4
30 94 60 14	Conjunto fecho Kristal**	4 ou 8
30 94 60 02	União vareta***	4 ou 12
30 94 60 17	Conjunto topo lateral Kristal	2
30 94 60 03	Corta-vento central	4
30 94 60 13	Cantoneira de apoio	4
30 93 05 00	Junta central Kristal	4H
30 94 60 12	Pelúcia tri-fin	8L+8H
30 94 50 20	Limitador de abertura	1
30 96 00 48	Esquadro aro fixo KL-10	8
30 96 00 55	Perno para esquadro KL-10 (opcional)	8

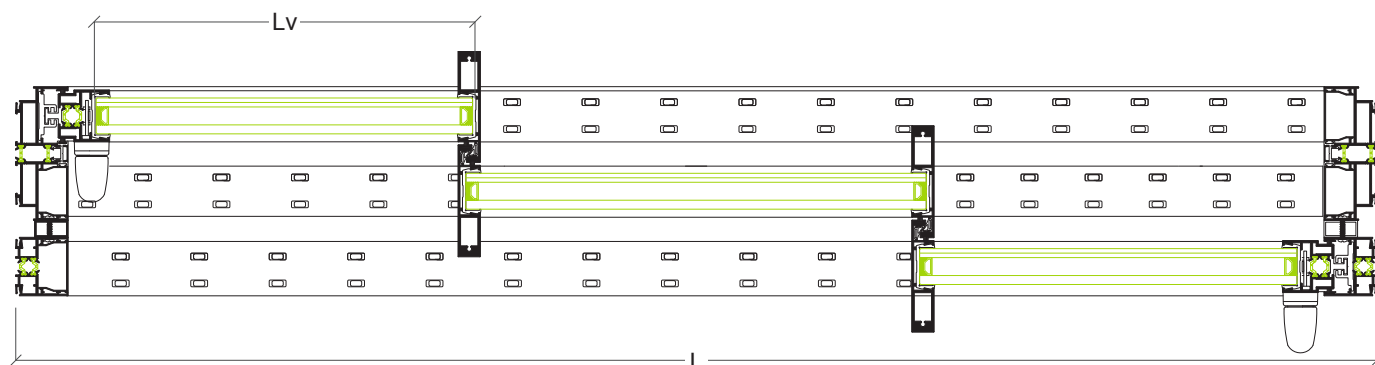
** vãos até altura de 1600 mm considerar 4 conjuntos e 4 uniões
*** vãos com altura >1600 mm considerar 8 conjuntos e 12 uniões

Vidro

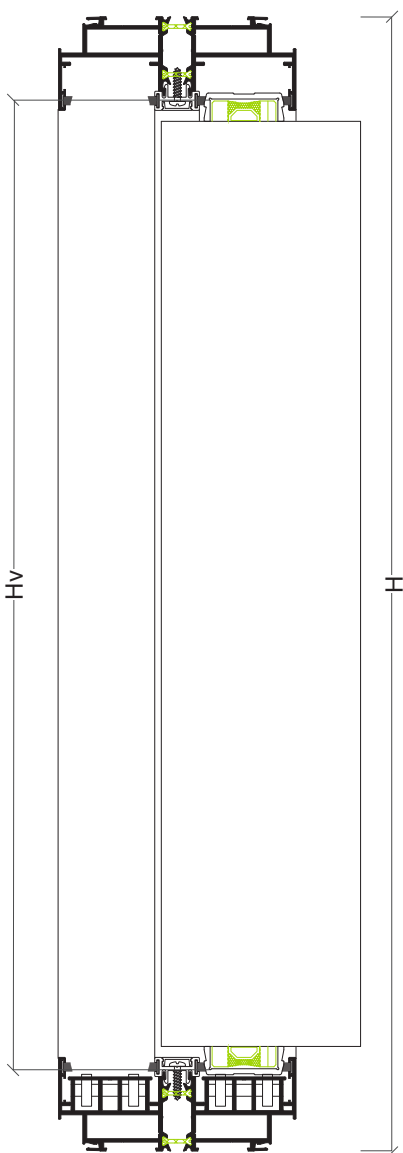
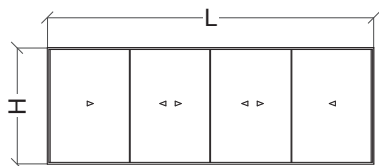
+0 -1 mm Hv = H-84 mm	+0 -1 mm Lv = (L/3)-46 mm
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Altura Hv e largura Lv dos vidros com tolerância de +/-1 mm

Selagem secundária do vidro duplo em silicone
Aplicar vidro duplo com bordos arestados



Janela 4 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	KL-01	Aro fixo		2	L
				2	H
	KL-02	Aro central		4	H-105 mm
	KL-12	Aro central 3/4 folhas		2	H-105 mm
	KL-03	Aro lateral		2	H-106 mm
	KL-04	Tampa fixa		4	(L/2)-60 mm
				2	H-94 mm
	KL-05/RD	Guia com rolamentos		2	L (a dividir)
	KL-06*	Separador fixo		2	L-68 mm
				2	H-68 mm
	KL-07	Perfil para colar no vidro		8	(L/4)-25 mm
				8	H-77 mm
	KL-08	Vareta poliamida		2	H-400 mm
	KL-13	Perfil tampa		2	H-49 mm

* preferencialmente cortar juntamente com o perfil KL-01

Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 60 11	Esquadro aro fixo	8
30 96 00 22	Esquadro de alinhamento	8
30 94 60 0X	Cremona	2
30 94 60 16	Suplemento para fecho	2
30 94 60 15	Batente Kristal	4
30 94 60 14	Conjunto fecho Kristal**	4 ou 8
30 94 60 02	União vareta***	4 ou 12
30 94 60 17	Conjunto topo lateral Kristal	2
30 94 60 03	Corta-vento central	6
30 94 60 13	Cantoneira de apoio	6
30 94 50 20	Limitador de abertura	2
30 93 05 00	Junta central Kristal	6H
30 94 60 12	Pelúcia tri-fin	8L+10H
30 94 60 XX	Fecho liso interior	2
30 24 30 75	Contra fecho inox	2
30 94 60 2X	Conjunto puxador de 3/4 folhas	1
30 94 60 31	Conjunto varão alumínio 3 mts	1
30 94 60 34	Contra-fecho central	2

** vãos até altura de 1600 mm considerar 4 conjuntos e 4 uniões

*** vãos com altura >1600 mm considerar 8 conjuntos e 12 uniões

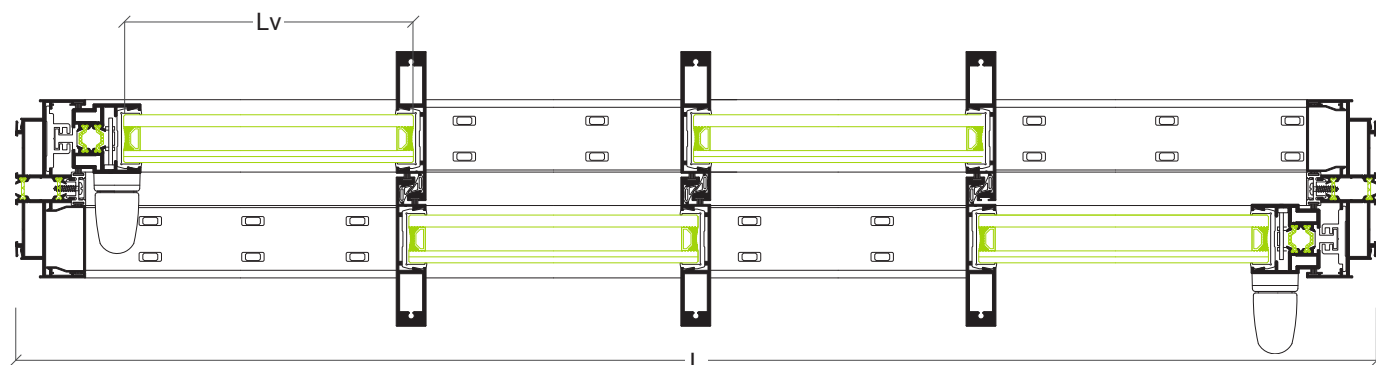
Vidro

+0	+0
-1 mm	-1 mm
Hv = H-84 mm	Lv = (L/4)-34 mm

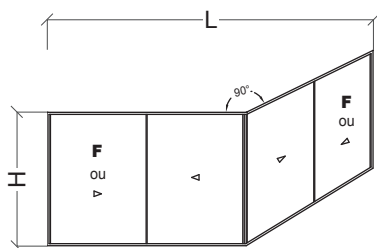
Altura Hv e largura Lv dos vidros com tolerância de +/-1 mm

Selagem secundária do vidro duplo em silicone

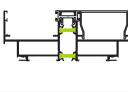



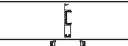











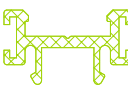













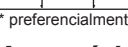

Aplicar vidro duplo com bordos arestados



Janela 2+2 folhas canto 90°



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	KL-01	Aro fixo		1	L1
				1	L2
				2	H
	KL-02	Aro central		4	H-105 mm
	KL-03	Aro lateral		3	H-106 mm
	KL-04	Tampa fixa		2	(L1/2)-65 mm
				2	(L1/2)-56 mm
				2	(L2/2)-65 mm
				2	(L2/2)-56 mm
	KL-05/RD	Guia com rolamentos		2	L1 (a dividir)
				2	L2 (a dividir)
	KL-06*	Separador fixo		2	L1-88 mm
				2	H-68 mm
				2	H-68 mm
	KL-07	Perfil para colar no vidro		8	(L1/2)-71.5 mm
				4	(L2/2)-54mm
				4	H-77 mm
	KL-08	Vareta poliamida		3	H-400 mm
	KL-11	Perfil canto		2	H-106 mm
	KL-04	Tampa fixa		1	H-106 mm
	KL-13	Perfil tampa		2	H-49 mm

* preferencialmente cortar juntamente com o perfil KL-01

Acessórios e Juntas

Referência	Descrição	Quantidade
30 94 60 11	Esquadro aro fixo	8
30 96 00 22	Esquadro de alinhamento	8
30 94 60 0X	Cremone	3
30 94 60 16	Suplemento para fecho	3
30 94 60 15	Batente Kristal	6
30 94 60 14	Conjunto fecho Kristal**	6 ou 12
30 94 60 02	União vareta***	6 ou 18
30 94 60 17	Conjunto topo lateral Kristal	3
30 94 60 03	Corta-vento central	4
30 94 60 13	Cantoneira de apoio	4
30 93 05 00	Junta central Kristal	4H
30 94 60 12	Pelúcia tri-fin	8L1+8L2+10H
30 94 50 20	Limitador de abertura	2
30 94 60 18	Conjunto topo canto 90°	1
30 94 60 33	Esquadro para canto 90°	4

** vãos até altura de 1600 mm considerar 4 conjuntos e 4 uniões

*** vãos com altura >1600 mm considerar 8 conjuntos e 12 uniões

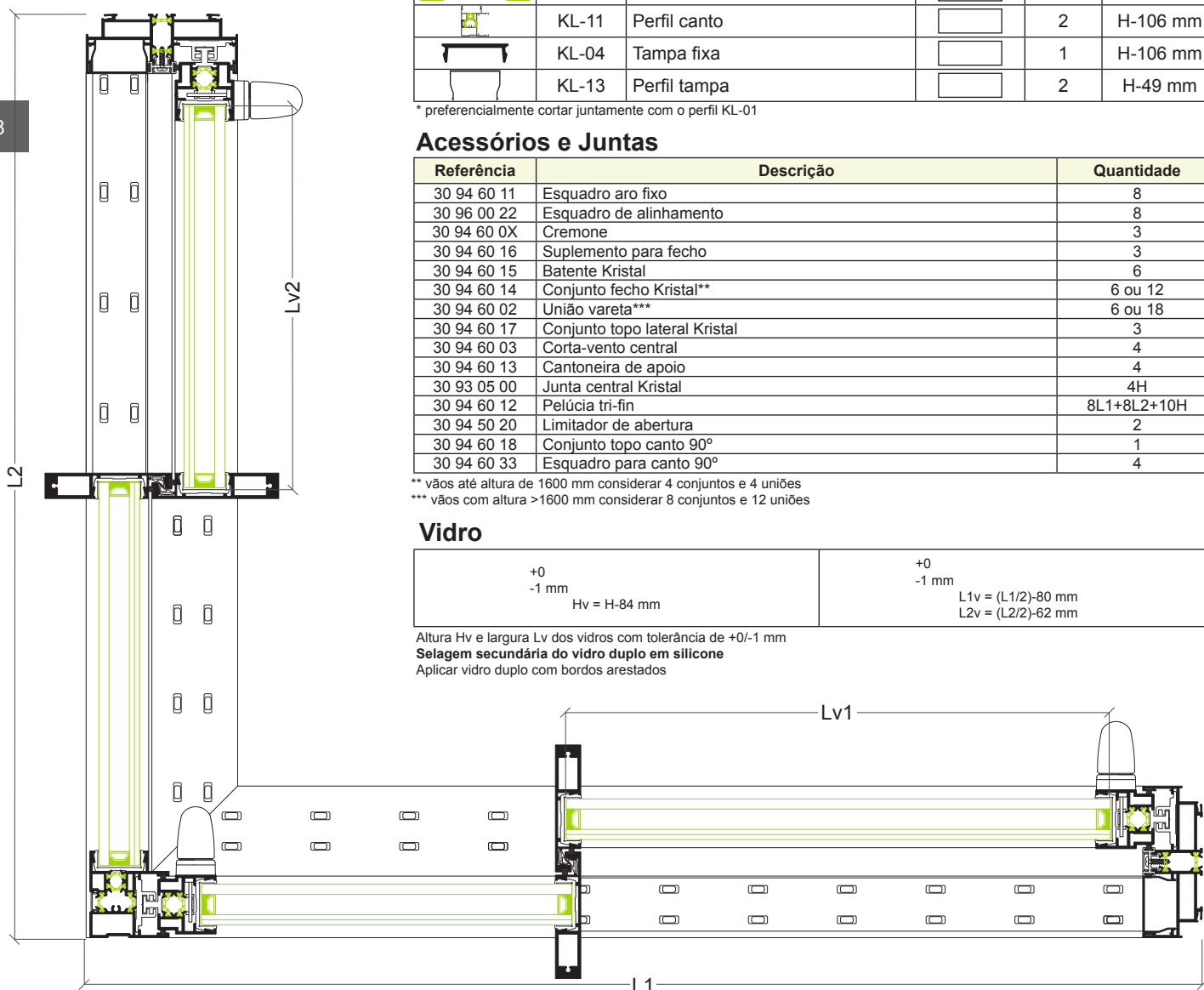
Vidro

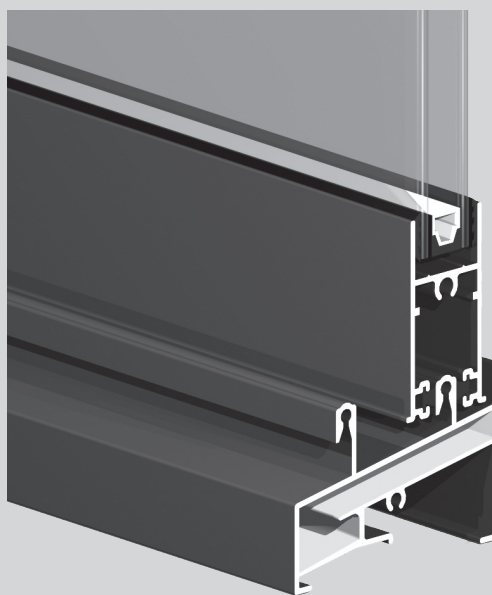
+0 -1 mm Hv = H-84 mm	+0 -1 mm L1v = (L1/2)-80 mm L2v = (L2/2)-62 mm
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Altura Hv e largura Lv dos vidros com tolerância de +/-1 mm

Selagem secundária do vidro duplo em silicone

Aplicar vidro duplo com bordos arestados





Sistema
CL

Sistema CL

Sistema de correr - 78 mm

Características dos sistemas CL/CL Plus

Sistemas de alumínio para execução de vãos de correr ou janelas duplas com rotura térmica.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Aros fixos

Secção do aro fixo de 2 guias de 70 mm para montagem a corte recto;
Secção do aro fixo janela dupla de 196 mm para montagem a corte recto.

Aros móveis

Secção dos aros móveis de 28 mm com montagem a corte recto;
Enchimento de 4 mm a 18 mm;
Estanquidade assegurada através de pelúcia tipo Fin-Seal.

Dimensionamento e manobralidade

Peso máximo de 80 kg por folha (com 2 rolamentos duplos);
Possibilidades de abertura: 2, 3 e 4 folhas, com folhas móveis e/ou fixas;
Rolamento duplo com regulação.

Performances

Sistema certificado por laboratório notificado do ensaio tipo inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CL tipologia janela:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C3 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema CL tipologia porta:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe B2 (norma de ensaio EN 12211)

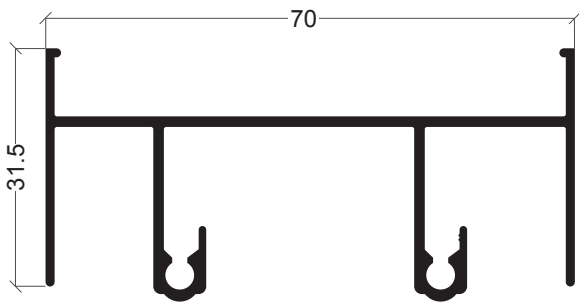
Coefficiente de transmissão térmica de vão de 2 folhas com 1.80 m x 2.20m com vidro $U_g = 1.8 \text{ W/m}^2\text{K}$ com intercalar efeito "Warm Edge":

- $U_w = 2.98 \text{ W/m}^2\text{K}$

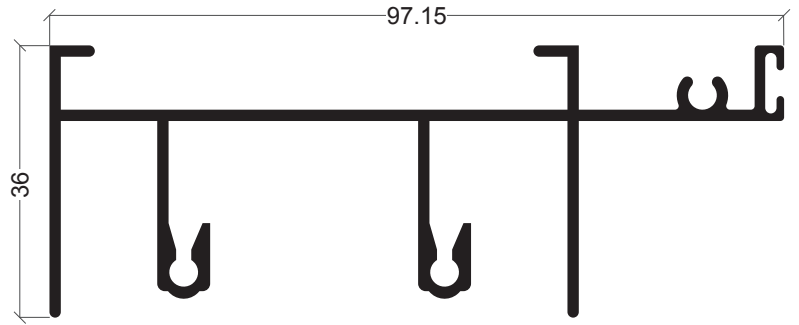
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/10/4 acústico:

- $R_w (C; C_{tr}) = 28 \text{ dB} (-1; -1)$

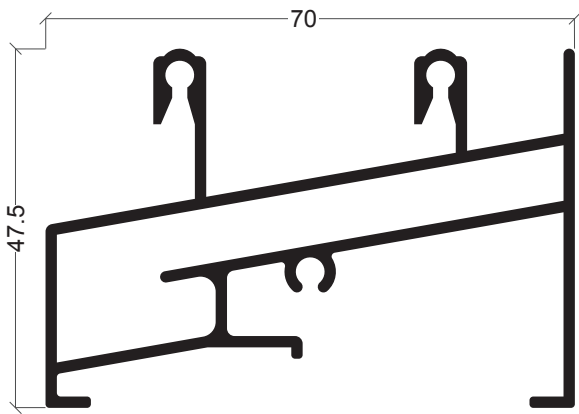
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



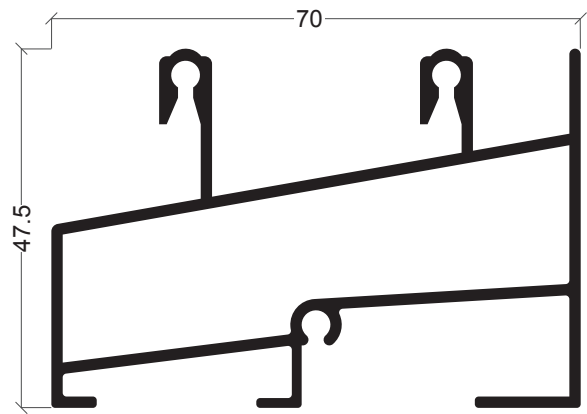
CL-05
Padeira



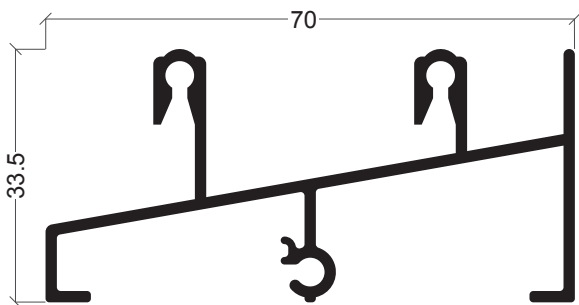
CL-15
Padeira



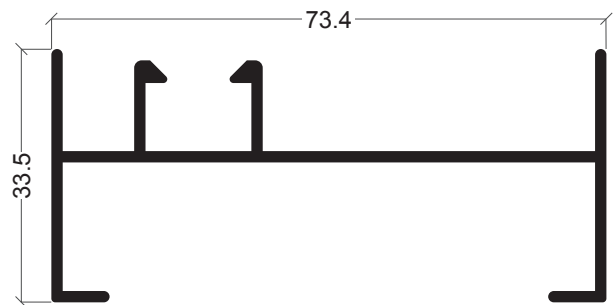
CL-01
Soleira



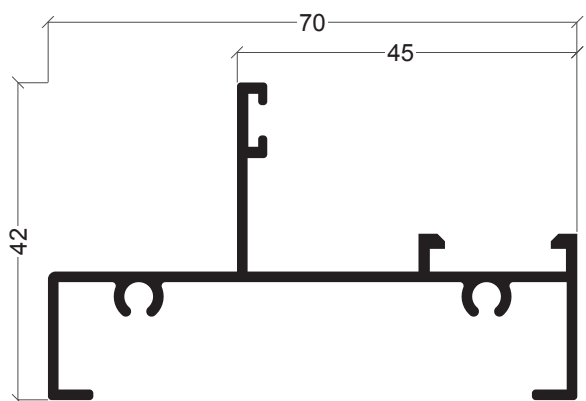
CL-03
Soleira



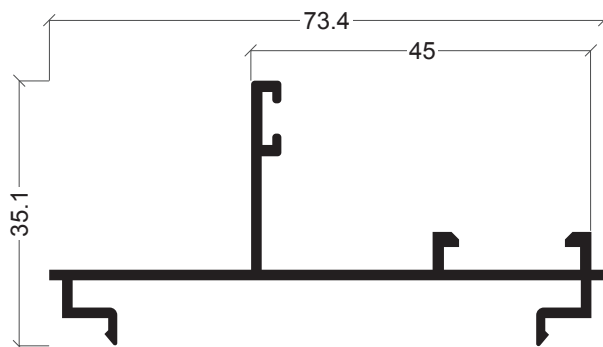
CL-61
Soleira



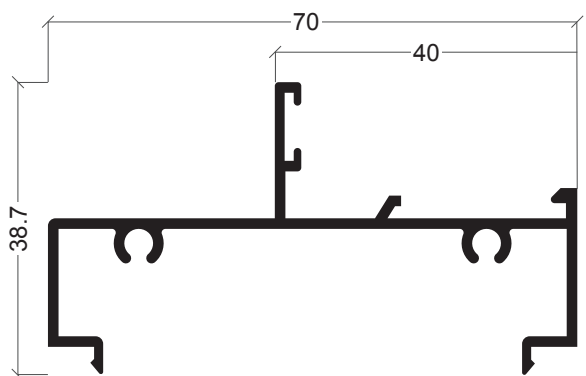
CL-06
Ombreira



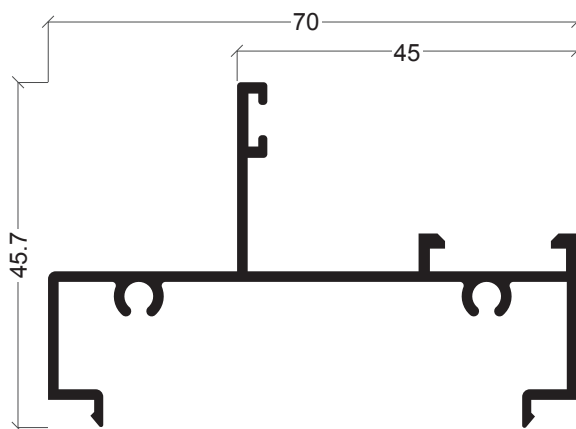
CL-58
Complemento fixo



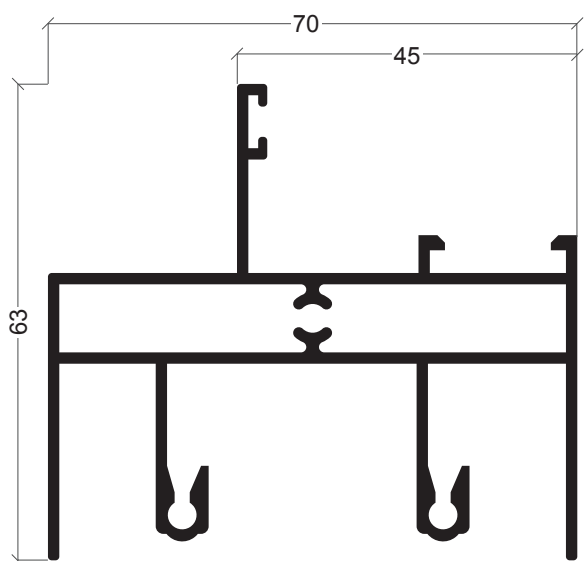
CL-39
Complemento fixo



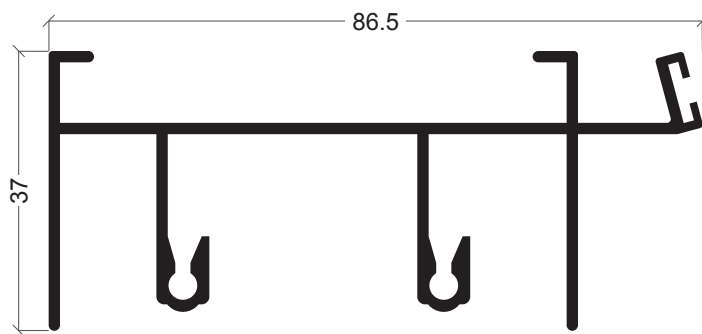
CL-18
Complemento fixo



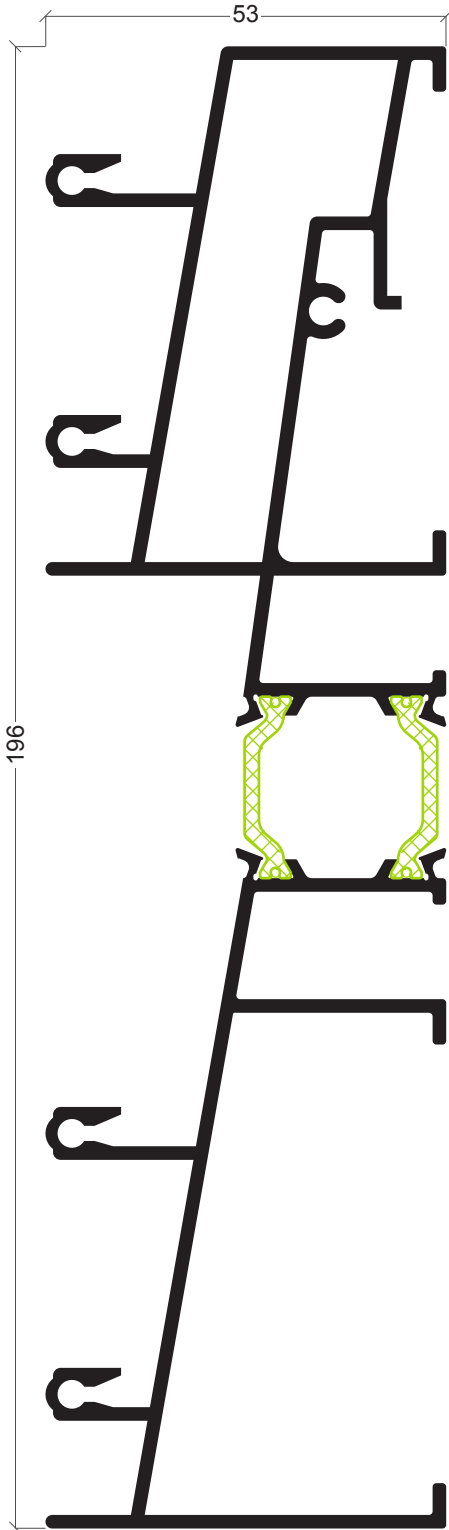
CL-08
Complemento fixo



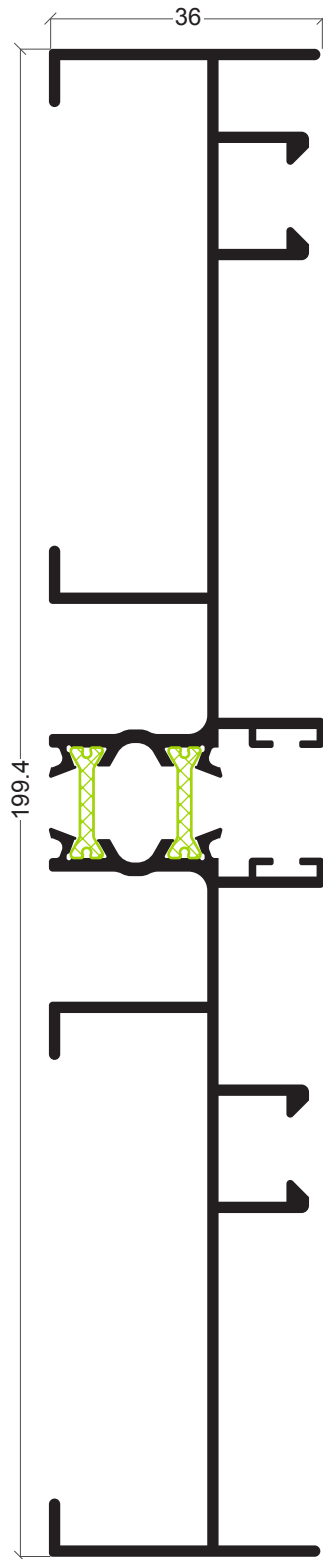
CL-55
Padeira fixo superior



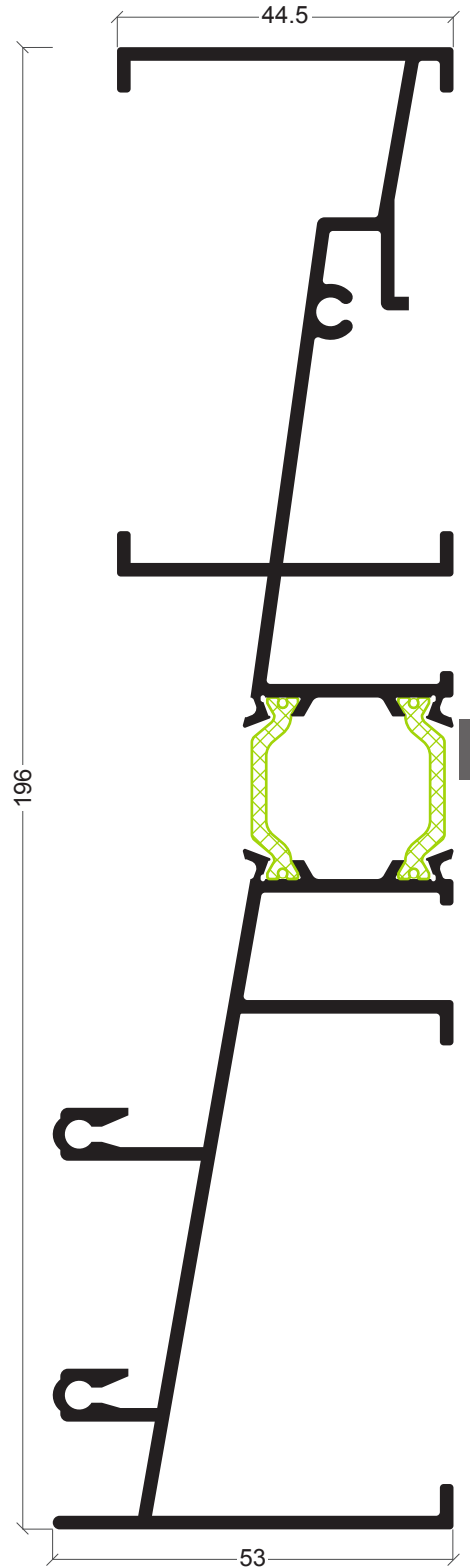
CL-75
Padeira janela dupla



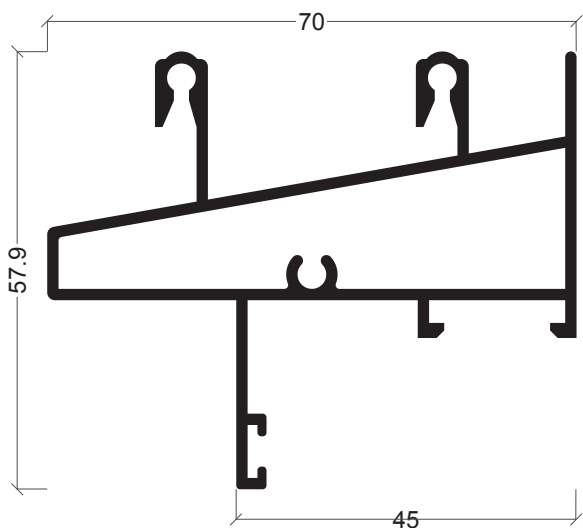
CL-71
Soleira janela dupla



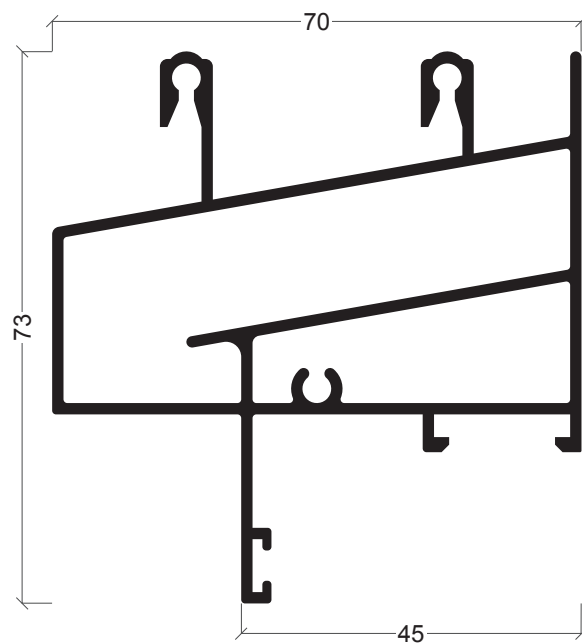
CL-76
Ombreira janela dupla



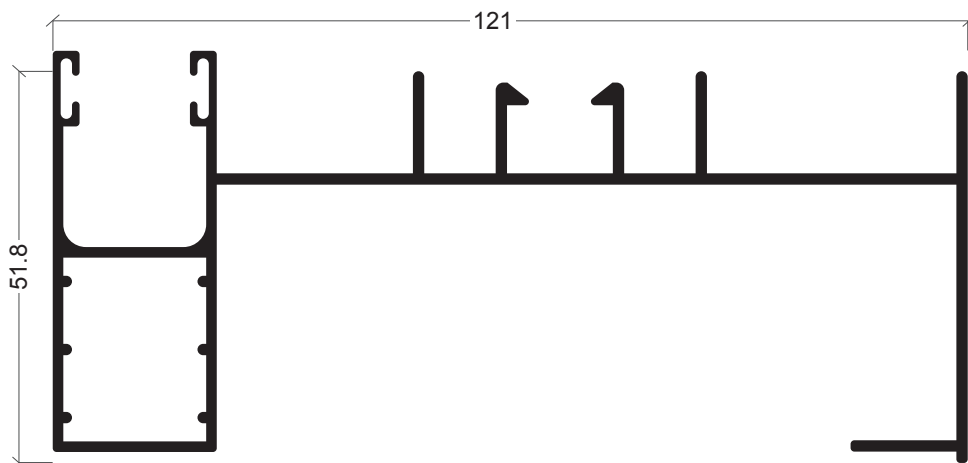
CL-78
Soleira janela dupla



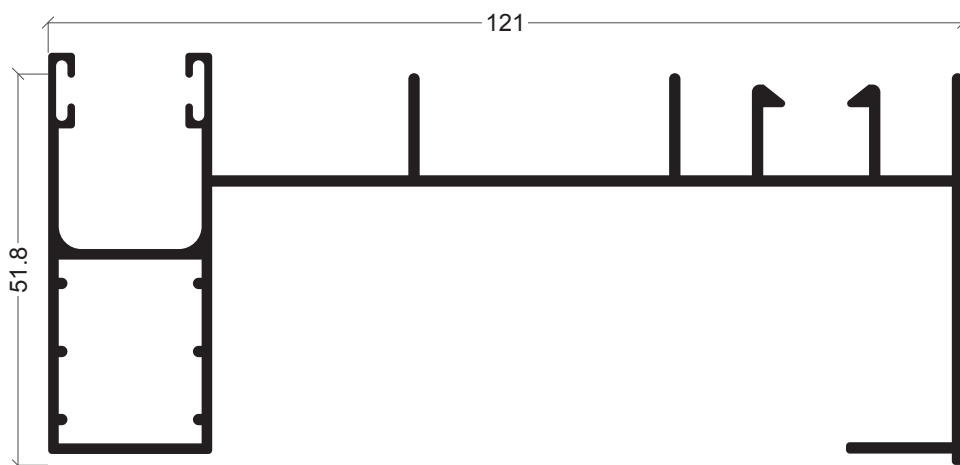
CL-51
Soleira fixo inferior



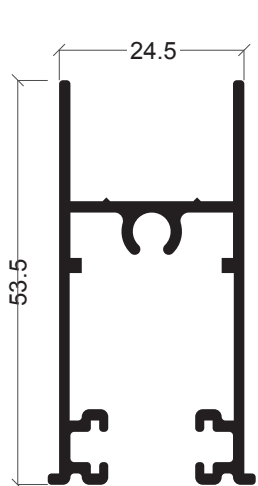
CL-81
Soleira fixo inferior



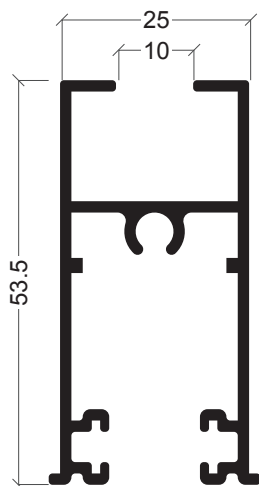
CL-91
Ombreira com calha persiana



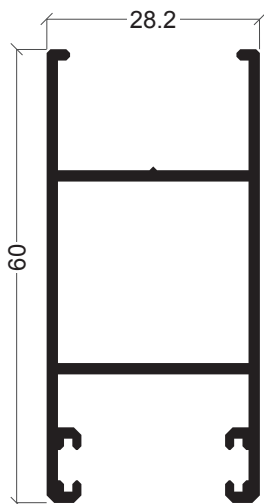
CL-92
Ombreira com calha persiana



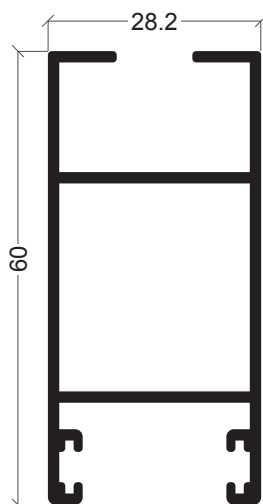
CL-10
Móvel carrinho



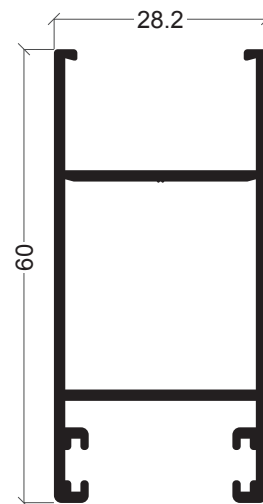
CL-12
Móvel carrinho



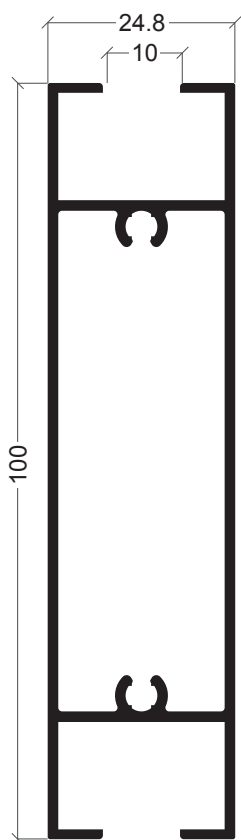
CL-90
Móvel lateral



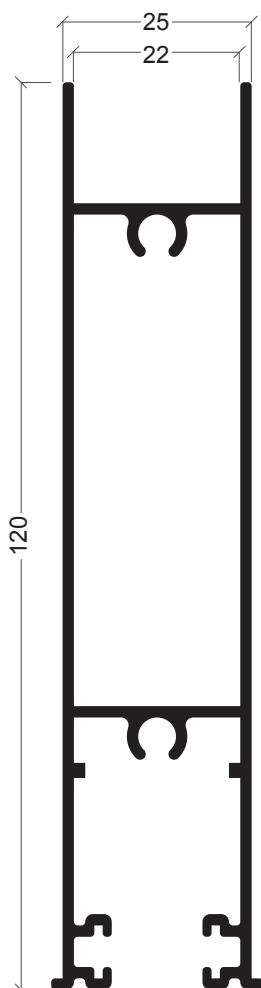
CL-19
Móvel lateral



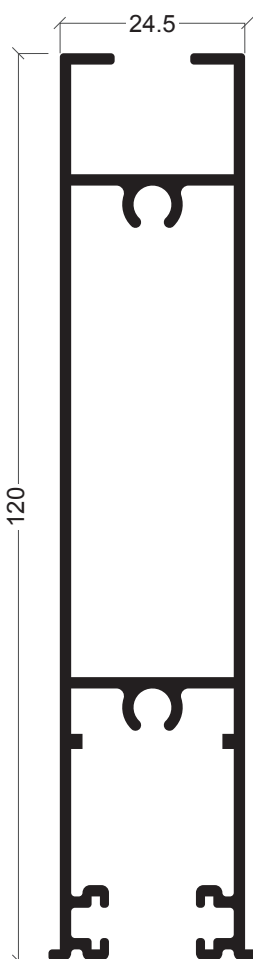
CL-20
Móvel lateral



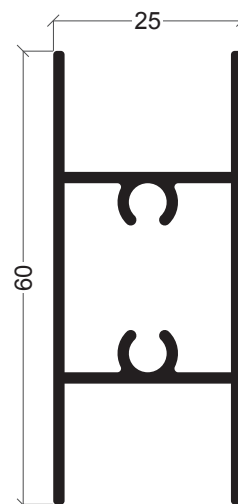
CL-25
Travessa



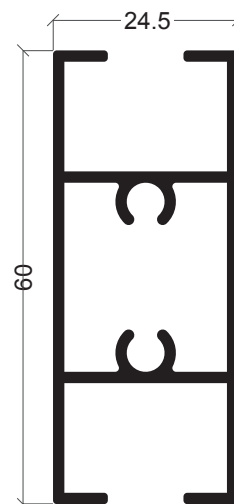
CL-52
Almofada carrinho



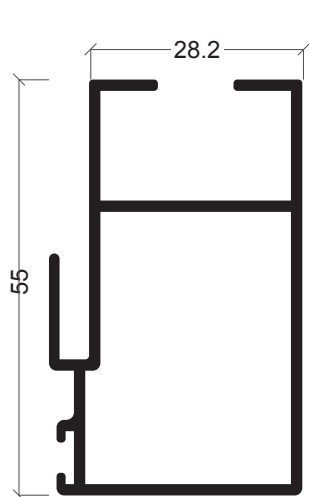
CL-72
Almofada carrinho



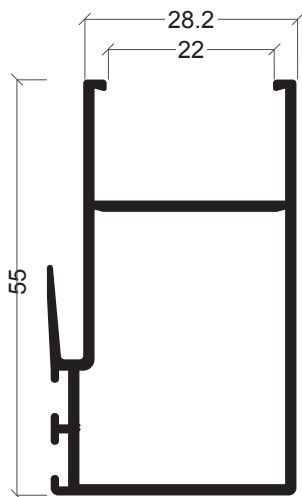
CL-53
Travessa



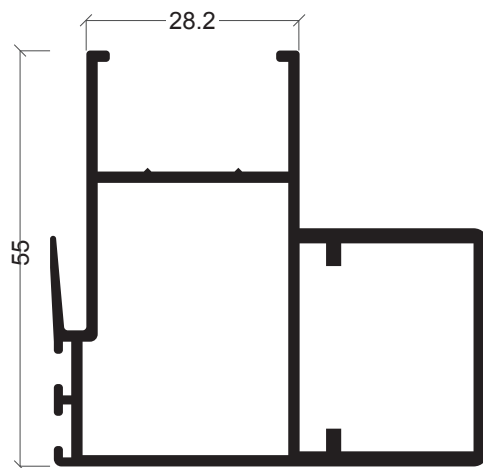
CL-73
Travessa



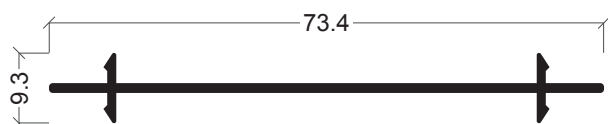
CL-17
Móvel central



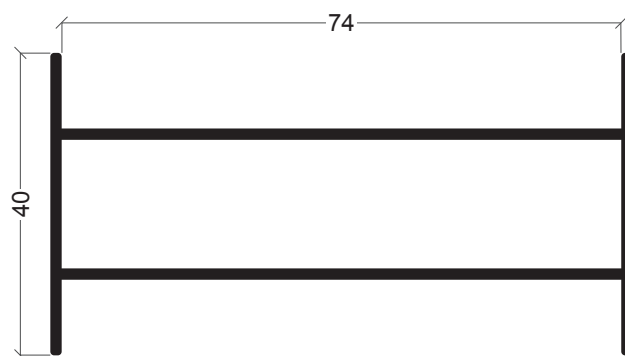
CL-09
Móvel central



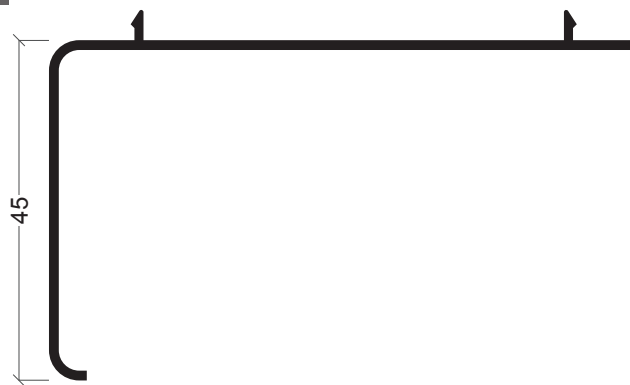
CL-27
Móvel central com reforço



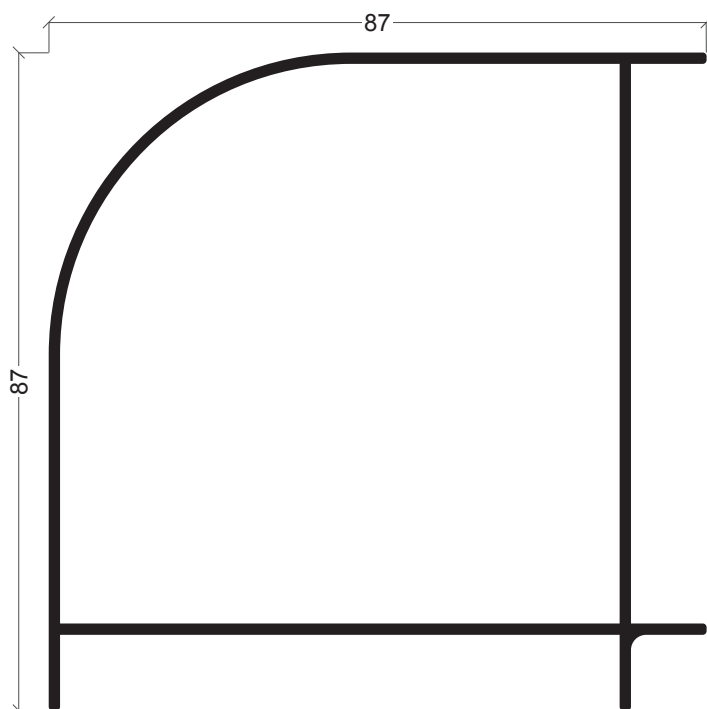
CL-31
União de aros



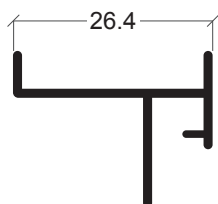
CL-32
União de aros



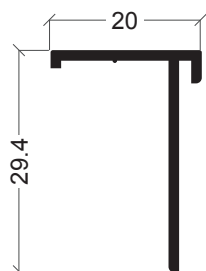
CL-26
Remate



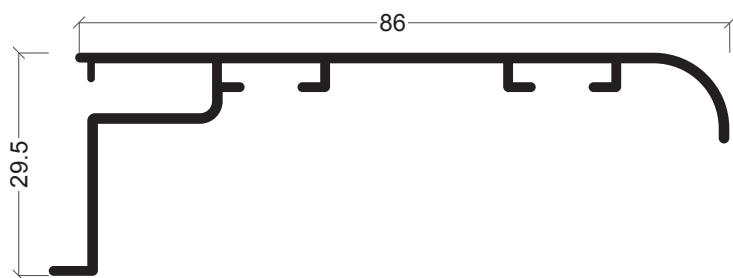
CL-30
Esquina



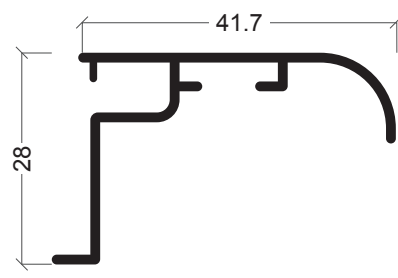
CL-57
Remate persiana



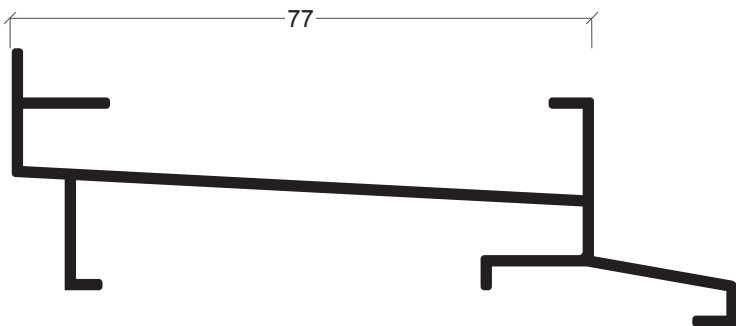
Y-24
Remate p/ apainelado



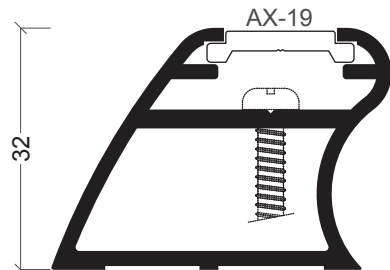
CL-54
Tapa juntas



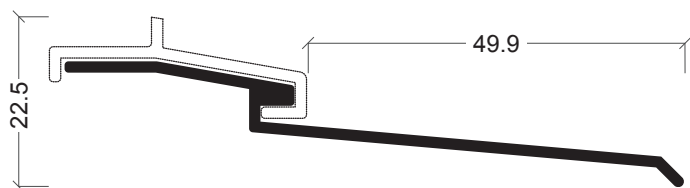
CL-56
Tapa juntas



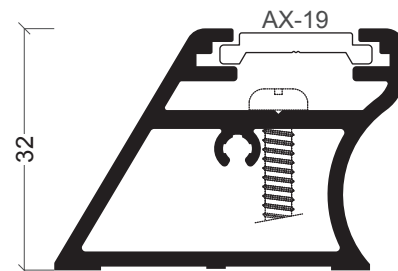
CL-02
Soleira de condensação



CT-27
Reforço



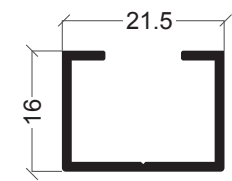
CL-22
Pingadeira



CT-28
Reforço



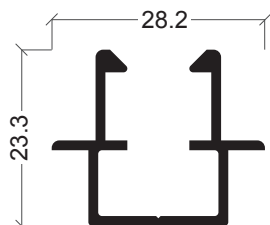
CL-11
Pingadeira



CL-29
Redutor



CL-21
Pingadeira



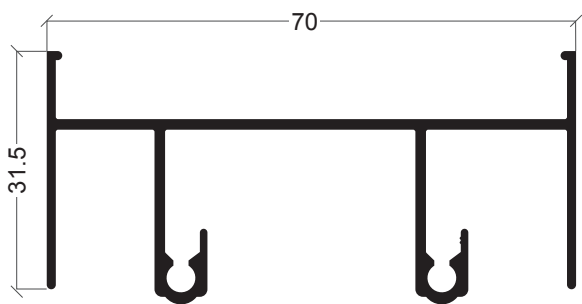
CL-28
União 3/4F



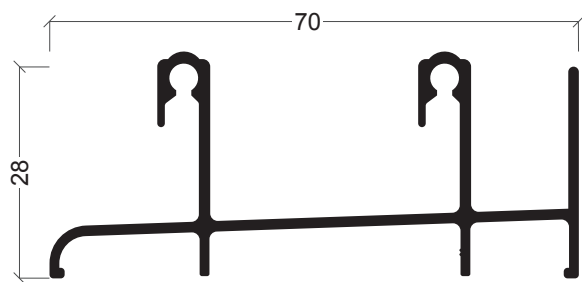
CL-23
Pingadeira



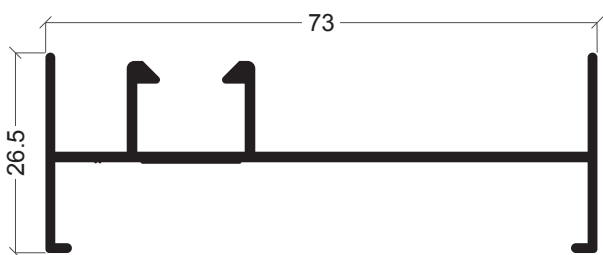
AX-19
Vareta



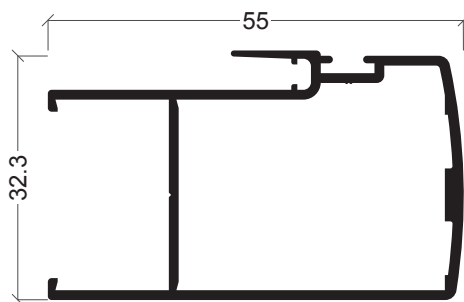
CL-05
Padieira



CL-42
Soleira

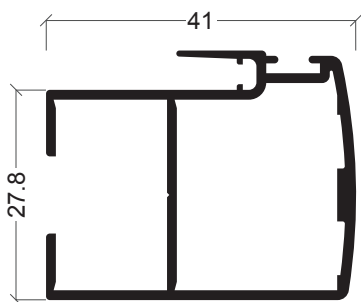


CL-43
Ombreira

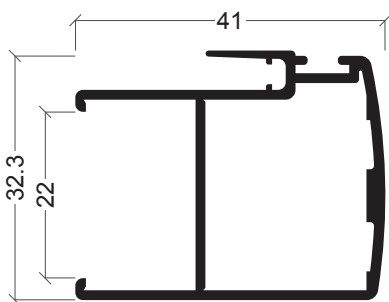


CL-48
Móvel central porta

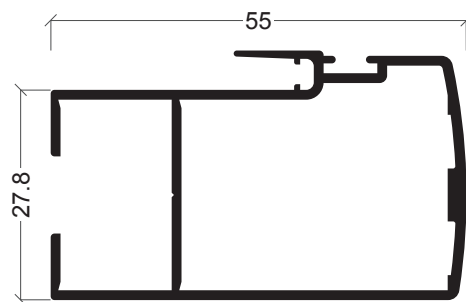
358



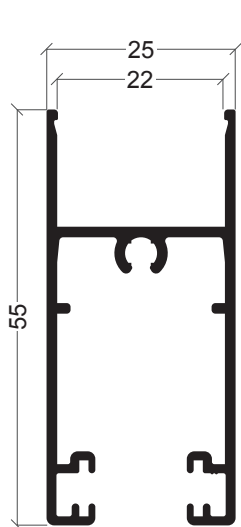
CL-33
Móvel central janela



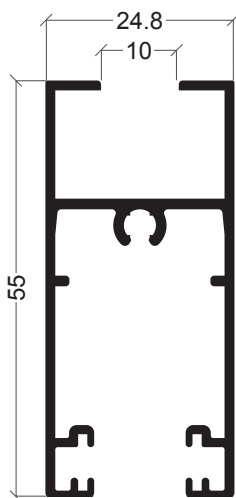
CL-45
Móvel central janela



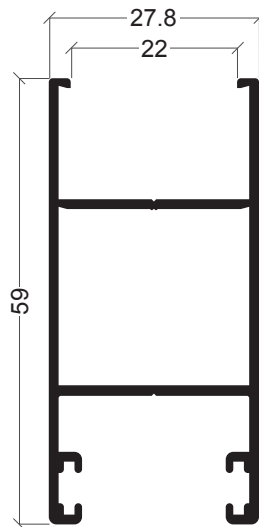
CL-59
Móvel central porta



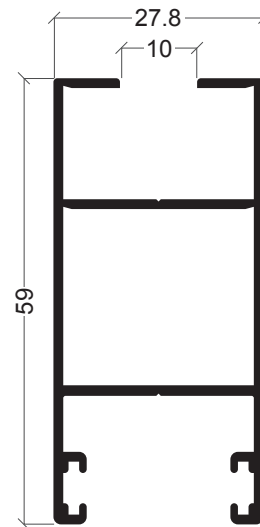
CL-47
Móvel carrinho



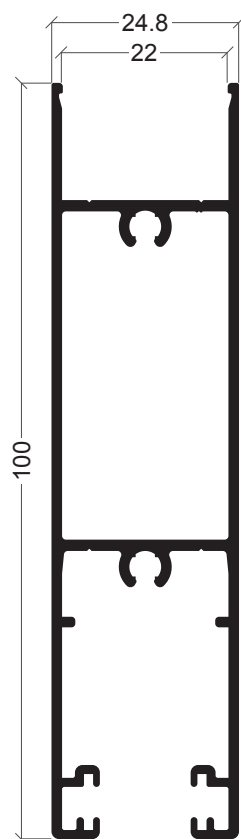
CL-40
Móvel carrinho



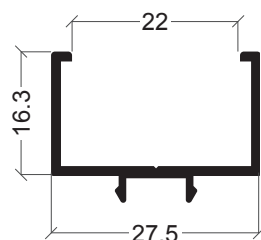
CL-44
Móvel lateral



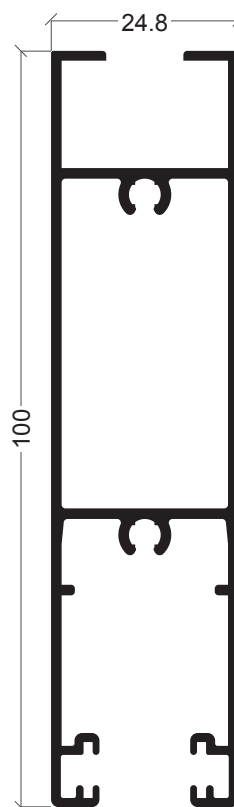
CL-34
Móvel lateral



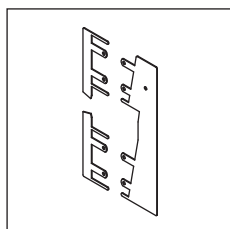
CL-49
Travessa



CL-50
Redutor

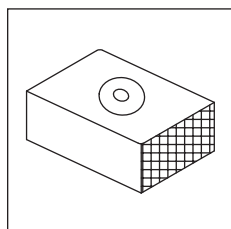


CL-24
Almofada



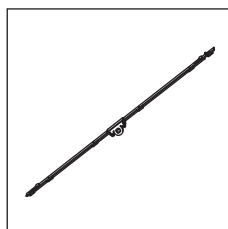
30 20 50 01

Jogo juntas estanquidade janela dupla



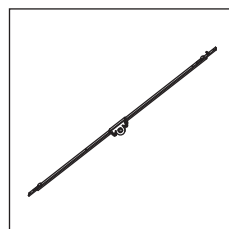
30 91 41 10

Taco anti-levantamento preto



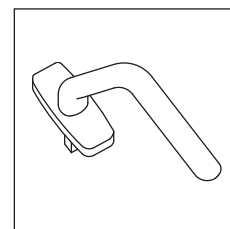
30 91 41 31

Barra 2 pontos com apoios (600 mm)



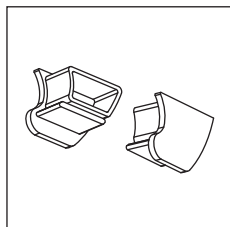
30 91 41 32

Barra 3 pontos com apoios (1670 mm)



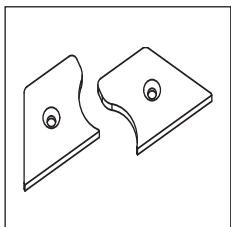
30 91 41 45/46

Cremona desviado direita branco/preto



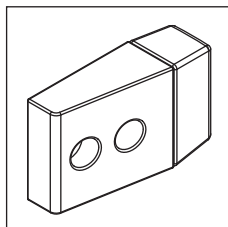
30 91 41 63/64

Jogo topos CT-27 (branco/preto)



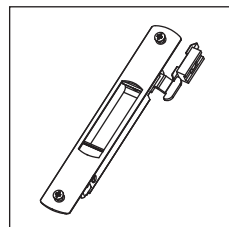
30 91 41 65/66

Jogo topos CT-28 (branco/preto)



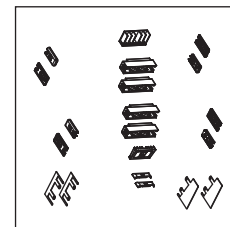
30 91 41 71

Topo limitador de abertura



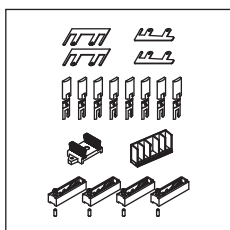
30 91 50 09/10

Fecho lateral (branco/preto)



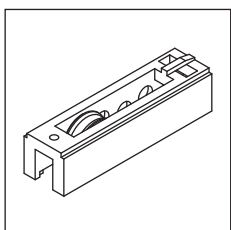
30 91 50 11

Kit CL 2 folhas



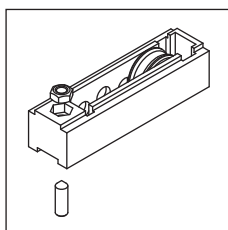
30 91 50 15

Kit correr janela 2 folhas CL-42



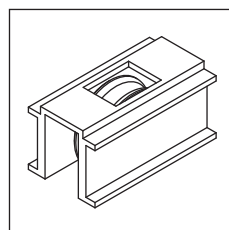
30 91 50 20

Rolamento simples CL-10/12/52/72



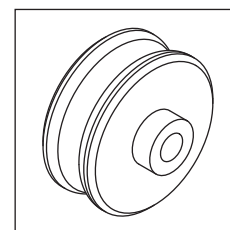
30 91 50 21

Rolamento simples CL Plus (40Kg por folha)



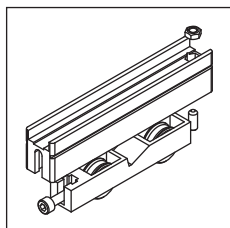
30 91 50 22

Rolamento simples CL-10/12/52/72



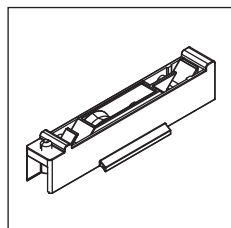
30 91 50 23

Rolamento suplementar (+20Kg por folha)



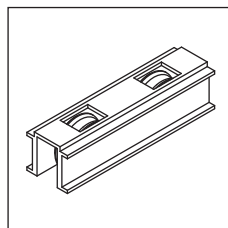
30 91 50 24

Rolamento duplo regulável (80Kg por folha)



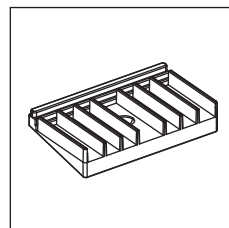
30 91 50 25

Rolamentos simples



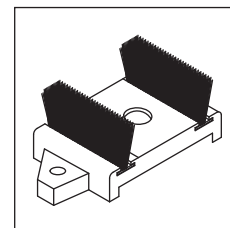
30 91 50 27

Rolamento duplo CL-10/12/52/72



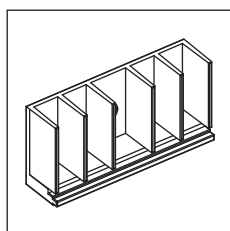
30 91 50 30

Corta-vento inferior CL



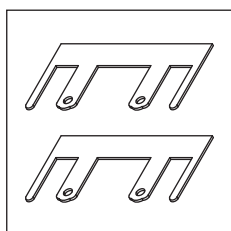
30 91 50 31

Corta ventos inferior CL-42



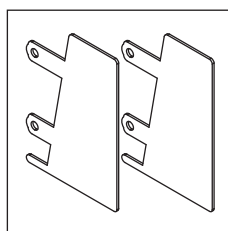
30 91 50 40

Corta-vento superior CL-05/15/75



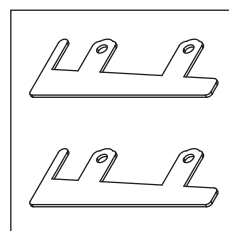
30 91 50 61

Junta estanquidade superior CL-05



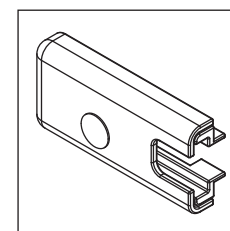
30 91 50 70

Junta estanquidade sup. CL-01/03/63



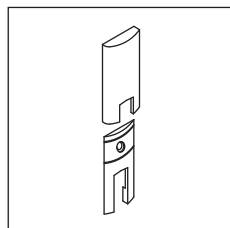
30 91 50 71

Junta estanquidade superior CL-42



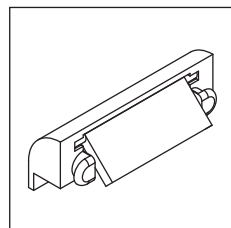
30 91 50 80

Tampa guia lateral CL



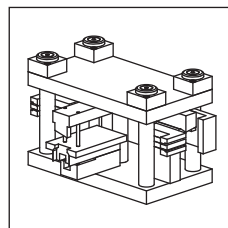
30 91 50 81

Jogo guias lateral CL Plus



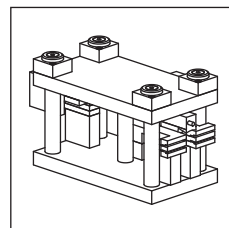
30 92 01 02/03

Goteiras preto / branco













33 21 50 01

Cunho CL dupla

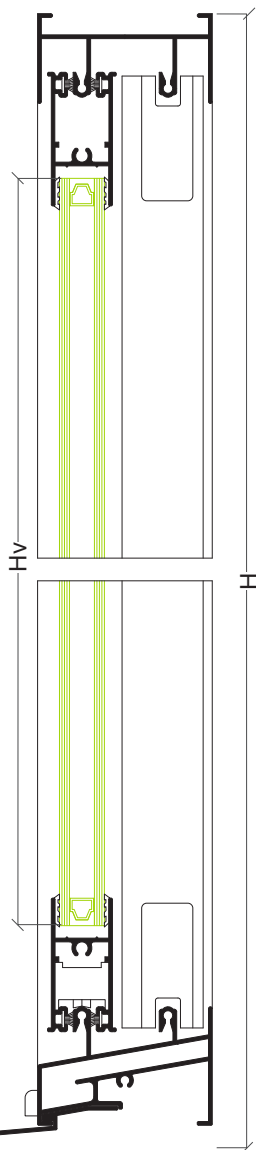
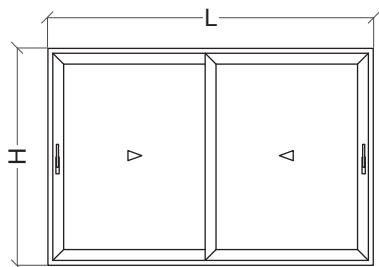


33 95 99 99















Cunho CL

Referência	Desenho	Descrição
30 91 50 86		Junta central
30 91 50 90		Junta U CL/CL Plus vidro 18 mm
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 95 00 40		Pelúcia 7x5.5 mm
30 95 00 70		Pelúcia 7x3.5 mm
30 95 00 80		Pelúcia 7x5 mm

Janela 2 folhas correr



Perfis

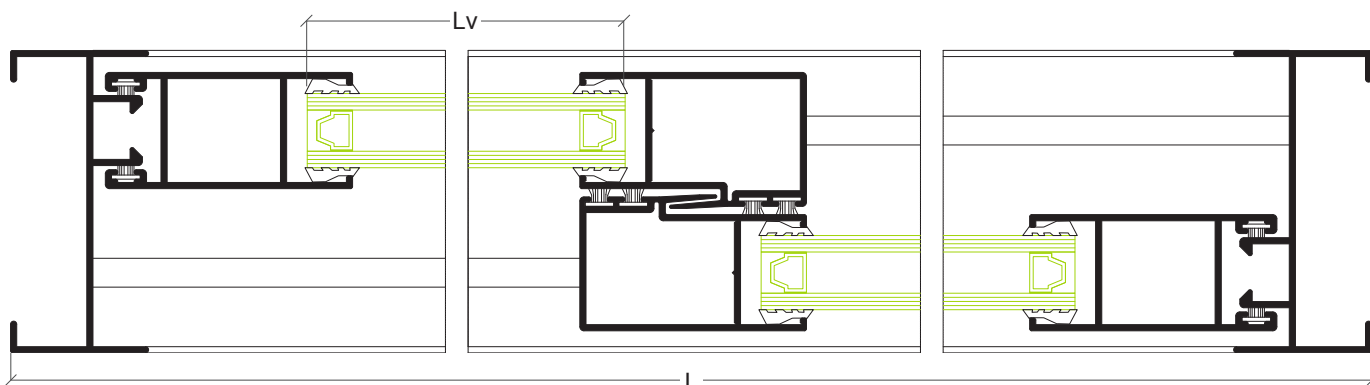
Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-40 mm
	CL-01	Soleira		1	L-40 mm
	CL-06	Ombreira		2	H
	CL-10	Móvel carrinho		4	L/2-12 mm
	CL-20	Móvel lateral		2	H-64 mm
	CL-09	Móvel central		2	H-64 mm
	CL-22	Pingadeira		1	L

Acessórios e Juntas

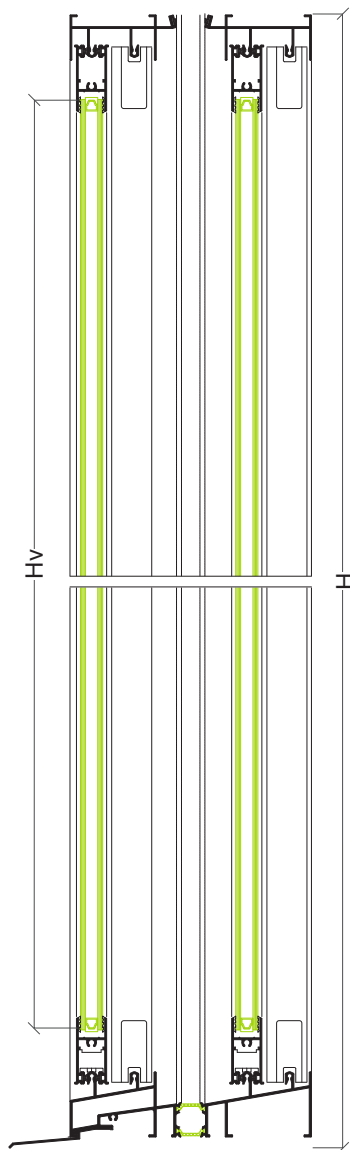
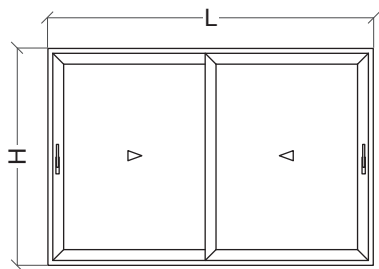
Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	2
30 91 50 22	Rolamentos	4
30 91 50 30	Corta ventos inferior	1
30 91 50 40	Corta ventos superior	1
30 91 50 61	Junta estanquidade superior	1
30 91 50 70	Junta estanquidade inferior	1
30 91 50 80	Tampa guia lateral	4
30 92 01 00	Goteiras	2
30 95 00 40	Pelúcia 7x5.5 mm	8L/2
30 95 00 70	Pelúcia 7x3.5 mm (lateral)	4H
30 95 00 80	Pelúcia 7x5 mm (central)	4H

Vidro

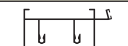



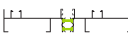









Hv = H-146 mm	Lv = L/2-89 mm
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Janela 2 folhas dupla correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-75	Padieira		2	L-46 mm
	CL-71	Soleira		1	L-46 mm
	CL-76	Ombreira		2	H
	CL-10	Móvel carrinho		8	L/2-15 mm
	CL-20	Móvel lateral		4	H-71 mm
	CL-09	Móvel central		4	H-71 mm
	CL-22	Pingadeira		1	L

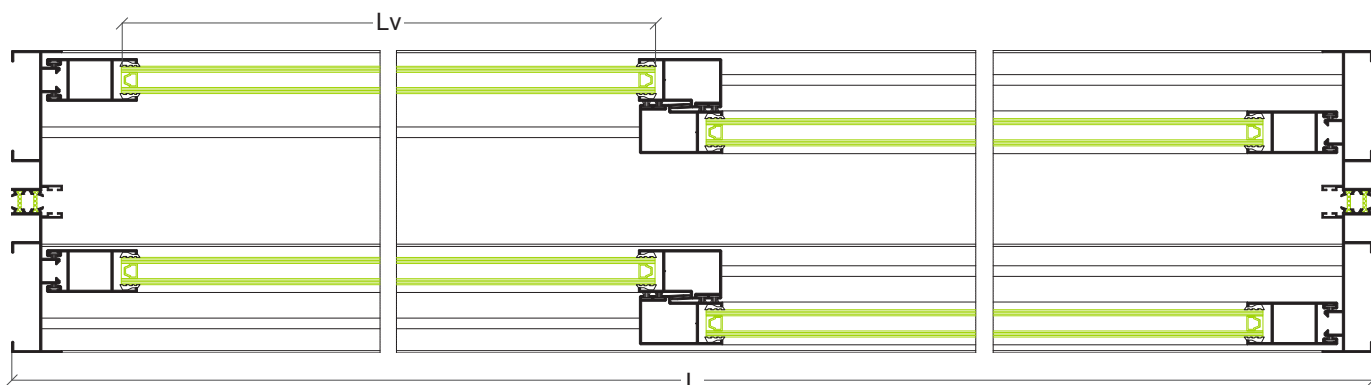
Acessórios e Juntas

Referência	Descrição	Quantidade
30 20 50 01	Jogo juntas estanquidade janela dupla	1
30 91 50 09/10	Fecho lateral	4
30 91 50 22	Rolamentos	8
30 91 50 30	Corta ventos inferior	2
30 91 50 40	Corta ventos superior	2
30 91 50 80	Tampa guia lateral	8
30 91 50 85	Guia de persiana	2
30 92 01 00	Goteiras	2
30 95 00 40	Pelúcia 7x5.5 mm	16L/2 2L
30 95 00 70	Pelúcia 7x3.5 mm (lateral)	8H
30 95 00 80	Pelúcia 7x5 mm (central)	8H

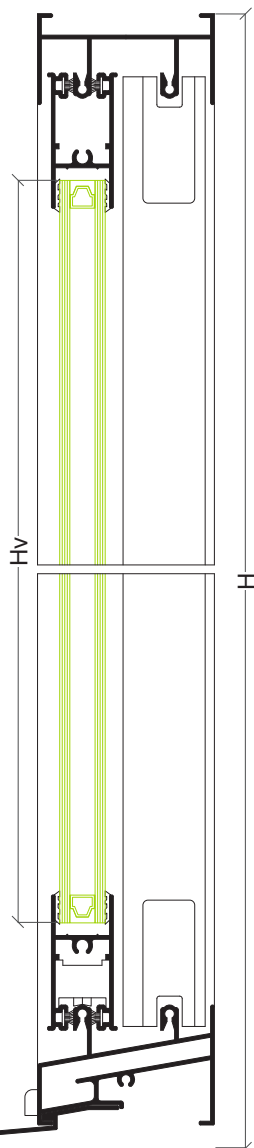
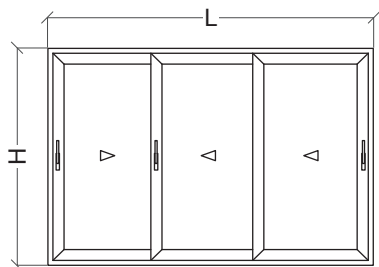
363

Vidro
















Hv = H-153 mm	Lv = L/2-92 mm
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Janela 3 folhas correr



Perfis

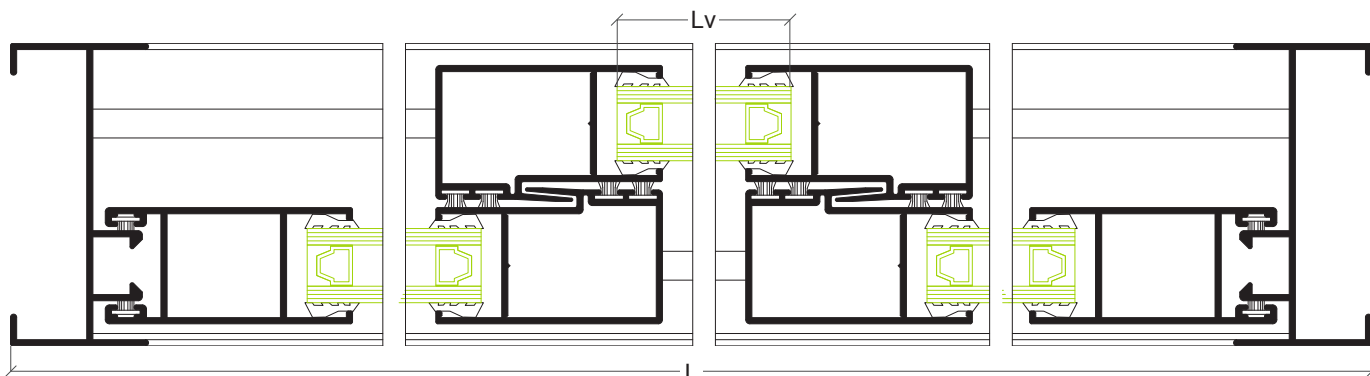
Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-40 mm
	CL-01	Soleira		1	L-40 mm
	CL-06	Ombreira		2	H
	CL-10	Móvel carrinho		4	L/3+7 mm
				2	L/3+15 mm
	CL-20	Móvel lateral		2	H-64 mm
	CL-09	Móvel central		4	H-64 mm
	CL-22	Pingadeira		1	L

Acessórios e Juntas

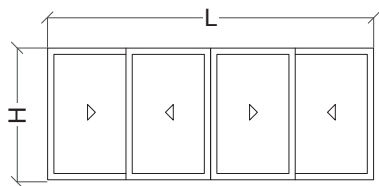
Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	2
30 91 50 22	Rolamentos	6
30 91 50 30	Corta ventos inferior	2
30 91 50 40	Corta ventos superior	2
30 91 50 60	Junta estanquidade superior	1
30 91 50 70	Junta estanquidade inferior	1
30 91 50 80	Tampa guia lateral	8
30 92 01 00	Goteiras	2
30 95 00 40	Pelúcia 7x5.5 mm	12L/3
30 95 00 70	Pelúcia 7x3.5 mm (lateral)	4H
30 95 00 80	Pelúcia 7x5 mm (central)	4H

Vidro

Hv = H2-85 mm	Lv = L/2-89 mm
Hv = H1-166 mm	Lv = L/2-89 mm

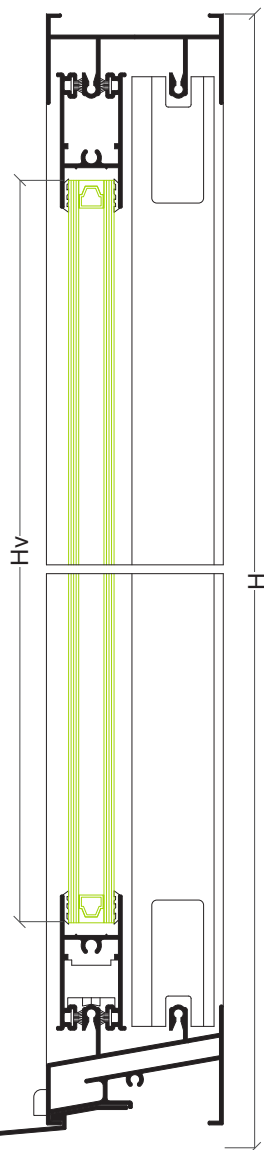


Janela 4 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-40 mm
	CL-01	Soleira		1	L-40 mm
	CL-06	Ombreira		2	H
	CL-10	Móvel carrinho		8	L/4-2 mm
	CL-20	Móvel lateral		4	H-64 mm
	CL-09	Móvel central		4	H-64 mm
	CL-28	União de 4 folhas		1	H-64 mm
	CL-22	Pingadeira		1	L



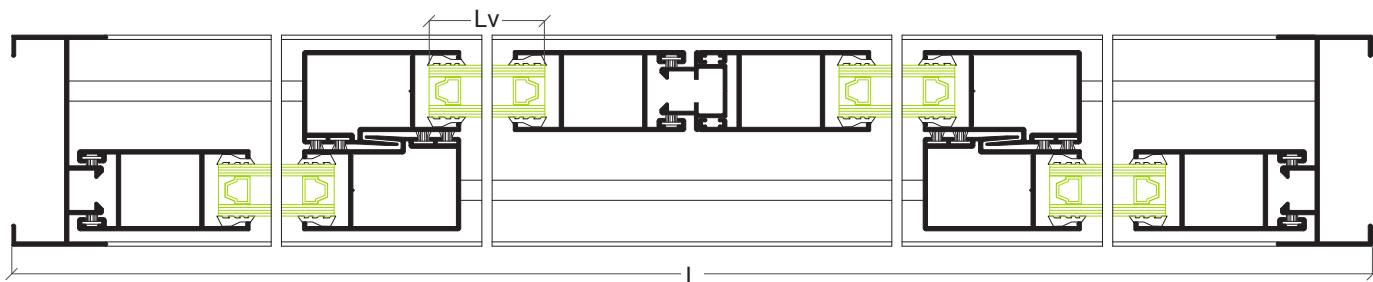
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	3
30 91 50 22	Rolamentos	8
30 91 50 30	Corta ventos inferior	3
30 91 50 40	Corta ventos superior	3
30 91 50 60	Junta estanquidade superior	1
30 91 50 70	Junta estanquidade inferior	1
30 91 50 80	Tampa guia lateral	8
30 92 01 00	Goteiras	3
30 95 00 40	Pelúcia 7x5.5 mm	16L/4
30 95 00 70	Pelúcia 7x3.5 mm (lateral)	6H
30 95 00 80	Pelúcia 7x5 mm (central)	8H

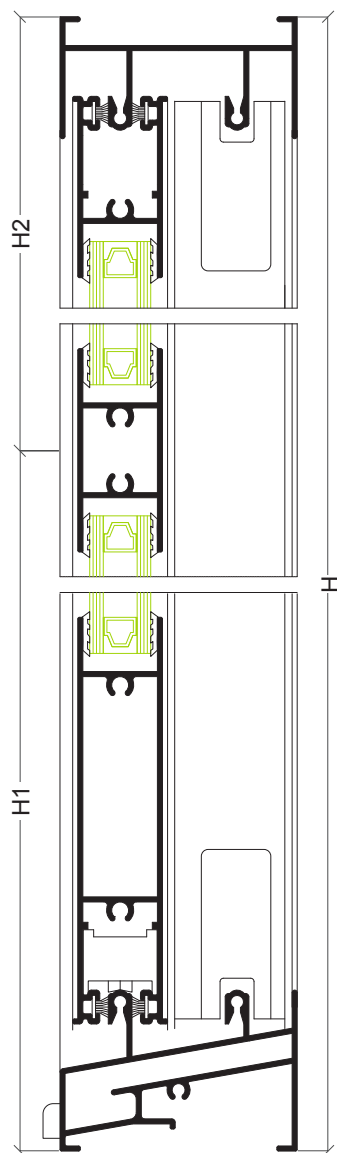
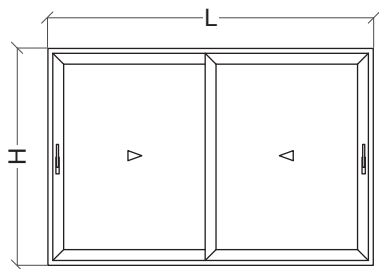
365

Vidro

Hv = H-146 mm	Lv = L/4-78 mm
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Porta 2 folhas correr



Perfis

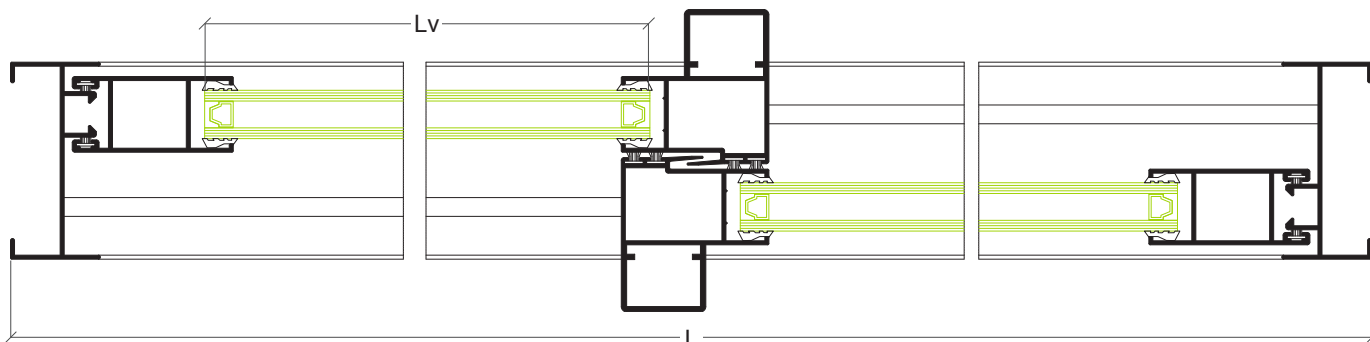
Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-40 mm
	CL-01	Soleira		1	L-40 mm
	CL-06	Ombreira		2	H
	CL-10	Móvel carrinho		4	L/2-12 mm
	CL-20	Móvel lateral		2	H-64 mm
	CL-27	Móvel central		2	H-64 mm
	CL-52	Almofada		2	L/2-12 mm
	CL-53	Travessa		2	L/2-12 mm

Acessórios e Juntas

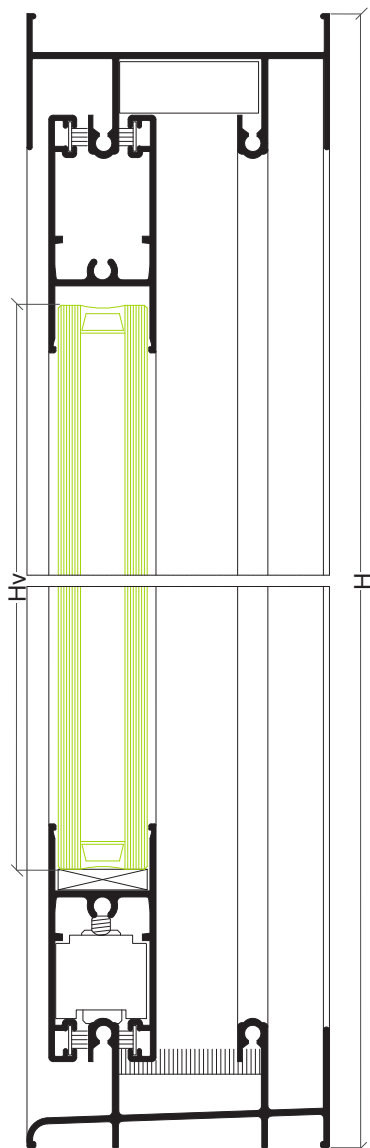
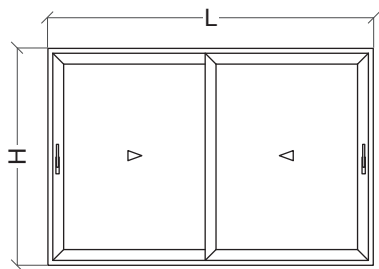
Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	2
30 91 50 27	Rolamentos	4
30 91 50 30	Corta ventos inferior	1
30 91 50 40	Corta ventos superior	1
30 91 50 60	Junta estanquidade superior	1
30 91 50 70	Junta estanquidade inferior	1
30 91 50 80	Tampa guia lateral	4
30 92 01 00	Goteiras	2
30 95 00 40	Pelúcia 7x5.5 mm	8L/2
30 95 00 70	Pelúcia 7x3.5 mm (lateral)	4H
30 95 00 80	Pelúcia 7x5 mm (central)	4H

Vidro





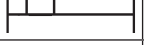







Hv = H2-85 mm	Lv = L/2-89 mm
Hv = H1-166 mm	Lv = L/2-89 mm



Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-28 mm
	CL-42	Soleira		1	L-28 mm
	CL-43	Ombreira		2	H
	CL-47	Móvel carrinho		4	L/2-16 mm
	CL-44	Móvel lateral		2	H-43.5 mm
	CL-45	Móvel central		2	H-43.5 mm

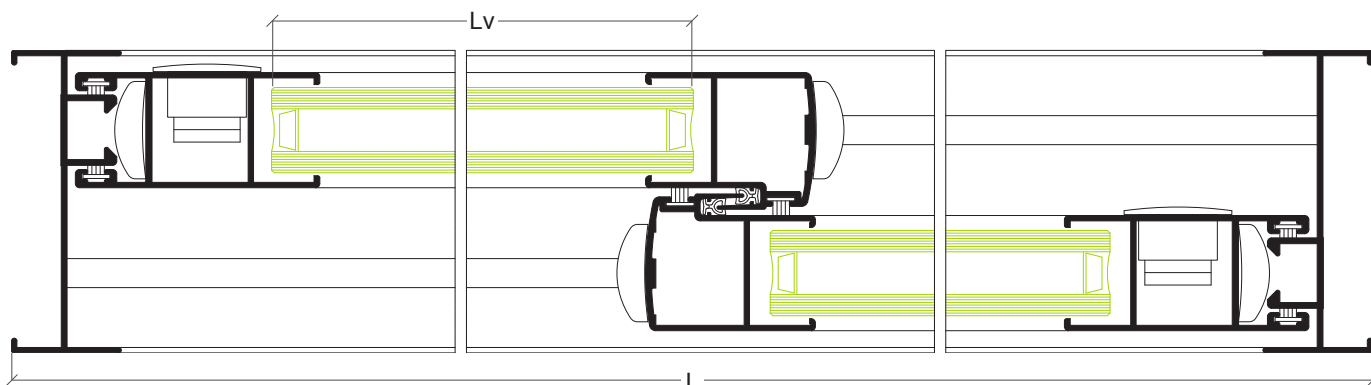
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	2
30 91 50 21	Rolamentos simples	4
30 91 50 31	Corta ventos inferior	1
30 91 50 40	Corta ventos superior	1
30 91 50 61	Junta estanquidade superior	1
30 91 50 71	Junta estanquidade inferior	1
30 91 50 81	Jogo guias lateral	8
30 95 00 40	Pelúcia 7x5.5 mm	4L+2H
30 95 00 70	Pelúcia 7x3.5 mm (lateral)	4H
30 91 50 86	Junta central	2H

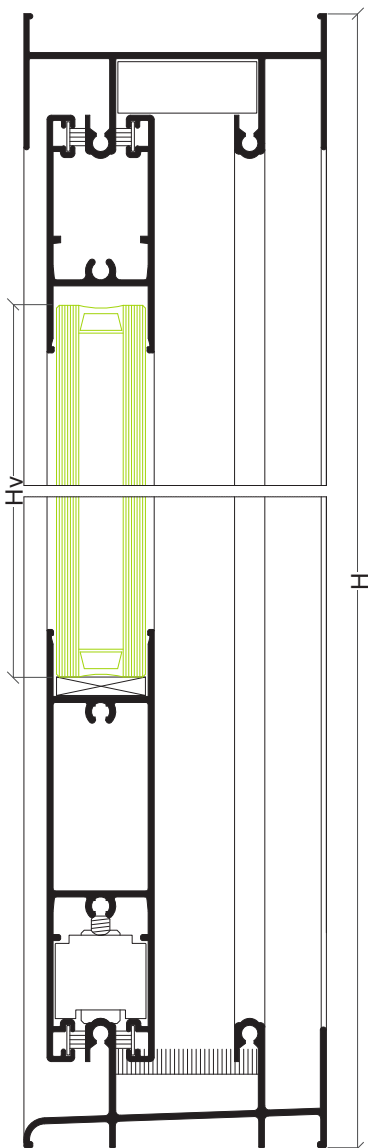
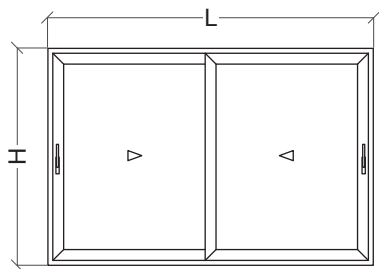
367

Vidro





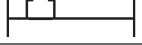









Hv = H-132 mm	Lv = L/2-73 mm
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Porta 2 folhas correr



Perfis

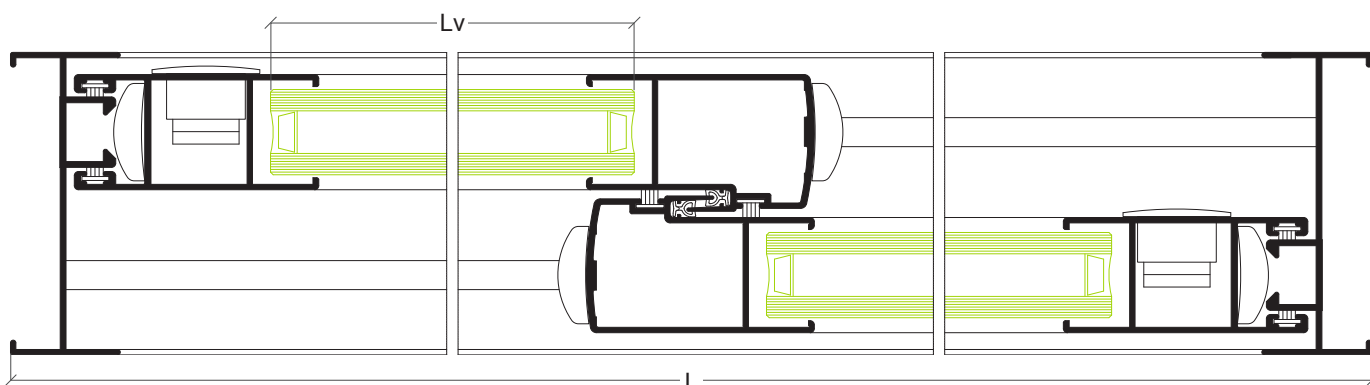
Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-28 mm
	CL-42	Soleira		1	L-28 mm
	CL-43	Ombreira		2	H
	CL-47	Móvel carrinho		4	L/2-9 mm
	CL-44	Móvel lateral		2	H-43.5 mm
	CL-48	Móvel central		2	H-43.5 mm
	CL-49	Travessa		2	L/2-9 mm

Acessórios e Juntas

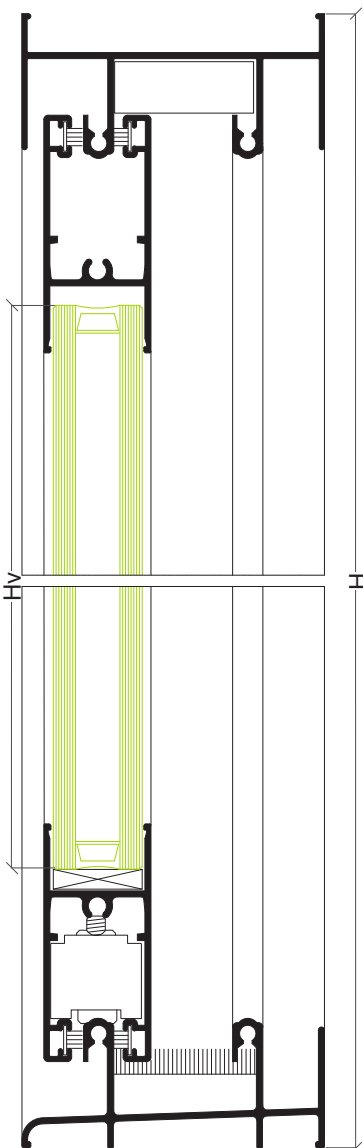
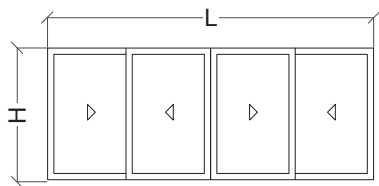
Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	2
30 91 50 21	Rolamentos simples	4
30 91 50 23	Rolamentos suplementares	4
30 91 50 31	Corta ventos inferior	1
30 91 50 40	Corta ventos superior	1
30 91 50 61	Junta estanquidade superior	1
30 91 50 71	Junta estanquidade inferior	1
30 91 50 81	Jogo guias lateral	8
30 95 00 40	Pelúcia 7x5.5 mm	4L+2H
30 95 00 70	Pelúcia 7x3.5 mm (lateral)	4H
30 91 50 86	Junta central	2H

Vidro

Hv = H-177 mm	Lv = L/2-80 mm
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Janela 4 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-28 mm
	CL-42	Soleira		1	L-28 mm
	CL-43	Ombreira		2	H
	CL-47	Móvel carrinho		8	L/4-9 mm
	CL-44	Móvel lateral		4	H-43.5 mm
	CL-45	Móvel central		4	H-43.5 mm
	CL-28	União 3/4F		1	H-43.5 mm

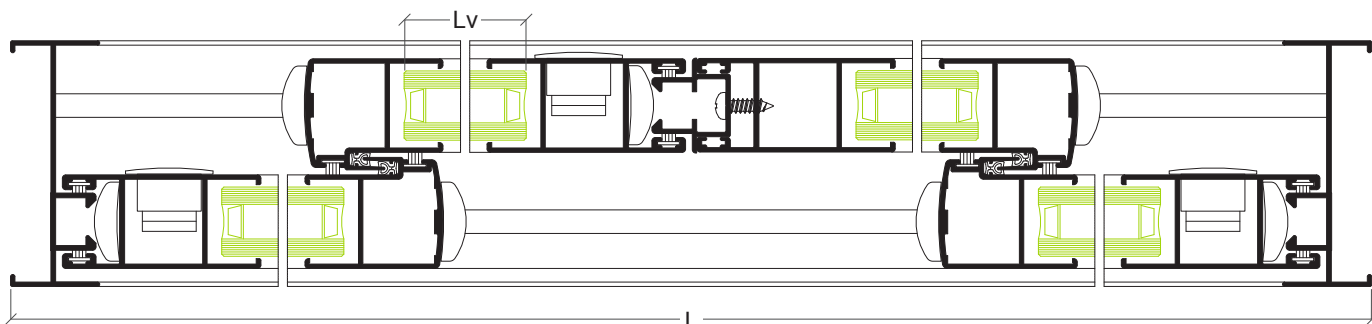
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	3
30 91 50 21	Rolamentos simples	8
30 91 50 31	Corta ventos inferior	3
30 91 50 40	Corta ventos superior	3
30 91 50 61	Junta estanquidade superior	1
30 91 50 71	Junta estanquidade inferior	1
30 91 50 81	Jogo guias lateral	14
30 95 00 40	Pelúcia 7x5.5 mm	4L+4H
30 95 00 70	Pelúcia 7x3.5 mm	6H
30 91 50 86	Junta central	4H

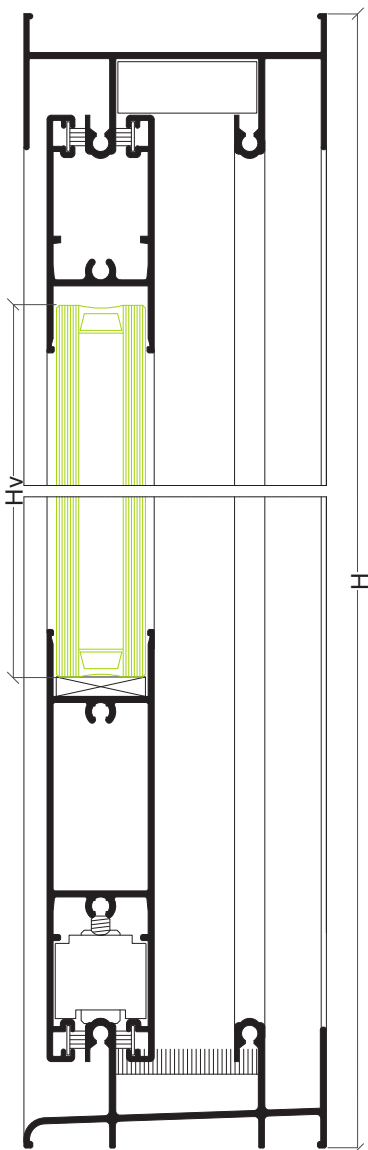
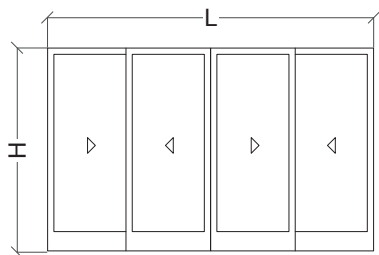
369

Vidro

Hv = H-132 mm	Lv = L/4-66 mm
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Porta 4 folhas correr



370

Perfis

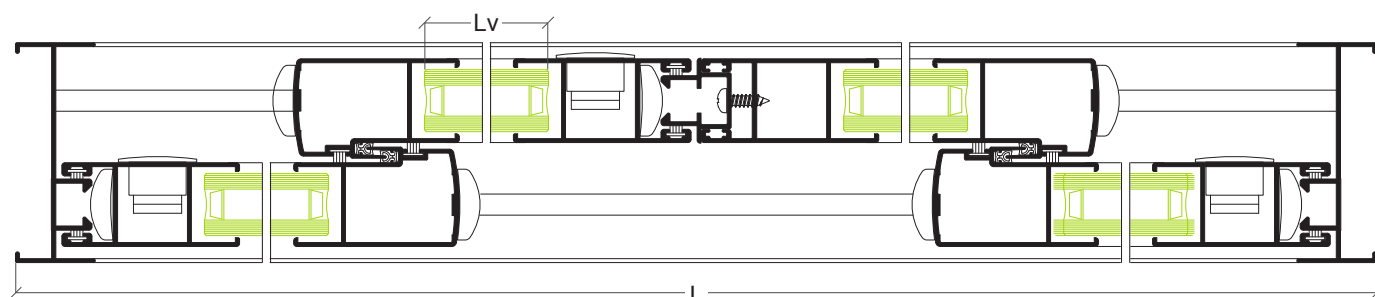
Desenho	Ref	Descrição	Corte	Quant	Medida
	CL-05	Padieira		1	L-28 mm
	CL-42	Soleira		1	L-28 mm
	CL-43	Ombreira		2	H
	CL-47	Móvel carrinho		4	L/4-2 mm
	CL-44	Móvel lateral		4	H-43.5 mm
	CL-48	Móvel central		4	H-43.5 mm
	CL-49	Travessa		4	L/4-2 mm
	CL-28	União 3/4F		1	H-43.5 mm

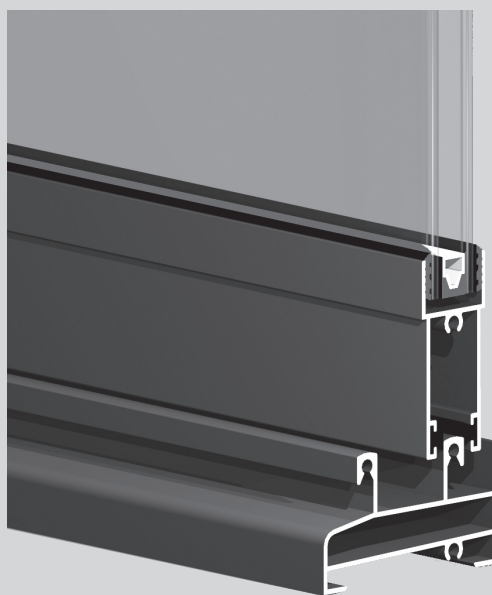
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 50 09/10	Fecho lateral	3
30 91 50 21	Rolamentos simples	4
30 91 50 23	Rolamentos suplementares	4
30 91 50 31	Corta ventos inferior	3
30 91 50 40	Corta ventos superior	3
30 91 50 61	Junta estanquidade superior	1
30 91 50 71	Junta estanquidade inferior	1
30 91 50 81	Jogo guias lateral	14
30 95 00 40	Pelúcia 7x5.5 mm	4L+4H
30 95 00 70	Pelúcia 7x3.5 mm	6H
30 91 50 86	Junta central	4H

Vidro

Hv = H-177 mm	Lv = L/4-73 mm
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Sistema

CM

Sistema CM

Sistema de correr - 60 mm

Características do sistema

Sistemas de alumínio para execução de vãos de correr ou vãos de correr com janela dupla.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Aros fixos

Secção do aro fixo de 2 guias de 60 mm para montagem a corte recto;
Secção do aro fixo de 3 guias de 90 mm para montagem a corte recto;
Secção do aro fixo janela dupla de 176.5 mm para montagem a corte recto.

Aros móveis

Secção dos aros móveis de 22 mm com montagem a corte recto;
Enchimento de 4 mm a 16 mm;
Estanquidade assegurada através de pelúcia tipo Fin-Seal.

Dimensionamento e manobralidade

Peso máximo 80 kg por folha (com 2 rolamentos duplos);
Possibilidades de abertura: 1, 2, 3, 4 e 6 folhas, com folhas móveis e/ou fixas;
Rolamento duplo com regulação.

Performances

Sistema certificado por laboratório notificado do ensaio tipo inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CM:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 6A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C1 (norma de ensaio EN 12211)

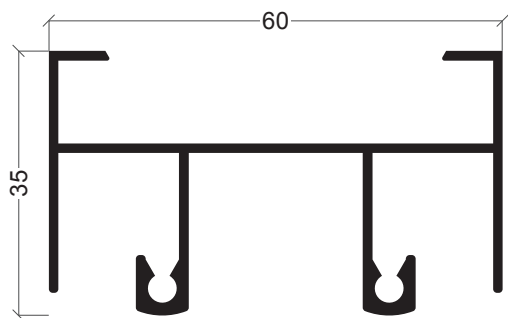
Coefficiente de transmissão térmica de vão de 2 folhas com 1.60 m x 2.00 m com vidro $U_g = 2.1 \text{ W/m}^2\text{K}$:

• $U_w = 3.32 \text{ W/m}^2\text{K}$

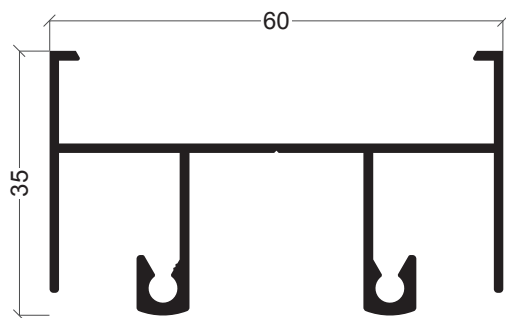
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/8/4:

• $R_w (C; C_{tr}) = 28 \text{ dB} (-1; -1)$

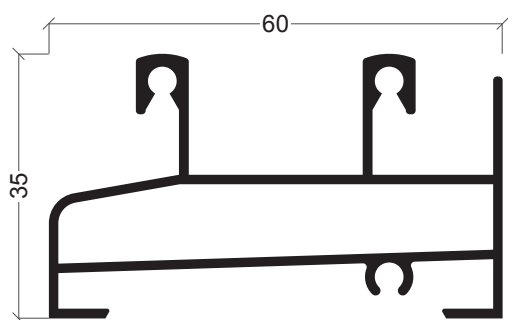
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



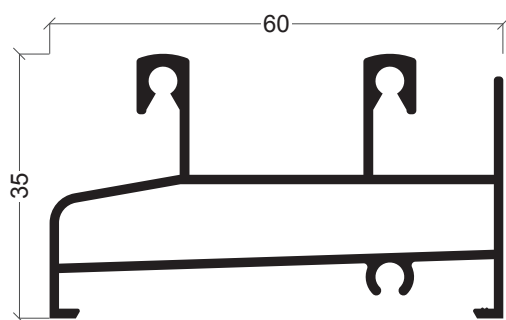
CM-05
Padieira



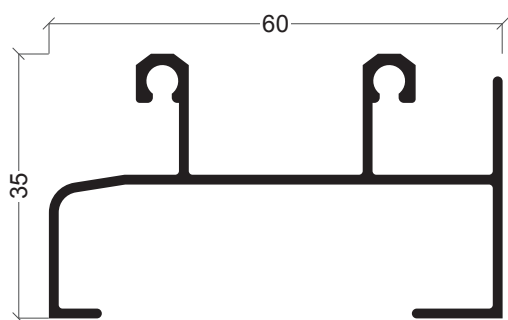
CM-15
Padieira



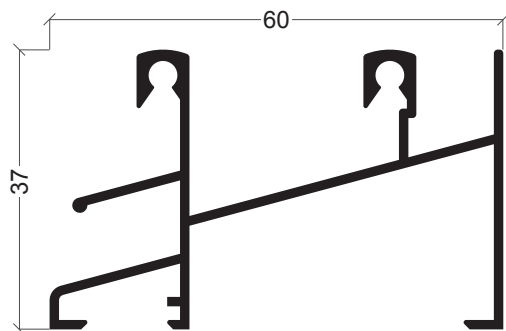
CM-01
Soleira



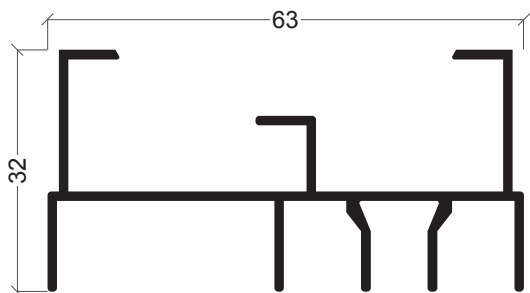
CM-11
Soleira



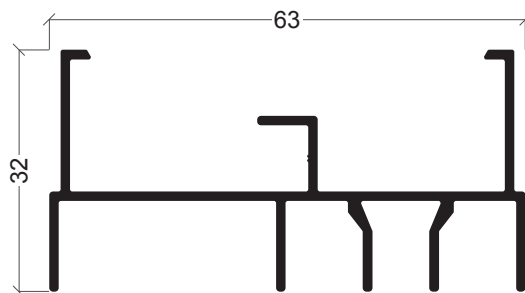
CM-71
Soleira



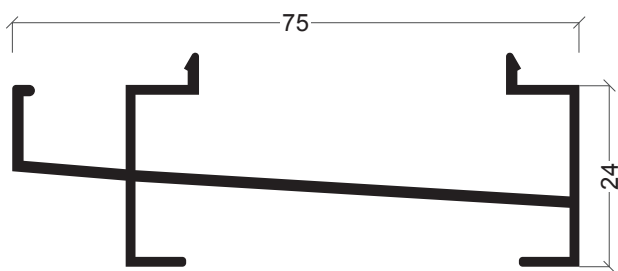
CM-31
Soleira



CM-06
Ombreira



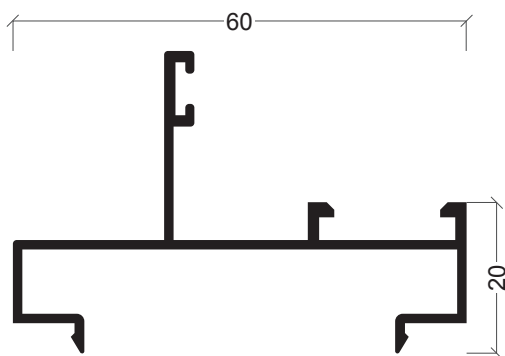
CM-26
Ombreira



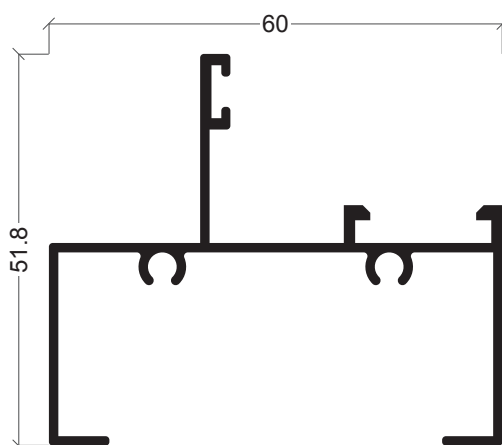
CM-38
Soleira



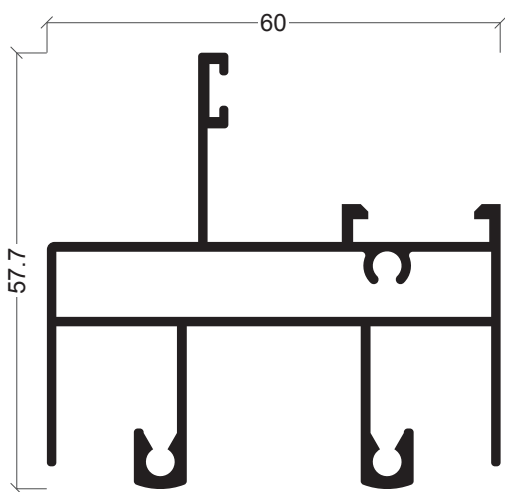
CM-20
Remate



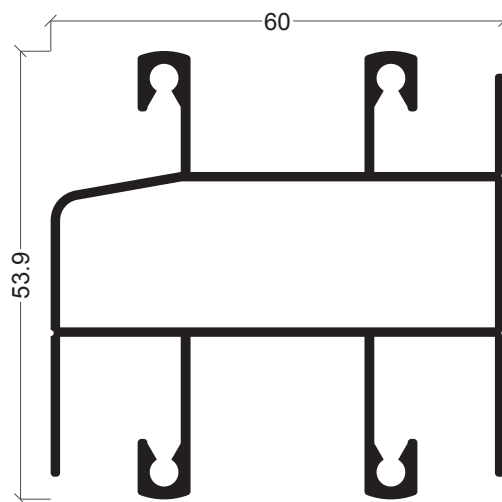
CM-18
Complemento fixo



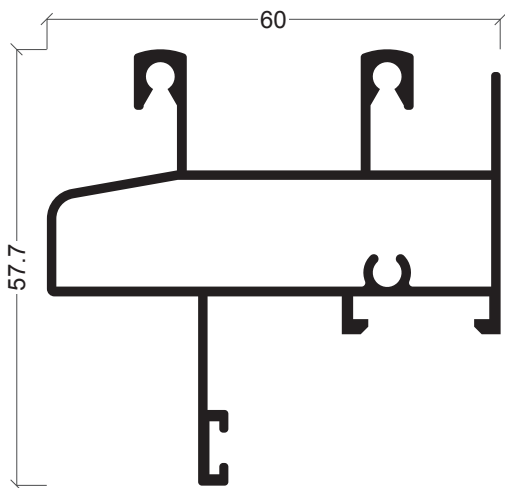
CM-08
Complemento fixo



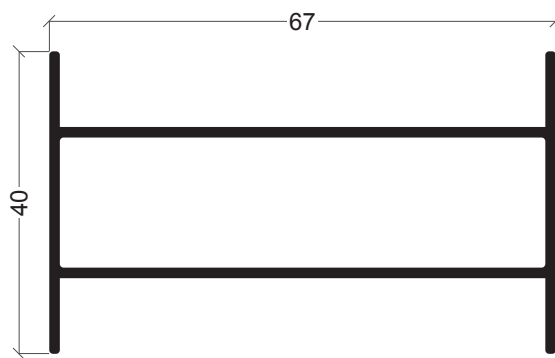
CM-55
Padieira com fixo superior



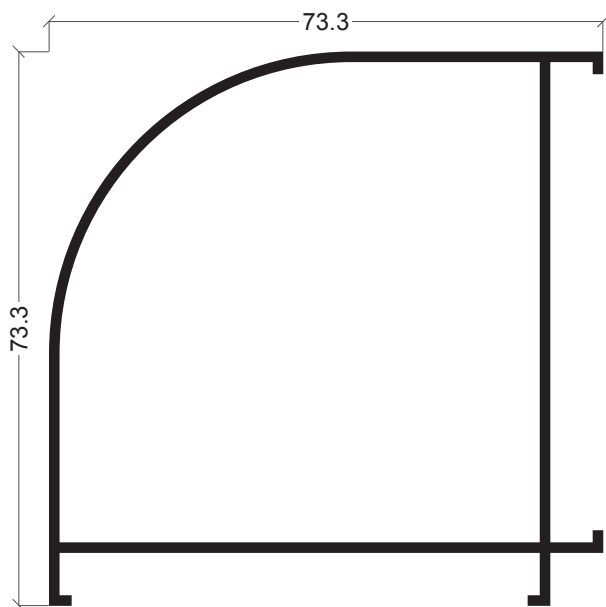
CM-04
Aro duplo



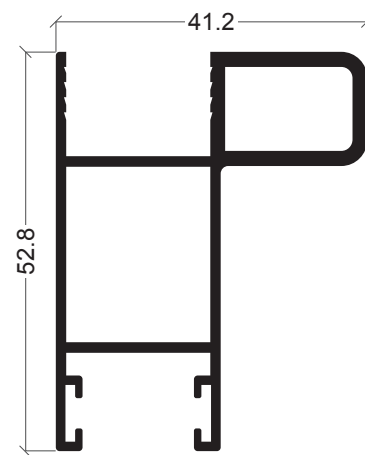
CM-51
Soleira com fixo inferior



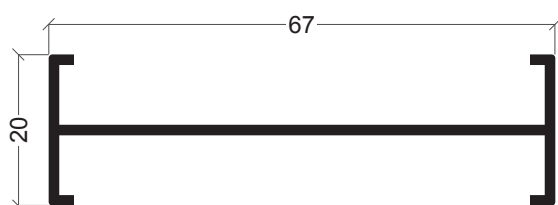
CM-32
União de aros



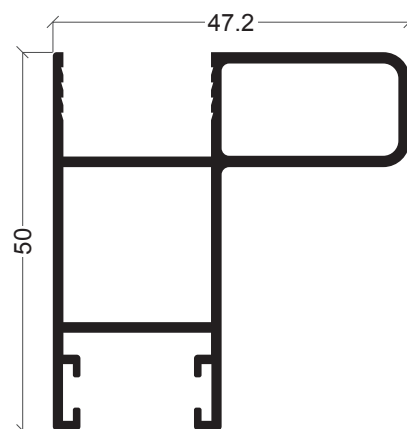
CM-35
Esquina



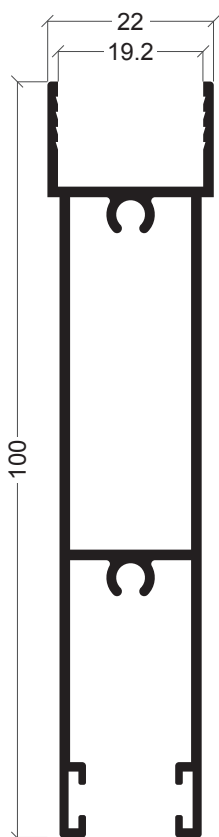
CM-81
Aro móvel lateral com reforço



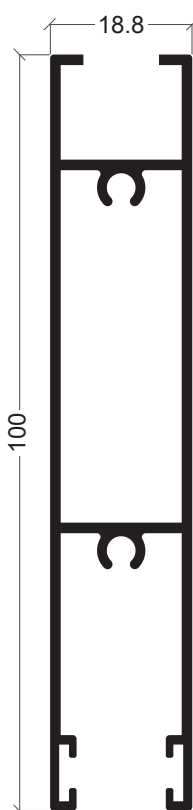
CM-49
União de aros



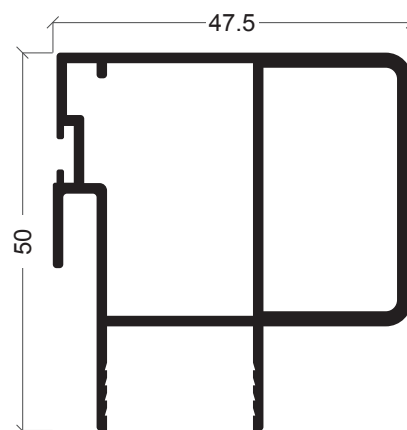
CM-30
Aro móvel lateral com reforço



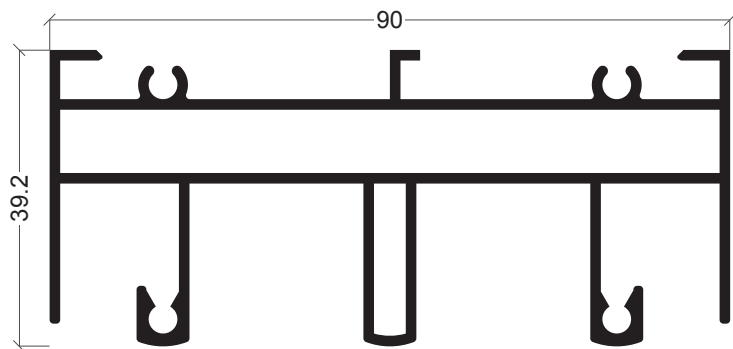
CM-52
Almofada carrinho



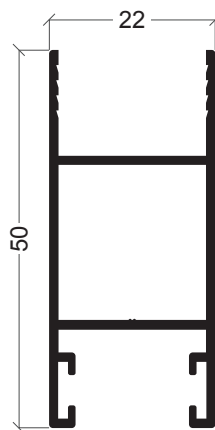
CM-53
Almofada carrinho



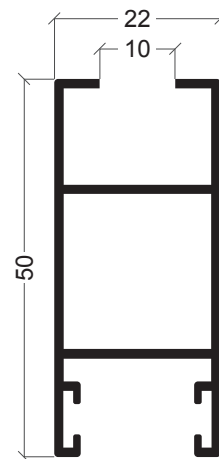
CM-29
Aro móvel central com reforço



CM-45
Padieira tri-rail

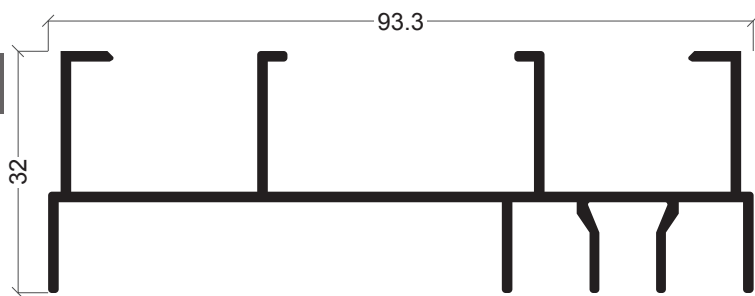


CM-10
Aro móvel lateral

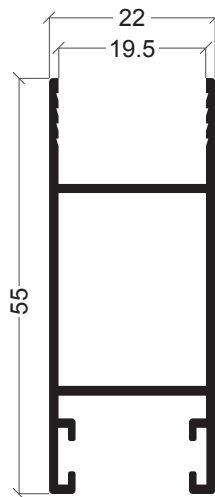


CM-16
Aro móvel lateral

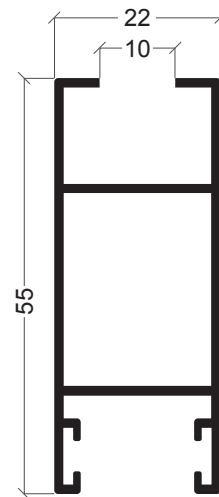
376



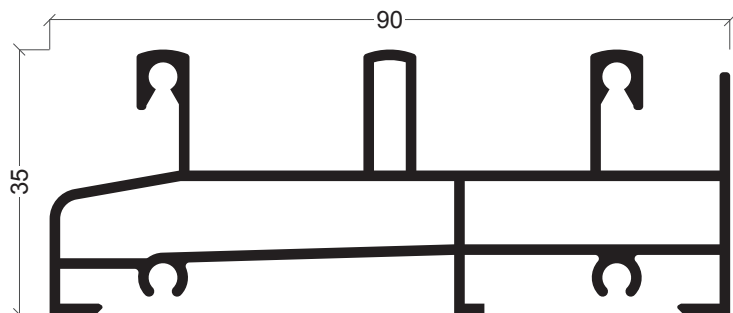
CM-46
Ombreira tri-rail



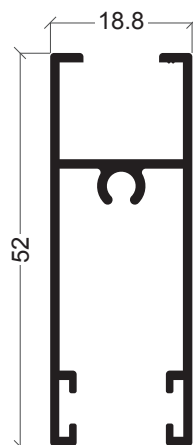
CM-80
Aro móvel lateral



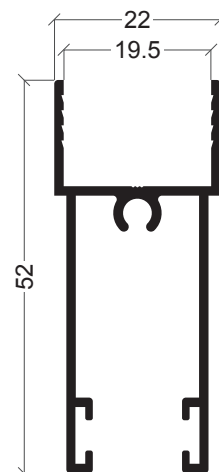
CM-76
Aro móvel lateral



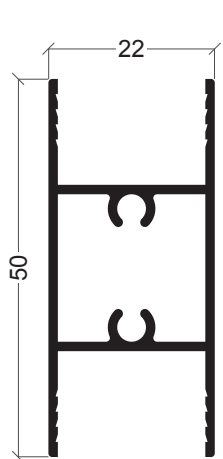
CM-41
Soleira tri-rail



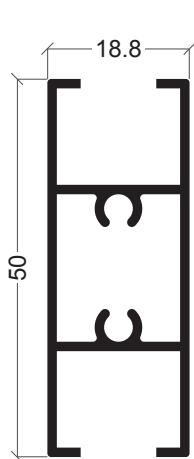
CM-12
Aro móvel carrinho



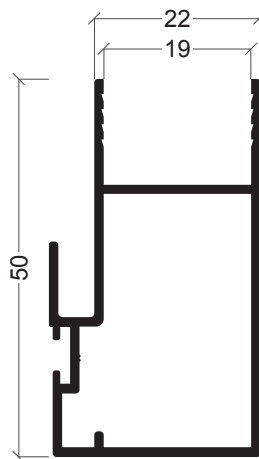
CM-02
Aro móvel carrinho



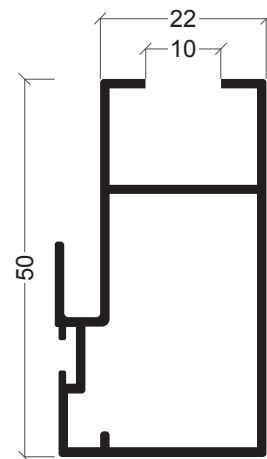
CM-54
Travessa



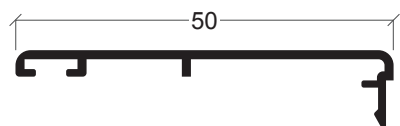
CM-56
Travessa



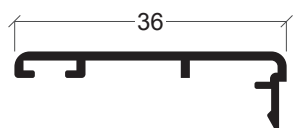
CM-09
Aro móvel central



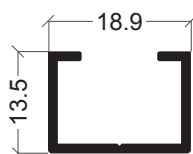
CM-17
Aro móvel central



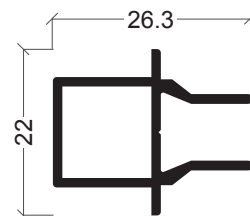
CM-25
Remate



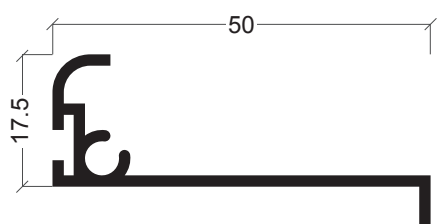
CM-24
Remate



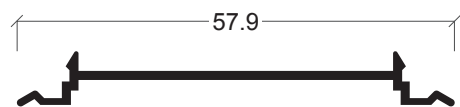
CM-83
Redutor



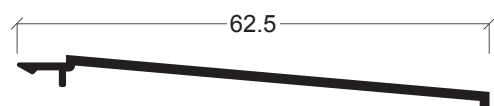
CM-28
União 3/4F



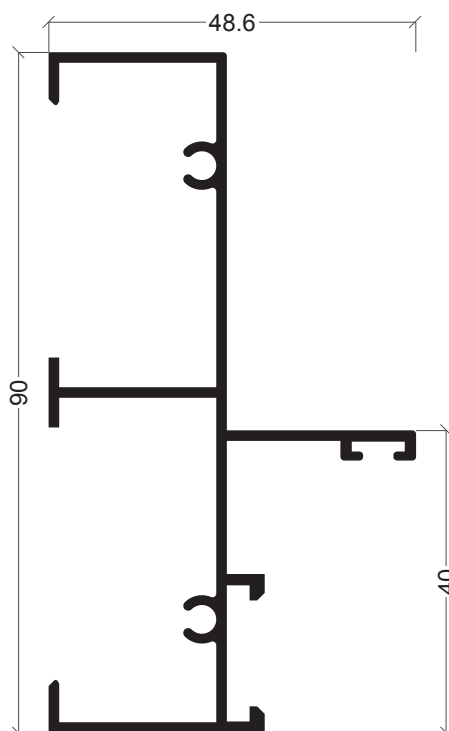
CM-34
Guia persiana



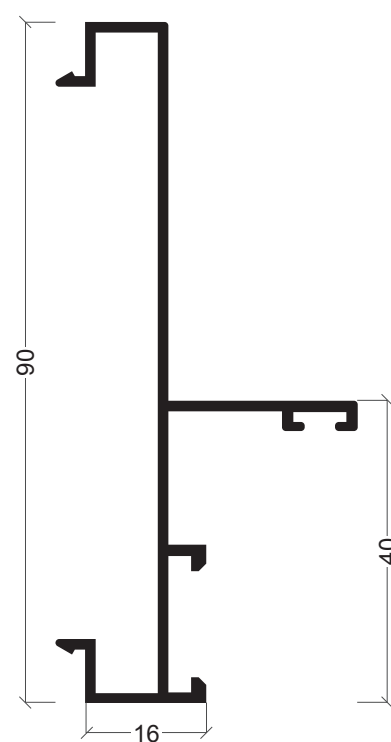
CM-23
Clip de pingadeira/remate



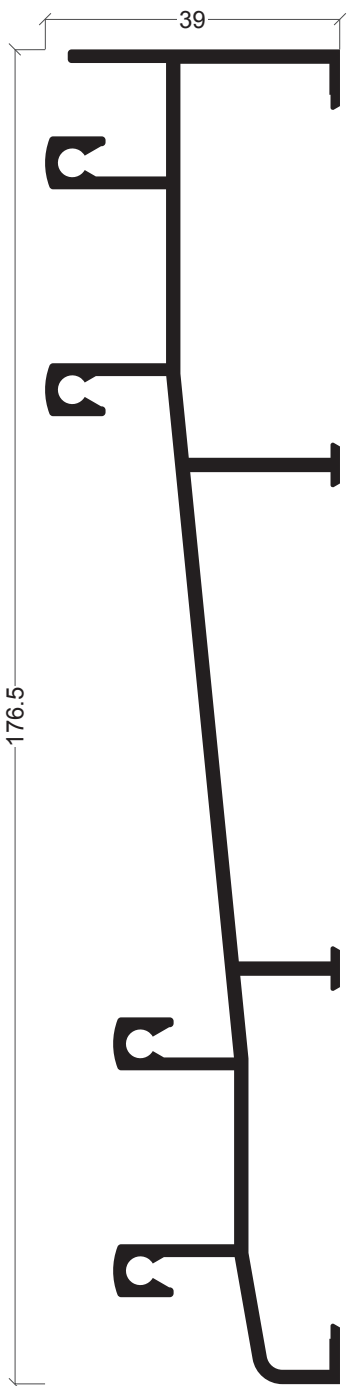
CM-21
Pingadeira



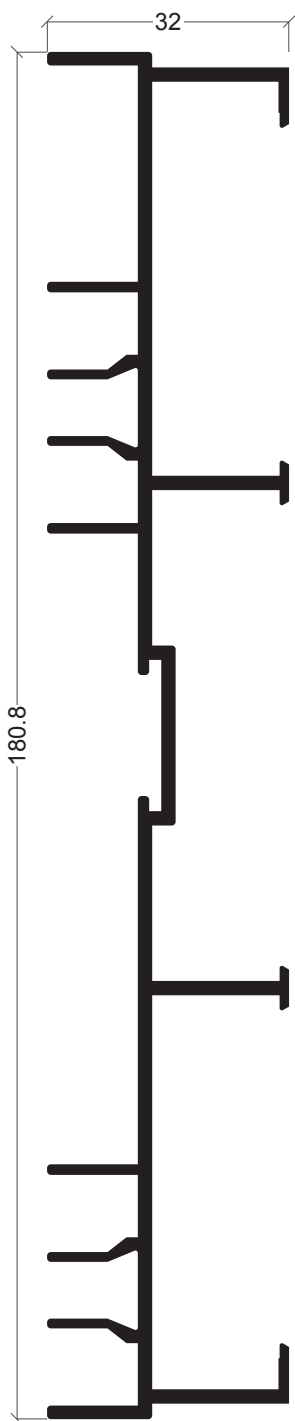
CM-58
Pingadeira



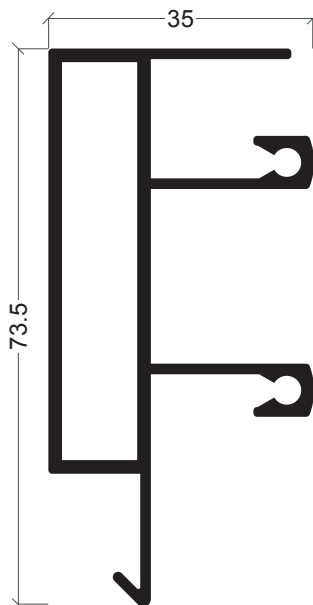
CM-48
Pingadeira



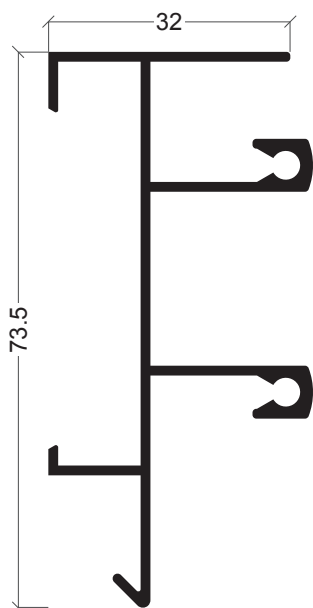
CM-61
Soleira janela dupla



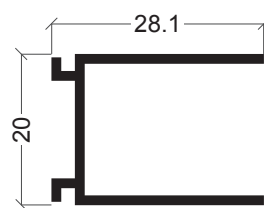
CM-66
Ombreira janela dupla



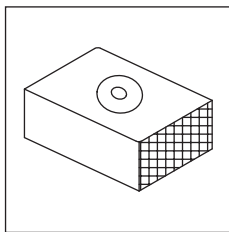
CM-82
Padieira janela dupla



CM-65
Padieira janela dupla

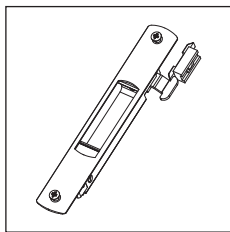


CM-64
Guia persiana janela dupla



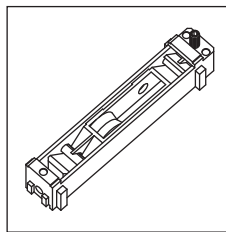
30 91 41 10

Taco anti-levantamento
preto



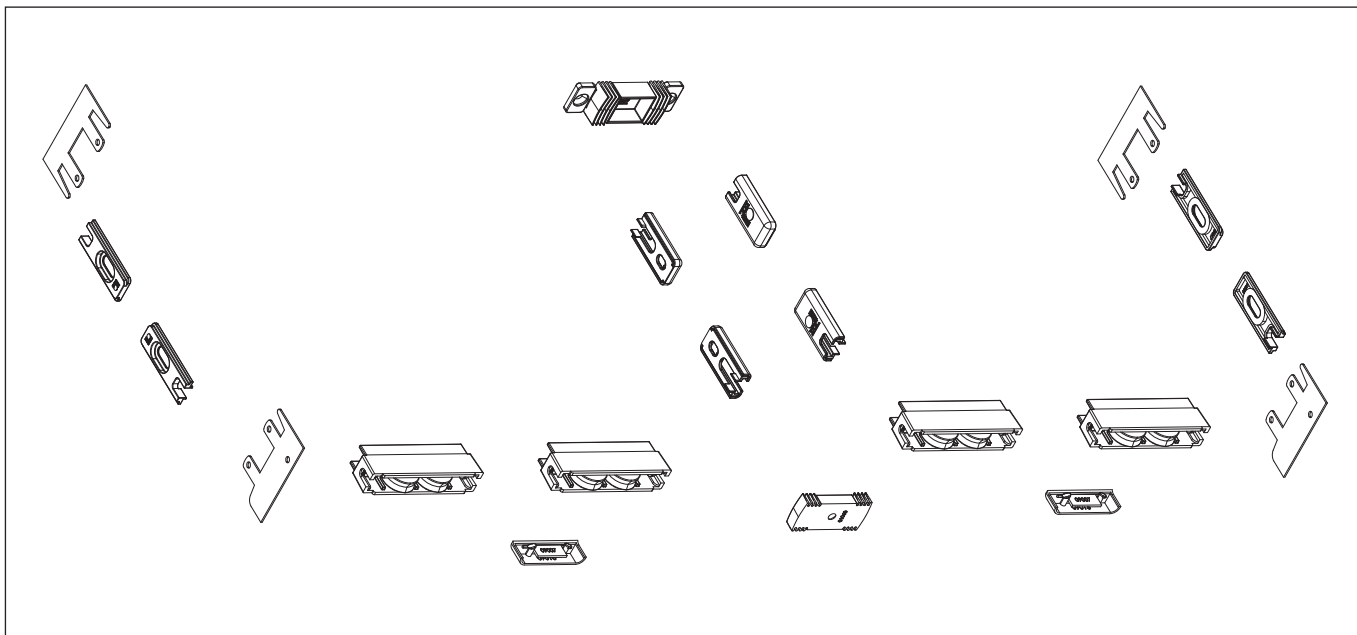
30 97 00 02/03

Fecho lateral branco/
preto



30 97 00 05

Rolamento

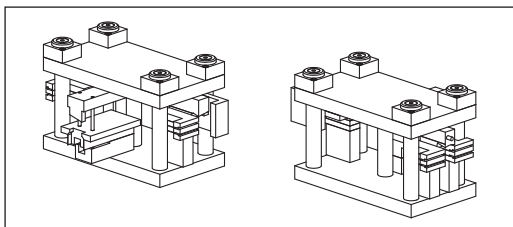


30 97 00 01

Kit correr CM 2 folhas

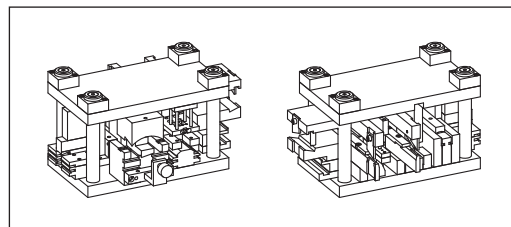
30 97 00 04

Kit correr CM 3 folhas



33 96 22 99

Cunho CM dupla

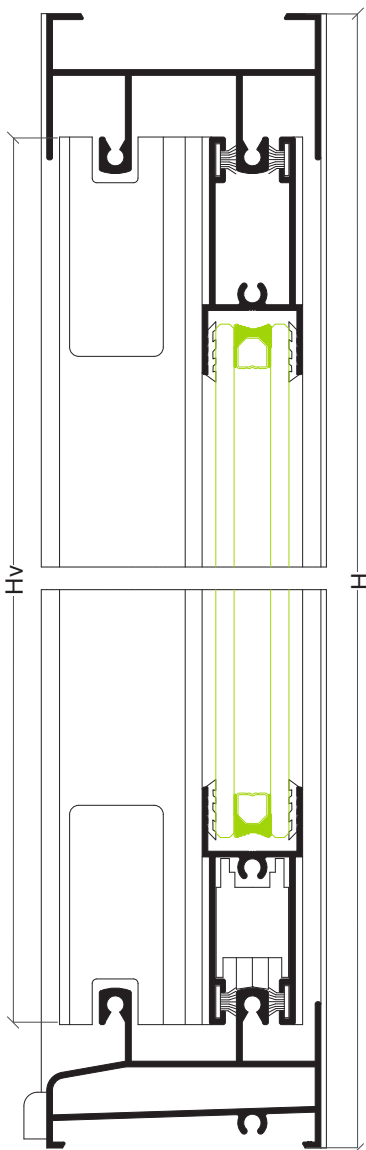
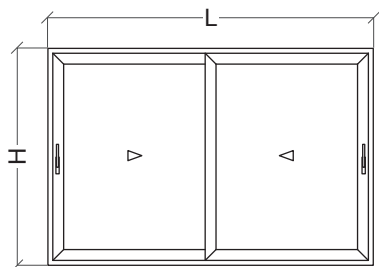


33 96 29 99

Cunho CM

Referência	Desenho	Descrição
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 95 00 40		Pelúcia 7x5.5 mm

Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CM-15	Padieira		1	L-40 mm
	CM-11	Soleira		1	L-40 mm
	CM-26	Ombreira		2	H
	CM-02	Móvel carrinho		4	L/2-14 mm
	CM-10	Móvel lateral		2	H-54 mm
	CM-09	Móvel central		2	H-54 mm

Acessórios e Juntas

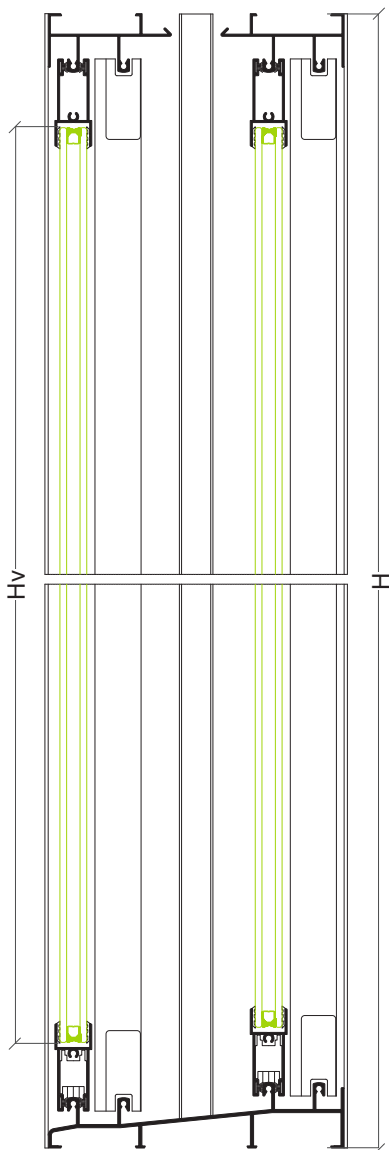
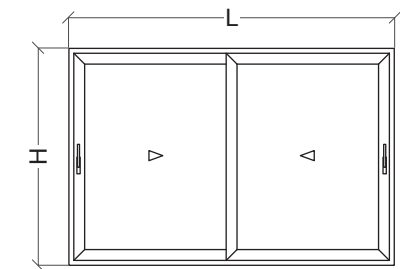
Referência	Descrição	Quantidade
30 97 00 01	Kit correr CM 2 folhas	1
30 97 00 02	Fecho lateral	2
30 91 41 10	Taco anti-levantamento	2
30 95 00 40	Pelúcia 7x5.5 mm	2L

Vidro

















Hv = H-134 mm	Lv = L/2-77 mm
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Janela 2 folhas dupla correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CM-65	Padieira		2	L-40 mm
	CM-61	Soleira		1	L-40 mm
	CM-66	Ombreira		2	H
	CM-02	Móvel carrinho		8	L/2-14 mm
	CM-10	Móvel lateral		2	H-58 mm
				2	H-49 mm
	CM-09	Móvel central		2	H-58 mm
				2	H-49 mm
	CM-64	Guia		2	H+10 mm

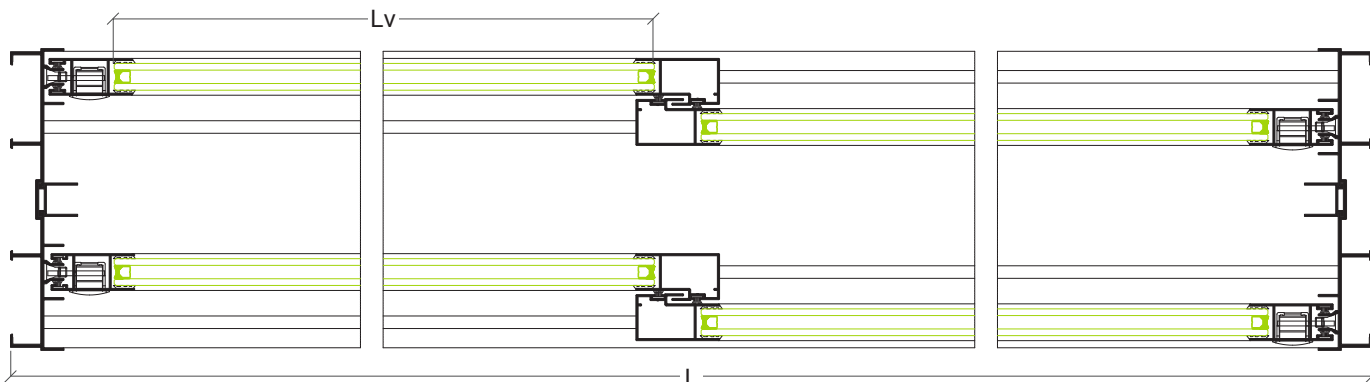
Acessórios e Juntas

Referência	Descrição	Quantidade
30 97 00 01	Kit correr CM 2 folhas	2
30 97 00 02	Fecho lateral	4
30 91 41 10	Taco anti-levantamento	4
30 95 00 40	Pelúcia 7x5.5 mm	4L+6H

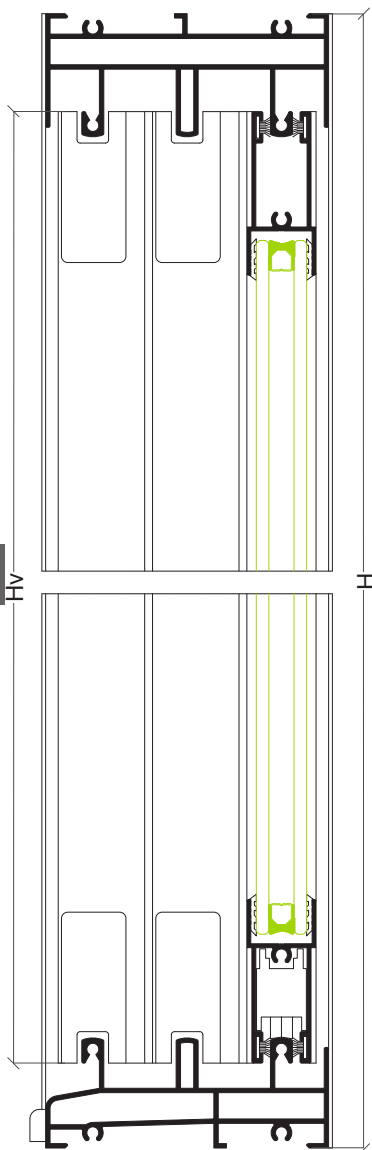
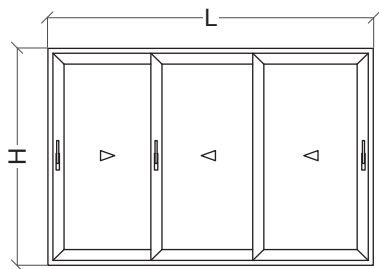
381

Vidro

Folha interior	Hv = H-140 mm	Lv = L/2-77 mm
Folha exterior	Hv = H-132 mm	Lv = L/2-77 mm



Janela 3 folhas correr tri-rail



Perfis

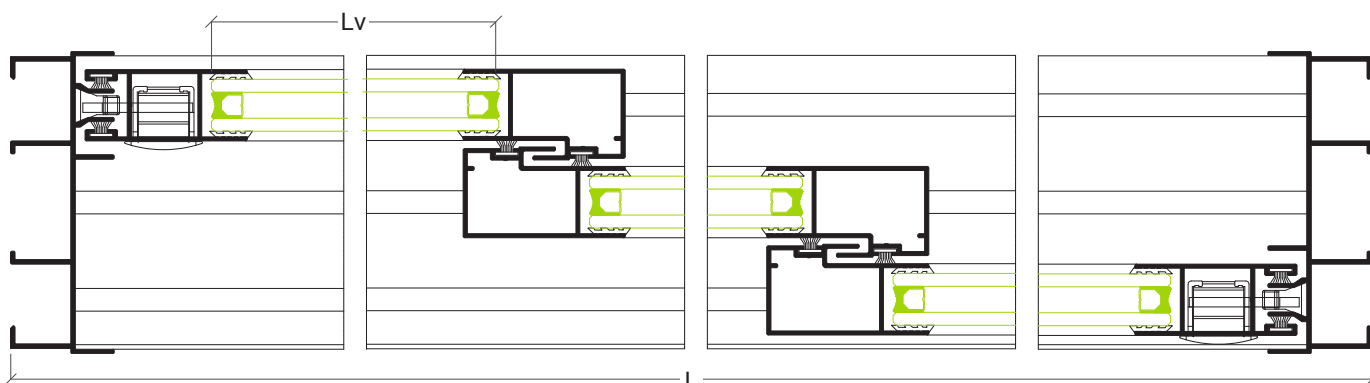
Desenho	Ref	Descrição	Corte	Quant	Medida
	CM-45	Padeieira tri-rail		1	L-40 mm
	CM-41	Soleira tri-rail		1	L-40 mm
	CM-46	Ombreira tri-rail		2	H
	CM-02	Móvel carrinho		4	L/3+2 mm
				2	L/3+15 mm
	CM-10	Móvel lateral		2	H-58 mm
	CM-09	Móvel central		4	H-58 mm

Acessórios e Juntas

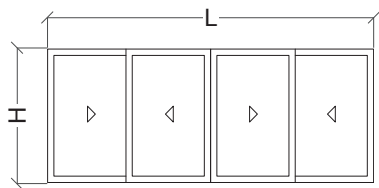
Referência	Descrição	Quantidade
30 97 00 04	Kit correr CM 3 folhas	1
30 97 00 02	Fecho lateral	2
30 91 41 10	Taco anti-levantamento	2
30 95 00 40	Pelúcia 7x5.5 mm	2L+8H

Vidro

Hv = H-138 mm	Lv = L/3-60 mm
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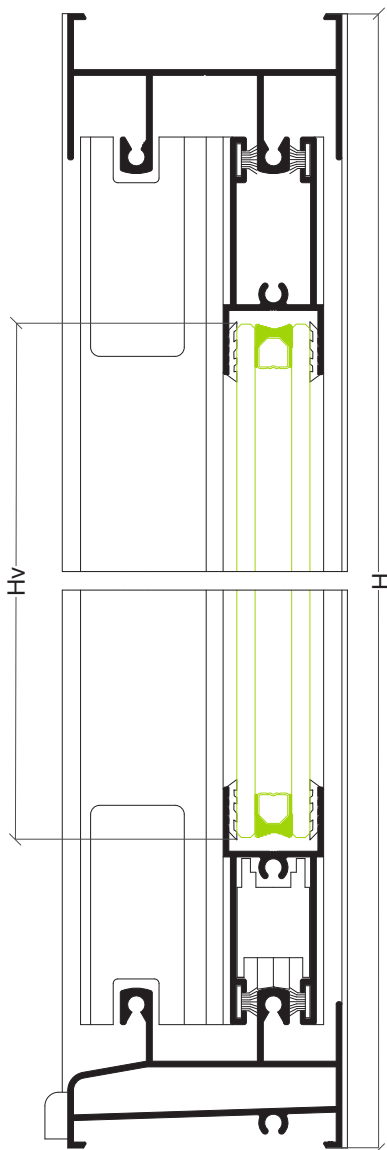


Janela 4 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CM-15	Padieira		1	L-40 mm
	CM-11	Soleira		1	L-40 mm
	CM-26	Ombreira		2	H
	CM-02	Móvel carrinho		8	L-4-3 mm
	CM-10	Móvel lateral		4	H-54 mm
	CM-09	Móvel central		4	H-54 mm
	CM-28	União 3/4F		1	H-54 mm



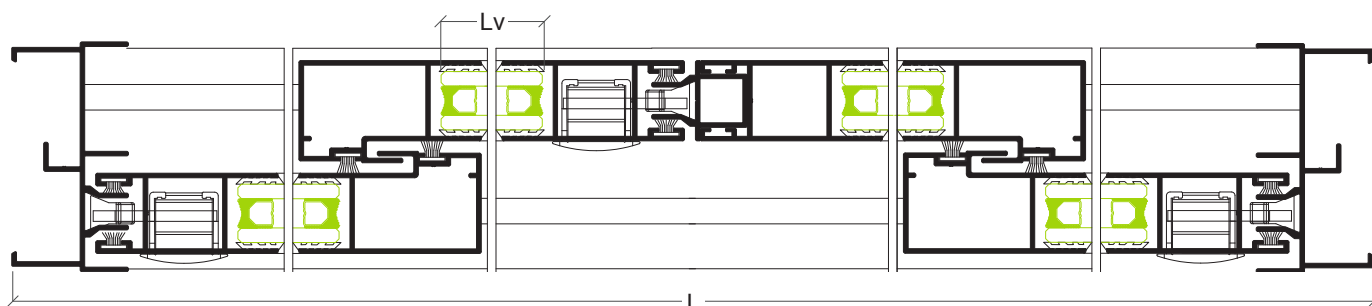
Acessórios e Juntas

Referência	Descrição	Quantidade
30 97 00 01	Kit correr CM 2 folhas	2
30 97 00 02	Fecho lateral	3
30 91 41 10	Taco anti-levantamento	3
30 95 00 40	Pelúcia 7x5.5 mm	4L+10H

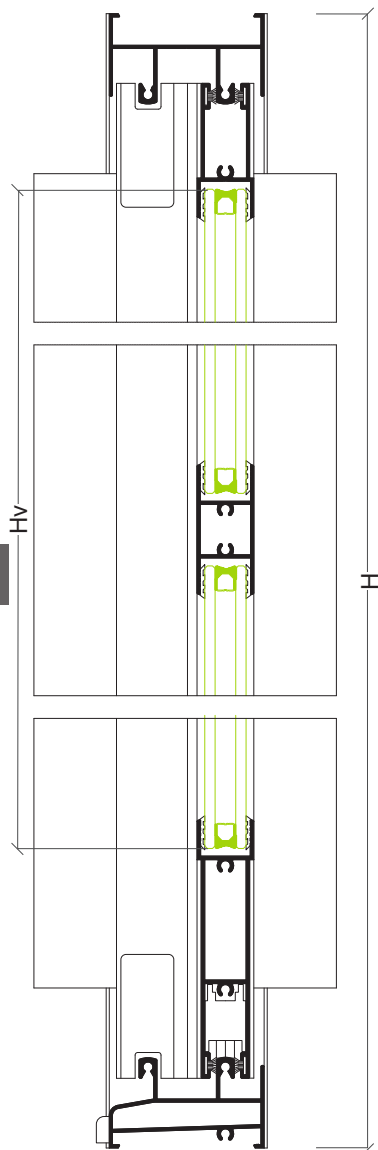
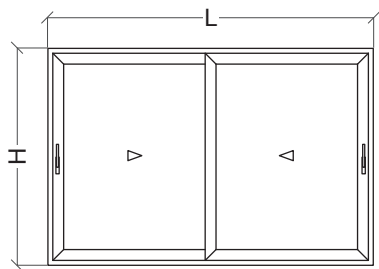
383

Vidro





















Hv = H-134 mm	Lv = L/4-66 mm
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Porta 2 folhas correr



Perfis

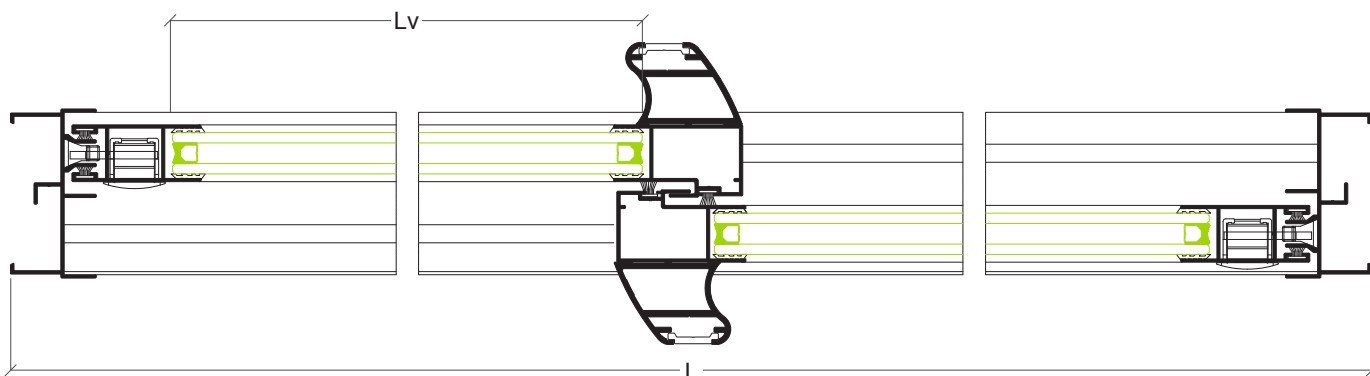
Desenho	Ref	Descrição	Corte	Quant	Medida
	CM-15	Padieira		1	L-40 mm
	CM-11	Soleira		1	L-40 mm
	CM-26	Ombreira		2	H
	CM-02	Móvel carrinho		2	L/2-16 mm
	CM-10	Móvel lateral		2	H-54 mm
	CM-09	Móvel central		2	H-54 mm
	CM-54	Travessa		2	L/2-70 mm
	CM-52	Almofada carrinho		2	L/2-16 mm
	CT-27	Reforço		2	H-124 mm
	AX-19	Vareta		2	H-124 mm

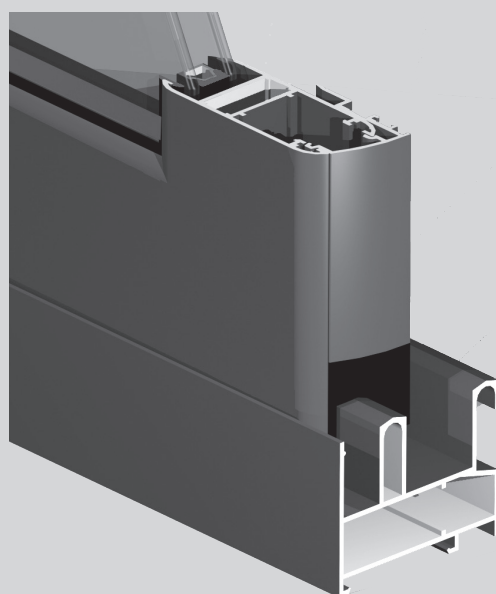
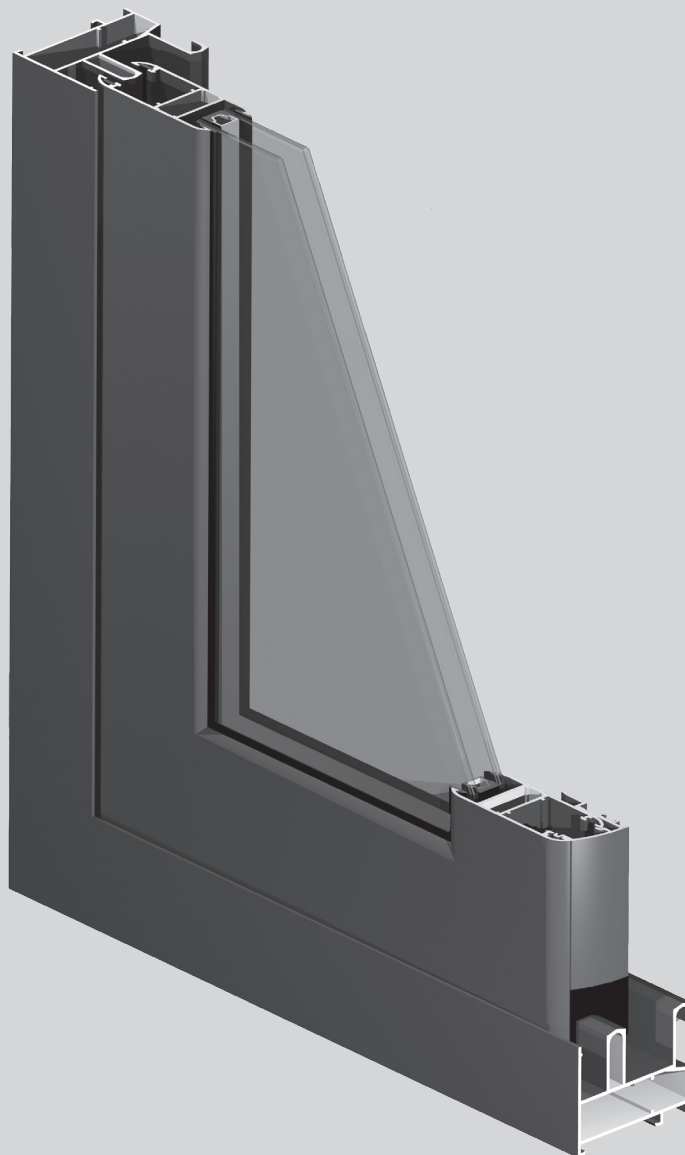
Acessórios e Juntas

Referência	Descrição	Quantidade
30 97 00 01	Kit correr CM 2 folhas	1
30 97 00 02	Fecho lateral	2
30 91 41 35	Jogo tampas CT-27	2
30 91 41 10	Taco anti-levantamento	2
30 95 00 40	Pelúcia 7x5.5 mm	4L+6H

Vidro

Hv = H1-131 mm	Lv = L/2-77 mm
Hv = H2-83 mm	Lv = L/2-77 mm





Sistema

CP

Sistema CP

Sistema de correr - 45 mm

Características do sistema

Sistemas de alumínio para execução de vãos de correr.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 1.5 mm.

Aros fixos

Secção do aro fixo perimetral de 2 guias de 40, 45 ou 60 mm para montagem a meia esquadria;

Secção do aro fixo perimetral de 3 guias de 80 mm para montagem a meia esquadria.

Aros móveis

Secção dos aros móveis perimetrais de 26 ou 27.5 mm para montagem a meia esquadria;

Enchimento de 4 mm a 18 mm;

Aros móveis de linha recta ou curva;

Estanquidade assegurada através de pelúcia tipo Fin-Seal.

Dimensionamento e manobralidade

Peso máximo de 100 kg por folha (com 2 rolamentos duplos);

Possibilidades de abertura: 2, 3, 4 e 6 folhas, com folhas móveis e/ou fixas;

Sistema compatível com os sistemas de batente AZ e AX.

Performances

Sistema certificado por laboratório notificado do ensaio tipo inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CP tipologia janela:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C3 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema CP tipologia porta:

1. Permeabilidade ao ar: Classe 4 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 7A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C1 (norma de ensaio EN 12211)

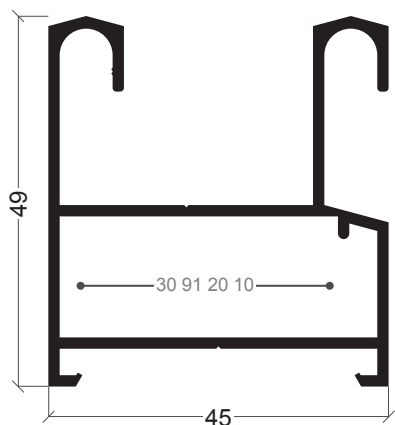
Coefficiente de transmissão térmica de vão de 2 folhas com 1.20 m x 2.20 m com vidro $U_g = 1.8 \text{ W/m}^2\text{K}$:

• $U_w = 3.34 \text{ W/m}^2\text{K}$

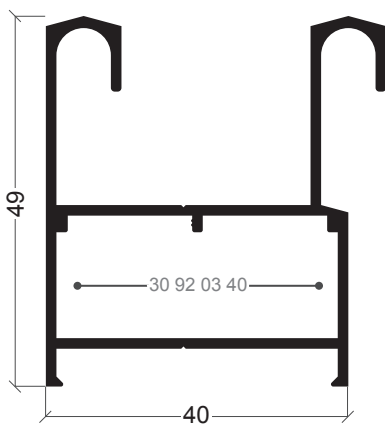
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/10/4:

• $R_w (C; C_{tr}) = 28 \text{ dB} (-1; -1)$

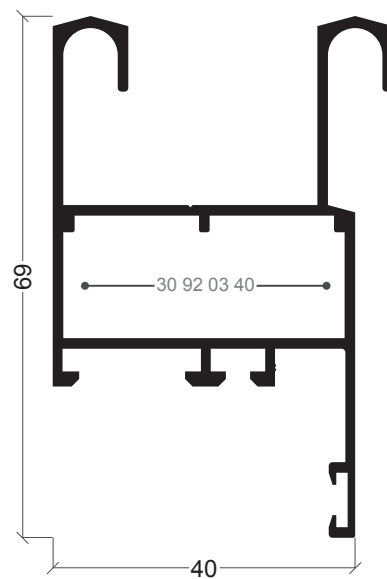
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



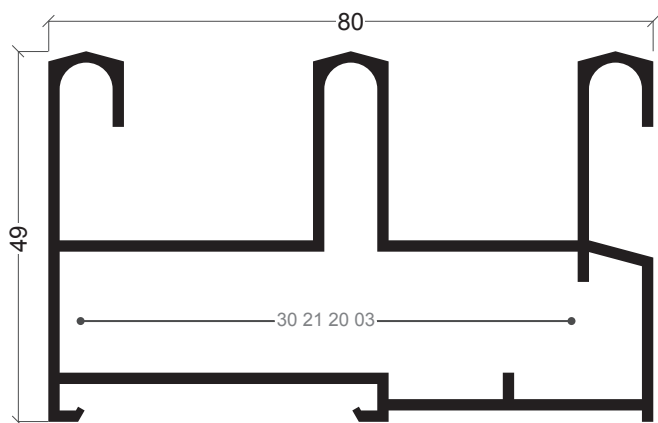
CP-01
Aro fixo



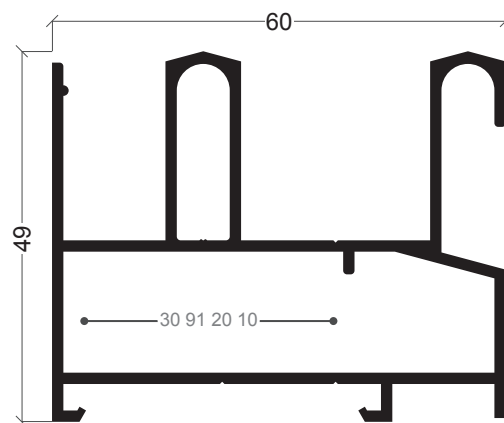
CP-17
Aro fixo



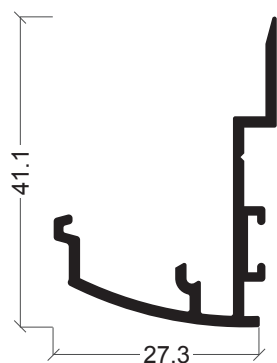
CP-18
Aro fixo



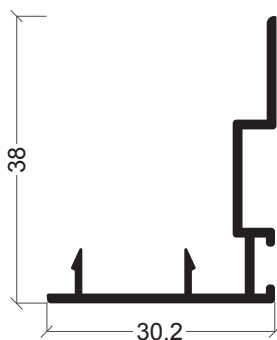
CP-05
Aro fixo



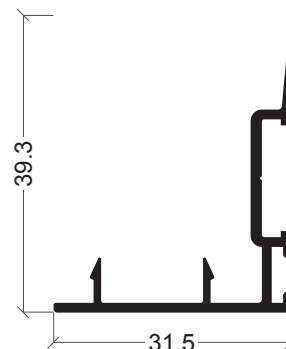
CP-10
Aro fixo



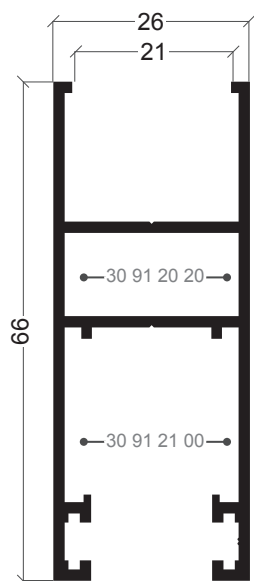
CP-12
Tampa cruzamento CP-11/20



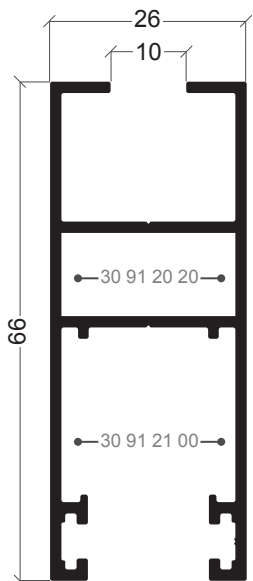
CP-15
Tampa cruzamento CP-13



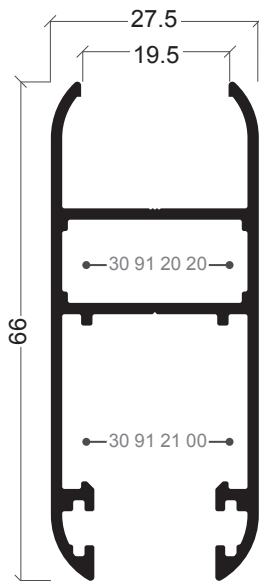
CP-03
Tampa cruzamento CP-02/04/07



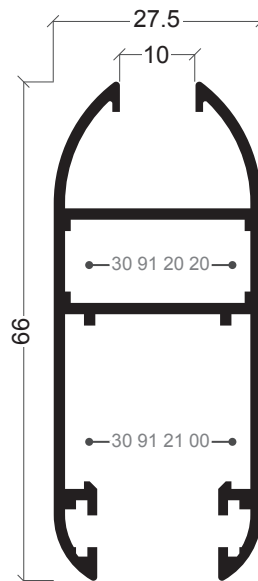
CP-02
Aro móvel



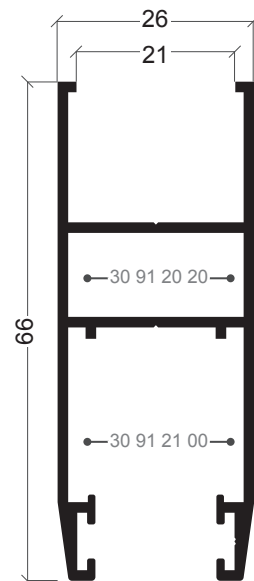
CP-04
Aro móvel



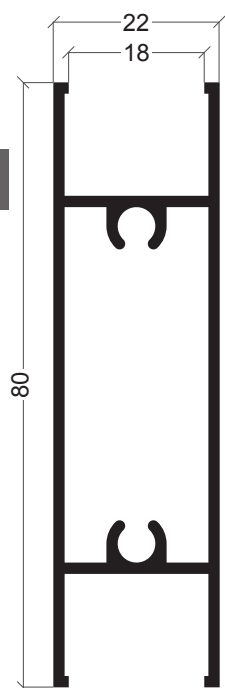
CP-11
Aro móvel



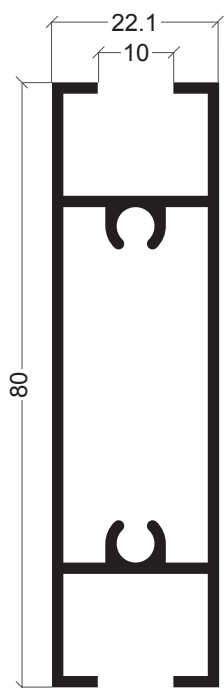
CP-20
Aro móvel



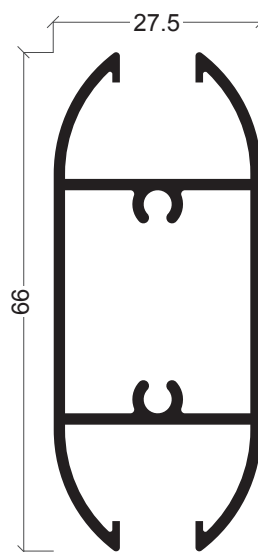
CP-13
Aro móvel



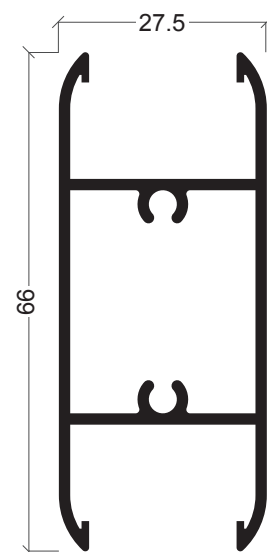
CP-08
Travessa



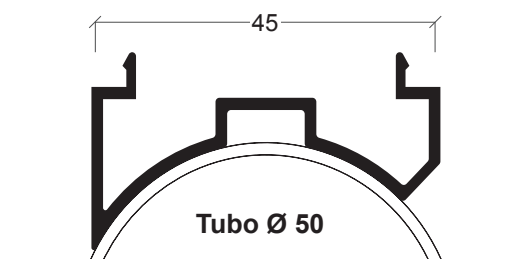
CP-09
Travessa



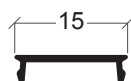
CP-22
Travessa



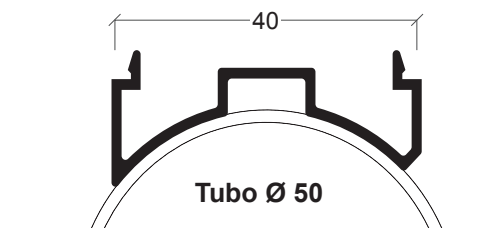
CP-23
Travessa



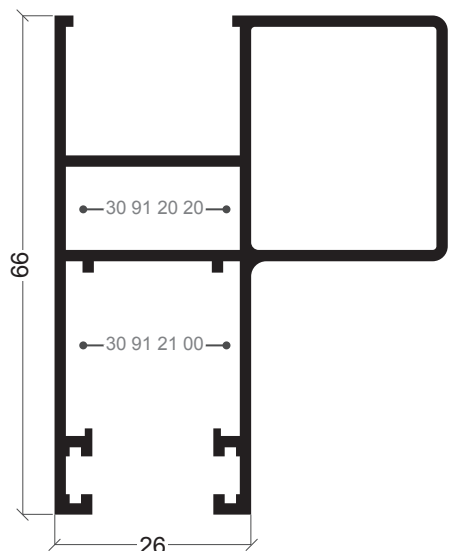
CP-16
Comp. p/ ângulo



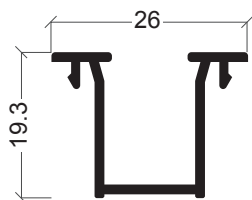
KL-04
Tampa



CP-19
Comp. p/ ângulo



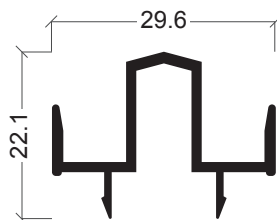
CP-07
Aro móvel com reforço



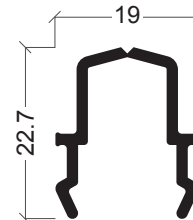
CP-14
Redutor vidro simples



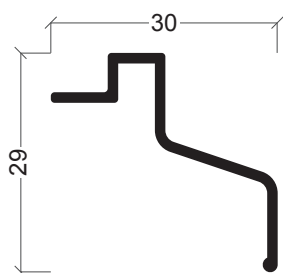
AX-19
Vareta



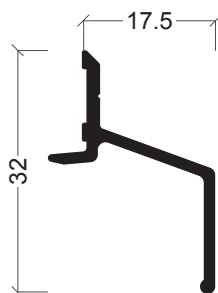
CP-06
União 3/4 F



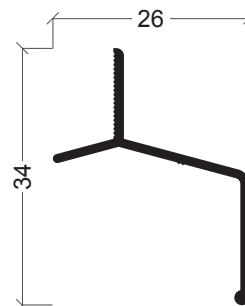
CP-21
União 3/4 F



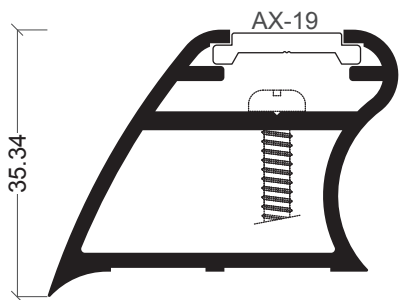
AXi-45
Pingadeira superior



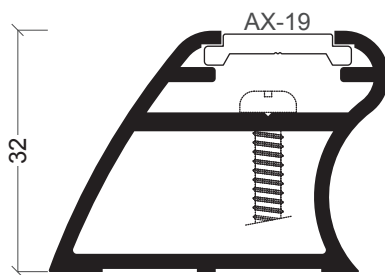
CT-29
Pingadeira superior



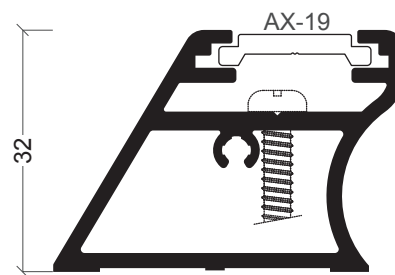
CT-07
Pingadeira superior



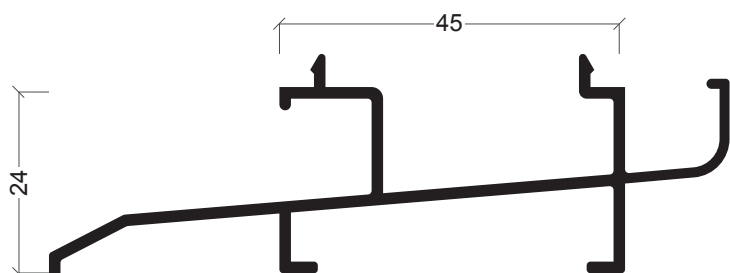
CT-03
Reforço



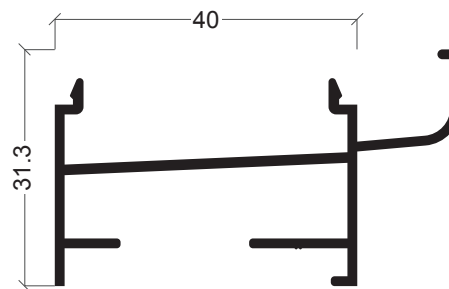
CT-27
Reforço



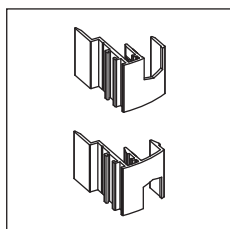
CT-28
Reforço



AX-17
Soleira condensação

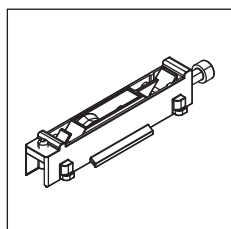


AZ-19
Soleira condensação



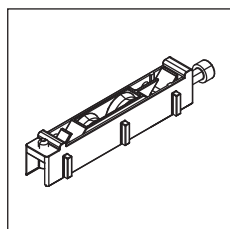
30 20 20 02

Jogo tampas centrais
CP-12



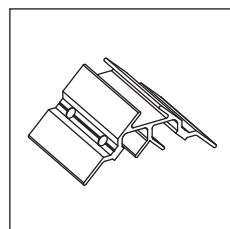
30 20 20 03

Rolamentos simples
(25 kg)



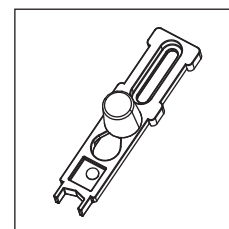
30 20 20 05

Rolamentos duplos
(25 kg)



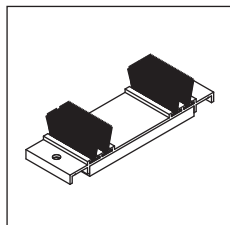
30 21 20 03

Esquadro CP-05



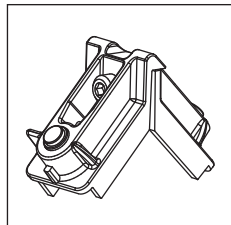
30 21 20 04

Guia lateral batente



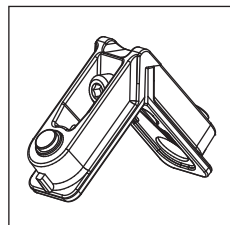
30 21 20 05

Corta-ventos CP-05/10



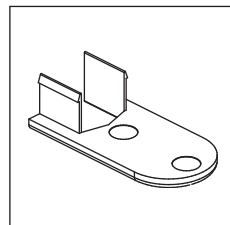
30 91 20 10

Esquadro CP-01/10



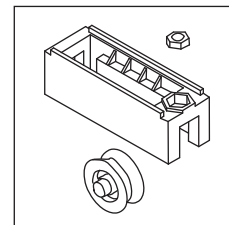
30 91 20 20

Esquadro aro móvel



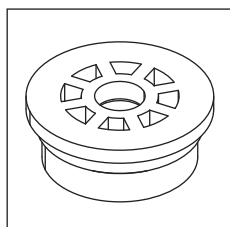
30 91 20 40

Tampa guia lateral



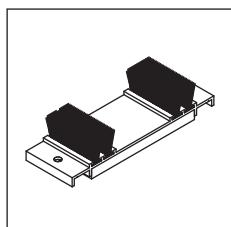
30 91 20 50

Rolamentos (20 kg)



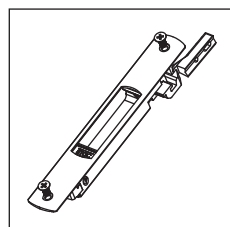
30 91 20 60

Canal



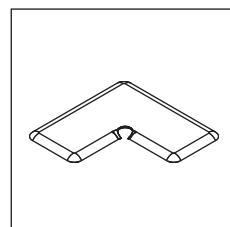
30 91 20 70

Corta-ventos
CP-01/05/17/18



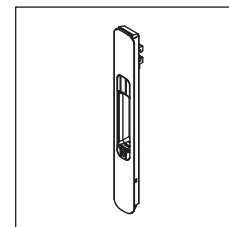
30 91 20 80/81

Fecho lateral branco/
preto



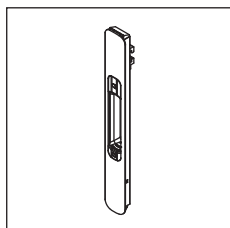
30 91 21 00

Esquadro alinhamento
móvel



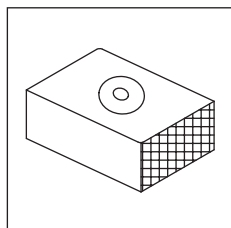
30 91 40 39/40/41

Fecho lateral manual
natural/branco/preto



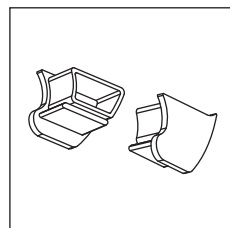
30 91 40 42/43

Fecho lateral automatico
branco/preto



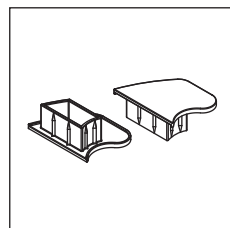
30 91 41 10

Taco anti-levantamento
preto



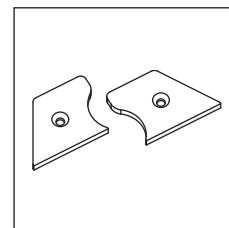
30 91 41 35

Jogo tampas CT-03



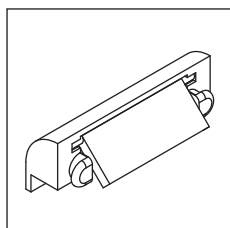
30 91 41 63/64

Jogo topos CT-27
branco/preto



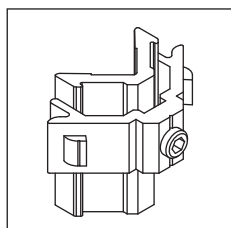
30 91 41 65/66

Jogo topos CT-28
branco/preto



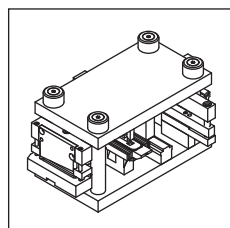
30 92 01 02/03

Goteiras branco/preto



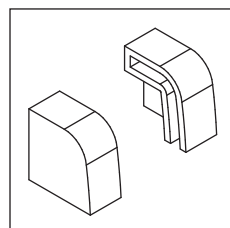
30 92 03 40

Esquadro janela
CP-17/18



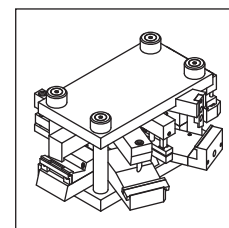
33 92 99 99

Cunho CP



30 96 00 12

Jogo topos condensação

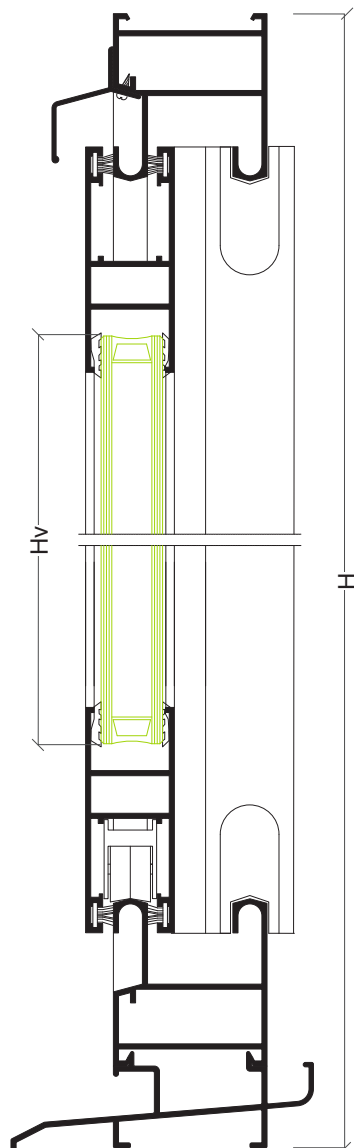
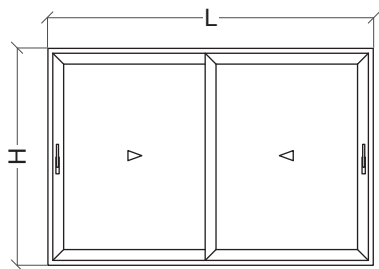


33 96 79 99















Cunho CE para
CP-17/18

Referência	Desenho	Descrição
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 95 00 30		Pelúcia 7x7 mm

Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CP-01	Aro fixo		2	L
				2	H-24 mm
	CP-02	Aro móvel		4	L/2-6 mm
				4	H-103 mm
	CP-03	Tampa de cruzamento CP-02		1	H-103 mm
	CT-07	Pingadeira		1	L
	AX-17	Soleira de condensação		1	L
	KL-04	Tampa		2	H-103 mm

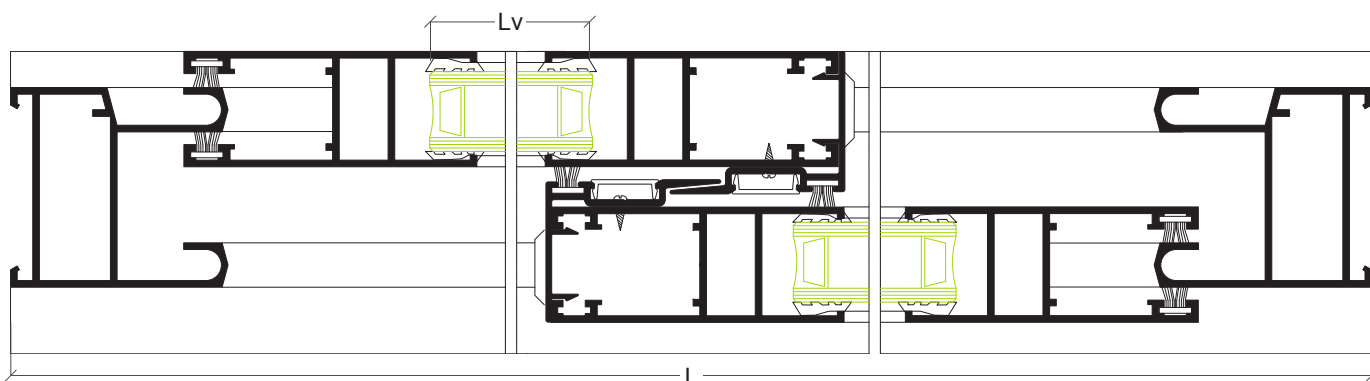
Acessórios e Juntas

Referência	Descrição	Quantidade
30 21 20 04	Guia lateral batente	4
30 91 20 10	Esquadro CP-01	4
30 91 20 20	Esquadro aro móvel	8
30 91 20 40	Tampa guia lateral	4
30 91 20 50	Rolamentos	4
30 91 20 60	Canal	2
30 91 20 70	Corta ventos superior/inferior	2
30 91 20 80	Fecho lateral	2
30 91 21 00	Esquadros alinhamento	16
30 96 00 12	Jogo topos condensação	1
30 92 01 02	Goteira com válvula	2
30 91 41 10	Taco anti-levantamento	2
30 95 00 30	Pelúcia 7x7 mm	4L/6H
-----	Junta para vidro	4L/8H

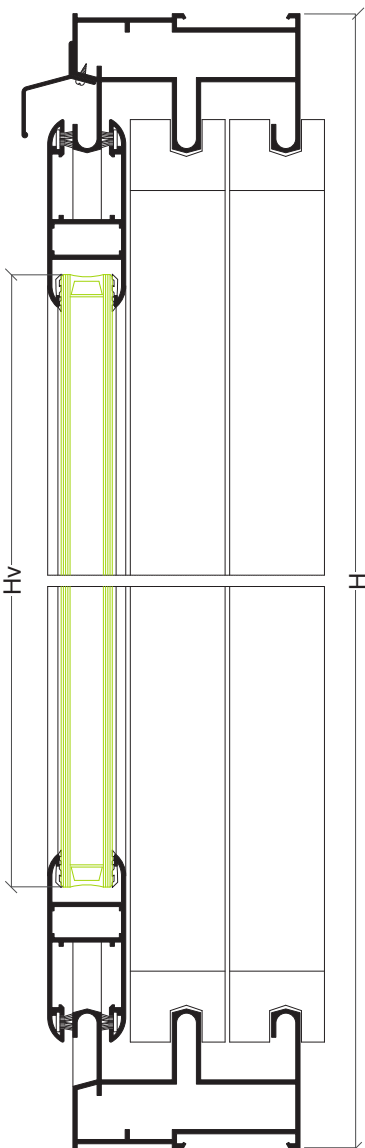
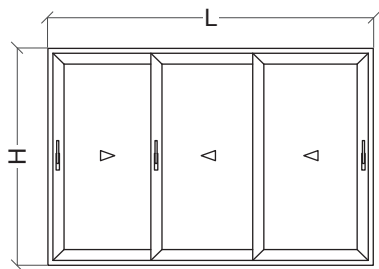
391

Vidro

Hv = H-208 mm	Lv = L/2-111 mm
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Janela 3 folhas correr tri-rail



Perfis

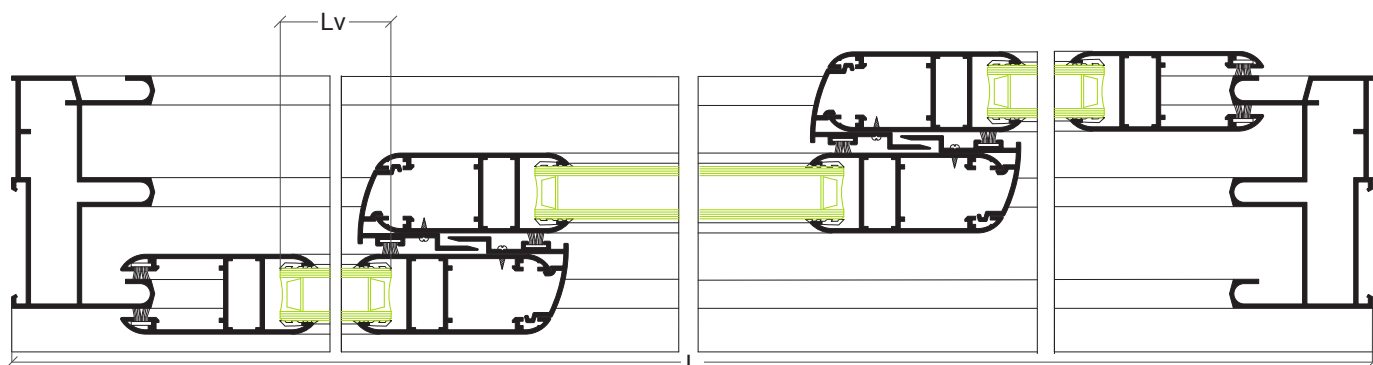
Desenho	Ref	Descrição	Corte	Quant	Medida
	CP-05	Aro fixo		2	L
				2	H
	CP-11	Aro móvel		6	L/3+15 mm
				6	H-75 mm
	CP-12	Tampa de cruzamento CP-11		4	H-125 mm
	CT-07	Pingadeira		1	L

Acessórios e Juntas

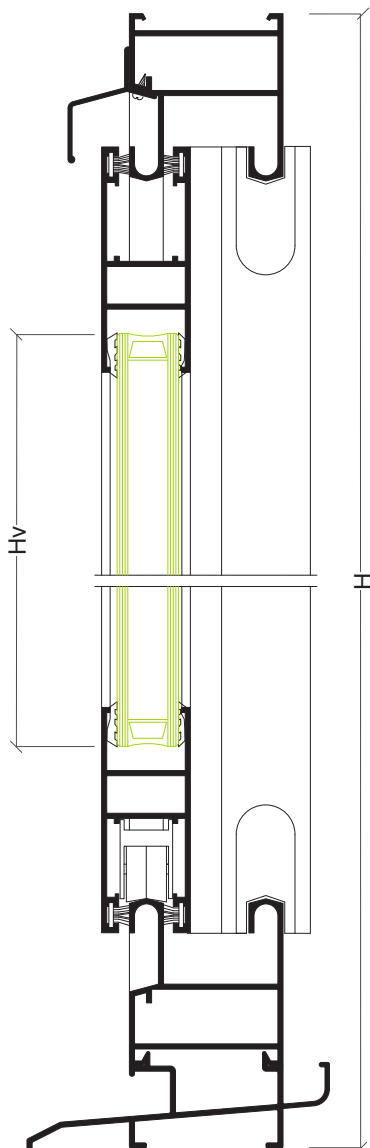
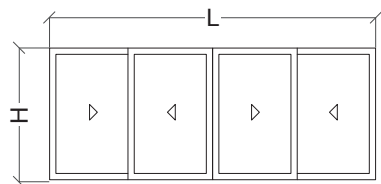
Referência	Descrição	Quantidade
30 20 20 02	Jogo tampas centrais	4
30 21 20 03	Esquadro aro fixo	4
30 21 20 04	Guia lateral batente	4
30 21 20 05	Corta-ventos superior/inferior	2
30 91 20 20	Esquadro aro móvel	12
30 91 20 50	Rolamentos	6
30 91 20 60	Canal	4
30 91 20 70	Corta-ventos superior/inferior	2
30 91 20 80	Fecho lateral	2
30 91 21 00	Esquadros alinhamento	24
30 92 01 02	Goteira com válvula	3
30 91 41 10	Taco anti-levantamento	2
30 95 00 30	Pelúcia 7x7 mm	4L/6H
----	Junta para vidro	4L/12H

Vidro













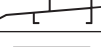



Hv = H-184 mm	Lv = L/3-94 mm
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Janela 4 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CP-01	Aro fixo		2	L
				2	H-24 mm
	CP-02	Aro móvel		8	L/4+11.5 mm
				8	H-103 mm
	CP-03	Tampa de cruzamento CP-02		4	H-103 mm
	CT-07	Pingadeira		1	L
	CP-06	União 4 folhas		1	H-103 mm
	AX-17	Soleira de condensação		1	L
	KL-04	Tampa		4	H-103 mm

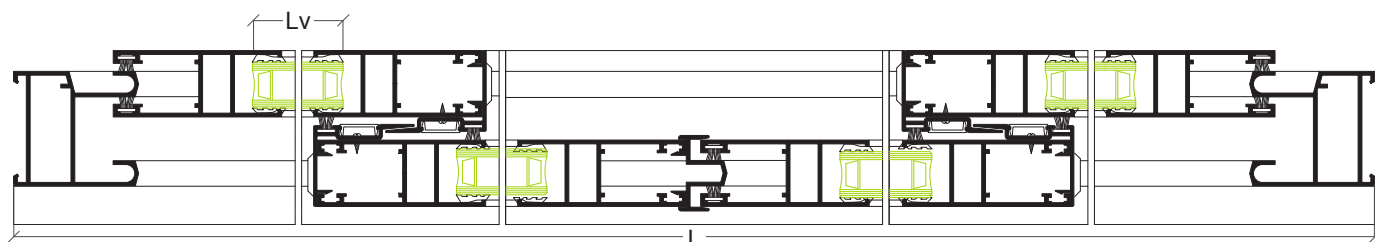
Acessórios e Juntas

Referência	Descrição	Quantidade
30 21 20 04	Guia lateral batente	6
30 91 20 10	Esquadro aro fixo	4
30 91 20 20	Esquadro aro móvel	16
30 91 20 40	Tampa lateral	8
30 91 20 50	Rolamentos	8
30 91 20 60	Canal	4
30 91 20 70	Corta ventos superior/inferior	6
30 91 20 80	Fecho lateral	3
30 91 21 00	Esquadro alinhamento	32
30 91 00 12	Jogo topos condensação	1
30 92 01 02	Goteira com válvula	4
30 91 41 10	Taco anti-levantamento	2
30 95 00 30	Pelúcia 7x7 mm	4L/10H
-----	Junta para vidro	4L/16H

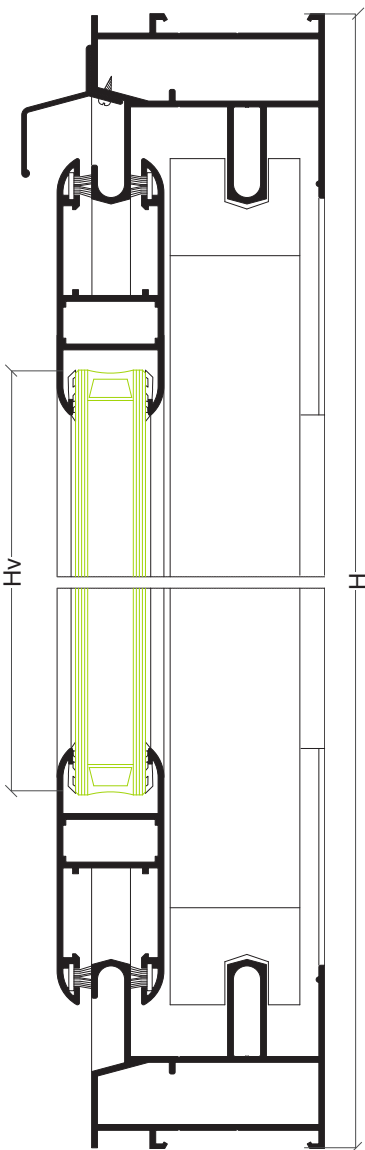
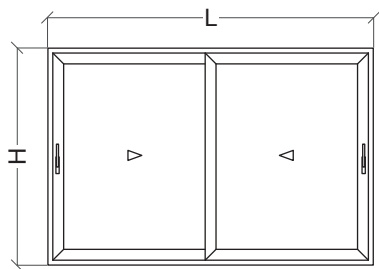
393

Vidro

Hv = H-208 mm	Lv = L/4-94 mm
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Porta 2 folhas correr



Perfis

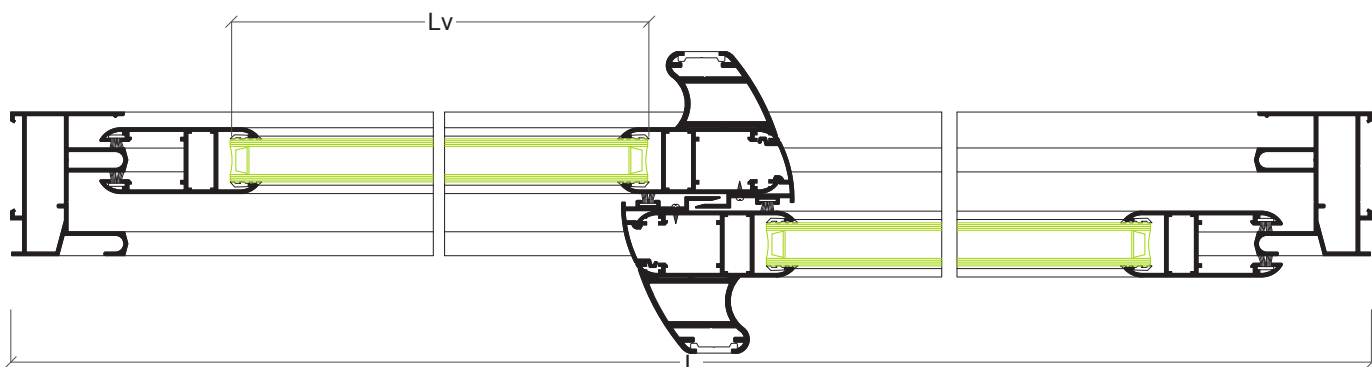
Desenho	Ref	Descrição	Corte	Quant	Medida
	CP-10	Aro fixo		2	L
				2	H
	CP-11	Aro móvel		4	L/2-7 mm
				4	H-75 mm
	CP-12	Tampa de cruzamento CP-11		2	H-125 mm
	CT-07	Pingadeira		1	L
	AX-19	Vareta		2	H-206 mm
	CT-03	Reforço		2	H-206 mm

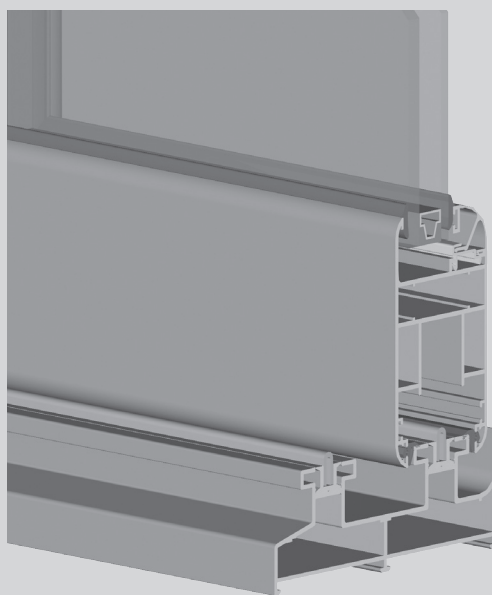
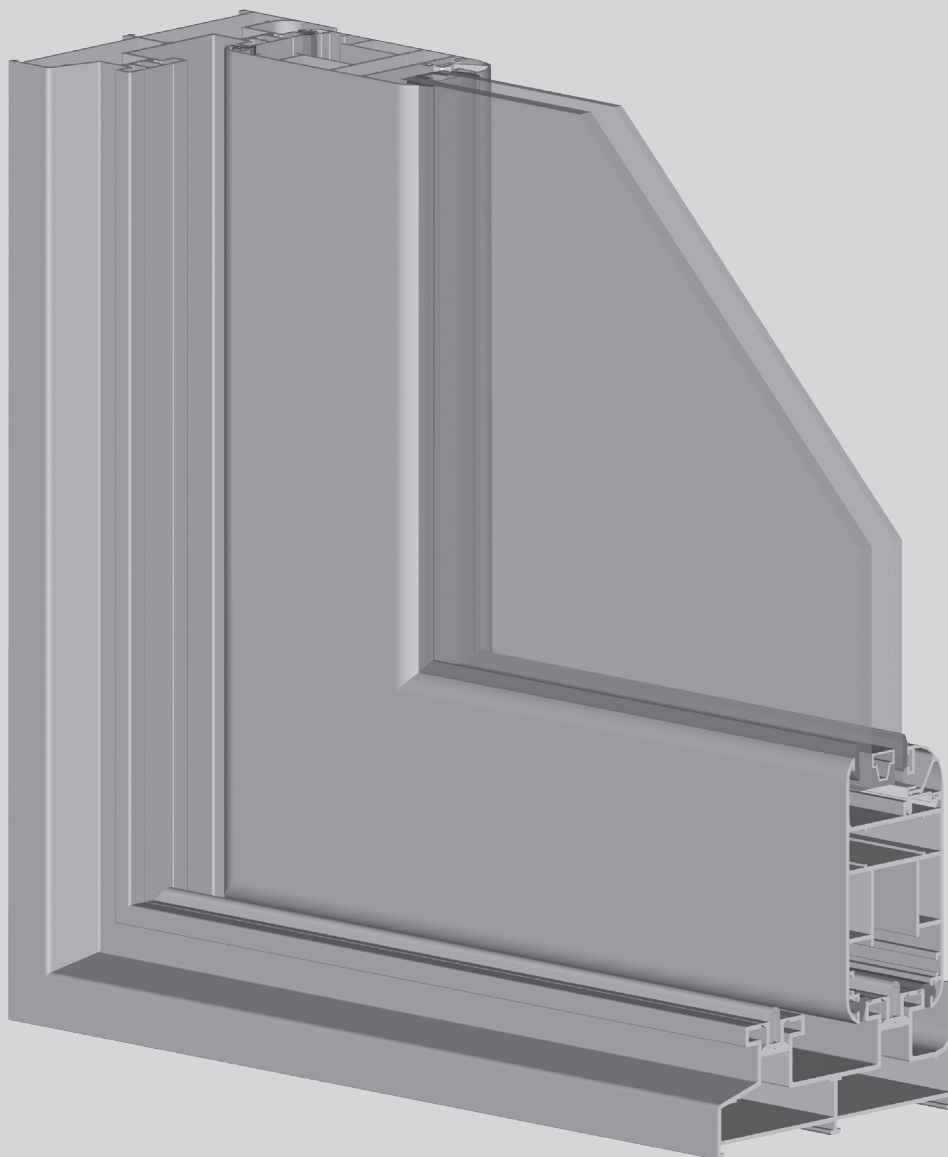
Acessórios e Juntas

Referência	Descrição	Quantidade
30 20 20 02	Jogo tampas centrais	2
30 20 20 04	Rolamentos duplos	4
30 21 20 04	Guia lateral batente	4
30 21 20 05	Corta-ventos superior/inferior	2
30 91 20 10	Esquadro aro fixo	4
30 91 20 20	Esquadro aro móvel	8
30 91 41 35	Jogo tampas CT-03	2
30 91 20 60	Canal	2
30 91 21 80	Fecho lateral	2
30 91 21 00	Esquadro alinhamento	16
30 92 01 02	Goteira com válvula	2
30 91 41 10	Taco anti-levantamento	2
30 95 00 30	Pelúcia 7x7 mm	4L/6H
-----	Junta para vidro	4L/16H

Vidro

Hv = H-184 mm	Lv = L/2-116 mm
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Sistema

CK

Sistema CK

Sistema de correr - 120 mm

Características do sistema

Sistema de alumínio para execução de vãos de correr ou correr/eleváveis.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 1.7 mm.

Aros fixos

Secção do aro fixo perimetral de 2 guias de 122 mm para montagem a meia esquadria;

Secção do aro fixo perimetral de 3 guias (Tri-Rail) de 184 mm para montagem a meia esquadria;

Perfil guia de deslizamento inferior em aço inoxidável 304 para evitar desgaste das peças.

Aros móveis

Secção dos aro móvel perimetral de 50.6 mm com montagem a meia esquadria;

Enchimento de 4 mm a 38 mm;

Bites rectos ou curvos;

Estanquidade assegurada através de juntas em EPDM e pelúcia tipo Fin-Seal.

Dimensionamento e manobralidade

Dimensões mínimas - máximas de folha: 720 mm – 3350 mm (L); 1190 mm - 2690 mm (H), com possibilidade de, aplicando prolongador, altura máxima = 3325 mm;

Peso máximo de 250 kg por folha com rolamentos duplos reguláveis;

Peso máximo de 300 kg por folha com ferragem elevável base com opção de 400kg por folha com kit suplementar;

Possibilidades de abertura: 2, 3, 4 ou 6 folhas, com folhas móveis e/ou fixas;

Sistema de correr-elevável com funcionamento baseado numa ferragem aplicada em conjunto com as folhas e que permite a elevação destas aquando da sua fácil abertura mesmo com configurações extremas de peso ou de dimensões;

Quando fechada, a folha comprime as juntas de EPDM permitindo uma estanquidade perimetral perfeita;

Ferragem base com 2 pontos de fecho e com possibilidade de acrescentar mais 1 ou 2 pontos suplementares;

Ferragem base com micro-ventilação;

Ferragem constituída com carrinhos de 4 rodas em PVC reforçadas com fibra de vidro e rolamentos de agulha de alta prestação;

Puxador específico para facilitar as manobras de abertura e fecho do vão;

Existe opção com puxador duplo, com colocação de canhão com chave, para permitir abertura pelo exterior.

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Performances

Sistema certificado por laboratório notificado do ensaio tipo inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CK:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 6A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)

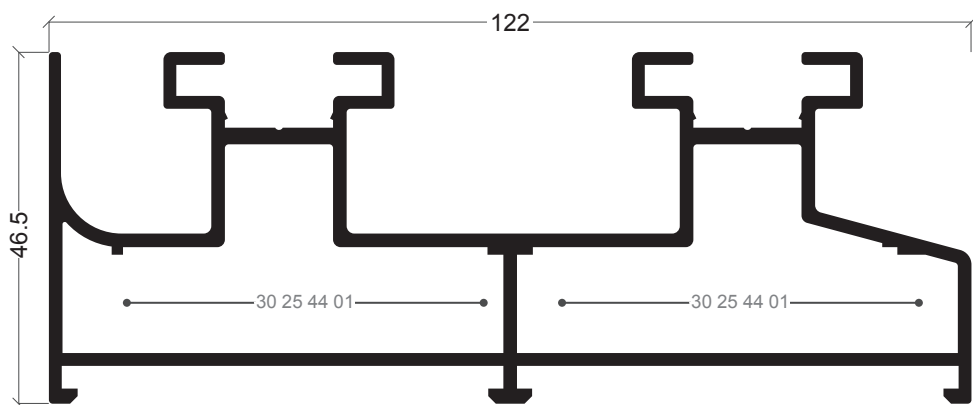
Coeficiente de transmissão térmica de vão de 2 folhas com 5.0 m x 2.50 m com vidro $U_g = 0.7 \text{ W/m}^2\text{K}$ com intercalar efeito "Warm Edge":

• $U_w = 1.90 \text{ W/m}^2\text{K}$

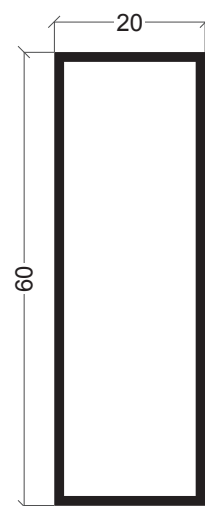
Coeficiente de atenuação acústica de vão de 2 folhas com vidro 6/16/44.1 acústico:

• $R_w (C; C_{tr}) = 41 \text{ dB} (-1; -5)$

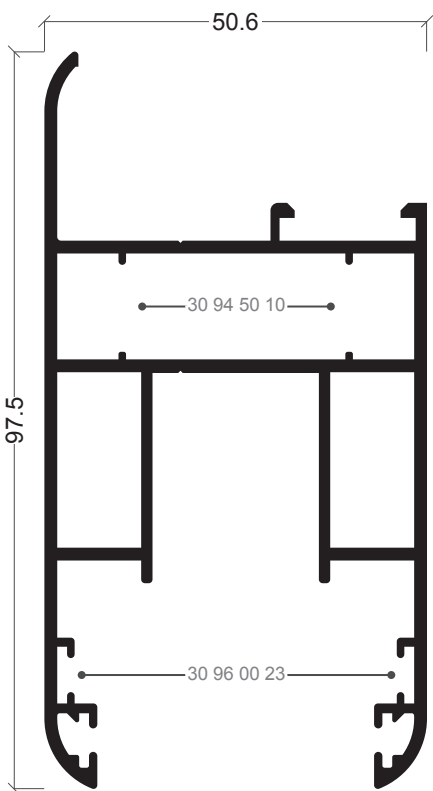
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



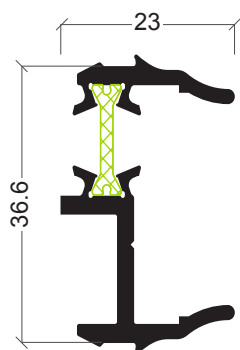
CK-01
Aro fixo perimetral



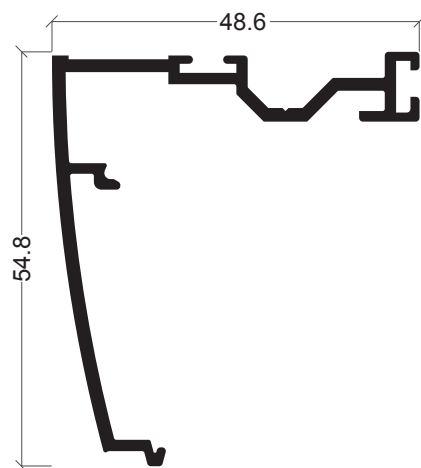
P-08
Tubo 60x20



CK-02
Aro móvel perimetral



CTe-09
União 3/4 Folhas



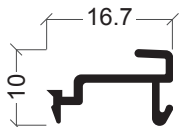
CK-06
Tampa cruzamento aro móvel



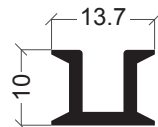
KL-04
Tampa



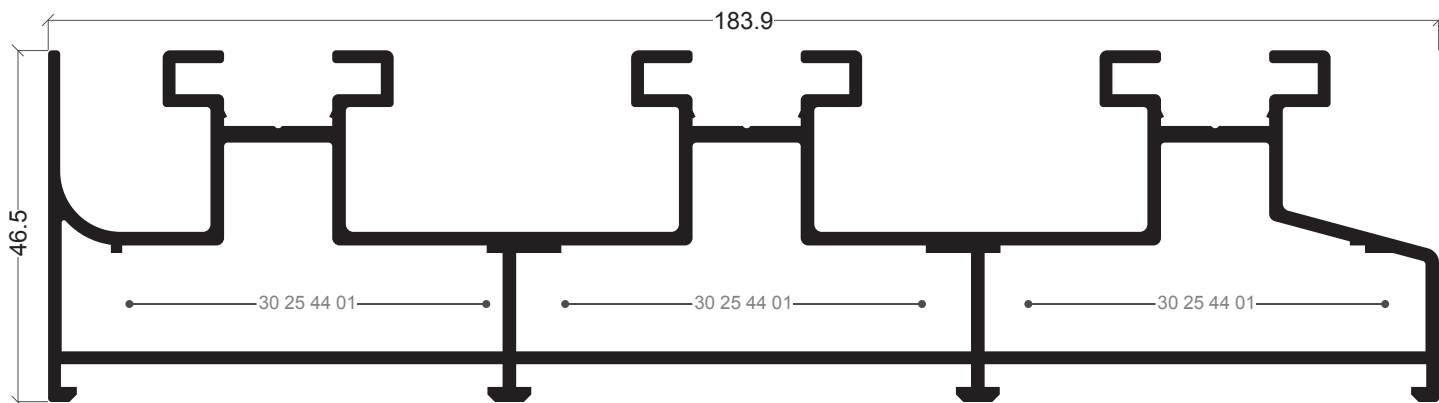
CTe-03
Guia Inox 304



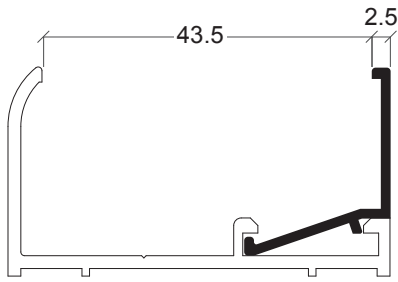
AX-33
Mola Bite



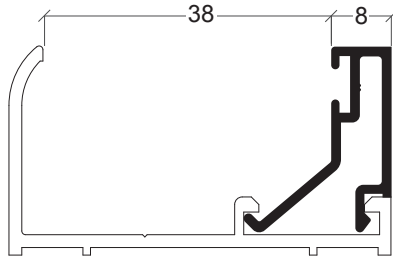
CK-04
Adaptador de guia



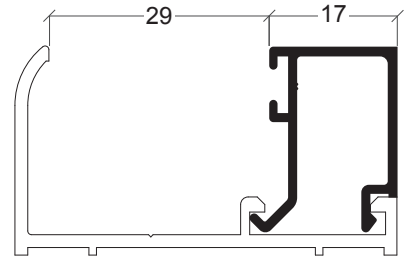
CK-05
Aro fixo perimetral tri-rail



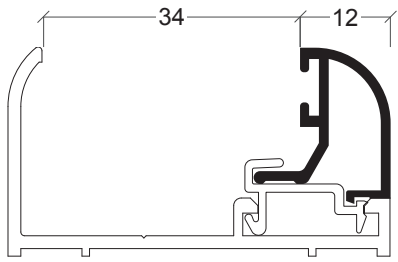
AX-69



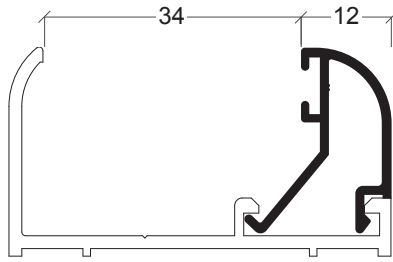
AX-74



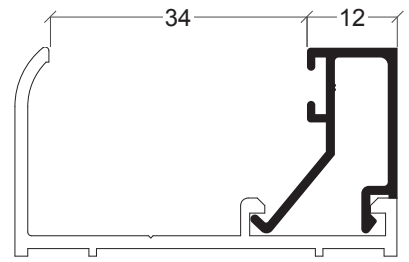
AX-46



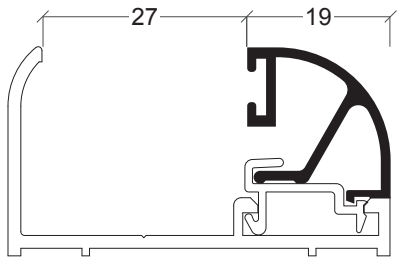
AX-37



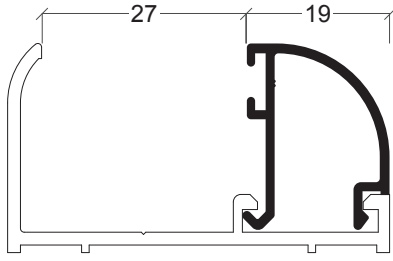
AZ-08



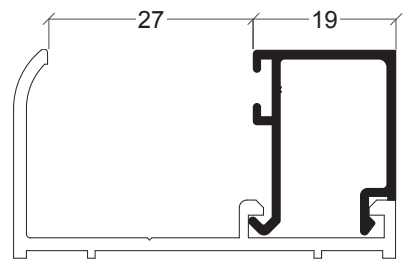
AX-36



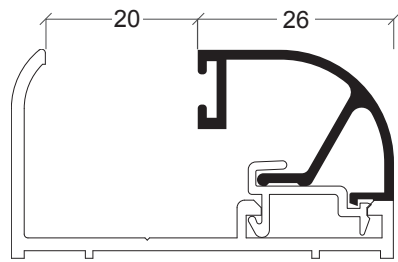
AX-30



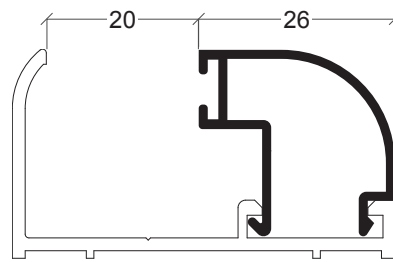
AZ-07



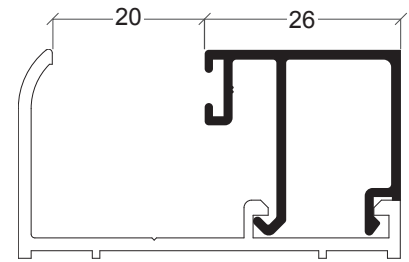
AX-35



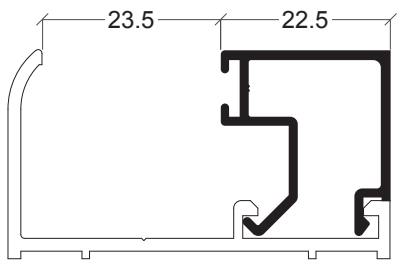
AX-29



AZ-06

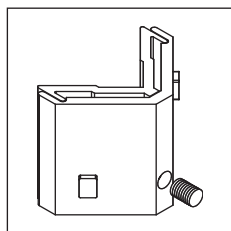


AX-31



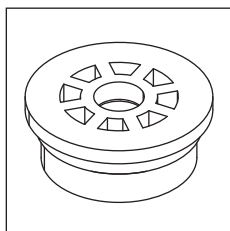
AX-78

398



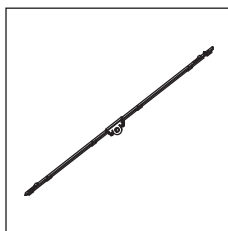
30 25 44 01

Esquadro aro fixo



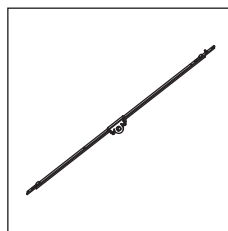
30 91 20 60

Canal para drenagem



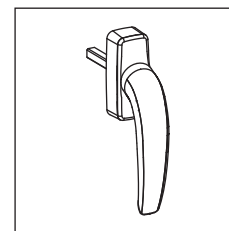
30 91 41 31

Barra 2 pontos com apoios (600 mm)



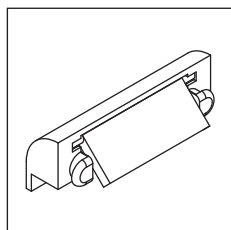
30 91 41 32

Barra 3 pontos com apoios (1670 mm)



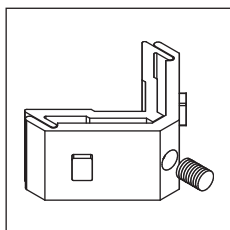
30 91 41 47/48

Cremone multi-ponto branco/preto



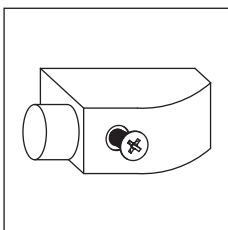
30 92 01 02/03

Goteira preto/branco



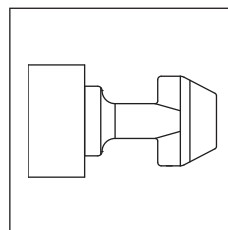
30 94 50 10

Esquadro



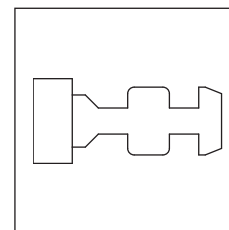
30 94 50 20

Limitador abertura



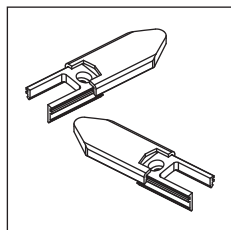
30 94 50 22

Ponto de fecho nº 1



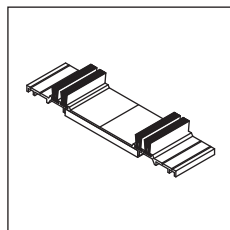
30 94 50 23

Ponto de fecho nº 2



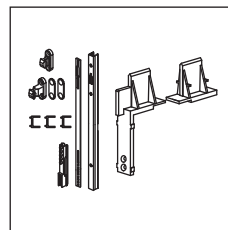
30 94 50 30

Jogo guia móvel



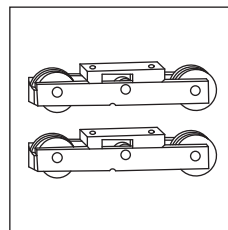
30 94 50 41

Corta-vento inferior/superior



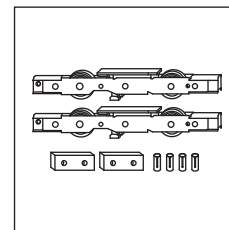
30 94 50 50

Prolongador



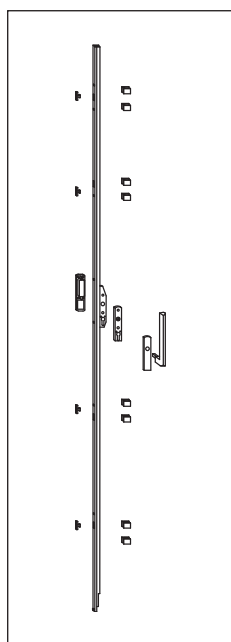
30 94 50 70

Jogo rolamento para folha móvel ou fixa 225 kg



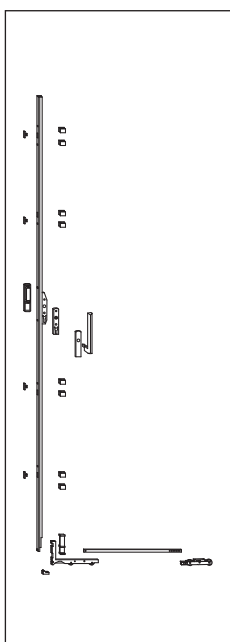
30 94 51 95

Kit elevável 400kg



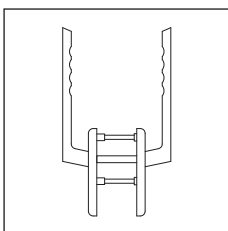
Ver tabela

Kit multiponto



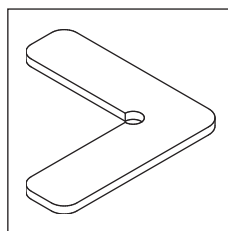
Ver tabela

Kit elevável



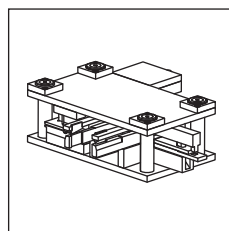
30 94 52 00

Puxador duplo para correr-elevatória








30 96 00 23

Esquadro alinhamento



33 10 01 50

Cunho CK

Referência	Desenho	Descrição
30 95 00 30		Pelúcia 7x7 mm
30 95 00 50		Pelúcia 7x6 mm
30 93 00 65		Junta interior para vidro (5 mm)
30 93 00 66		Junta interior para vidro (4 mm)
30 93 00 67		Junta interior para vidro (2 mm)
30 93 00 68		Junta interior para vidro (6/7 mm)
30 93 00 69		Junta interior para vidro (8/9 mm)
30 93 01 20		Junta central
30 94 50 90		Junta aro móvel para o perfil CK-02

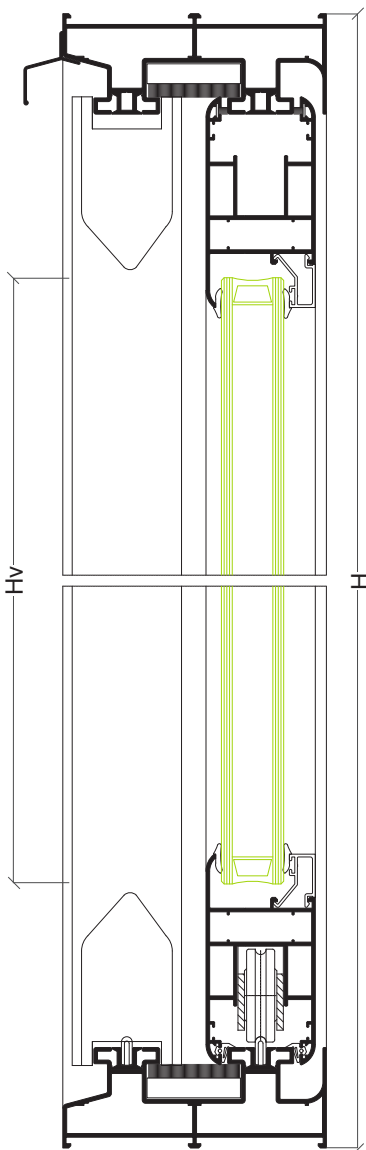
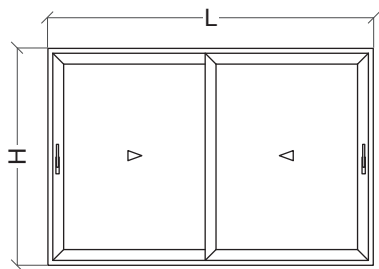
Kits correr-eleváveis (pelo máximo por folha 300kg)

Largura LM	Altura HM	Cor	Referência	Cor	Referência	Cor	Referência
720/1500	1190/1790	Branco	30 94 51 06	Preto	30 94 51 07	Natural	30 94 51 08
720/1500	1791/2090	Branco	30 94 51 11	Preto	30 94 51 12	Natural	30 94 51 13
720/1500	2091/2390	Branco	30 94 51 16	Preto	30 94 51 17	Natural	30 94 51 18
720/1500	2391/2690	Branco	30 94 51 21	Preto	30 94 51 22	Natural	30 94 51 23
1501/2000	1190/1790	Branco	30 94 51 26	Preto	30 94 51 27	Natural	30 94 51 28
1501/2000	1791/2090	Branco	30 94 51 31	Preto	30 94 51 32	Natural	30 94 51 33
1501/2000	2091/2390	Branco	30 94 51 36	Preto	30 94 51 37	Natural	30 94 51 38
1501/2000	2391/2690	Branco	30 94 51 41	Preto	30 94 51 42	Natural	30 94 51 43
2011/2500	1190/1790	Branco	30 94 51 46	Preto	30 94 51 47	Natural	30 94 51 48
2011/2500	1791/2090	Branco	30 94 51 51	Preto	30 94 51 52	Natural	30 94 51 53
2011/2500	2091/2390	Branco	30 94 51 56	Preto	30 94 51 57	Natural	30 94 51 58
2011/2500	2391/2690	Branco	30 94 51 61	Preto	30 94 51 62	Natural	30 94 51 63
2501/3350	1190/1790	Branco	30 94 51 66	Preto	30 94 51 67	Natural	30 94 51 68
2501/3350	1791/2090	Branco	30 94 51 71	Preto	30 94 51 72	Natural	30 94 51 73
2501/3350	2091/2390	Branco	30 94 51 76	Preto	30 94 51 77	Natural	30 94 51 78
2501/3350	2391/2690	Branco	30 94 51 81	Preto	30 94 51 82	Natural	30 94 51 83

Kits multiponto

Altura folha	Cor	Referência	Cor	Referência	Cor	Referência
1190/1790	Branco	30 94 53 06	Preto	30 94 53 07	Natural	30 94 53 08
1800/2090	Branco	30 94 53 11	Preto	30 94 53 12	Natural	30 94 53 13
2100/2390	Branco	30 94 53 16	Preto	30 94 53 17	Natural	30 94 53 18
2400/2690	Branco	30 94 53 21	Preto	30 94 53 22	Natural	30 94 53 23

Porta 2 folhas correr elevável



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CK-01	Aro fixo perimetral		2	L
				2	H
	CK-04	Adaptador guia		4	L/93 mm
				4	H-73 mm
	CTe-03	Guia aço inox		2	L-93 mm
	CK-02	Aro móvel perimetral		4	L/2+6 mm
				4	H-77 mm
	CK-06	Tampa cruzamento aro móvel		2	H-77 mm
	----	Bite		4	L/2-149 mm
				4	H-272 mm
	CT-07	Pingadeira superior		1	L

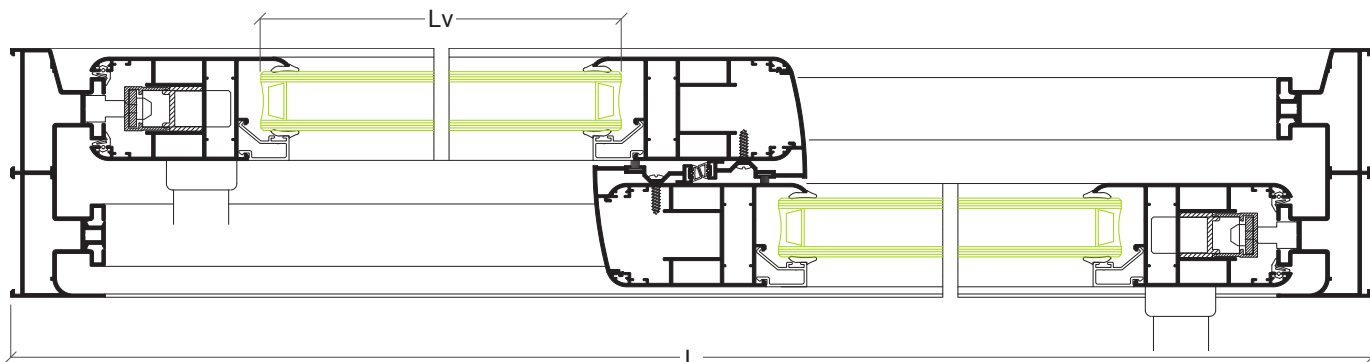
Acessórios e Juntas

Referência	Descrição	Quantidade
----	Kit elevável	2
30 25 44 01	Esquadro aro móvel	8
30 94 50 10	Esquadro aro fixo	8
30 94 50 30	Tampa guia lateral	2
30 96 00 23	Esquadro alinhamento	16
30 94 50 41	Corta vento	2
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 94 50 20	Limitador de abertura	1
30 91 20 60	Canal	4
30 94 51 95	Kit suplementar (folha com 301kg-400kg)	2 (opcional)
30 94 50 50	Prolongador (Hf -> 2790 mm-3225 mm)	2 (opcional)
30 94 50 90	Junta vedação	2L/4H
30 93 01 20	Junta para cruzamento	2H
30 95 00 30	Pelúcia 7x7 mm	2L
30 95 00 50	Pelúcia 7x6 mm	2H
----	Junta para vidro (exterior)	2L/4H
----	Junta para vidro (interior)	2L/4H

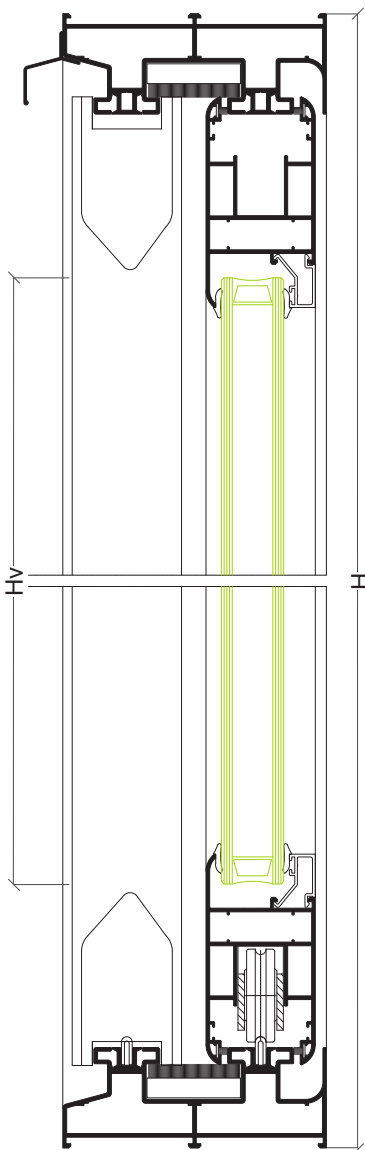
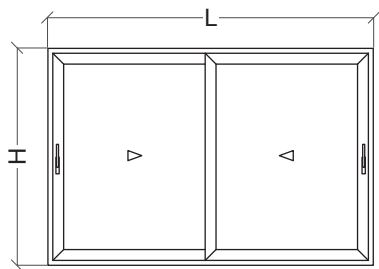
4 0 1

Vidro

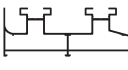

















Hv = H-246 mm	Lv = L/2-163 mm
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Porta 2 folhas correr multiponto



Perfis

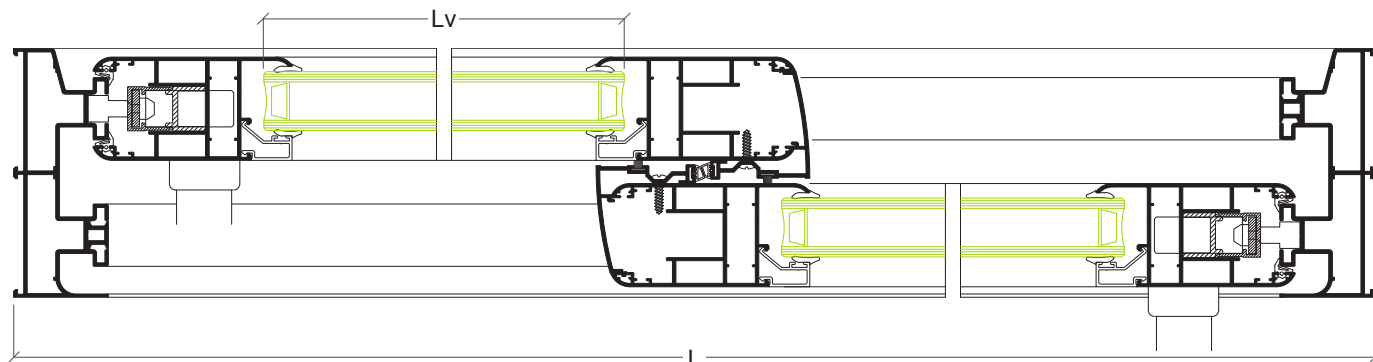
Desenho	Ref	Descrição	Corte	Quant	Medida
	CK-01	Aro fixo perimetral		2	L
				2	H
	CK-04	Adaptador guia		4	L/93 mm
				4	H-73 mm
	CTe-03	Guia aço inox		2	L-93 mm
	CK-02	Aro móvel perimetral		4	L/2+6 mm
				4	H-77 mm
	CK-06	Tampa cruzamento aro móvel		2	H-77 mm
	----	Bite		4	L/2-149 mm
				4	H-272 mm
	CT-07	Pingadeira superior		1	L

Acessórios e Juntas

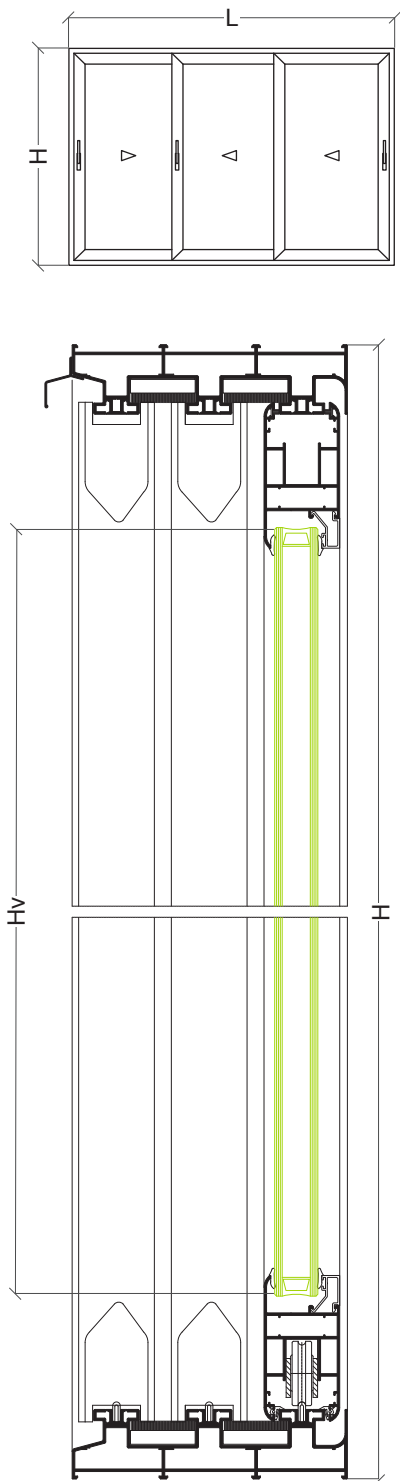
Referência	Descrição	Quantidade
----	Kit multiponto	2
30 25 44 01	Esquadro aro móvel	8
30 94 50 10	Esquadro aro fixo	8
30 94 50 30	Tampa guia lateral	2
30 96 00 23	Esquadro alinhamento	16
30 94 50 41	Corta vento superior	2
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 94 50 20	Limitador de abertura	1
30 91 20 60	Canal	4
30 94 50 70	Jogo rolamento	2
30 94 50 90	Junta vedação	4H
30 93 01 20	Junta para cruzamento	2H
30 95 00 30	Pelúcia 7x7 mm	4L
30 95 00 50	Pelúcia 7x6 mm	2H
----	Junta para vidro (exterior)	4H
----	Junta para vidro (interior)	4H

Vidro



















Hv = H-246 mm	Lv = L/2-163 mm
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Porta 3 folhas correr elevável tri-rail



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CK-05	Aro fixo perimetral		2	L
				2	H
	CK-04	Adaptador guia		6	L/93 mm
				6	H-73 mm
	CTe-03	Guia aço inox		3	L-93 mm
	CK-02	Aro móvel perimetral		6	L/3+35 mm
				6	H-77 mm
	CK-06	Tampa cruzamento aro móvel		4	H-77 mm
	----	Bite		6	L/3-120 mm
				6	H-272 mm
	CT-07	Pingadeira superior		1	L

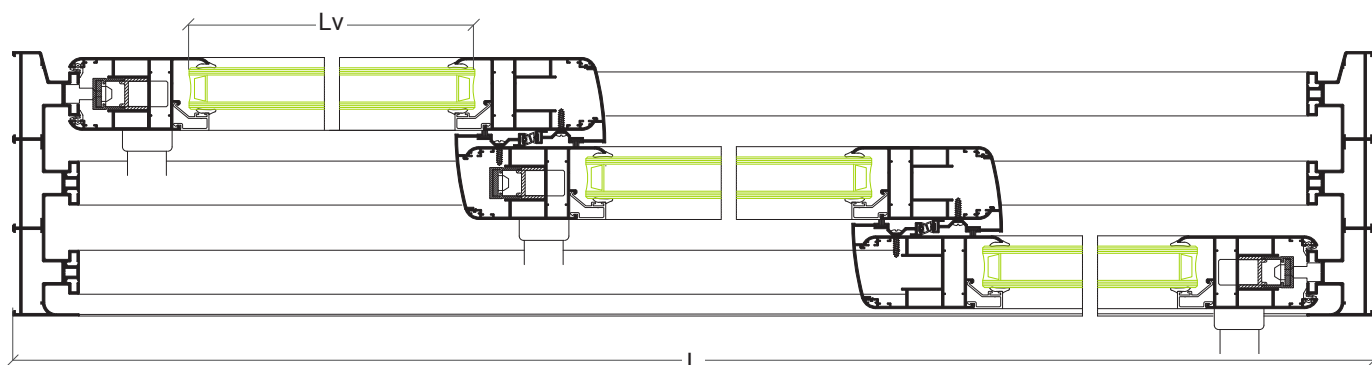
Acessórios e Juntas

Referência	Descrição	Quantidade
----	Kit elevável	3
30 25 44 01	Esquadro aro móvel	12
30 94 50 10	Esquadro aro fixo	12
30 94 50 30	Tampa guia lateral	4
30 96 00 23	Esquadro alinhamento	24
30 94 50 41	Corta vento	4
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 94 50 20	Limitador de abertura	2
30 91 20 60	Canal	8
30 94 51 95	Kit suplementar (folha com 301kg-400kg)	3 (opcional)
30 94 50 50	Prolongador (Hf -> 2790 mm-3225 mm)	3 (opcional)
30 94 50 90	Junta vedação	2L/4H
30 93 01 20	Junta para cruzamento	4H
30 95 00 30	Pelúcia 7x7 mm	2L
30 95 00 50	Pelúcia 7x6 mm	4H
----	Junta para vidro (exterior)	2L/6H
----	Junta para vidro (interior)	2L/6H

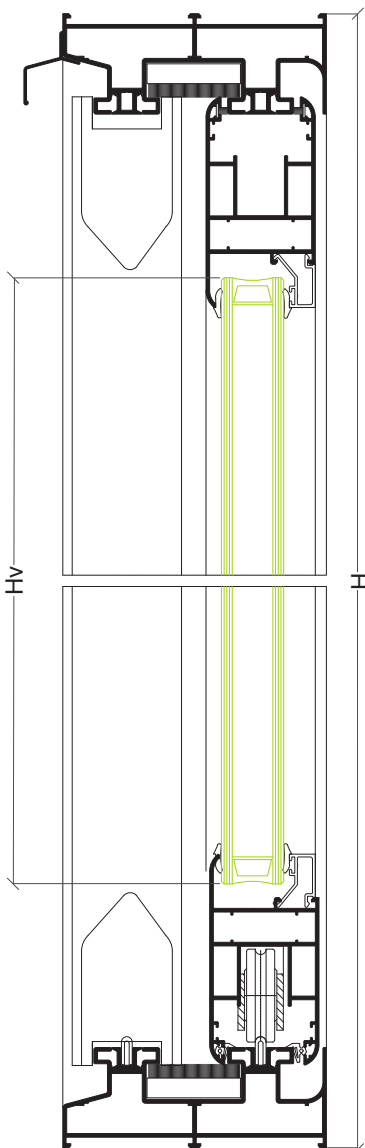
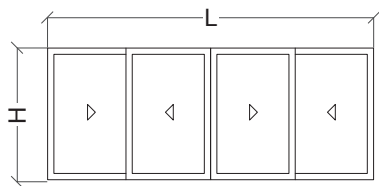
403

Vidro

Hv = H-246 mm	Lv = L/3-135 mm
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Porta 4 folhas correr elevável



Perfis

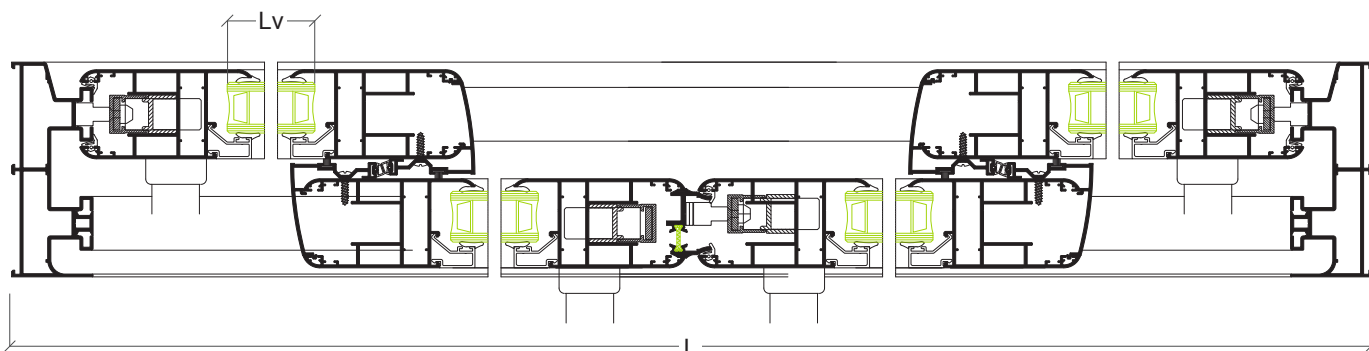
Desenho	Ref	Descrição	Corte	Quant	Medida
	CK-01	Aro fixo perimetral		2	L
				2	H
	CK-04	Adaptador guia		4	L/93 mm
				4	H-73 mm
	CTe-03	Guia aço inox		2	L-93 mm
	CK-02	Aro móvel perimetral		8	L/4+24 mm
				8	H-77 mm
	CTe-09	União 3/4 folhas		1	H-77 mm
	CK-06	Tampa cruzamento aro móvel		4	H-77 mm
	----	Bite		8	L/4-131 mm
				8	H-272 mm
	CT-07	Pingadeira superior		1	L

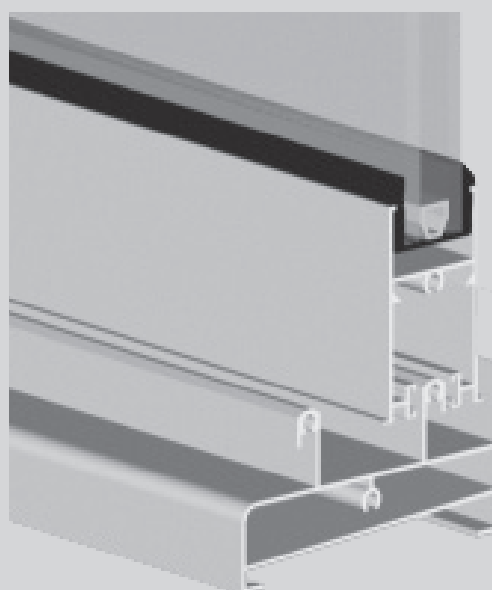
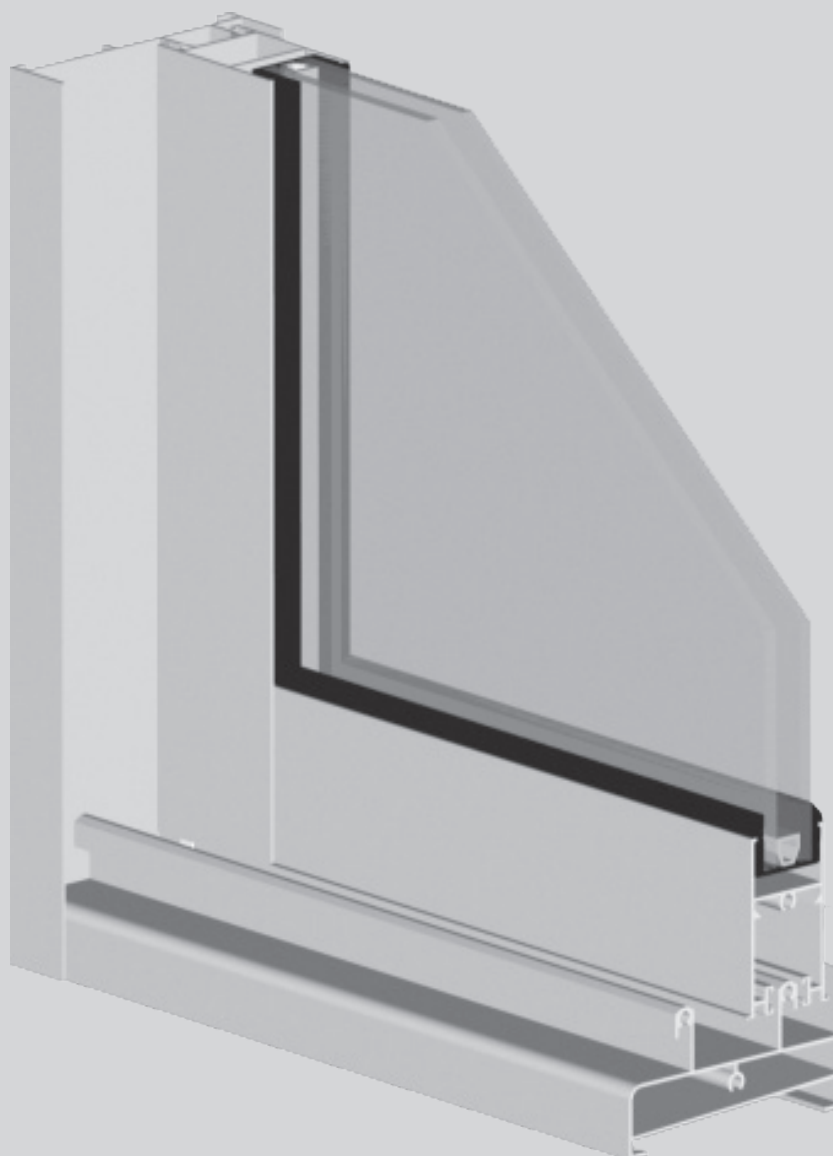
Acessórios e Juntas

Referência	Descrição	Quantidade
----	Kit elevável	3
30 25 44 01	Esquadro aro móvel	16
30 94 50 10	Esquadro aro fixo	8
30 94 50 30	Tampa guia lateral	4
30 96 00 23	Esquadro alinhamento	32
30 94 50 41	Corta vento	6
30 92 01 02	Goteira com válvula (cor preto)	diversas
30 94 50 20	Limitador de abertura	2
30 91 20 60	Canal	8
30 94 50 70	Rolamento	4
30 94 50 90	Junta vedação	2L/6H
30 93 01 20	Junta para cruzamento	4H
30 95 00 30	Pelúcia 7x7 mm	2L
30 95 00 50	Pelúcia 7x6 mm	4H
----	Junta para vidro (exterior)	8H
----	Junta para vidro (interior)	8H

Vidro

Hv = H-246 mm	Lv = L/4-145 mm
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Sistema
CS

Sistema CS

Sistema de correr - 95 mm

Características do sistema

Sistemas de alumínio tradicional e sistema euro para execução de vãos de correr.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 1.4 mm.

Aros fixos

Secção do aro fixo de 1 guia de 47 mm para montagem a corte recto;

Secção do aro fixo de 2 guias de 95 mm para montagem a corte recto;

Secção do aro fixo de 3 guias de 135.5 mm para montagem a corte recto.

Aros móveis

Secção dos aros móveis de 34.6 mm para montagem a corte recto;

Enchimento de 4 mm a 23 mm;

Estanquidade assegurada através de pelúcia tipo Fin-Seal.

Dimensionamento e manobralidade

Peso máximo de 90 kg por folha (com 2 rolamentos duplos);

Possibilidades de abertura: 1, 2, 3, 4 e 6 folhas, com folhas móveis e/ou fixas;

Rolamento duplo com regulação.

Performances

Sistema certificado por laboratório notificado do ensaio tipo inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema CS tipologia janela:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 6A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C4 (norma de ensaio EN 12211)

Categorias alcançadas na avaliação do sistema CS tipologia porta:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 6A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)

Coefficiente de transmissão térmica de vão de 2 folhas com 1.80 m x 2.20 m com vidro $U_g = 1.4 \text{ W/m}^2\text{K}$:

• $U_w = 2.60 \text{ W/m}^2\text{K}$

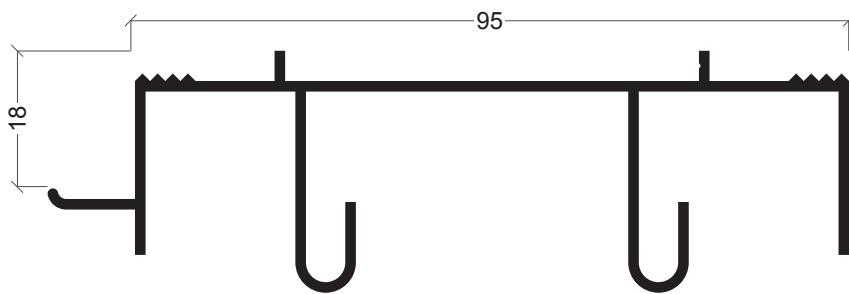
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/10/4:

• $R_w (C; C_{tr}) = 29 \text{ dB} (-1; -2)$

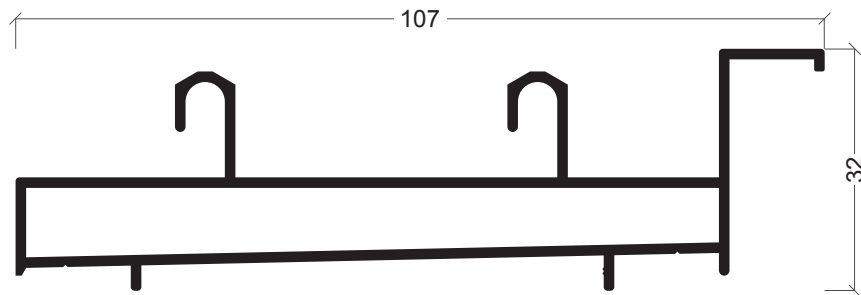
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



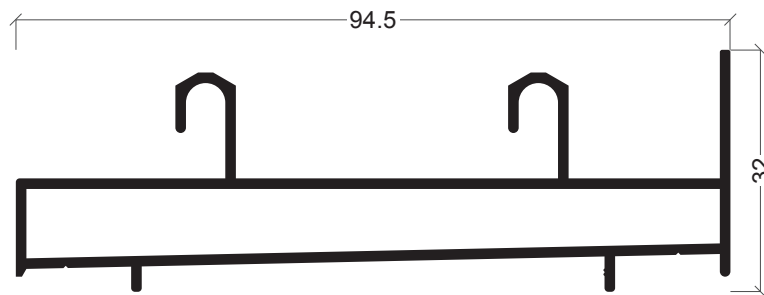
CS-01
Padieira



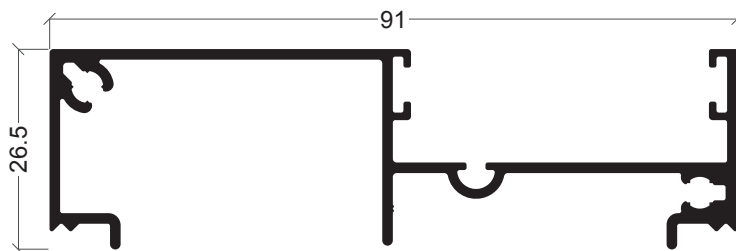
CS-21
Padieira



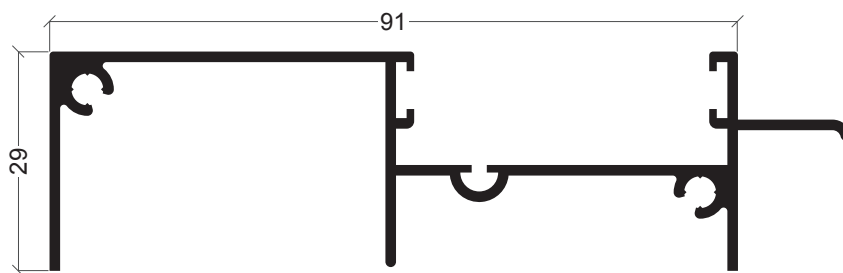
CS-29
Soleira



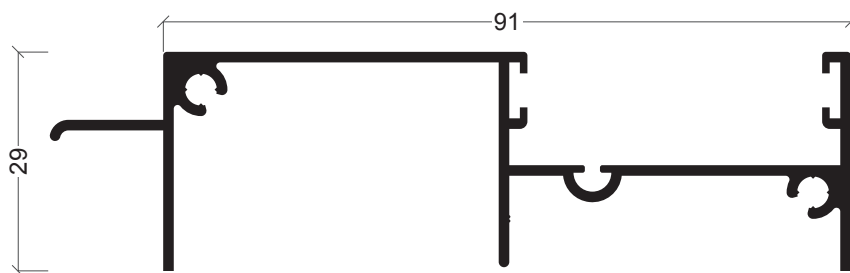
CS-39
Soleira



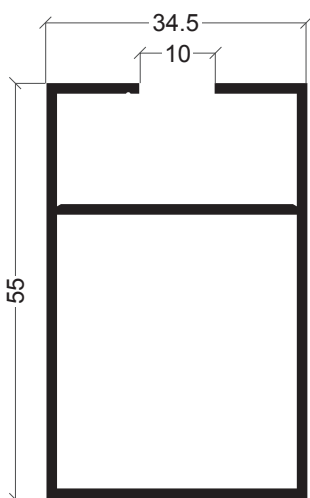
CS-04
Ombreira



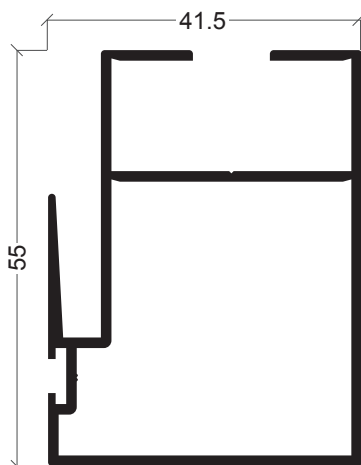
CS-54
Ombreira



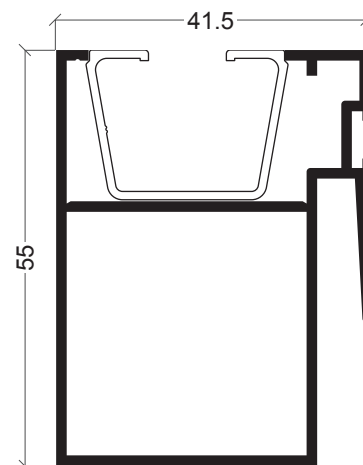
CS-55
Ombreira



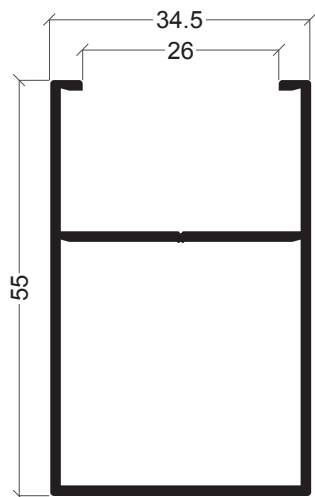
CS-75
Aro móvel lateral



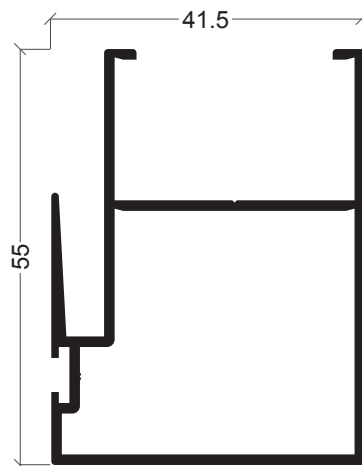
CS-76
Aro móvel central



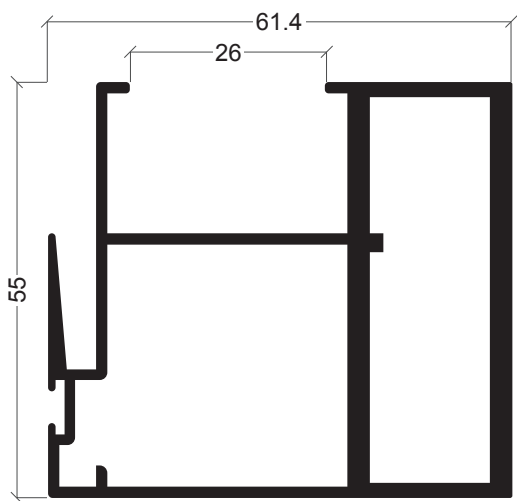
CS-87
Aro móvel central 3F



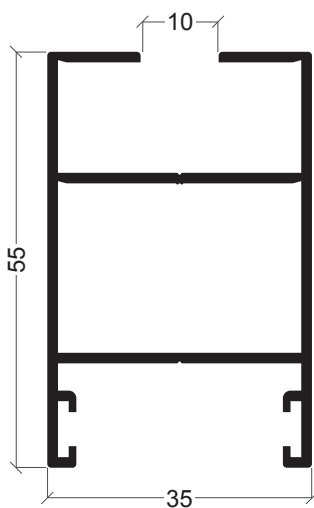
CS-85
Aro móvel lateral



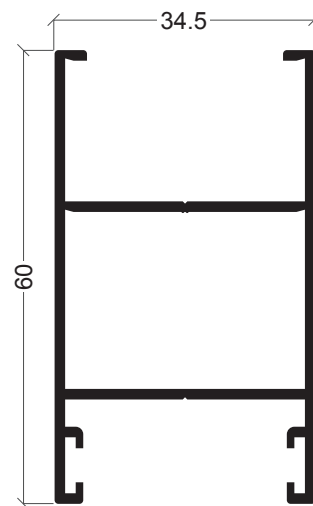
CS-86
Aro móvel central



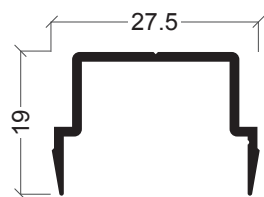
CS-90
Aro móvel central



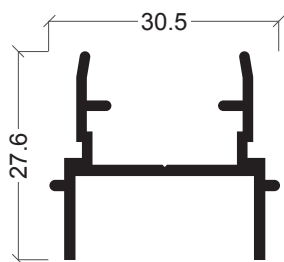
CS-94
Aro móvel lateral



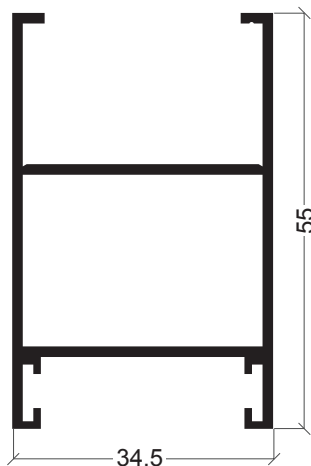
CS-96
Aro móvel lateral



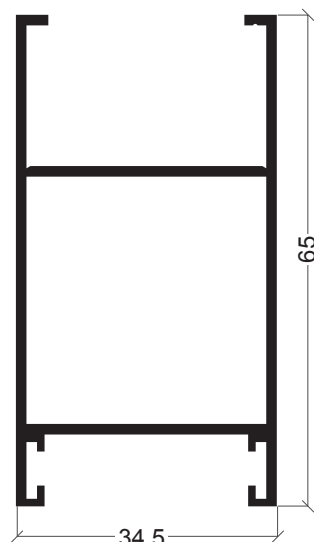
CS-48
União 3/4F



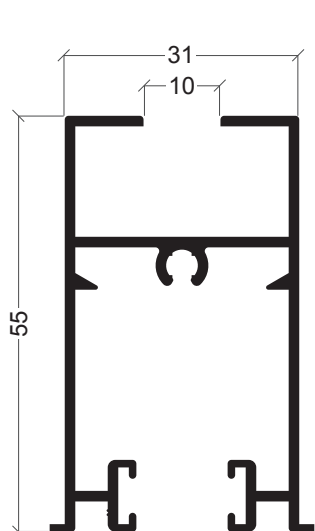
CS-38
União 3/4F



CS-93
Aro móvel lateral

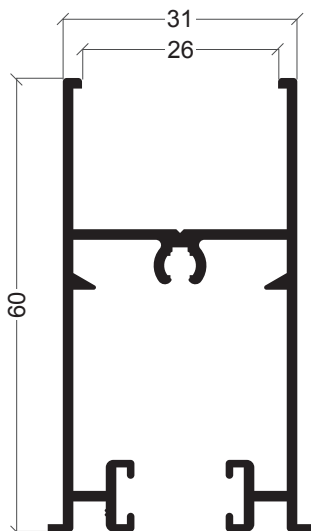


CS-95
Aro móvel lateral



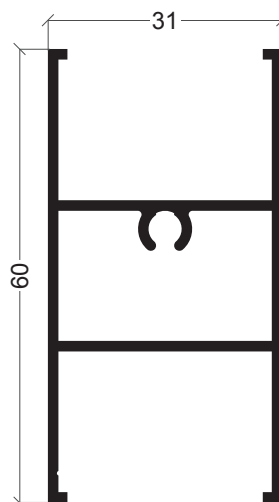
CS-70

Aro móvel carrinho



CS-80

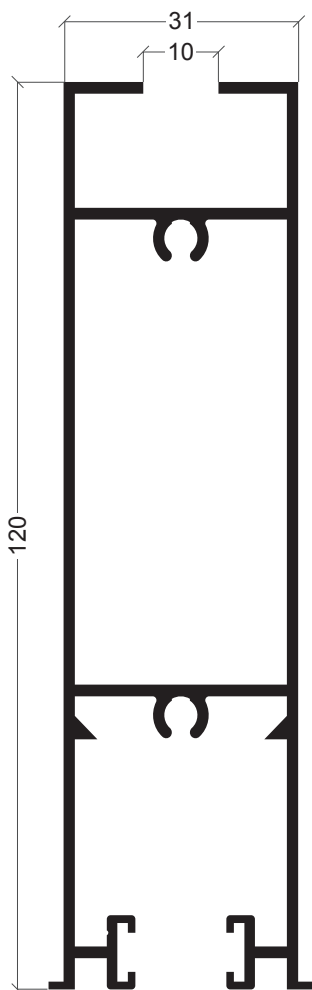
Aro móvel carrinho



CS-83

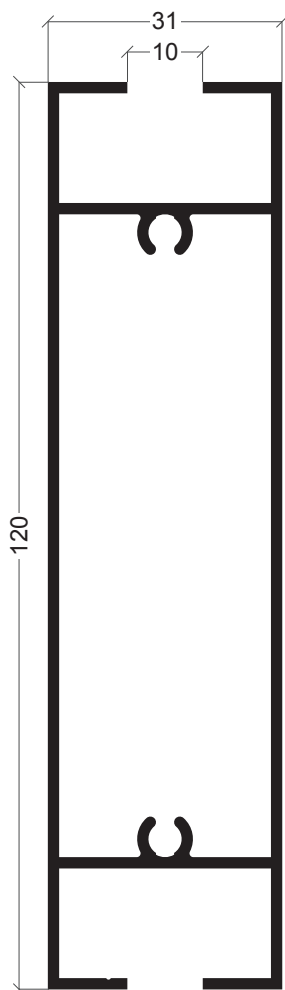
Travessa

410



CS-72

Aro móvel carrinho



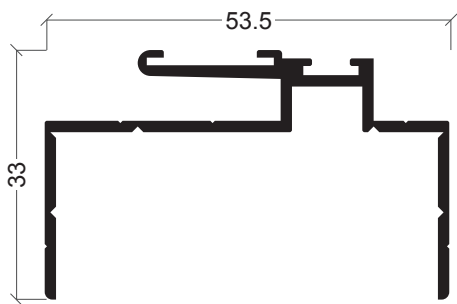
CS-71

Travessa

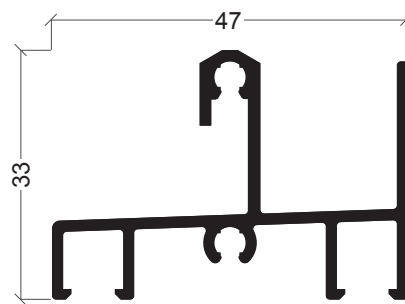


CS-15

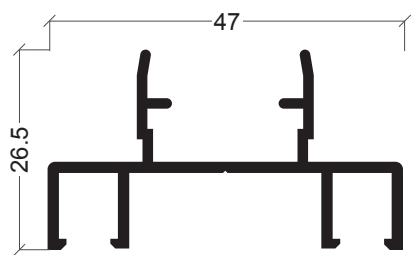
União de aros



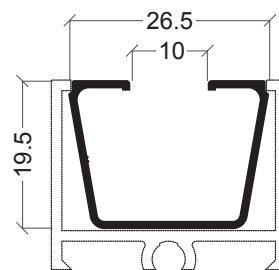
CS-08
Central mono-rail



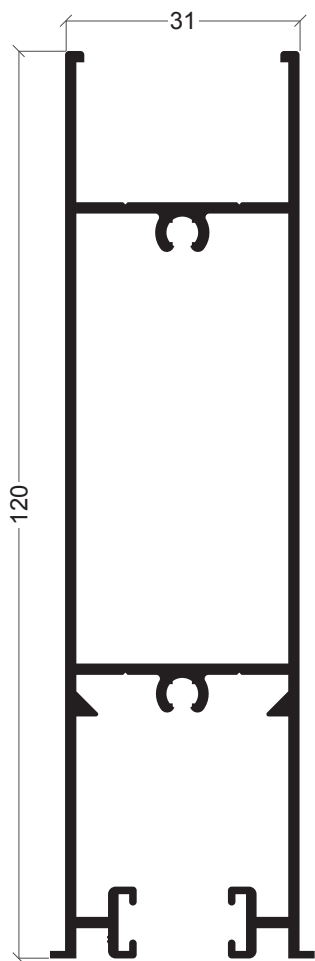
CS-05
Aro fixo sup/inferior mono-rail



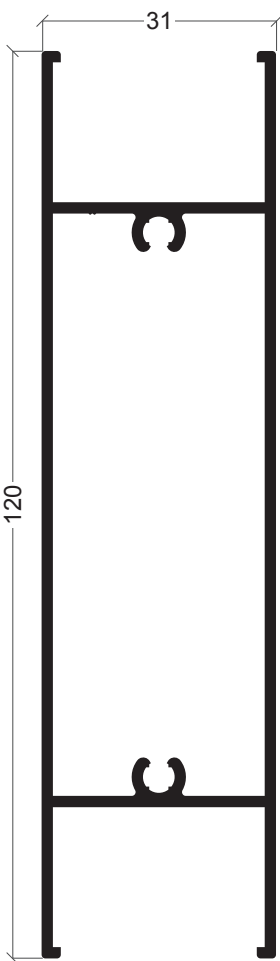
CS-07
Ombreira mono-rail



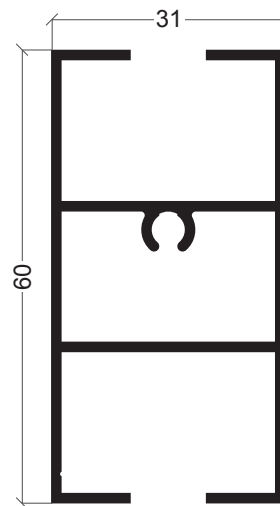
CS-74
Redutor



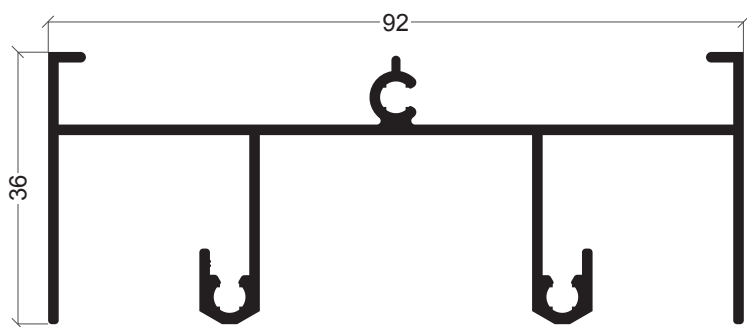
CS-82
Almofada carrinho



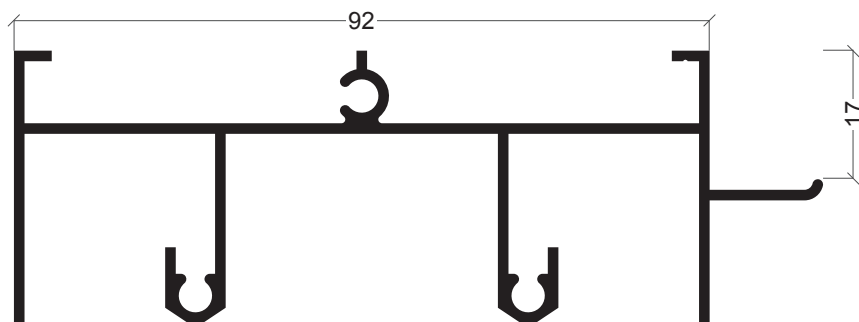
CS-81
Travessa



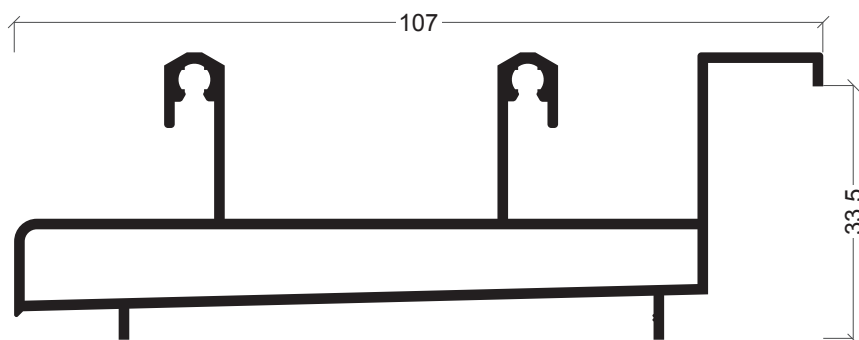
CS-73
Travessa



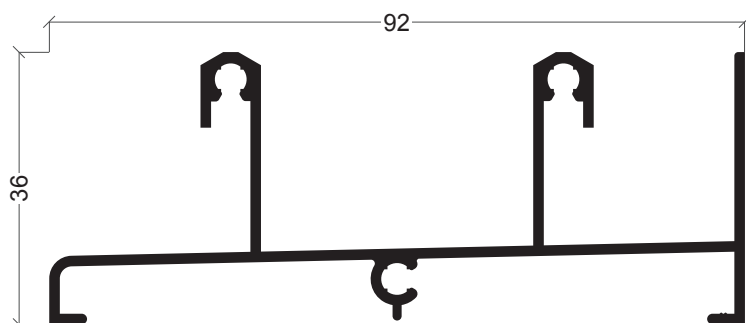
CS-12
Padieira



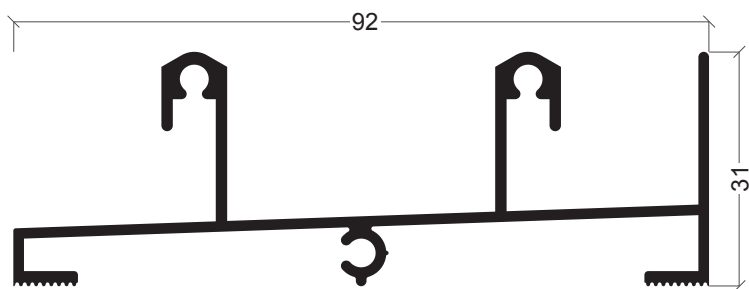
CS-51
Padieira



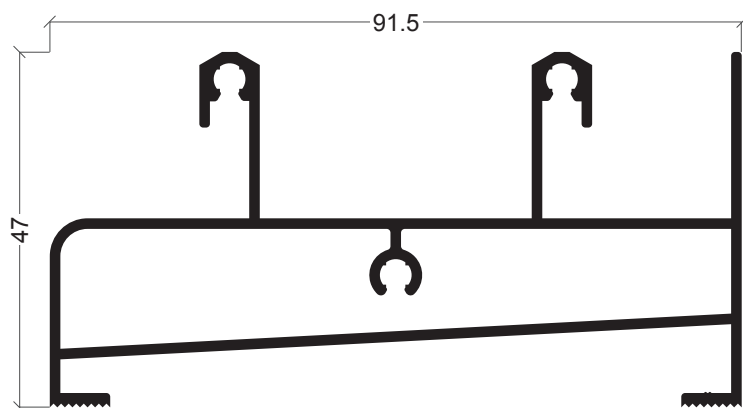
CS-69
Soleira



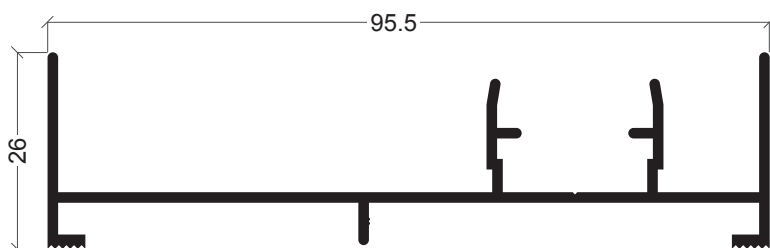
CS-19
Soleira



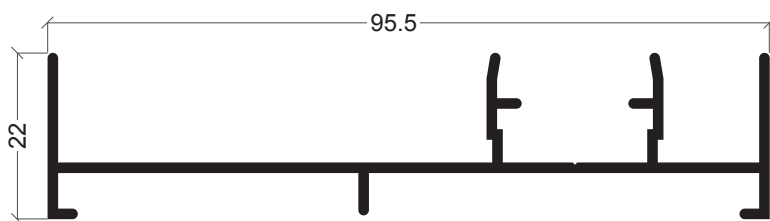
CS-49
Soleira



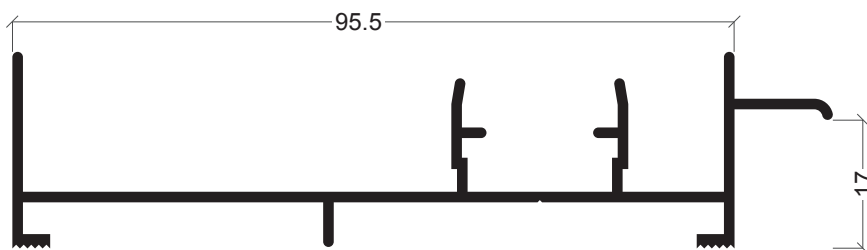
CS-59
Soleira



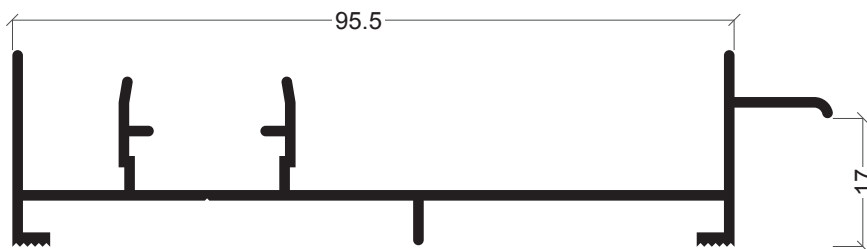
CS-24
Ombreira



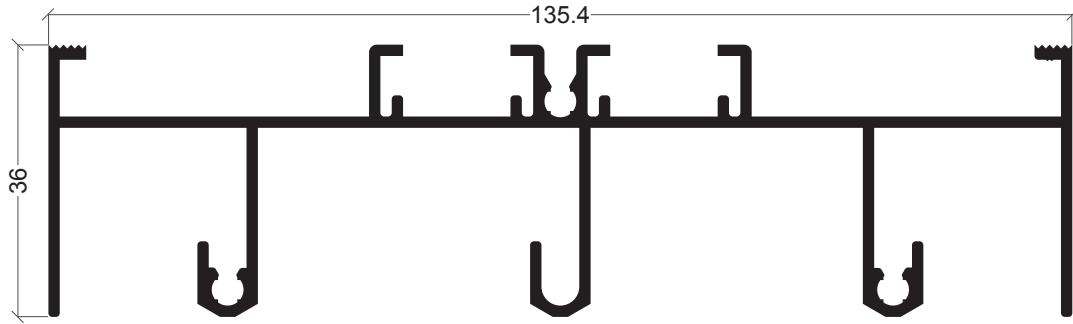
CS-25
Ombreira



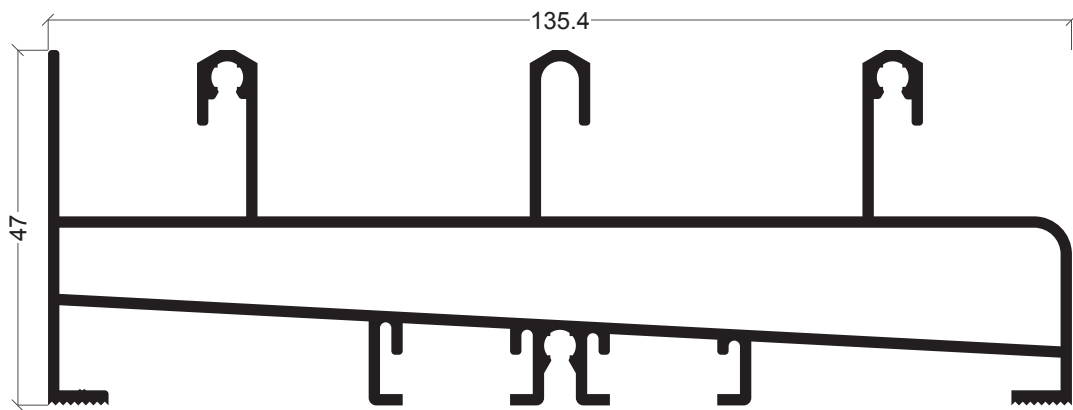
CS-64
Ombreira



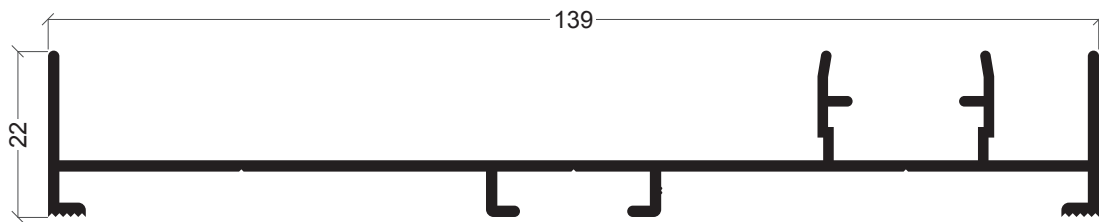
CS-65
Ombreira



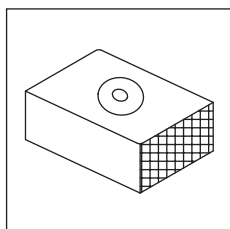
CS-22
Padieira



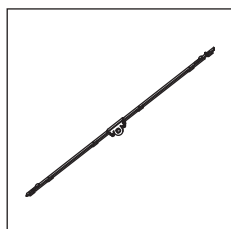
CS-79
Soleira tri-rail



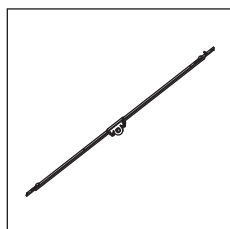
CS-14
Ombreira tri-rail



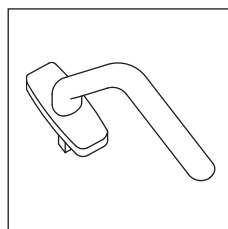
30 91 41 10
taco anti-levantamento



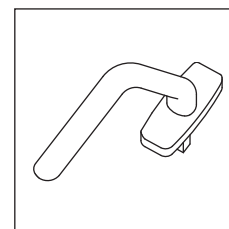
30 91 41 31
Barra 2 pontos com apoios (600 mm)



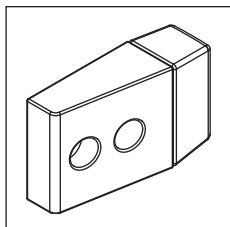
30 91 41 32
Barra 3 pontos com apoios (1670 mm)



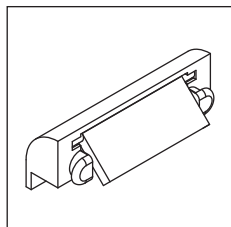
30 91 41 52/53
Cremone desviado direita branco/preto



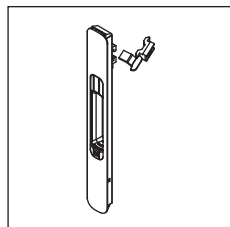
30 91 41 54/55
Cremone desviado esquerda branco/preto



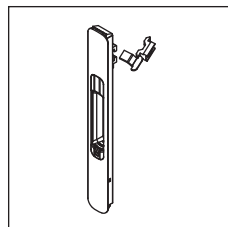
30 91 41 71
Topo limitador de abertura



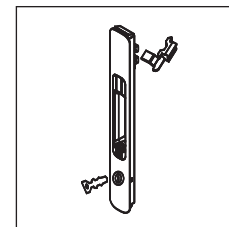
30 92 01 02/03
Goteira com válvula branco/preto



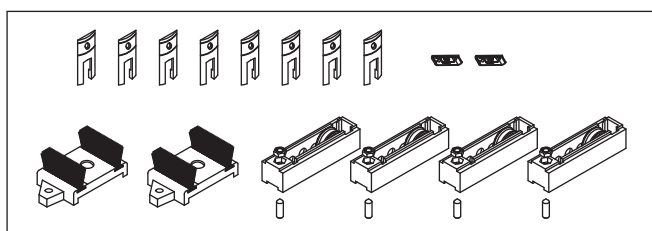
30 97 10 01/02
Fecho lateral automático branco/preto



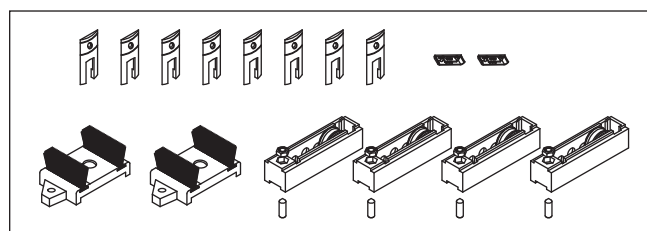
30 97 10 03/04
Fecho lateral manual branco/preto



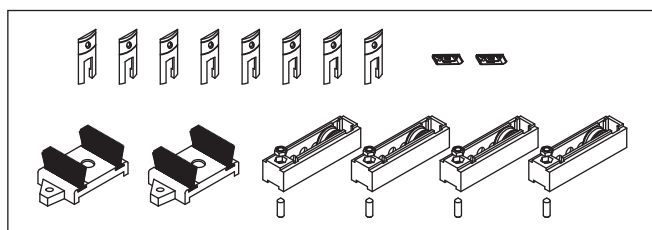
30 97 10 05/06
Fecho lateral com chave branco/preto



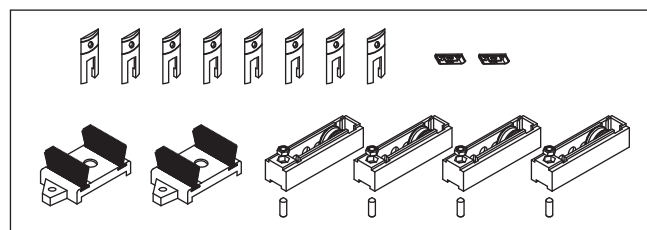
30 97 10 09
Kit janela 2F CS normal



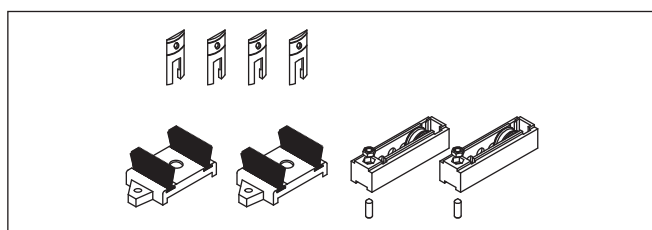
30 97 10 10
Kit janela 2F CS euro



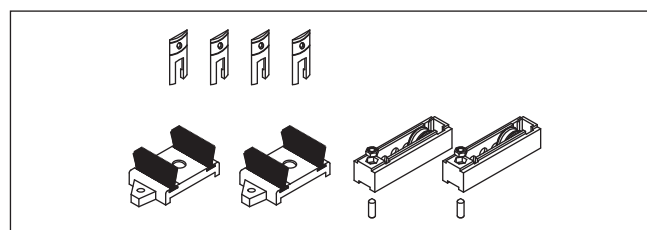
30 97 10 11
Kit porta 2F CS normal



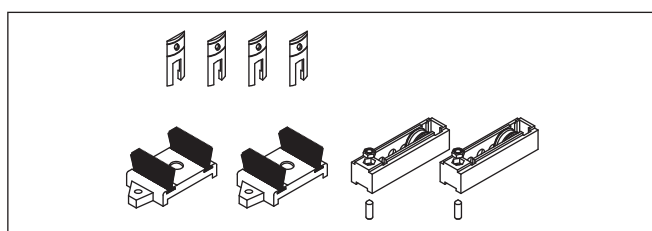
30 97 10 12
Kit porta 2F CS euro



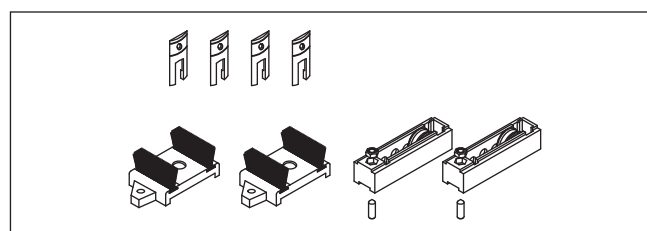
30 97 10 15
Kit janela suplementar 3F CS normal



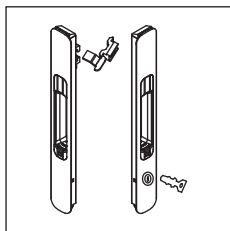
30 97 10 16
Kit janela suplementar 3F CS euro



30 97 10 17
Kit porta suplementar 3F F CS normal

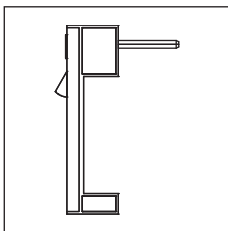


30 97 10 18
Kit porta suplementar 3F F CS euro



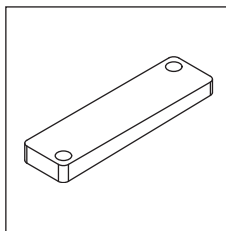
30 97 10 07/08

Fecho lateral duplo com
chave branco/preto



30 97 10 13/14

Fecho central preto/
branco

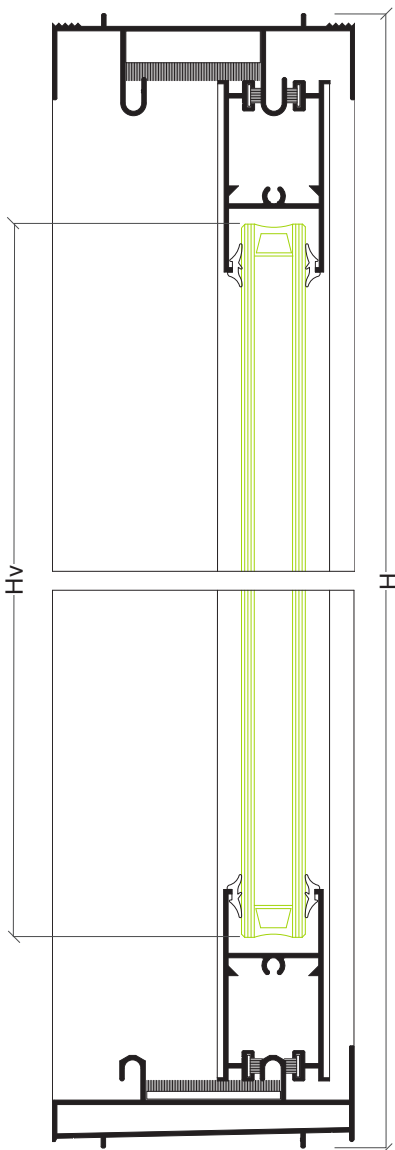
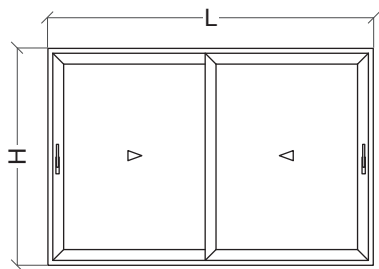


30 97 10 19

Topo de vedação para
soleiras CS-29/39

Referência	Desenho	Descrição
30 95 00 40		Pelúcia 7x5.5 mm
30 97 10 25		Junta U CS vidro 22 mm
30 97 10 26		Junta U CS vidro 20/21 mm
30 95 00 80		Pelúcia 7x5 mm

Janela 2 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CS-01	Padieira		1	L
	CS-39	Soleira		1	L
	CS-24	Ombreira		2	H-20 mm
	CS-80	Móvel carrinho		4	L/2+9 mm
	CS-85	Móvel lateral		2	H-44 mm
	CS-86	Móvel central		2	H-44 mm

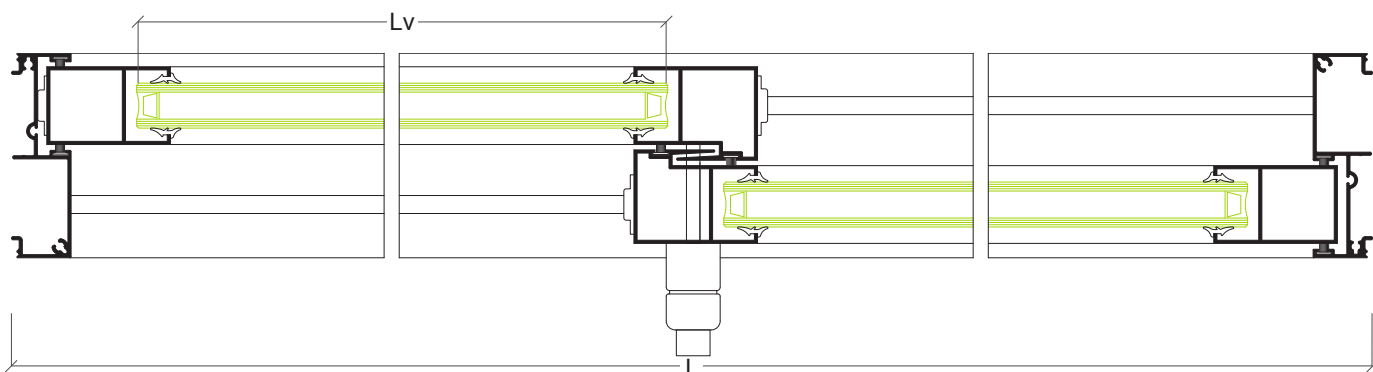
Acessórios e Juntas

Referência	Descrição	Quantidade
30 97 10 14	Fecho central branco	1
30 97 10 09	Kit janela 2F CS normal	1
30 97 10 19	Topo para soleira	2
30 95 00 80	Pelúcia 7x5 mm	4L
30 95 00 40	Pelúcia 7x5.5 mm	6H
---	Junta de vidro	4L/8H

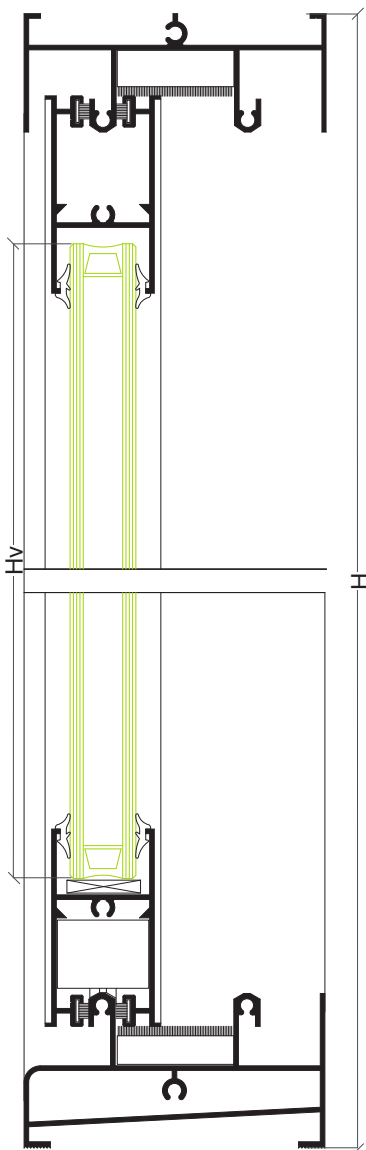
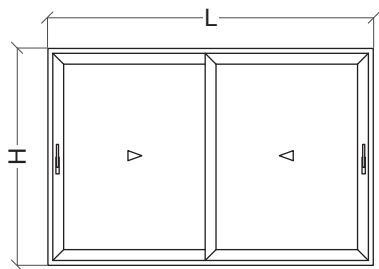
4 17

Vidro

Hv = H-132 mm	Lv = L/2-68 mm
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Janela 2 folhas correr



Perfis

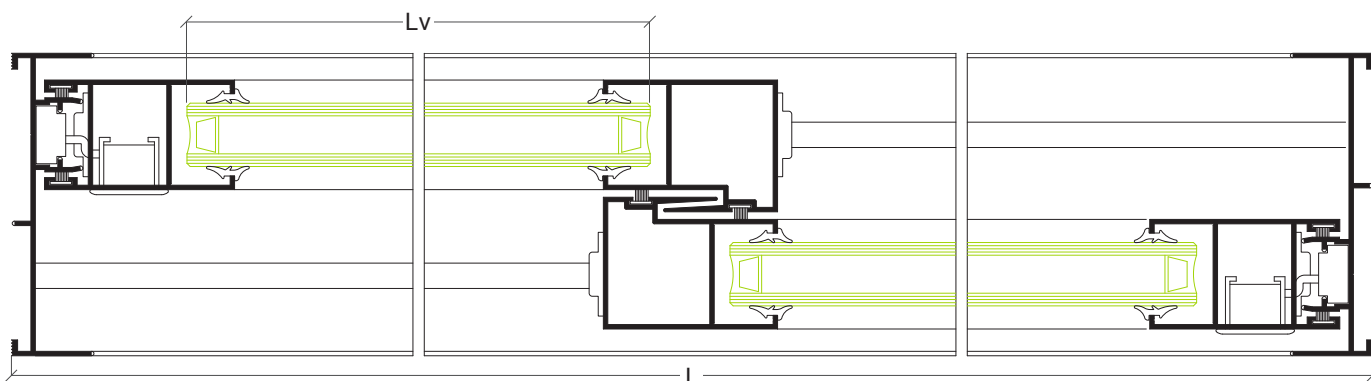
Desenho	Ref	Descrição	Corte	Quant	Medida
	CS-12	Padieira		1	L-15 mm
	CS-59	Soleira		1	L-15 mm
	CS-24	Ombreira		2	H
	CS-80	Móvel carrinho		4	L/2+0.5 mm
	CS-96	Móvel lateral		2	H-64 mm
	CS-86	Móvel central		2	H-64 mm

Acessórios e Juntas

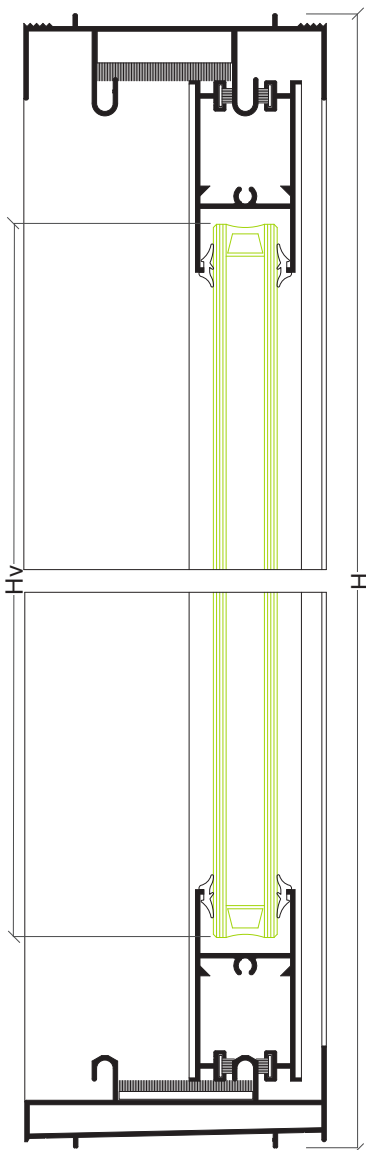
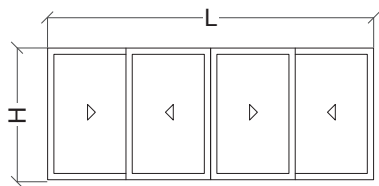
Referência	Descrição	Quantidade
30 97 10 01	Fecho lateral automático branco	2
30 97 10 10	Kit janela 2 folhas CS Euro	1
30 91 41 10	Taco anti-levantamento	2
30 95 00 80	Pelúcia 7x5 mm	4L/4H
30 95 00 40	Pelúcia 7x5.5 mm	2H
---	Junta de vidro	4L/8H

Vidro

Hv = H-152 mm	Lv = L/2-68 mm
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Janela 4 folhas correr



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CS-01	Padieira		1	L
	CS-39	Soleira		1	L
	CS-04	Ombreira		2	H-20 mm
	CS-80	Móvel carrinho		8	L/4+9.5 mm
	CS-85	Móvel lateral		2	H-44 mm
	CS-86	Móvel central		4	H-44 mm
	CS-96	Móvel central		2	H-44 mm
	CS-38	União 3/4F		1	H-44 mm

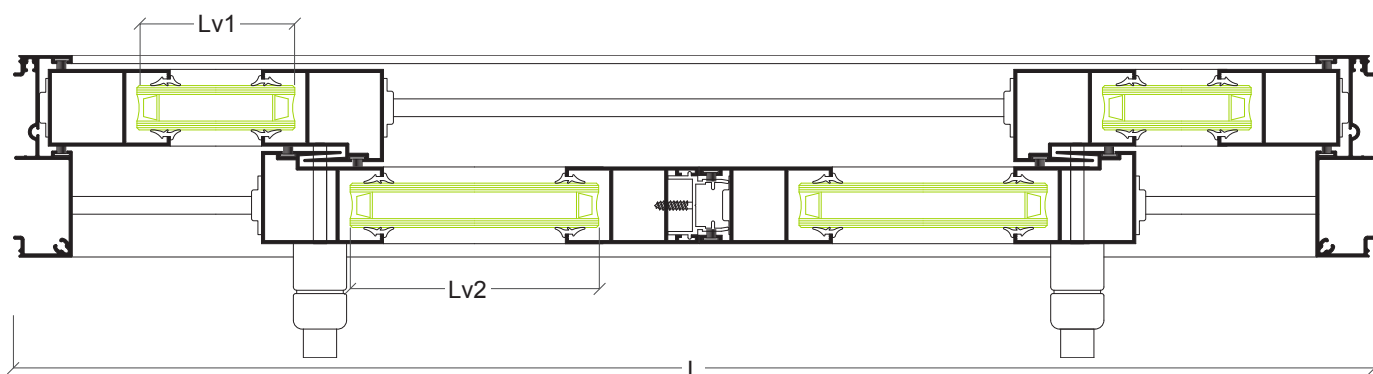
Acessórios e Juntas

Referência	Descrição	Quantidade
30 97 10 14	Fecho central branco	2
30 97 10 09	Kit janela 2F CS normal	2
30 97 10 19	Topo para soleira	2
30 95 00 80	Pelúcia 7x5 mm	4L
30 95 00 40	Pelúcia 7x5.5 mm	10H
---	Junta de vidro	4L/16H

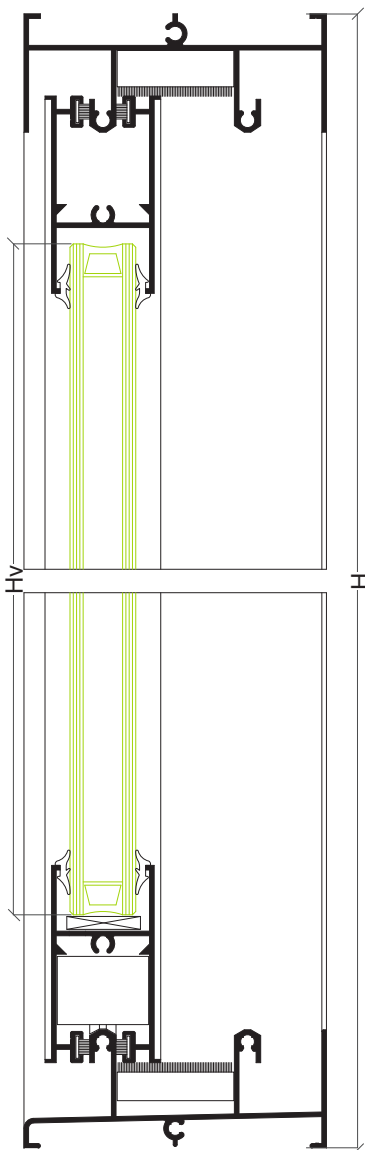
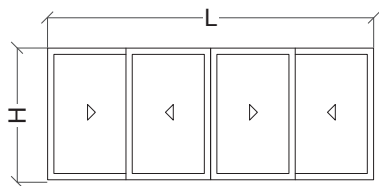
4 19

Vidro

Hv = H-132 mm	Lv1 = L/4-68 mm
Hv = H-132 mm	Lv2 = L/4-59 mm



Janela 4 folhas correr



Perfis

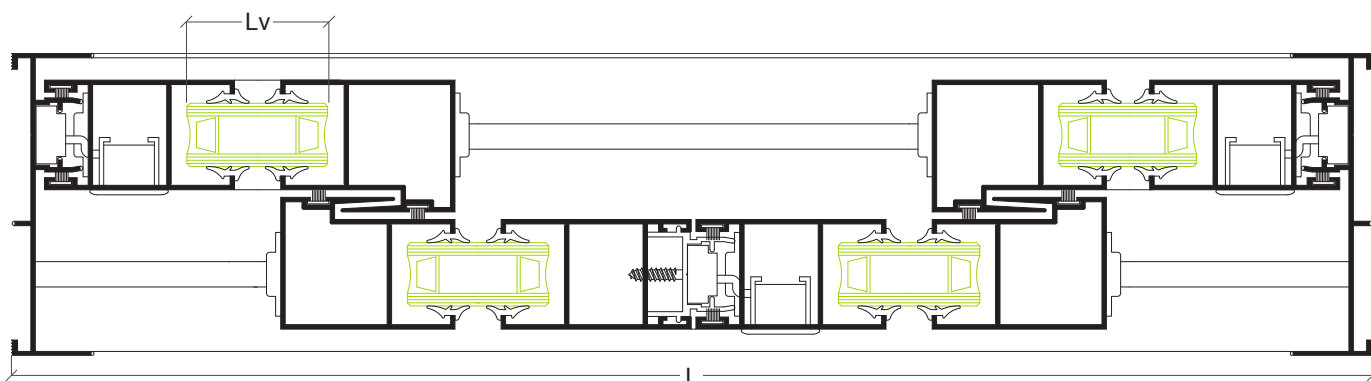
Desenho	Ref	Descrição	Corte	Quant	Medida
	CS-12	Padieira		1	L-15 mm
	CS-19	Soleira		1	L-15 mm
	CS-04	Ombreira		2	H
	CS-80	Móvel carrinho		4	L/4+5 mm
	CS-96	Móvel lateral		2	H-53 mm
	CS-86	Móvel central		2	H-53 mm
	CS-38	União 3/4F		1	H-53 mm

Acessórios e Juntas

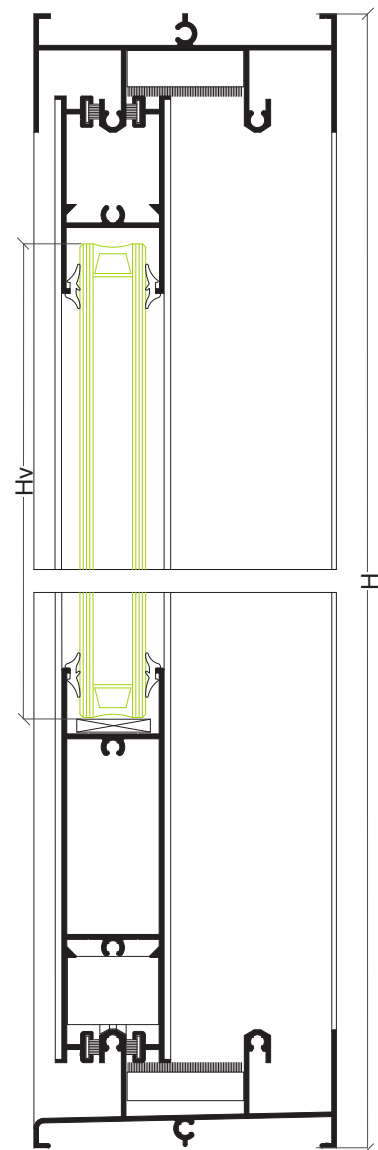
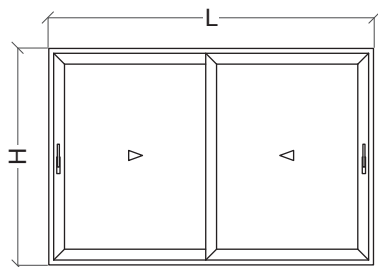
Referência	Descrição	Quantidade
30 97 10 01	Fecho lateral automático branco	3
30 97 10 10	Kit janela 2 folhas CS Euro	2
30 91 41 10	Taco anti-levantamento	3
30 95 00 80	Pelúcia 7x5 mm	4L/6H
30 95 00 40	Pelúcia 7x5.5 mm	4H
---	Junta de vidro	4L/16H

Vidro

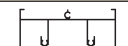

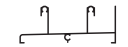

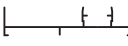









Hv = H-140 mm	Lv = L/4-63 mm
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Porta 2 folhas correr multiponto



Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	CS-12	Padieira		1	L-15 mm
	CS-19	Soleira		1	L-15 mm
	CS-25	Ombreira		2	H
	CS-80	Móvel carrinho		2	L/2-1.5 mm
	CS-82	Almofada		2	L/2-1.5 mm
	CS-96	Móvel lateral		2	H-53 mm
	CS-90	Móvel central		2	H-53 mm

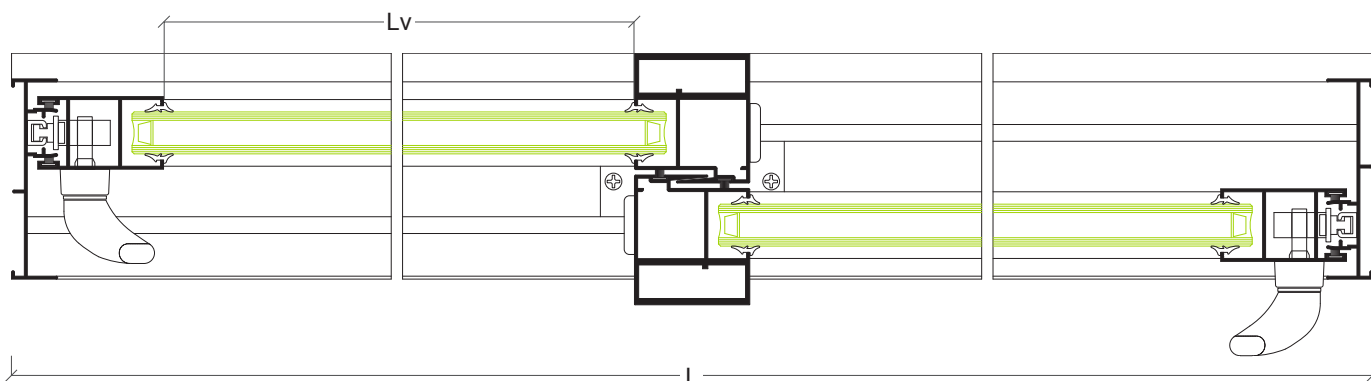
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 32	Barra 3 pontos (1670 mm)	2
30 97 10 12	Kit porta 2 folhas CS Euro	1
30 91 41 71	Topo limitador	1
30 91 41 52	Cremona desviado direito branco	1
30 91 41 54	Cremona desviado esquerdo branco	1
30 95 00 80	Pelúcia 7x5 mm	4L/4H
30 95 00 40	Pelúcia 7x5.5 mm	2H
---	Junta de vidro	4L/8H

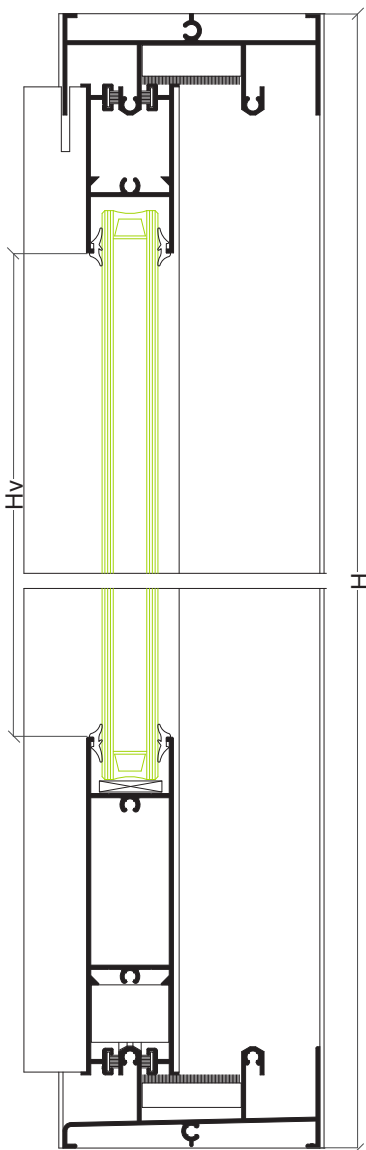
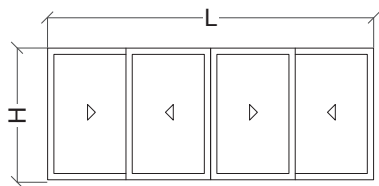
4 2 1

Vidro

Hv = H-201 mm	Lv = L/2-70 mm
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Porta 4 folhas correr multiponto



Perfis

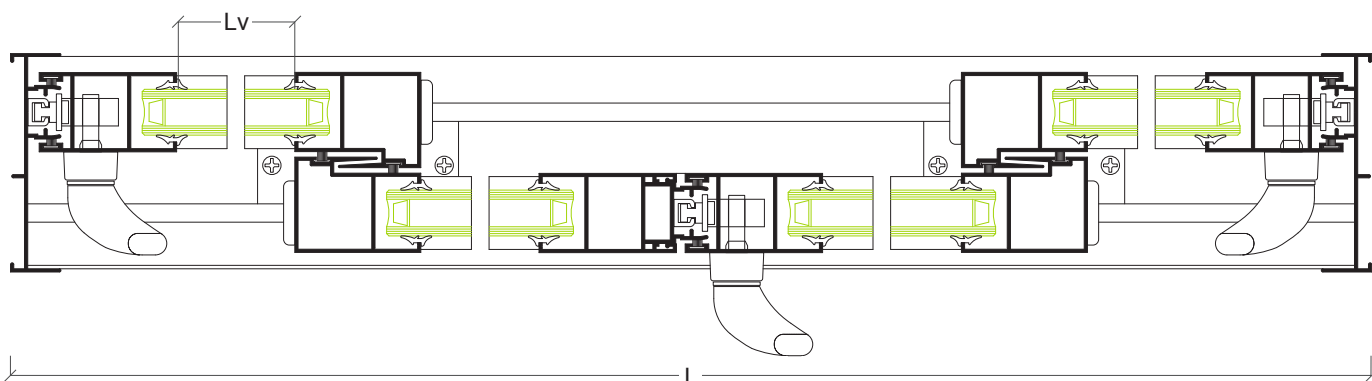
Desenho	Ref	Descrição	Corte	Quant	Medida
	CS-12	Padieira		1	L-15 mm
	CS-19	Soleira		1	L-15 mm
	CS-25	Ombreira		2	H
	CS-80	Móvel carrinho		2	L/2+4 mm
	CS-82	Almofada		2	L/2+4 mm
	CS-96	Móvel lateral		2	H-53 mm
	CS-86	Móvel central		2	H-53 mm
	CS-38	União 3/4F		1	H-44 mm

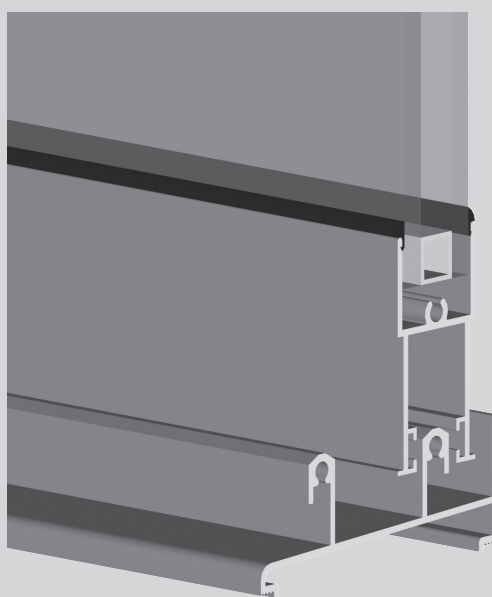
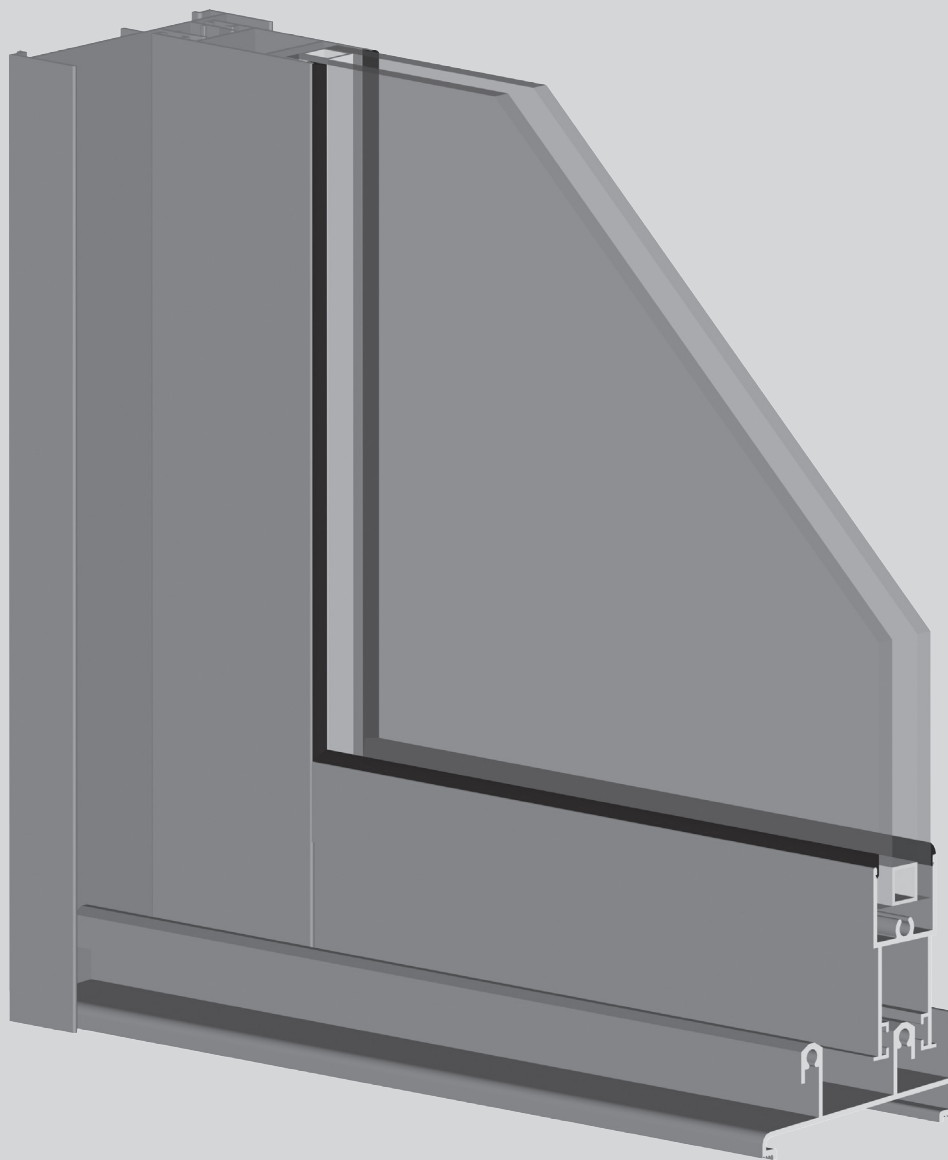
Acessórios e Juntas

Referência	Descrição	Quantidade
30 91 41 32	Barra 3 pontos (1670 mm)	3
30 97 10 12	Kit porta 2 folhas CS Euro	2
30 91 41 71	Topo limitador	2
30 91 41 52	Cremone desviado direito branco	2
30 91 41 54	Cremone desviado esquerdo branco	1
30 95 00 80	Pelúcia 7x5 mm	4L/6H
30 95 00 40	Pelúcia 7x5.5 mm	4H
---	Junta de vidro	4L/16H

Vidro

Hv = H-201 mm	Lv = L/4-65 mm
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Sistema
SR

Sistema SR

Sistema de correr - 70 mm

Características do sistema

Sistema de alumínio tradicional e sistema Euro para execução de vãos de correr.

Perfis de alumínio

Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.

Espessura média dos perfis de alumínio de 1.4 mm.

Aros fixos

Secção do aro fixo de 2 guias de 72 mm para montagem a corte recto;

Secção do aro fixo de 3 guias de 106.5 mm para montagem a corte recto.

Aros móveis

Secção dos aros móveis de 23.5 mm para montagem a corte recto.

Enchimento de 4 mm a 16 mm;

Dimensionamento e manobralidade

Possibilidades de abertura: 1, 2, 3, 4 e 6 folhas, com folhas móveis e/ou fixas;

Performances

Sistema certificado por laboratório notificado do ensaio tipo inicial (ITT) de acordo com a norma de produto EN 14351-1 para efeitos de Marcação CE.

Categorias alcançadas na avaliação do sistema SR:

1. Permeabilidade ao ar: Classe 3 (norma de ensaio EN 1026)
2. Estanquidade à água: Classe 6A (norma de ensaio EN 1027)
3. Resistência ao vento: Classe C2 (norma de ensaio EN 12211)

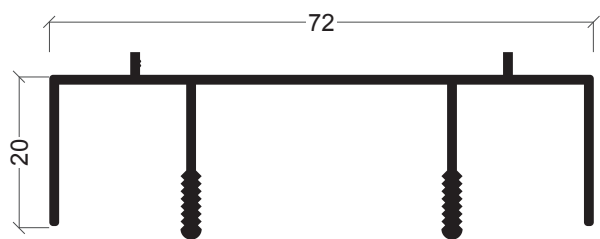
Coefficiente de transmissão térmica de vão de 2 folhas com 1.60 m x 2.00 m com vidro $U_g = 2.1 \text{ W/m}^2\text{K}$:

• $U_w = 3.33 \text{ W/m}^2\text{K}$

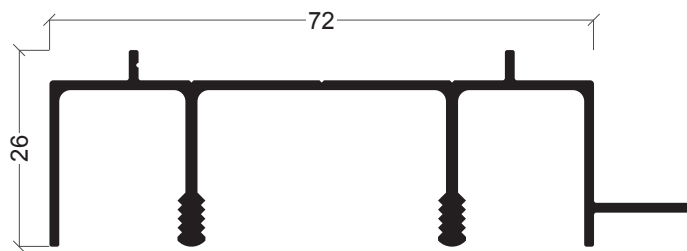
Coefficiente de atenuação acústica de vão de 2 folhas com vidro 4/8/4:

• $R_w (C; C_{tr}) = 28 \text{ dB} (-1; -1)$

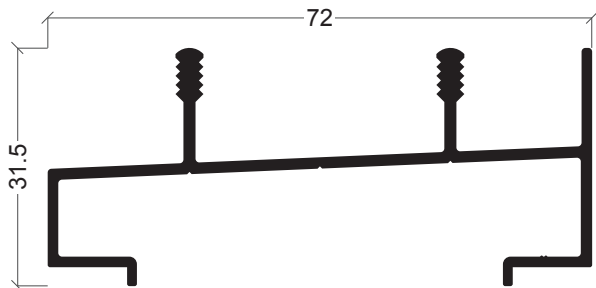
Zonas de aplicação segundo RCCTE (em função do valor U_g): I1, I2, I3, V1, V2, V3;



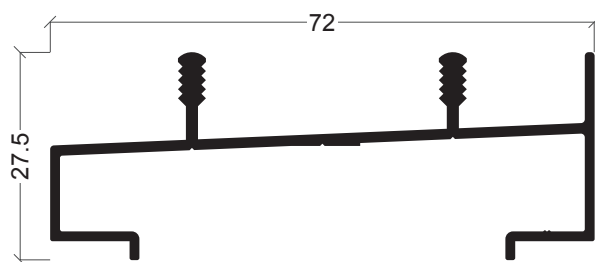
SR-01
Padieira



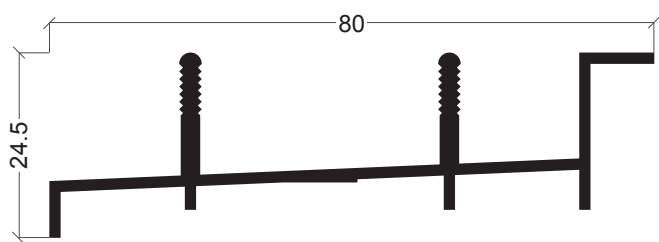
SR-31
Padieira



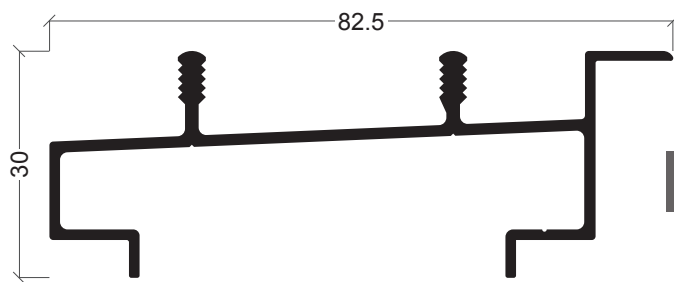
SR-16
Soleira



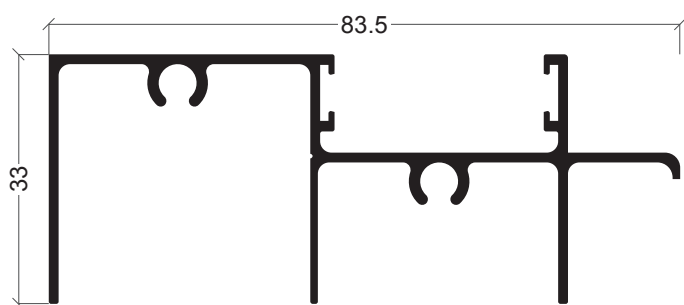
SR-16A
Soleira



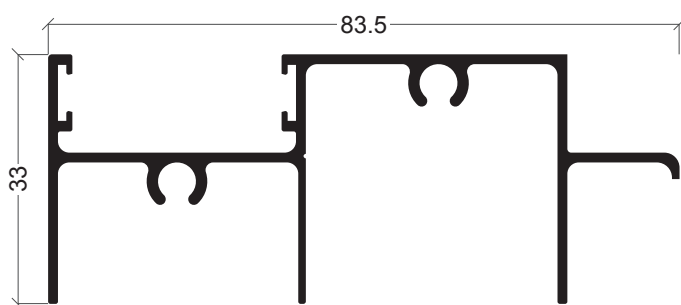
SR-02
Soleira



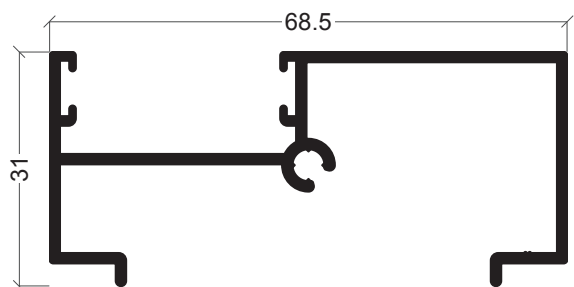
SR-26
Soleira



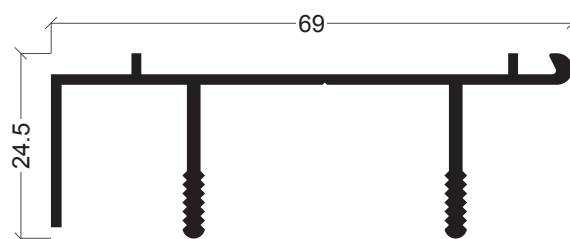
SR-34
Ombreira



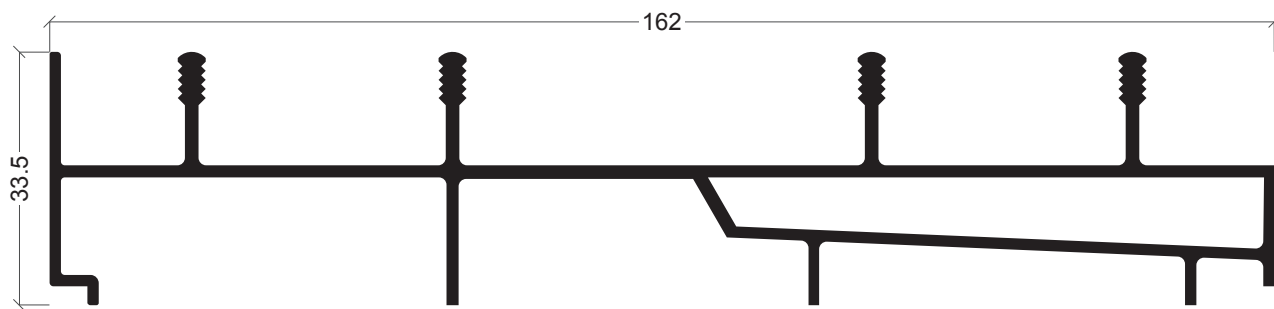
SR-44
Ombreira



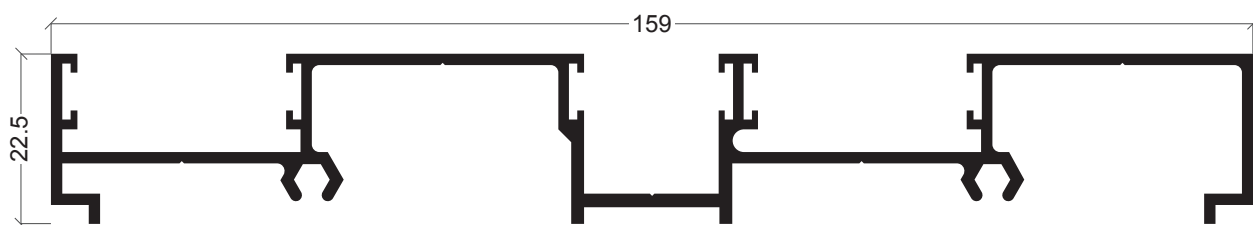
SR-04
Ombreira



SR-51
Padieira janela dupla

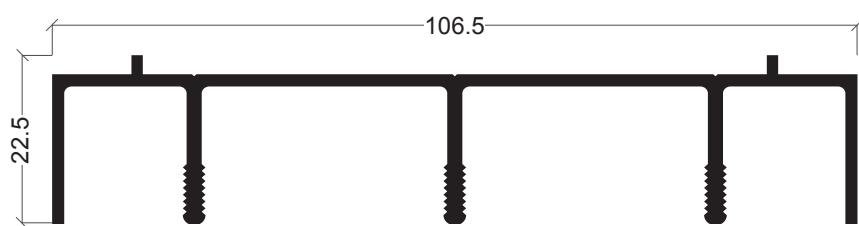


SR-56
Soleira janela dupla

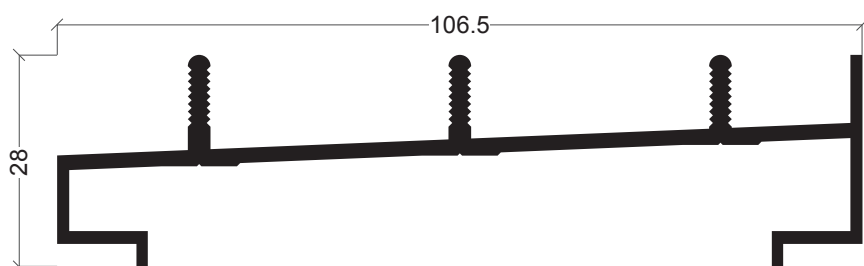


SR-54
Ombreira janela dupla

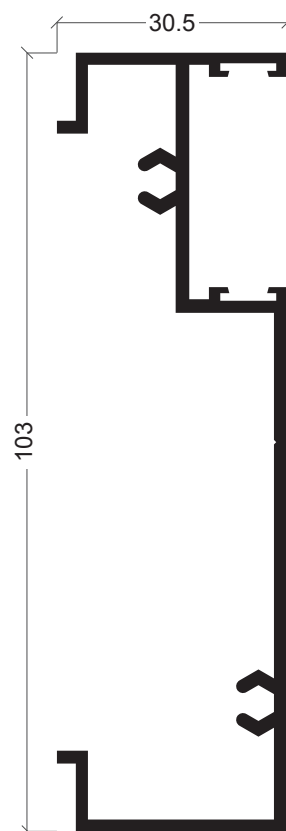
426



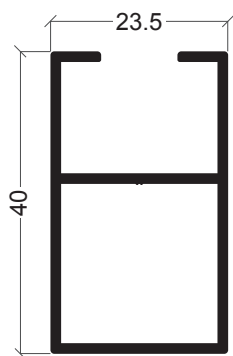
SR-81
Padeira tri-rail



SR-86
Soleira tri-rail

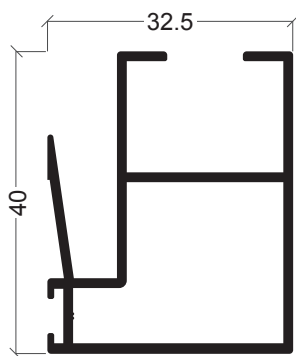


SR-84
Ombreira tri-rail



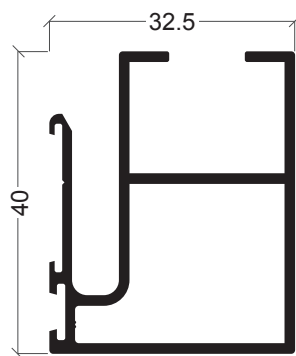
SR-05

Aro móvel lateral



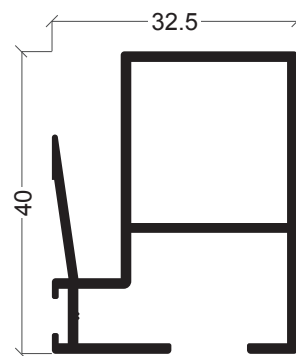
SR-06

Aro móvel central



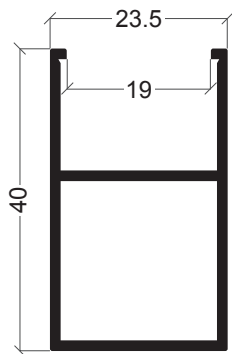
SR-06A

Aro móvel central



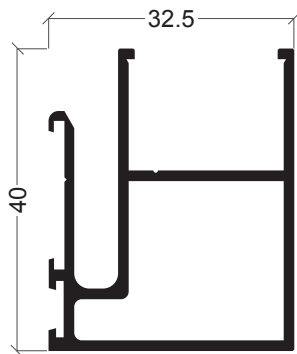
SR-07

Aro móvel central 3F



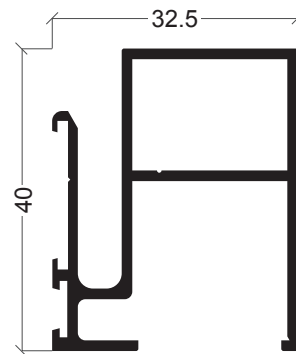
SR-65

Aro móvel lateral



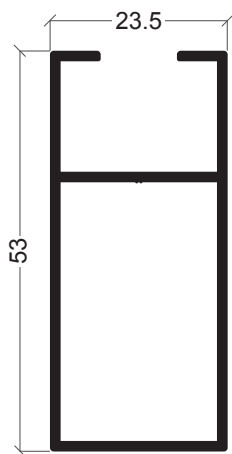
SR-66

Aro móvel central



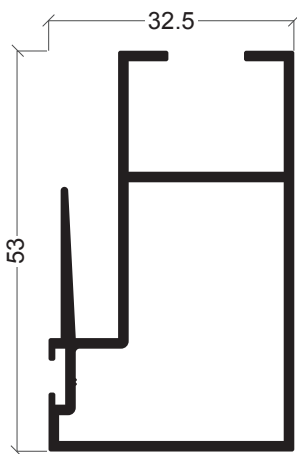
SR-67

Aro móvel central 3F



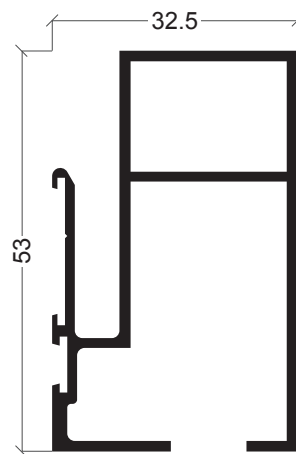
SR-17

Aro móvel lateral



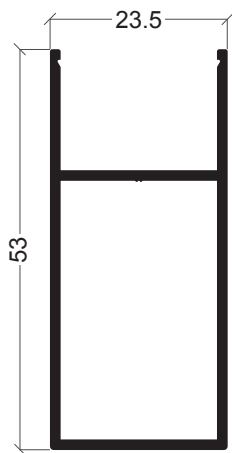
SR-18

Aro móvel central



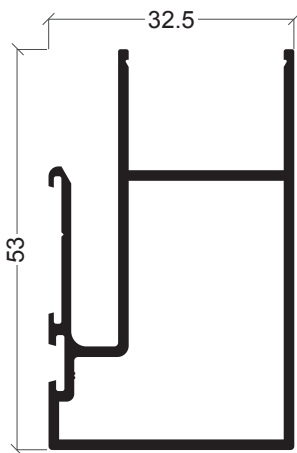
SR-20

Aro móvel central 3F



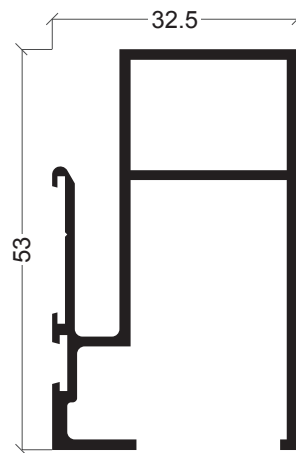
SR-27

Aro móvel lateral



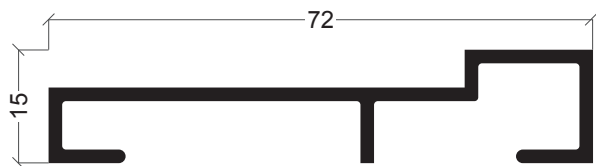
SR-28

Aro móvel central

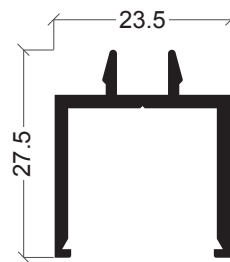


SR-30

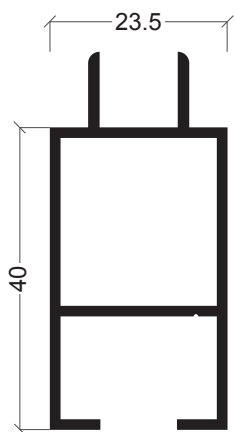
Aro móvel central 3F



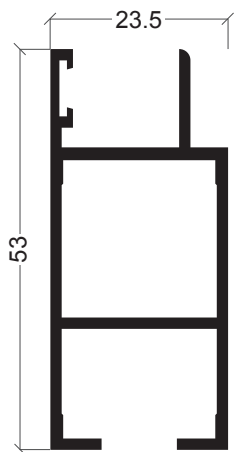
SR-15
União de aros



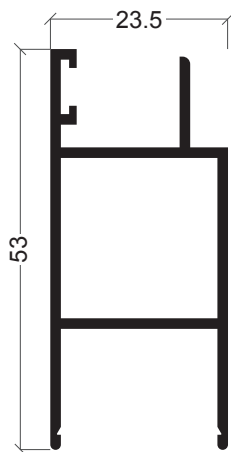
SR-21
Perfil vidro duplo



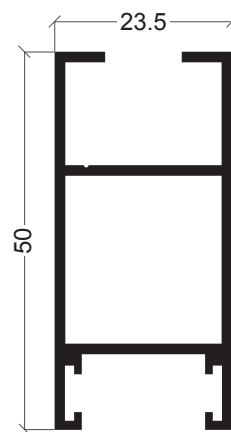
SR-08
Aro móvel



SR-08A
Aro móvel

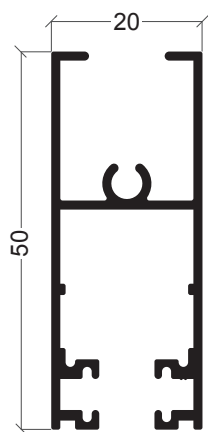


SR-78
Aro móvel

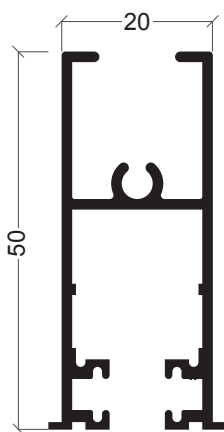


SR-09
Aro móvel

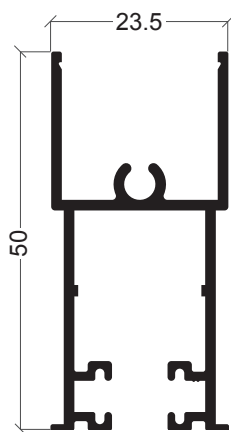
428



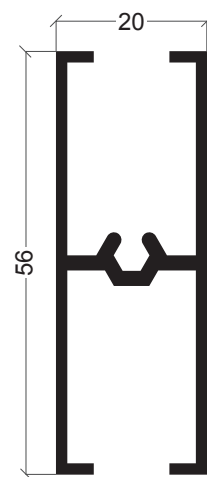
SR-10
Aro móvel carrinho



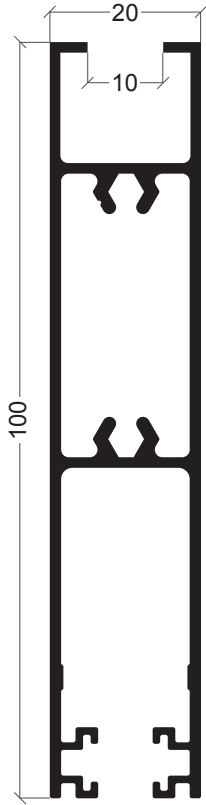
SR-10A
Aro móvel carrinho



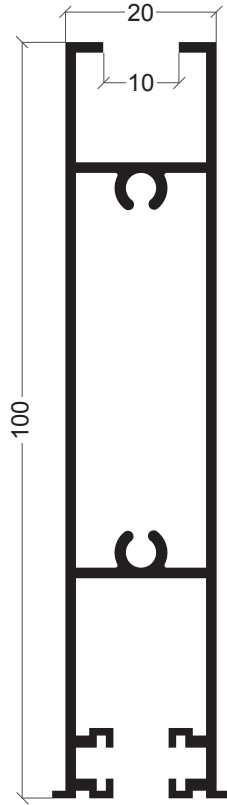
SR-70
Aro móvel carrinho



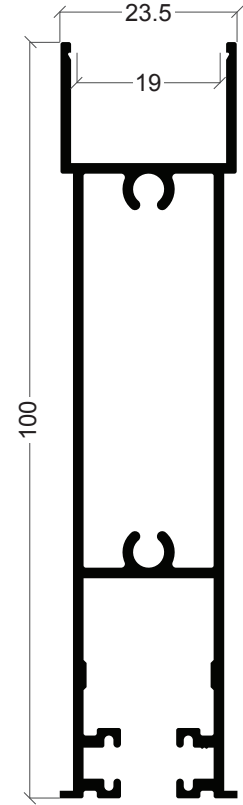
SR-13
Travessa



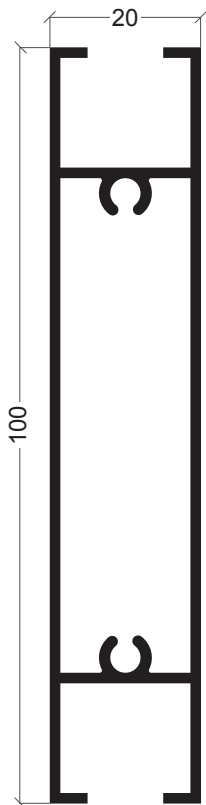
SR-12
Almofoada carrinho



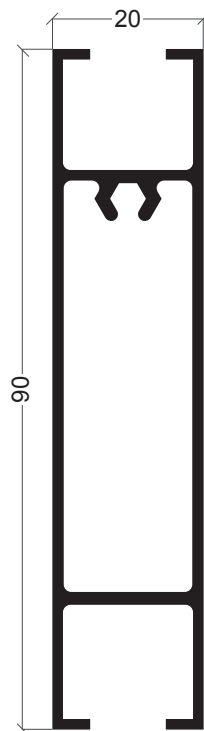
SR-12A
Almofoada carrinho



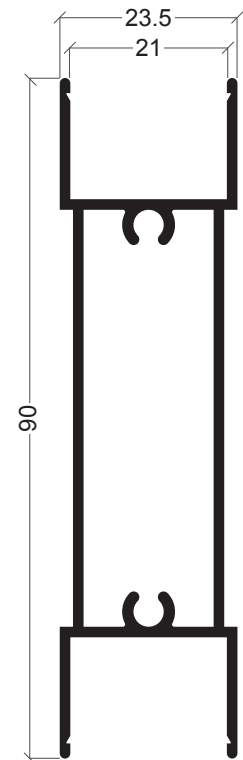
SR-72
Almofoada carrinho



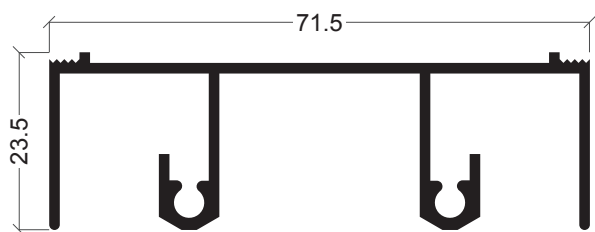
SR-11
Travessa



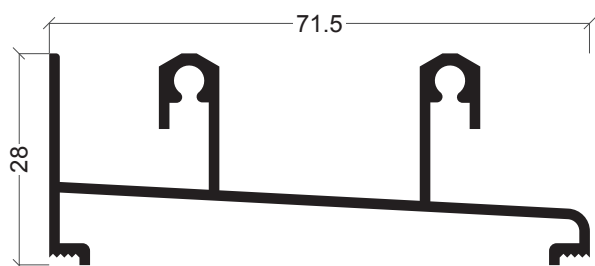
SR-11A
Travessa



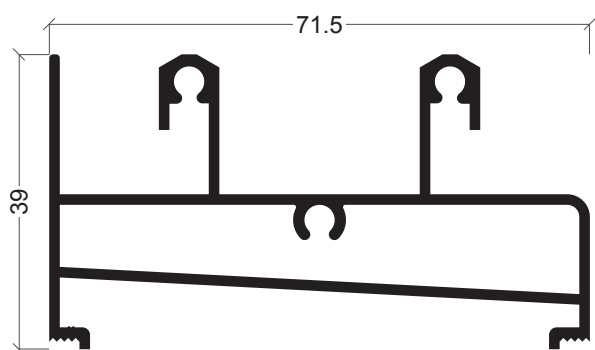
SR-71
Travessa



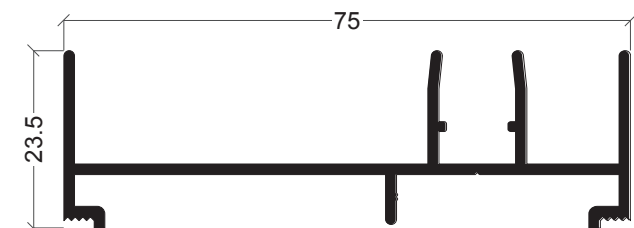
SR-41
Padieira



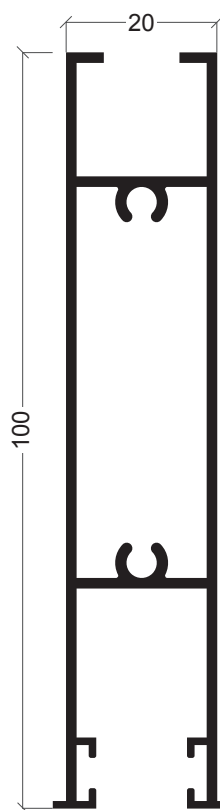
SR-42
Soleira



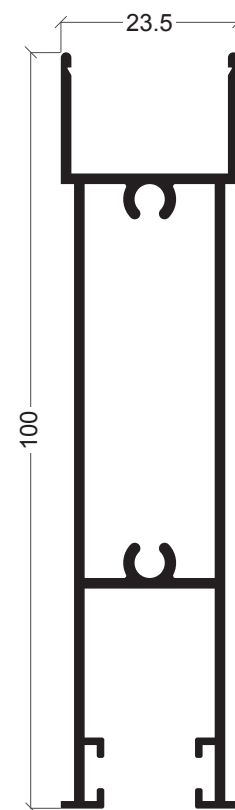
SR-46
Soleira



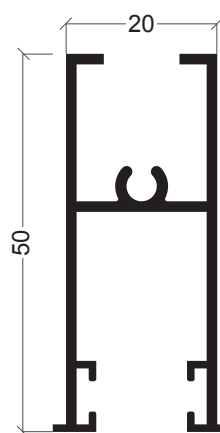
SR-24
Ombreira



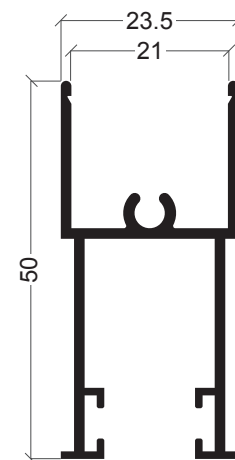
SR-32
Almofada carrinho



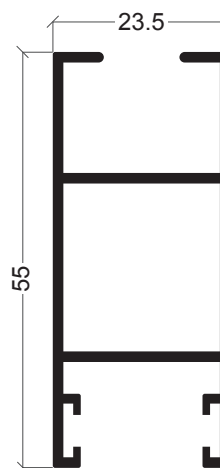
SR-82
Almofada carrinho



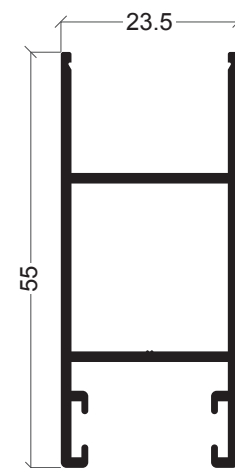
SR-40
Aro móvel carrinho



SR-80
Aro móvel carrinho



SR-35
Aro móvel lateral



SR-45
Aro móvel lateral

Fachada Estrutural

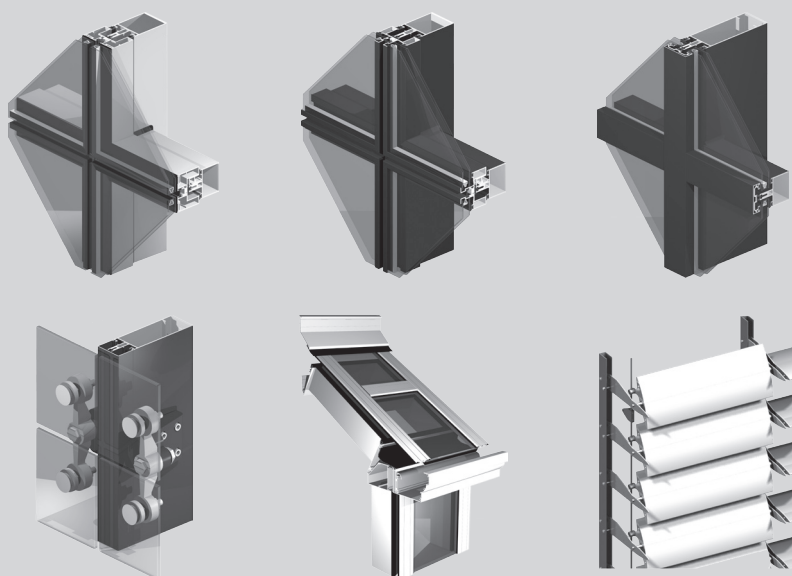
Fachada Semi-Estrutural

Fachada Muro Invertido

Fachada Milénio

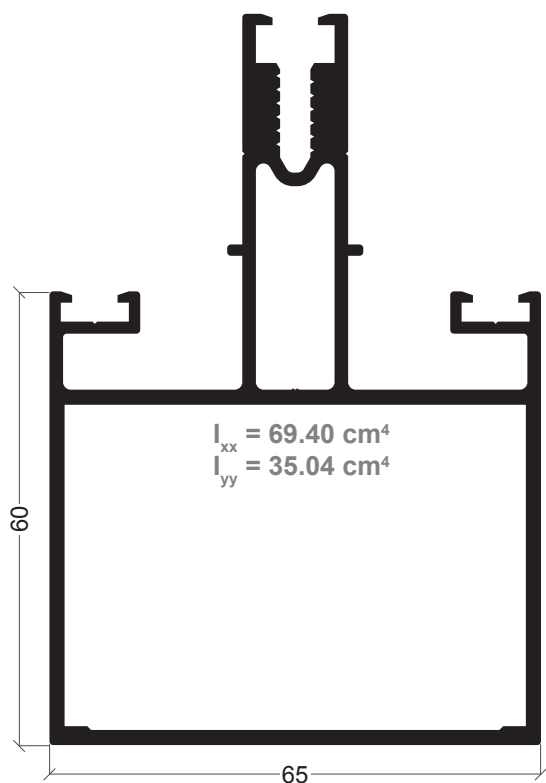
Sistema Ergolux

Lâminas Quebra Sol

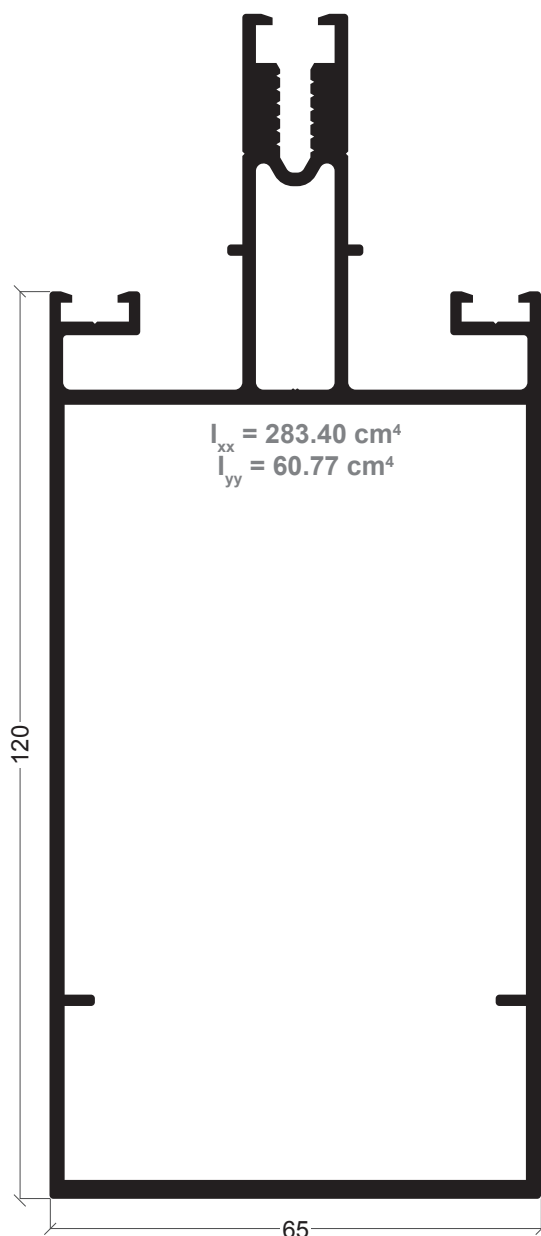


Sistema

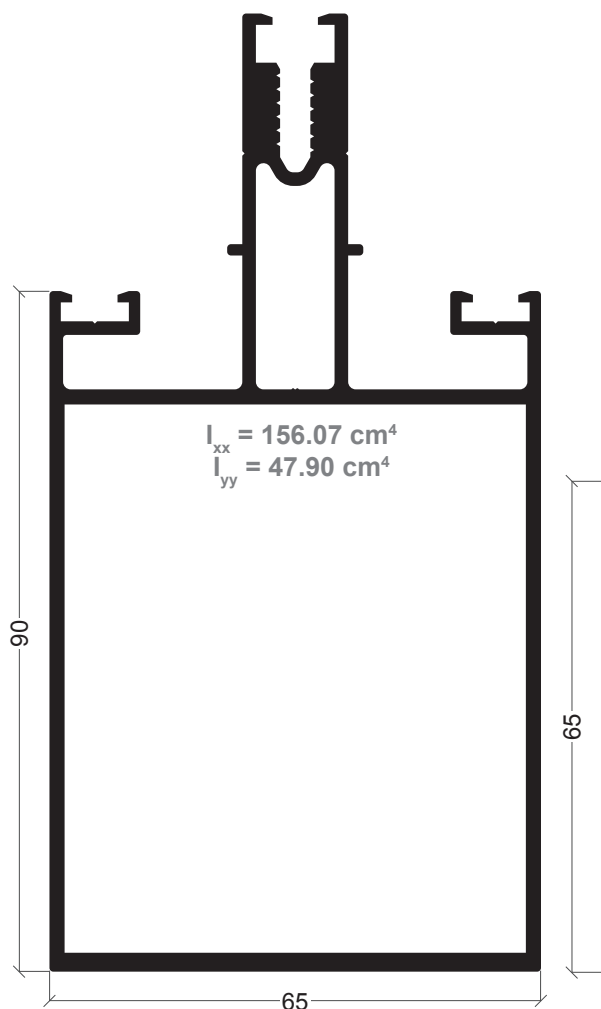
FL



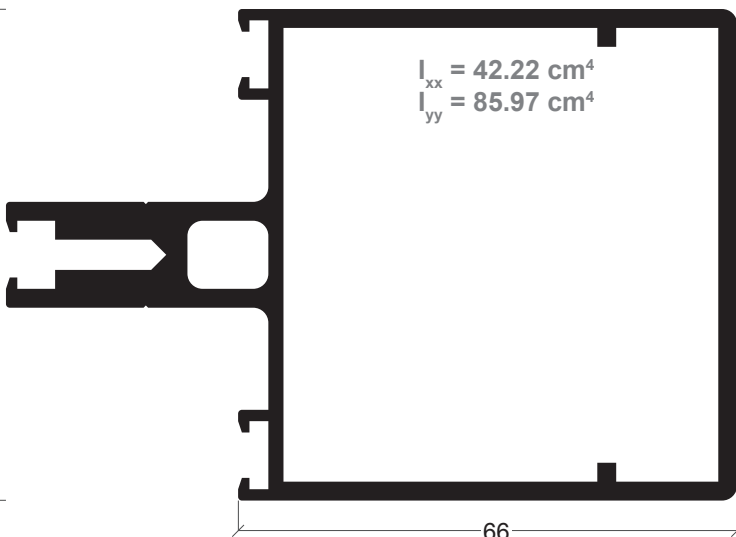
FL-14
Montante de 60 mm



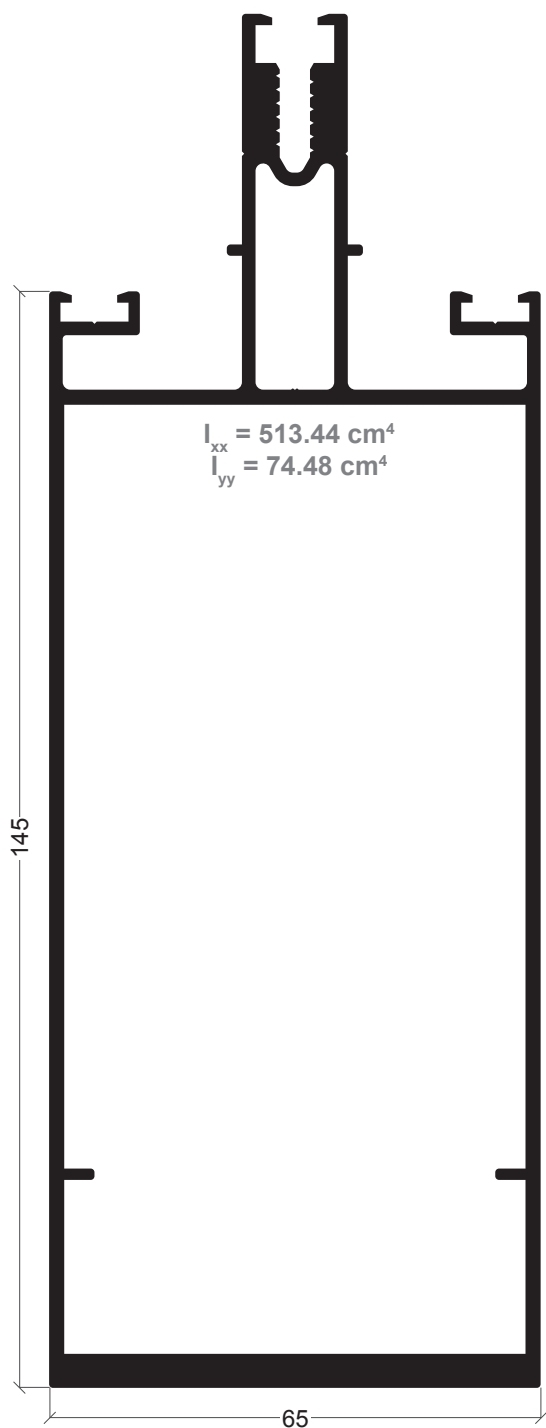
FL-13
Montante de 120 mm



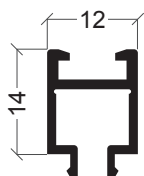
FL-10
Montante de 90 mm



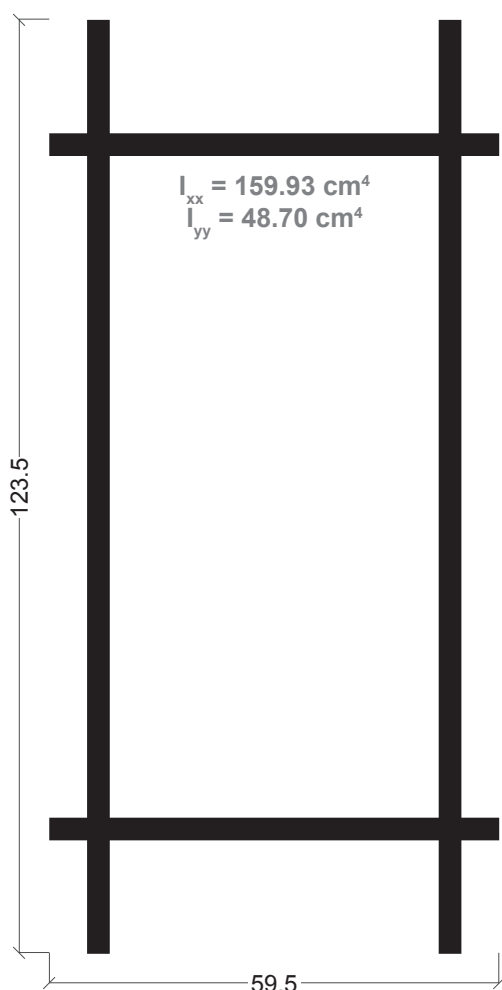
FL-80
Travessa 66 mm



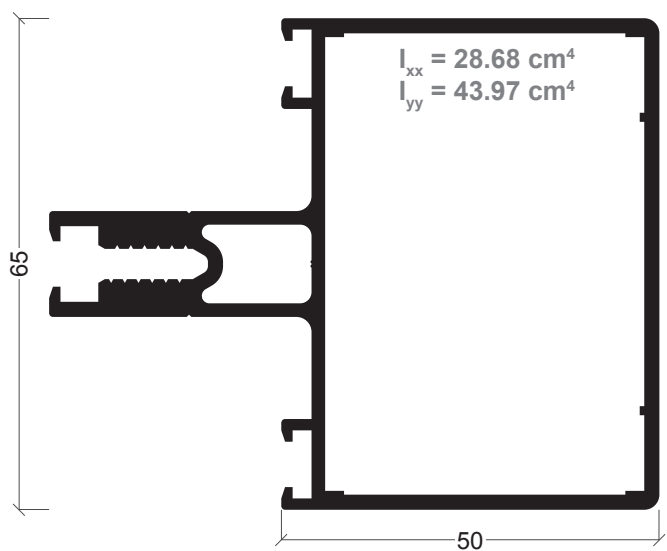
FL-11
Montante de 145 mm



FL-32
Suplemento

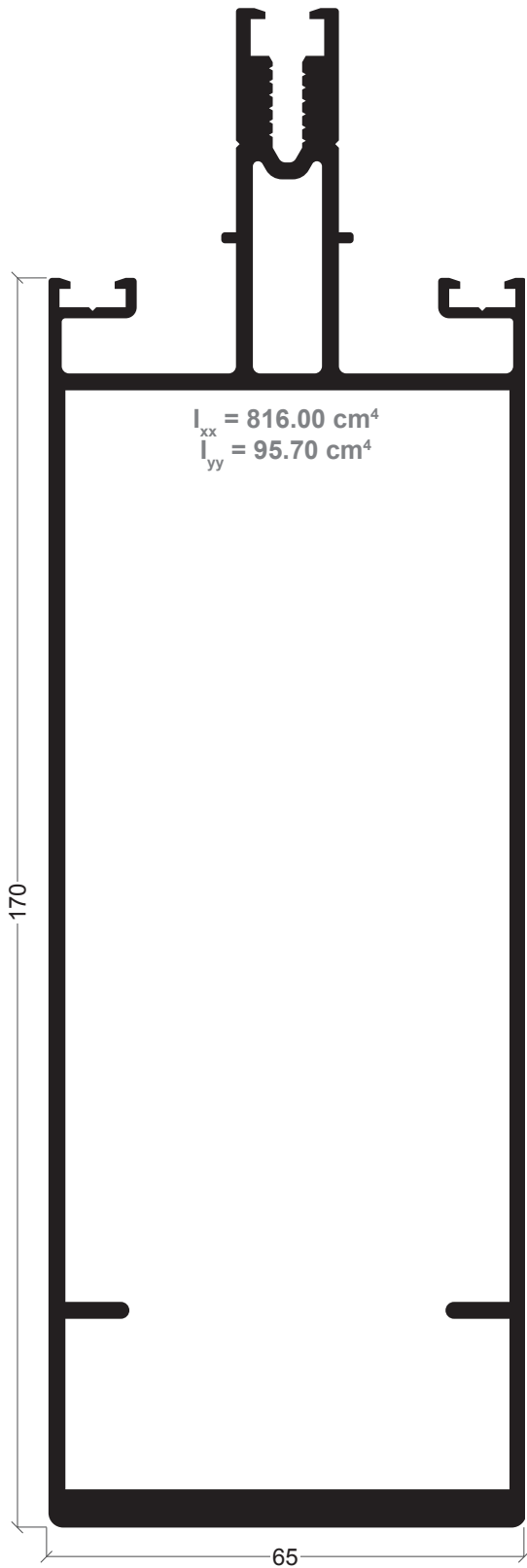


FL-20
União de montantes

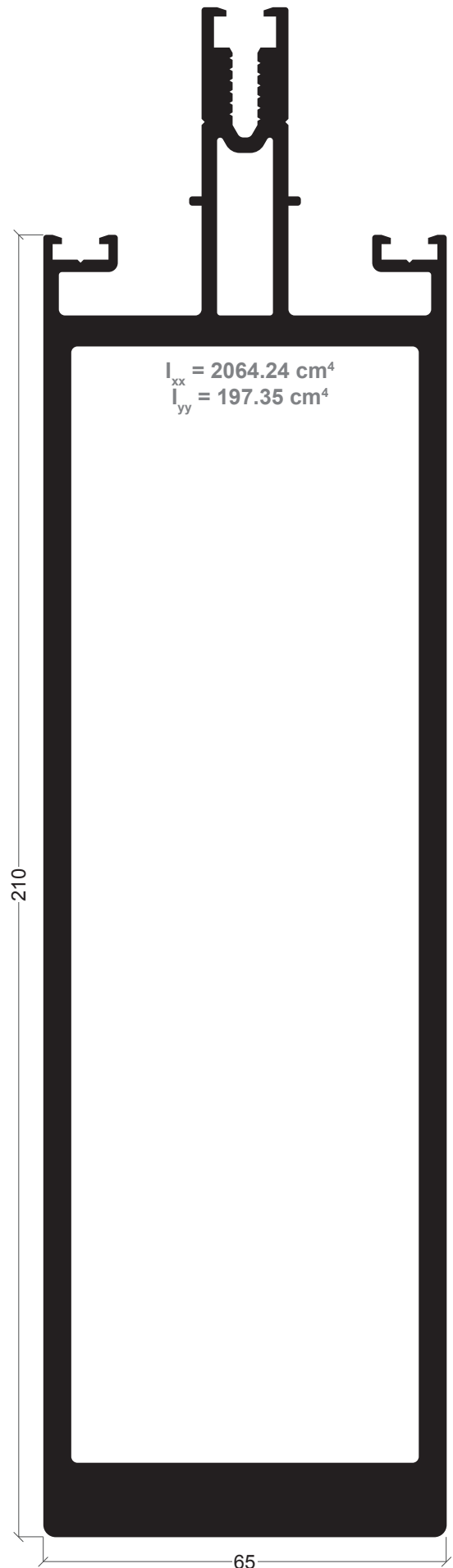


FL-12
Travessa 50 mm

434

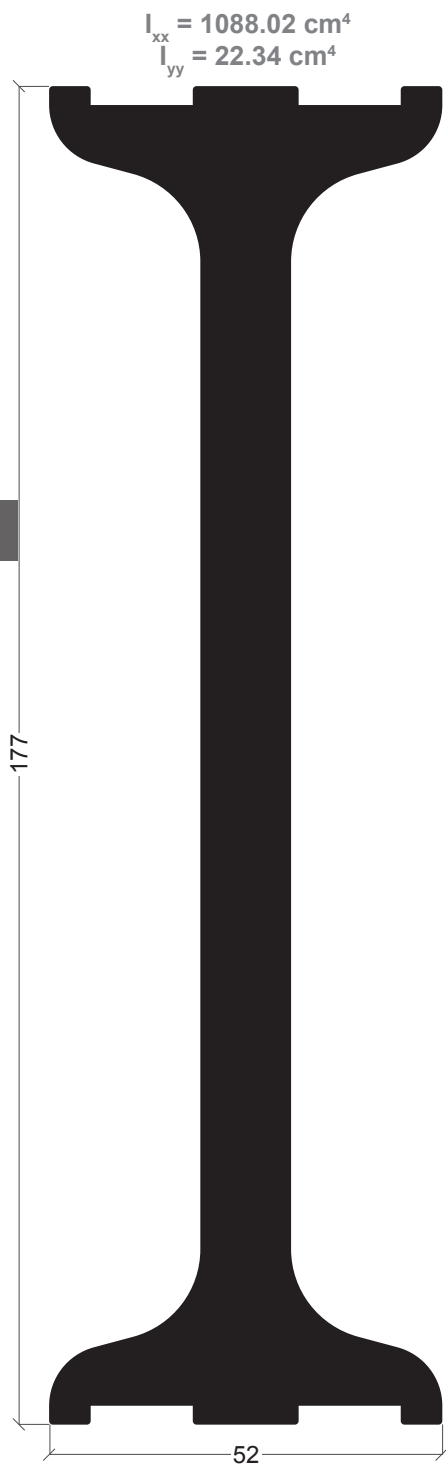


FL-70
Montante de 170 mm

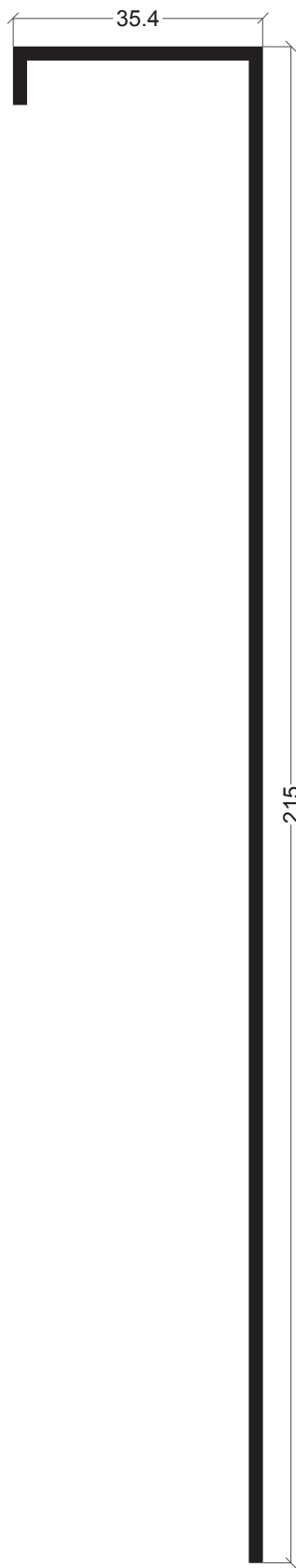


FL-34
Montante de 210 mm

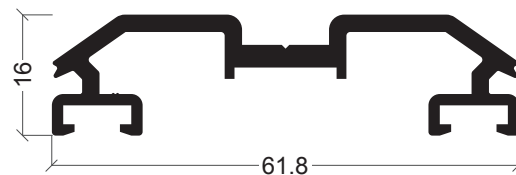
436



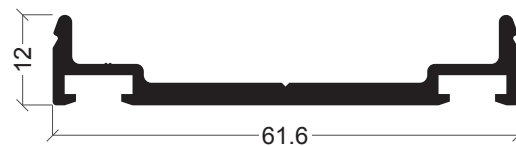
FL-40
IPN de reforço



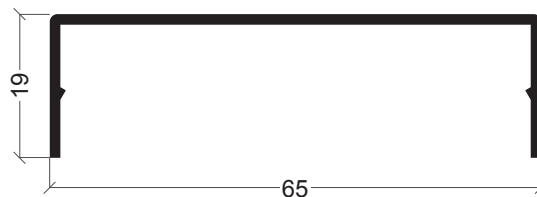
FL-21
Remate



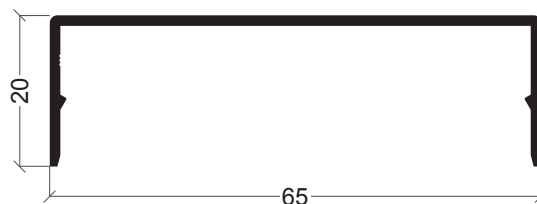
FL-07
Contra tampa



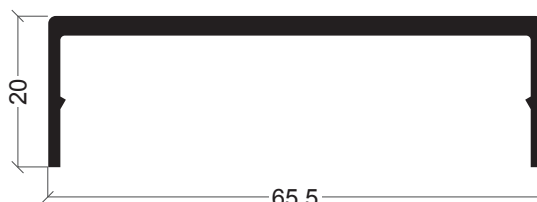
FL-35
Contra tampa



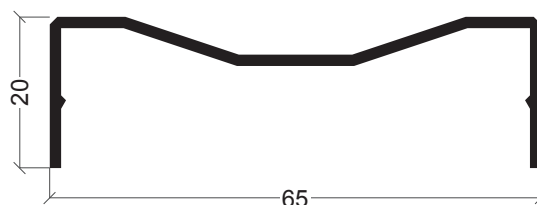
FL-08
Tampa vertical



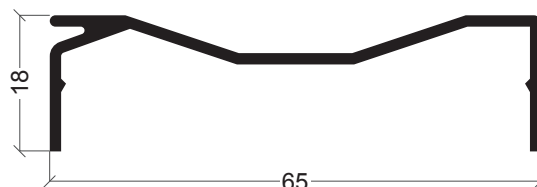
FL-09
Tampa vertical



FL-33
Tampa vertical



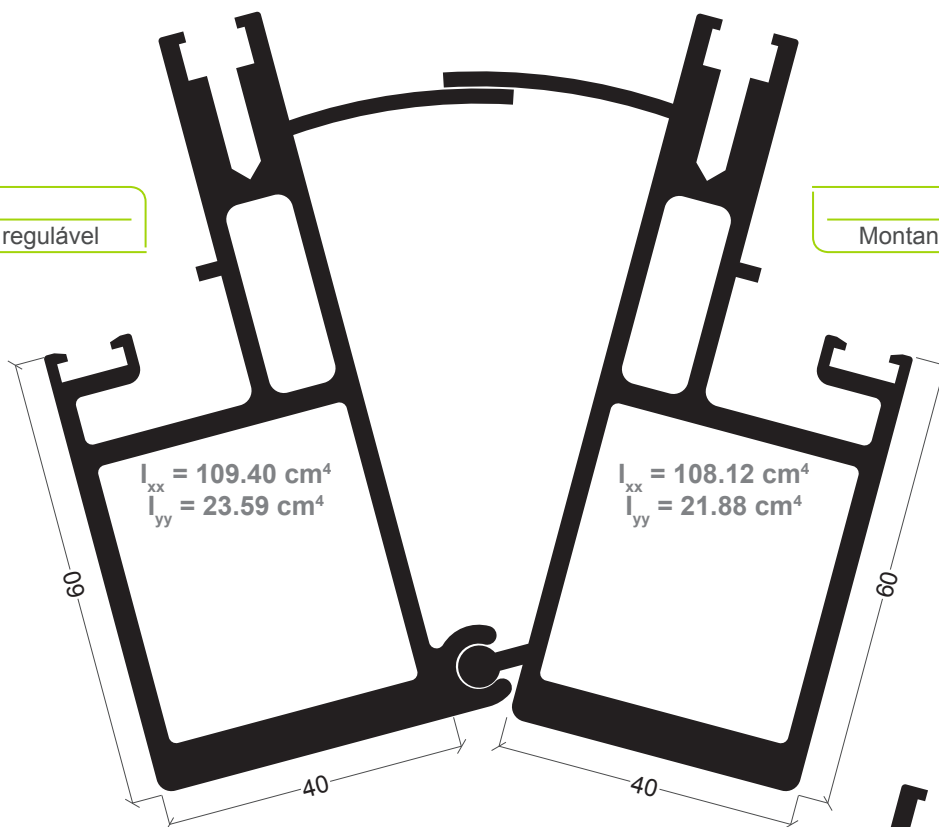
FL-36
Tampa trapezoidal vertical



FL-37
Tampa trapezoidal horizontal

FL-05

Montante 60 mm regulável



$$I_{xx} = 109.40 \text{ cm}^4$$

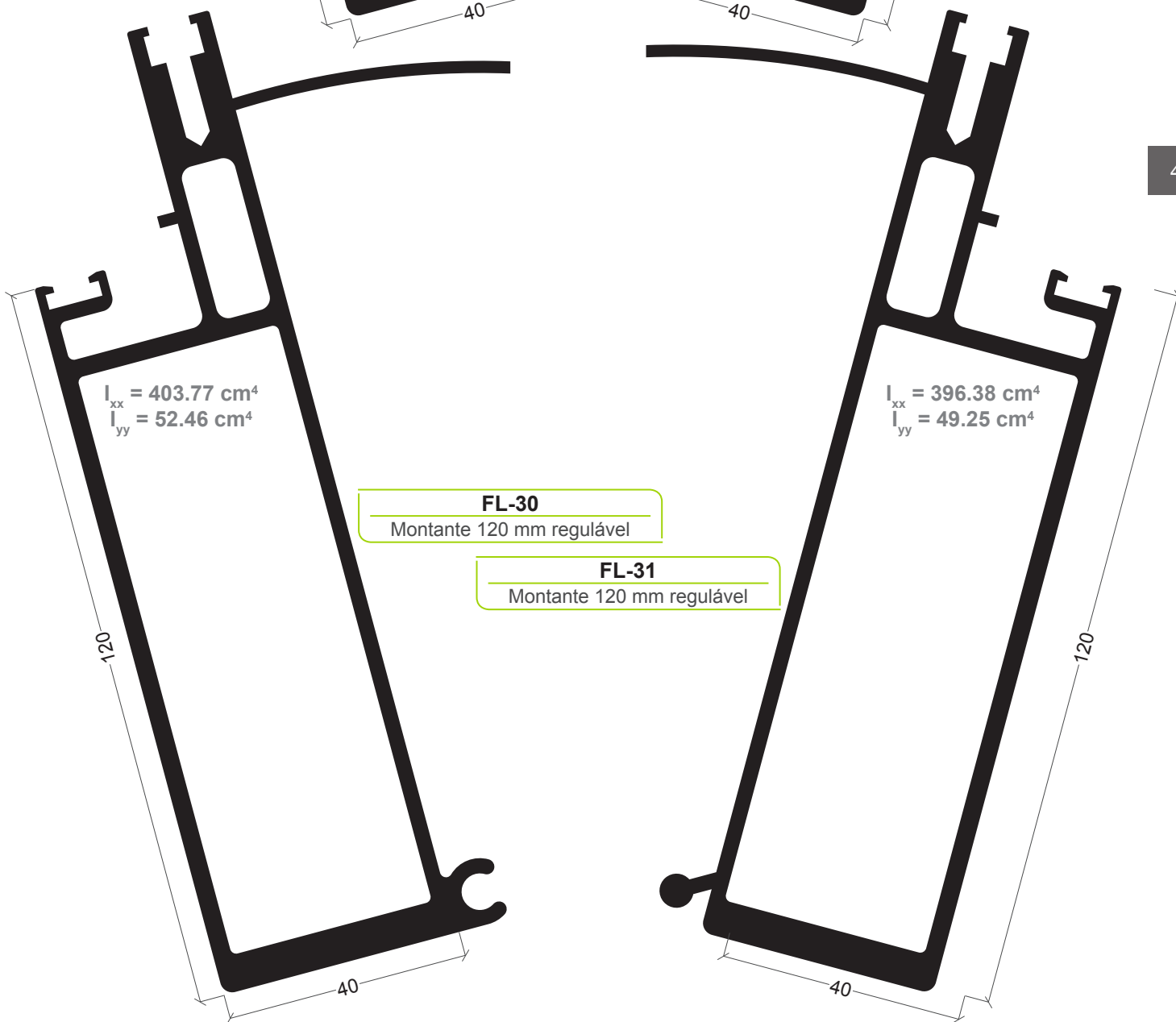
$$I_{yy} = 23.59 \text{ cm}^4$$

$$I_{xx} = 108.12 \text{ cm}^4$$

$$I_{yy} = 21.88 \text{ cm}^4$$

FL-04

Montante 60 mm regulável



$$I_{xx} = 403.77 \text{ cm}^4$$

$$I_{yy} = 52.46 \text{ cm}^4$$

$$I_{xx} = 396.38 \text{ cm}^4$$

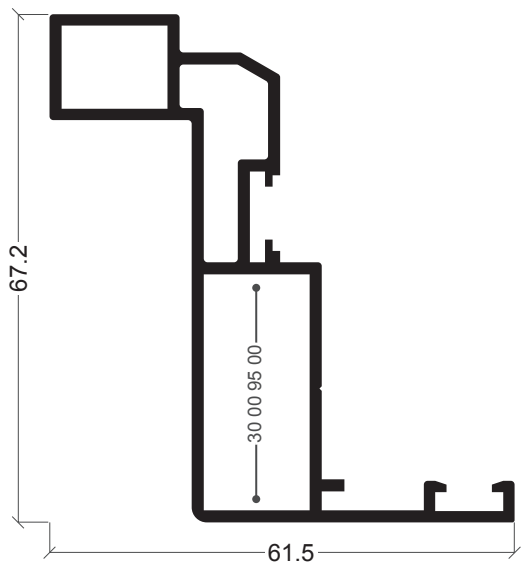
$$I_{yy} = 49.25 \text{ cm}^4$$

FL-30

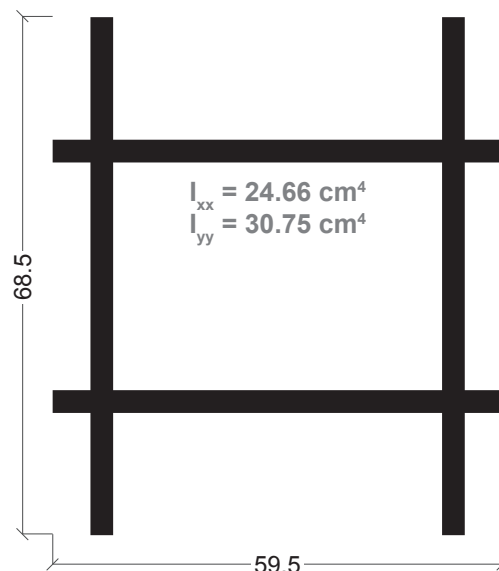
Montante 120 mm regulável

FL-31

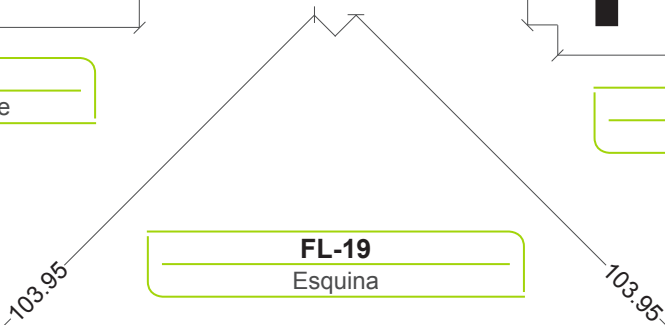
Montante 120 mm regulável



FL-25
Aro fixo projectante

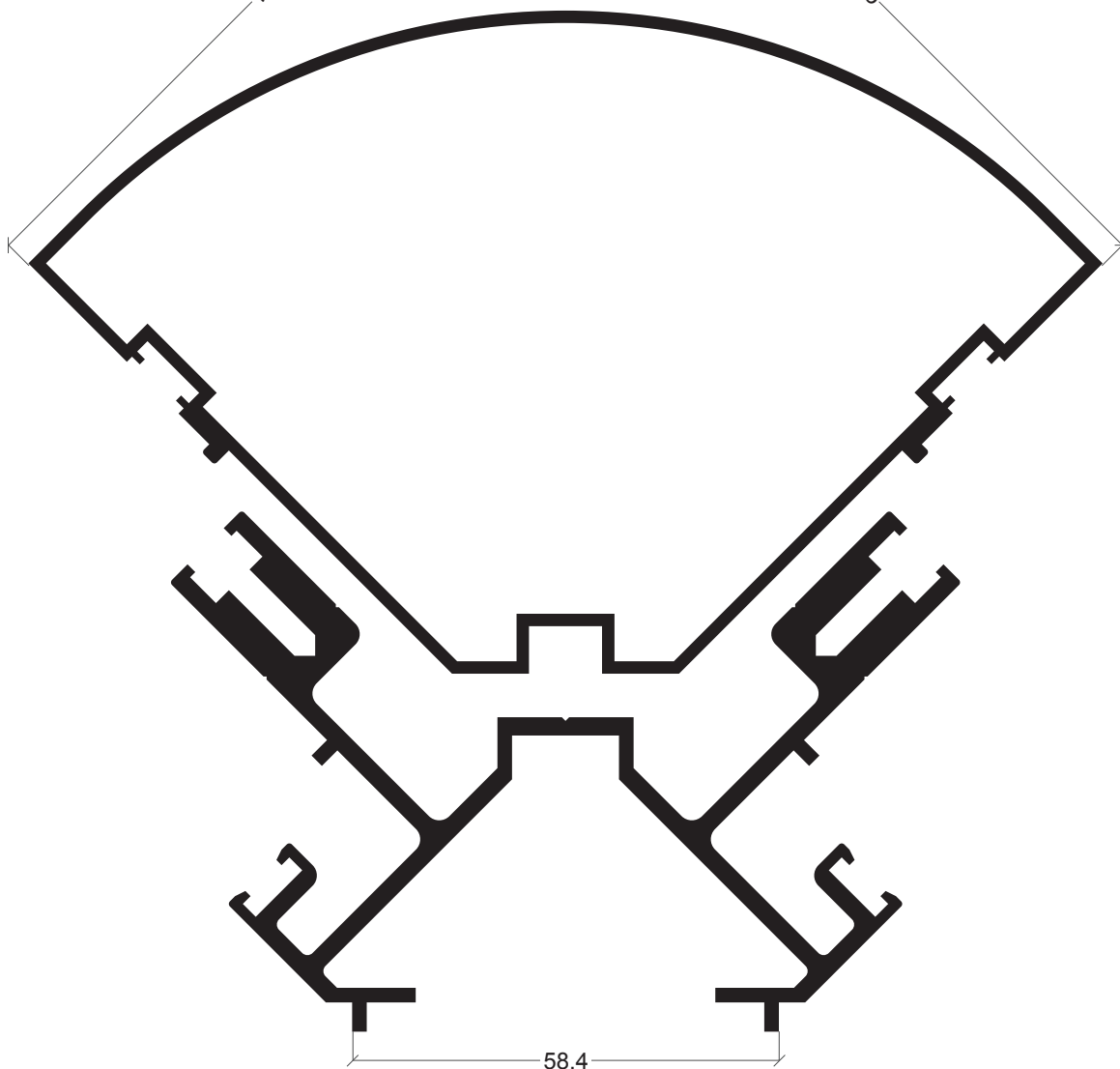


FL-38
União de montantes

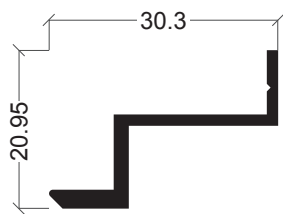


FL-19
Esquina

438



FL-18
Fixador de esquina



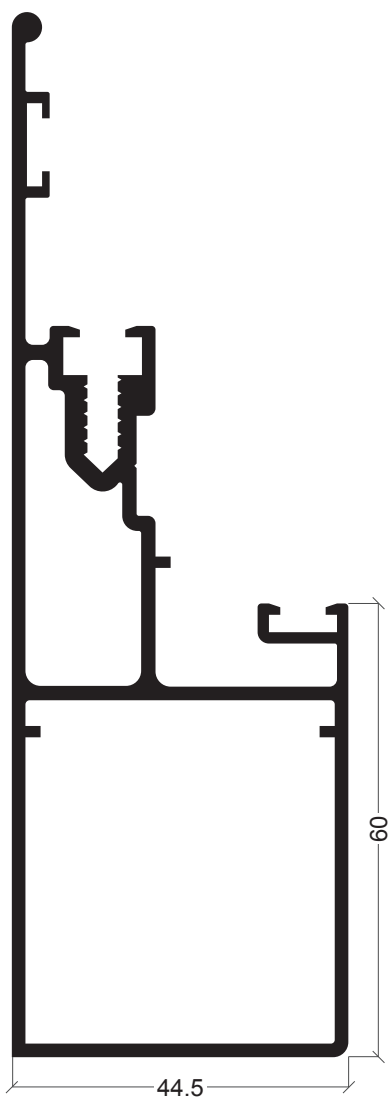
FL-39

Perfil de segurança



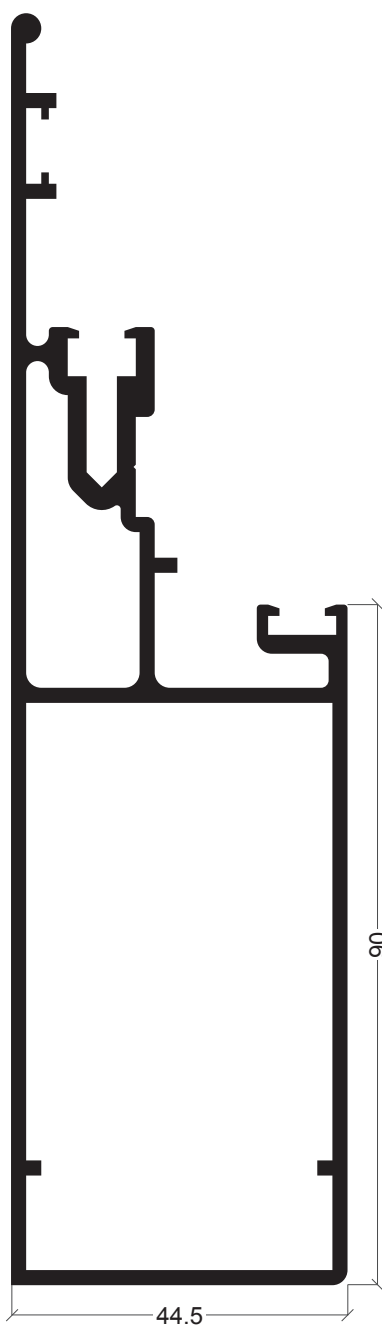
AX-19

Vareta



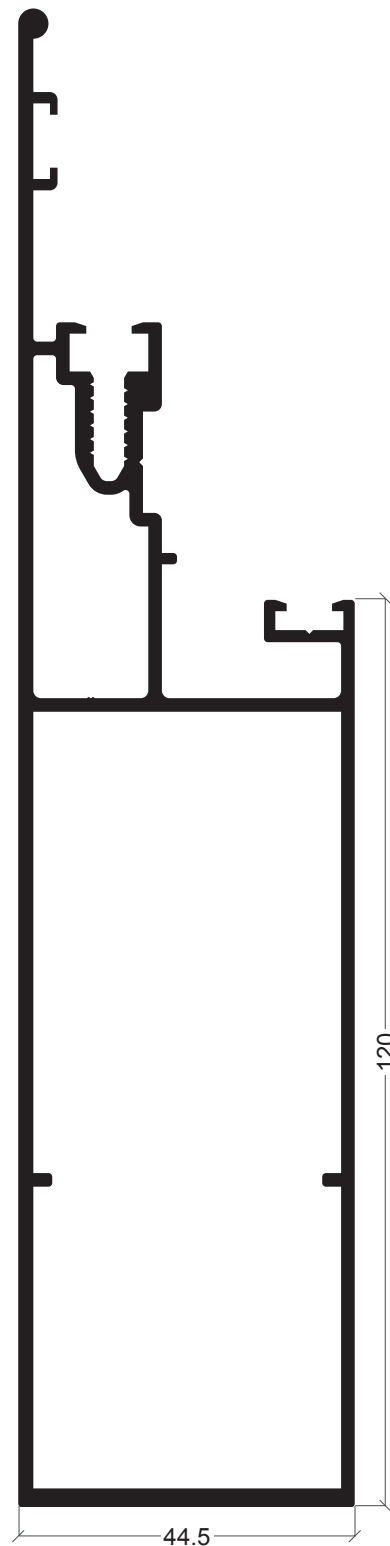
FL-17

Montante remate 60 mm



FL-77

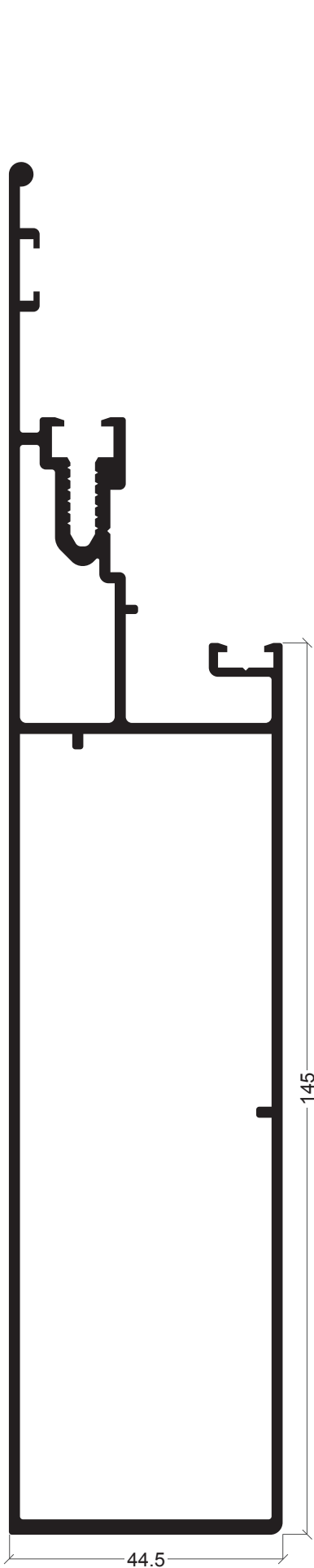
Montante remate 90 mm



FL-16

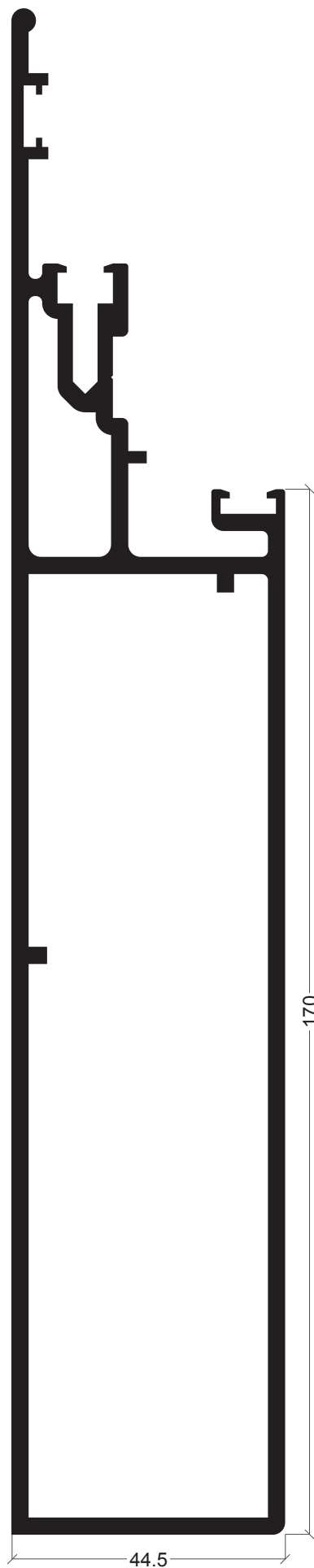
Montante remate 120 mm

440



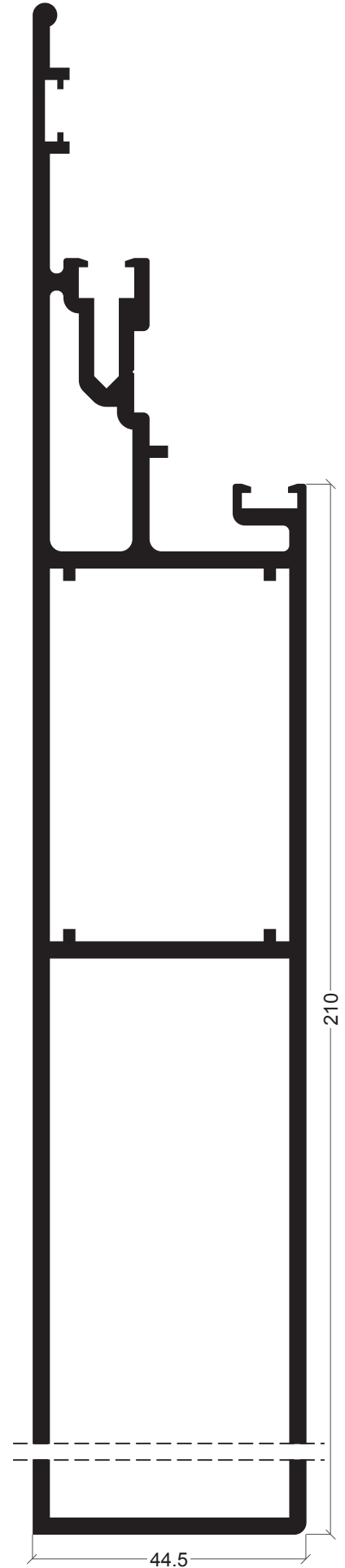
FL-15

Montante remate 140 mm



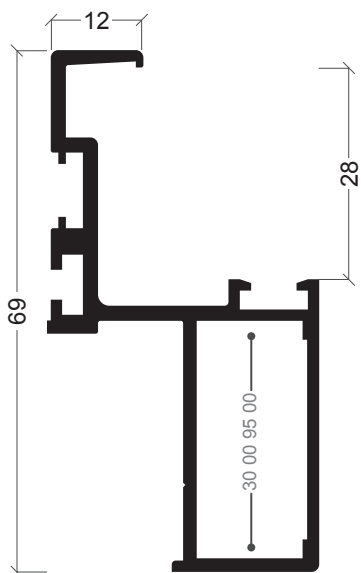
FL-79

Montante remate 170 mm

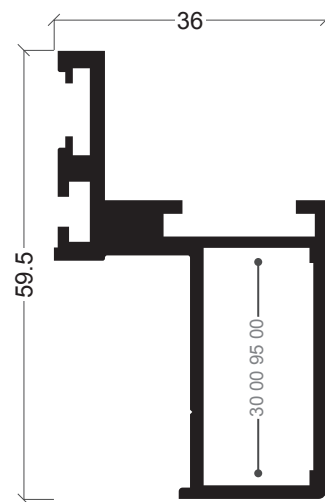


FL-78

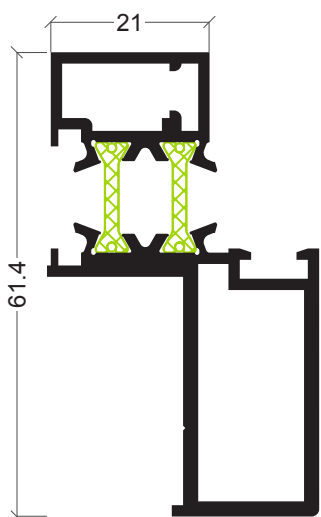
Montante remate 210 mm



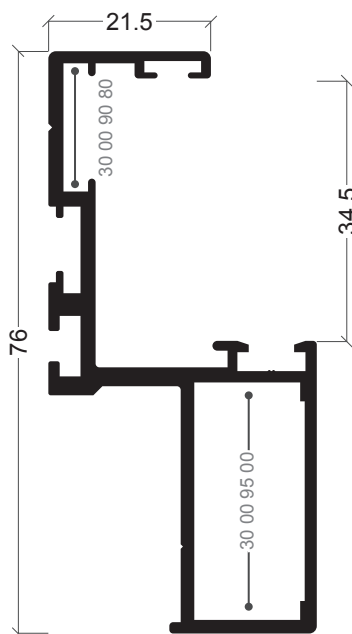
FL-03
Folha semi-estrutural



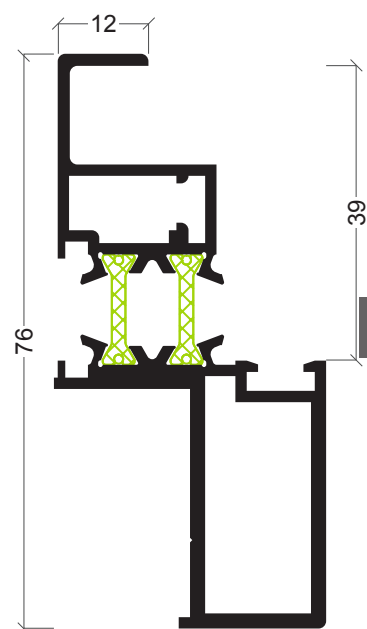
FL-06
Folha estrutural



FL-27
Folha estrutural

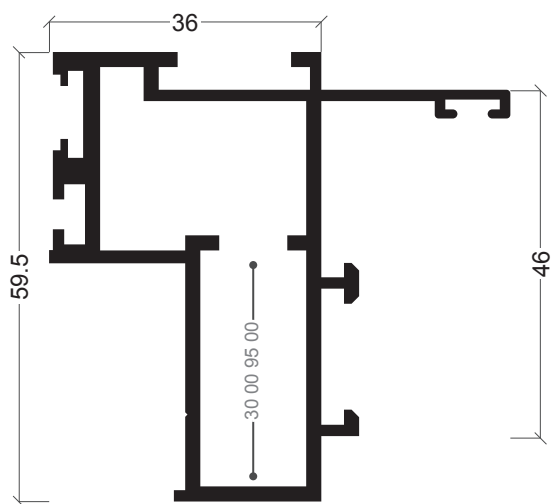


FL-85
Folha semi-estrutural

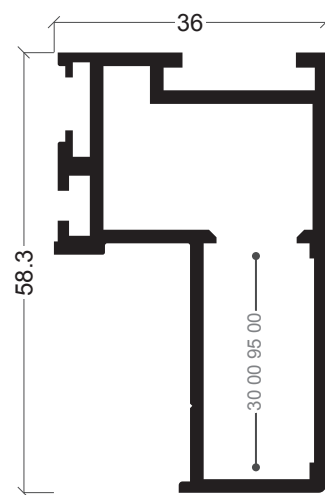


FL-28
Folha semi-estrutural

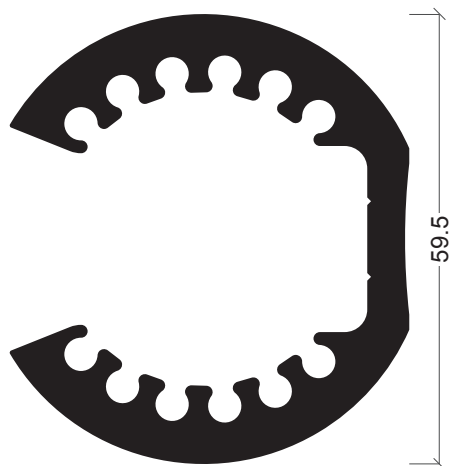
441



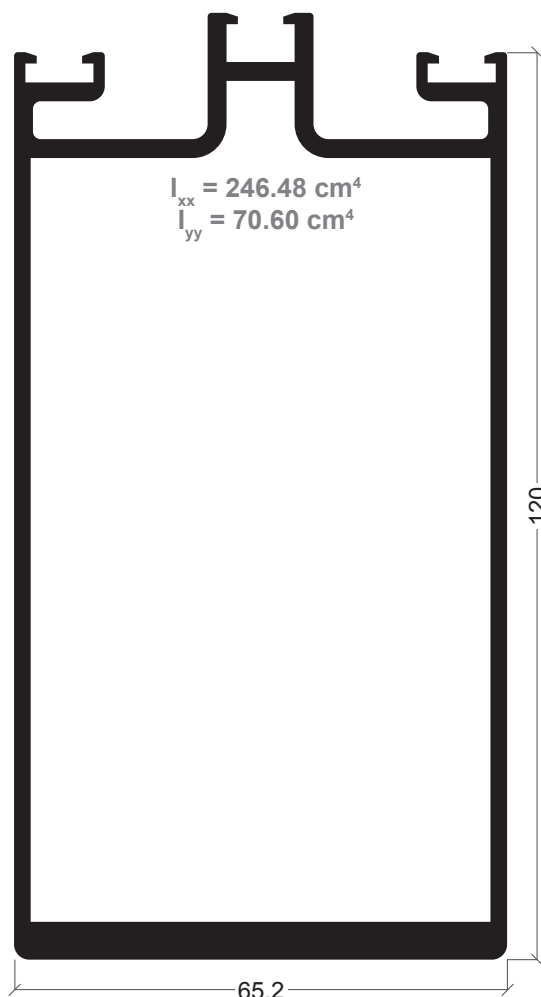
FL-26
Folha estrutural



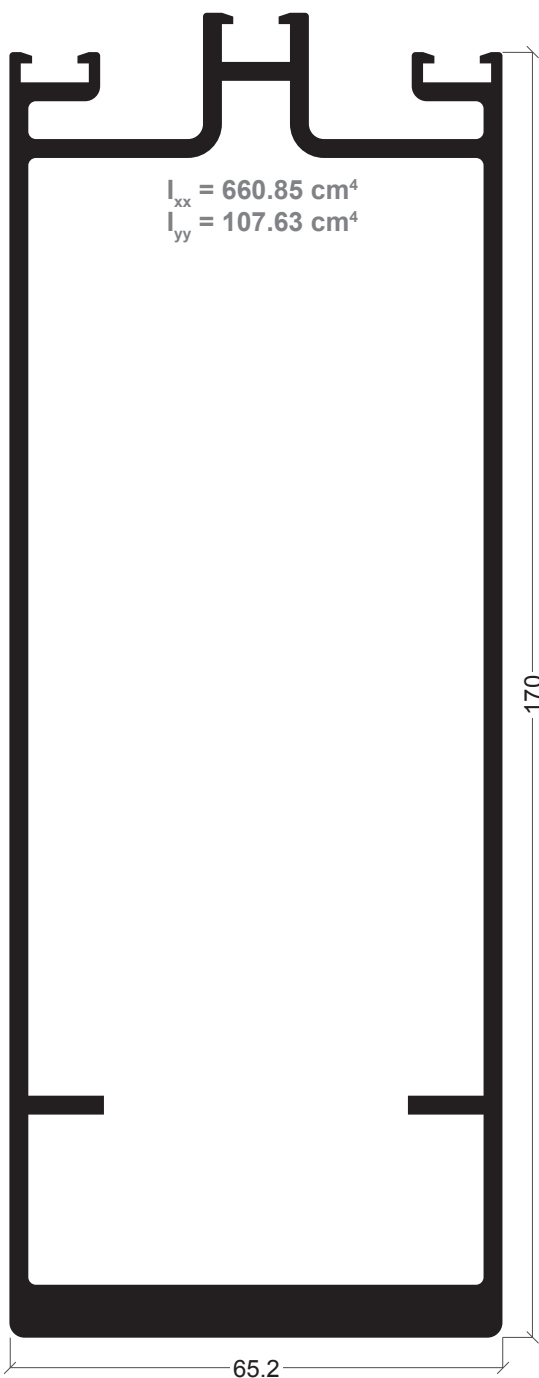
FL-71
Folha estrutural



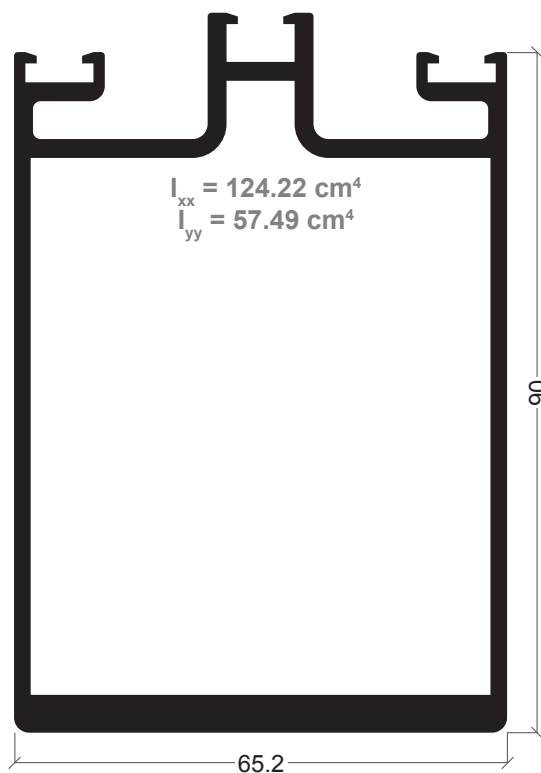
FL-69
Topo de fixação



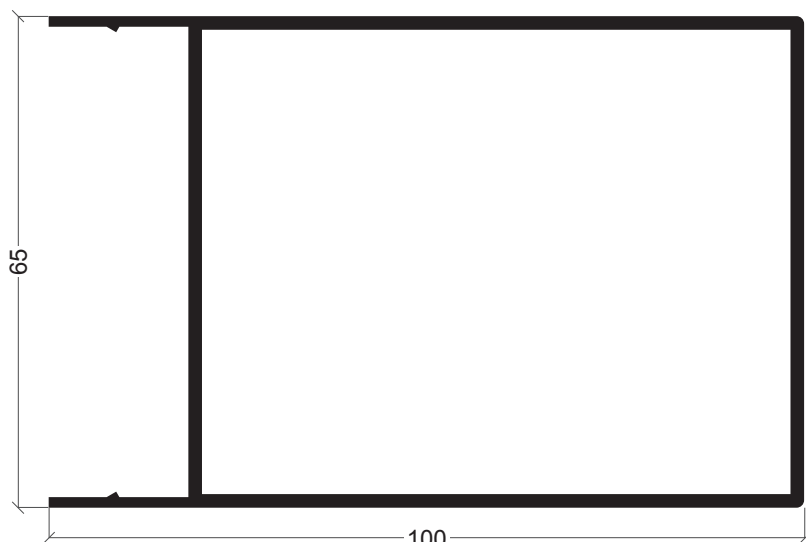
FL-74
Montante 120 mm



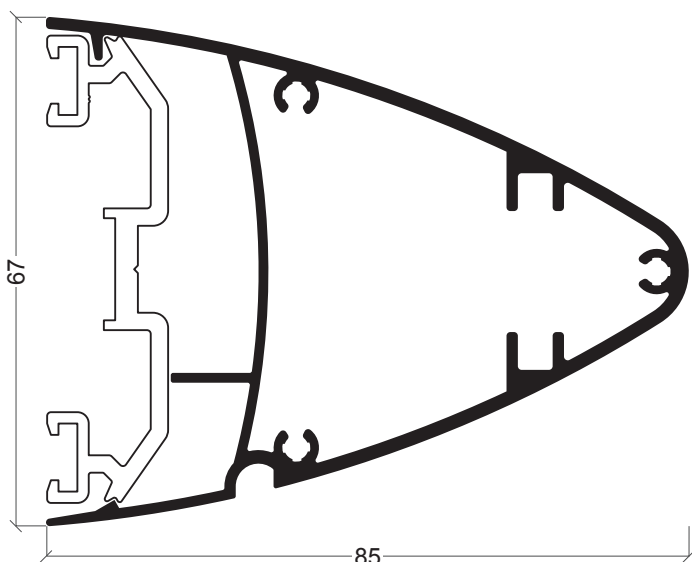
FL-75
Montante 170 mm



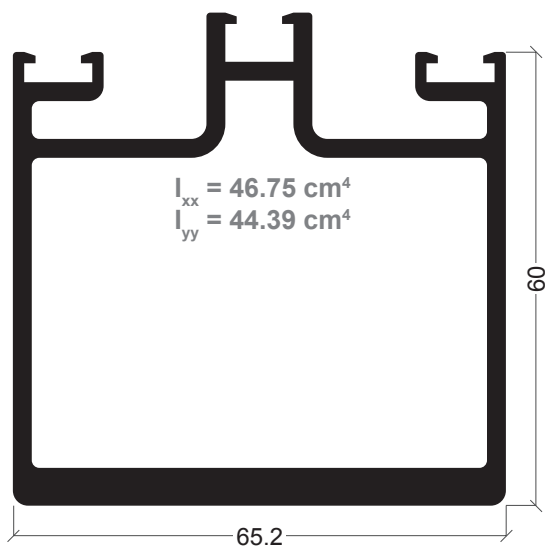
FL-81
Montante 90 mm



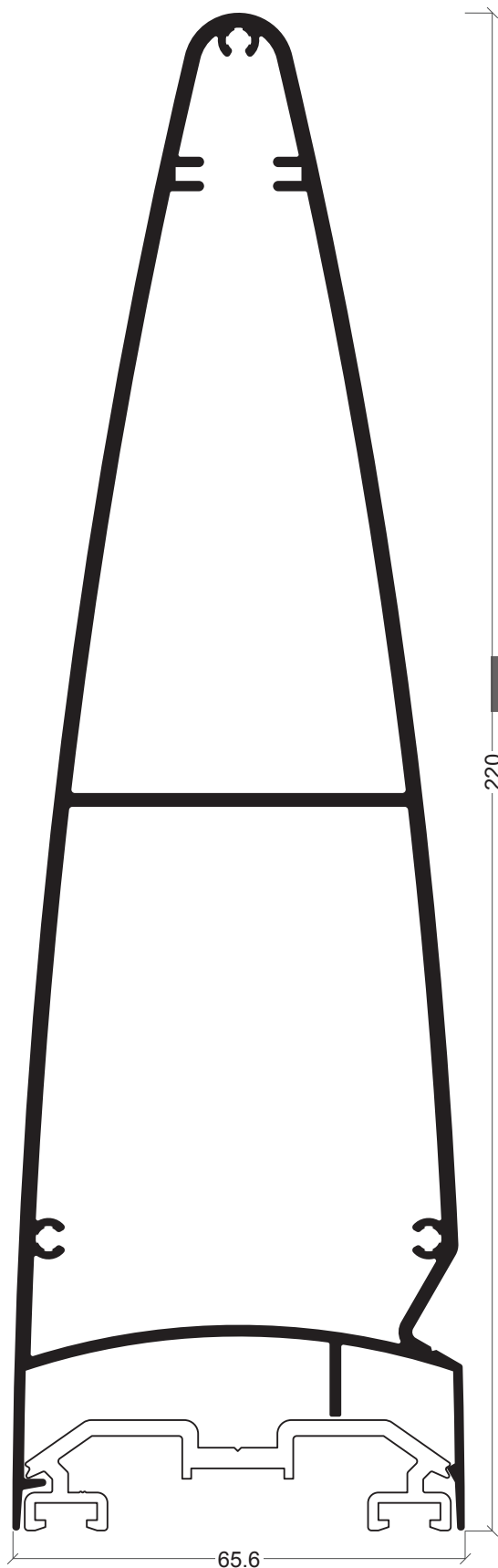
FL-29
Tampa vertical



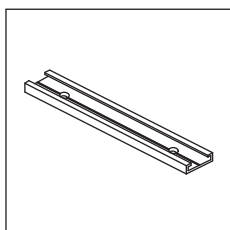
FL-72
Tampa elíptica 85



FL-73
Montante 60 mm

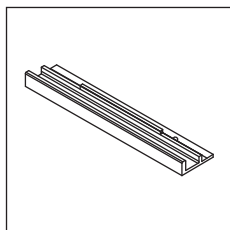


FL-82
Tampa elíptica 220 mm



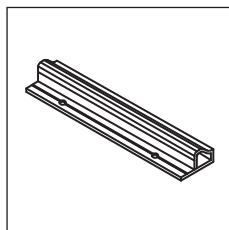
30 00 90 61

Guia fixação lateral



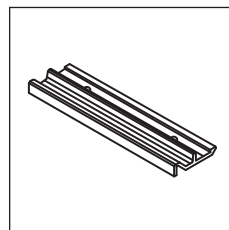
30 00 90 62

Fixação lateral montante



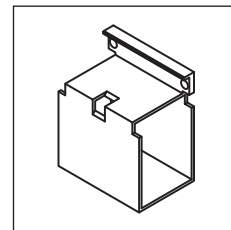
30 00 90 63

Fixação inferior



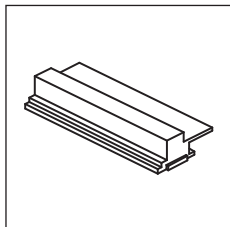
30 00 90 64

Fixação inferior travessa



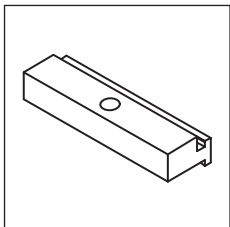
30 00 90 66

Topo travessas /
montante travessa



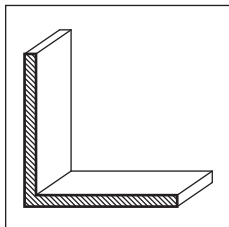
30 00 90 67

Fixação lateral folha



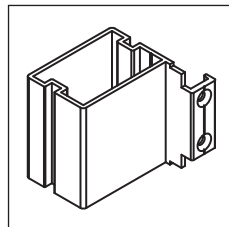
30 00 90 70

Fixação frontal



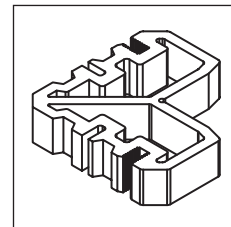
30 00 90 80

Canto de reforço



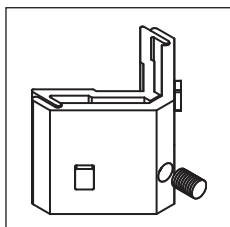
30 00 94 98

União fachada montante /
montante com parafusos



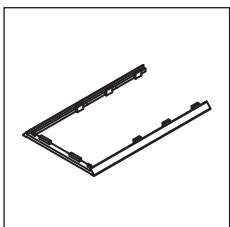
30 00 94 99

Esquadro de
canto 13.7 x 31.6 mm



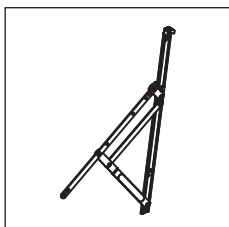
30 00 95 00

Esquadro móvel



30 00 95 16

Junta de estanquidade
união montantes



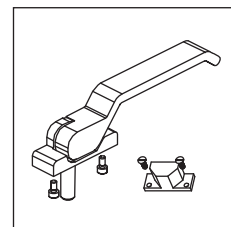
30 00 95 20

Jogo compasso fachada
(120 kg)



30 00 95 21

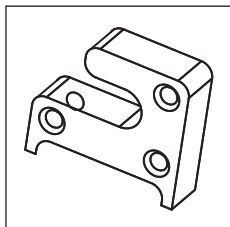
Jogo compasso fachada
(180 kg)



30 00 95 31/41

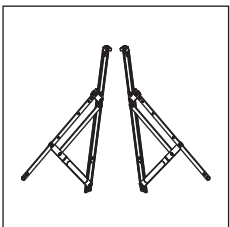
Kit cremone direito/
esquerdo preto

4 4 4



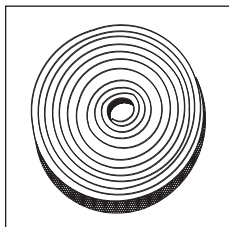
30 00 95 70

Peça fixação da folha



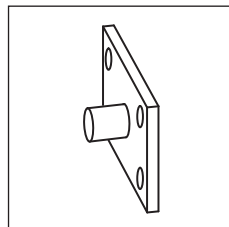
30 00 95 71

Jogo compasso fachada
(60 kg)



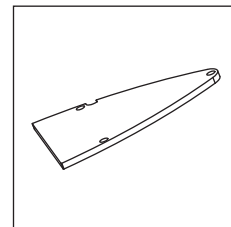
30 00 95 72

Junta isolante



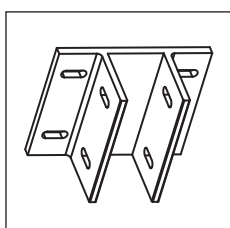
30 20 90 01

Fixação lateral folha



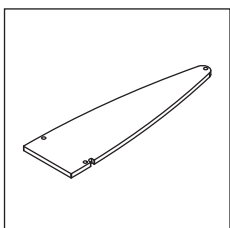
30 23 90 97

Tampa elíptica 85 mm



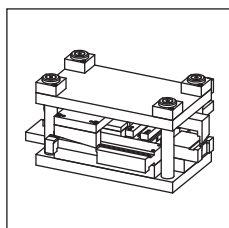
31 00 90 65

Fixador montante

















33 00 95 73

Tampa elíptica 220 mm

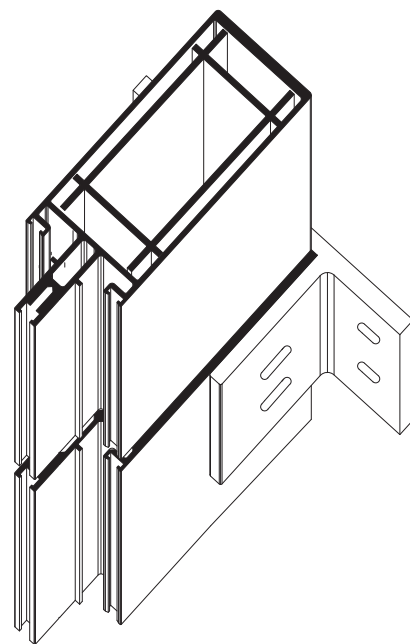
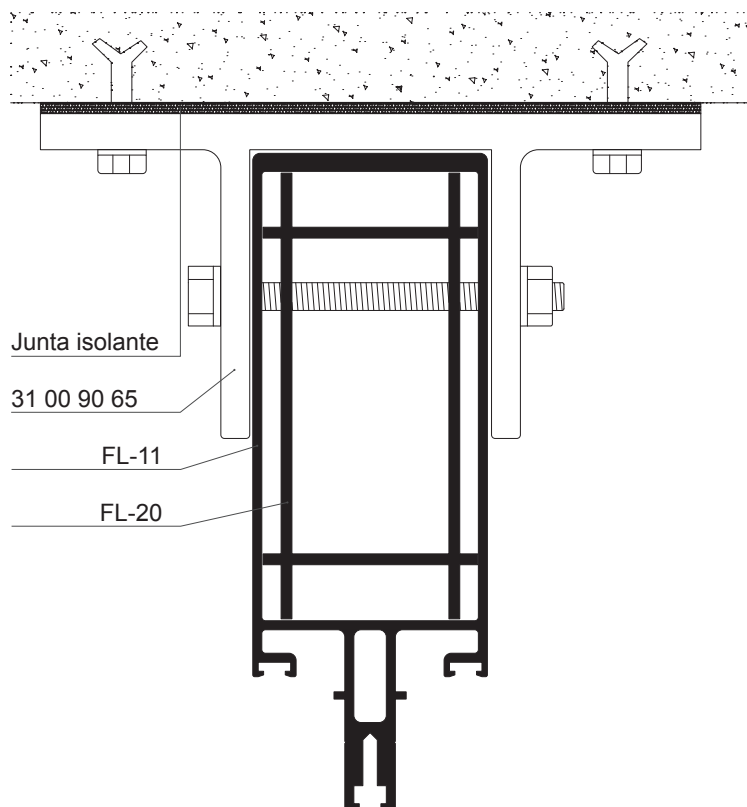


33 97 79 99

Cunho FL

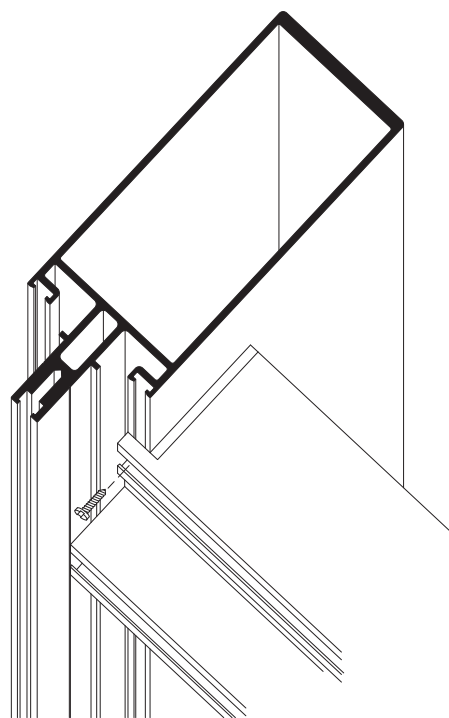
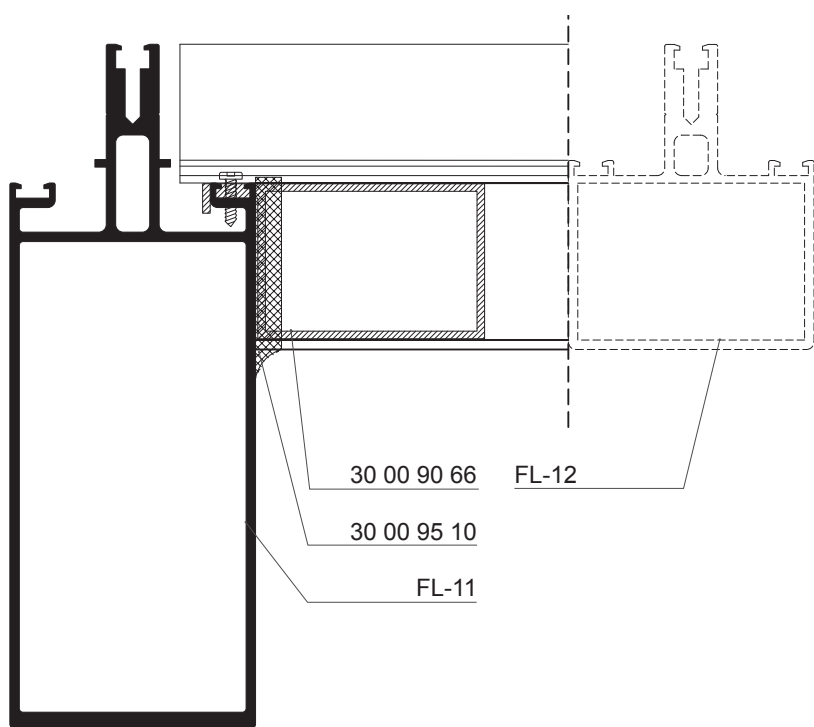
Referência	Desenho	Descrição
30 00 95 01		Junta interior montante Junta central montante e travessa (muro invertido)
30 00 95 02		Junta interior montante (fxação lateral folhas fixas)
30 00 95 03		Junta central (montante e travessa) Fachada estrutural e semi-estrutural
30 00 95 05		Junta interior de travessa Junta de aro fixo (janela oculta em muro invertido)
30 00 95 06		Junta central montante e travessa
30 00 95 07		Junta central montante e travessa
30 00 95 08		Junta central montante e travessa (segundo vidro)
30 00 95 09		Junta de estanquidade montante FL-11
30 00 95 10		Junta de estanquidade travessa FL-12
30 00 95 13		Junta folha de rotura térmica
30 00 95 76		Junta central montante e travessa
30 20 26 03		Junta exterior Junta interior Junta de vedação
30 90 20 80		Junta exterior para Sistema Ergolux
30 99 95 11		Junta de folha encaixe exterior Junta montante de remate Junta de folha e aro (janela oculta em muro invertido)

Pormenor de fixação do montante

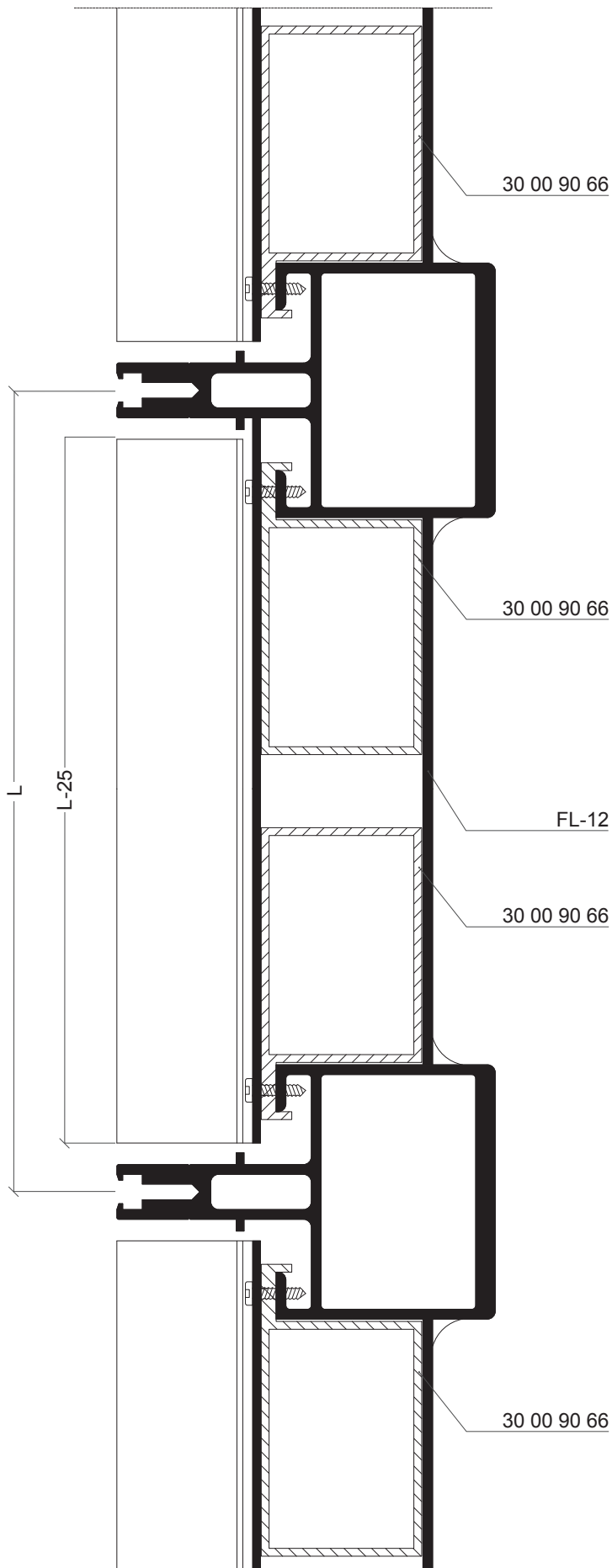


446

União montante travessa

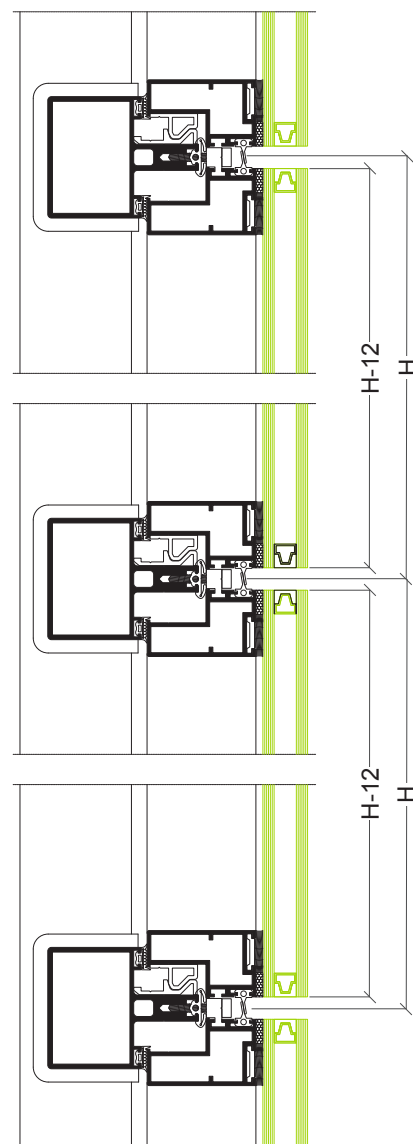
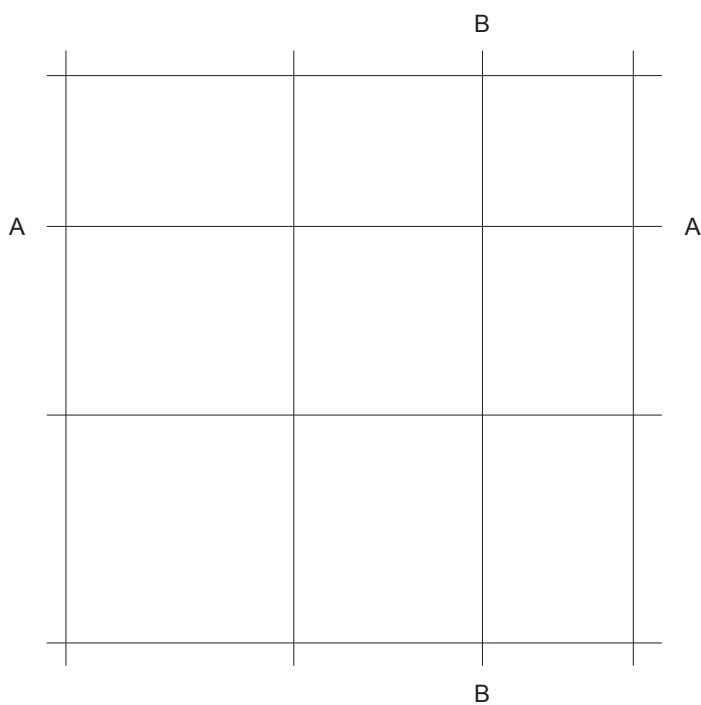


Folha de corte da travessa

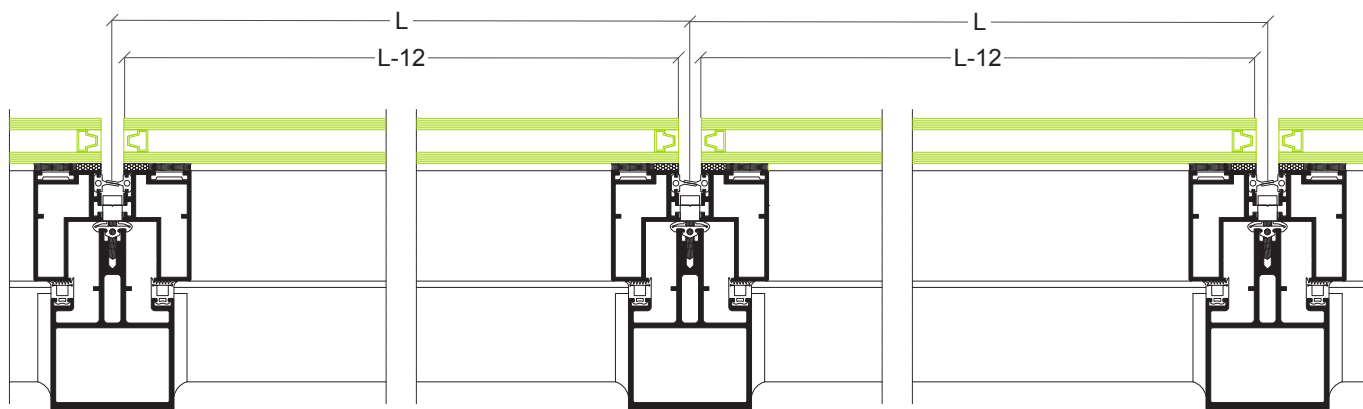


Medidas de corte fachada estrutural e semi-estrutural

Pormenor horizontal e vertical sistema de fixação frontal

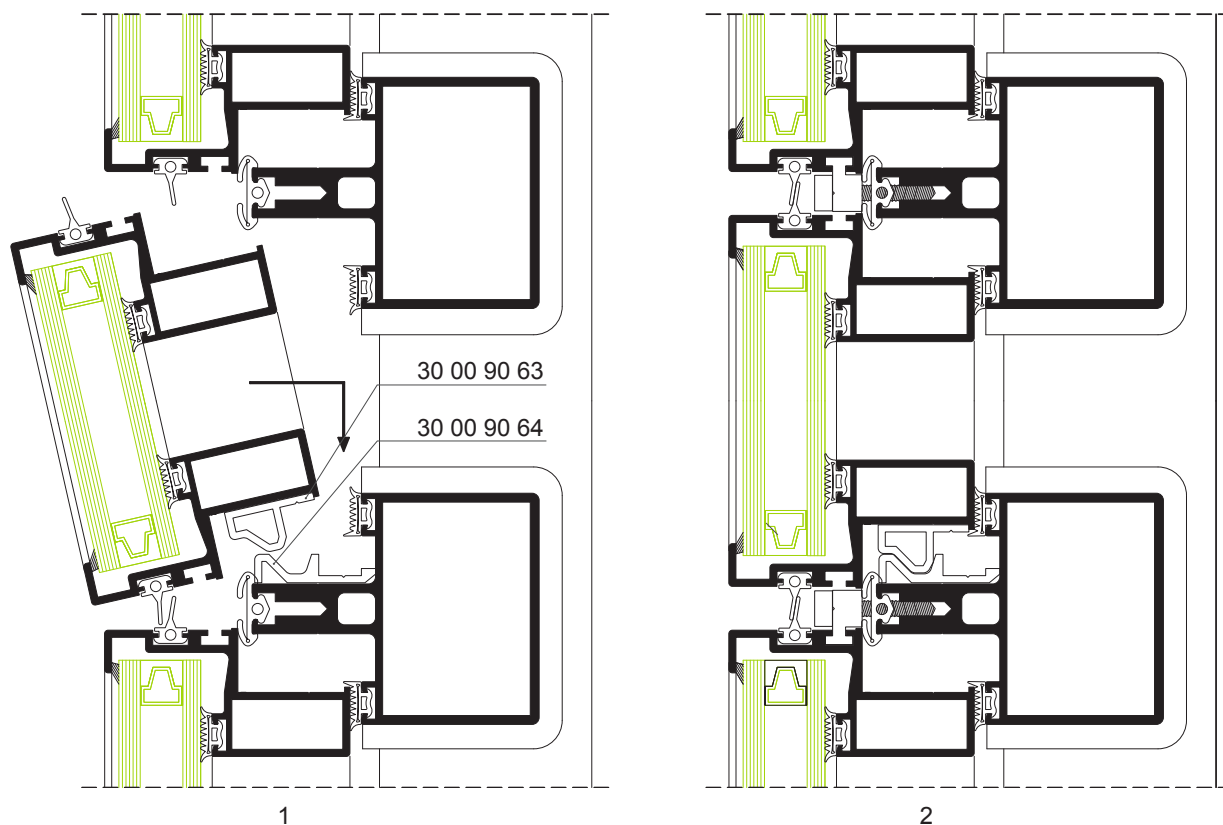


Seção A-A

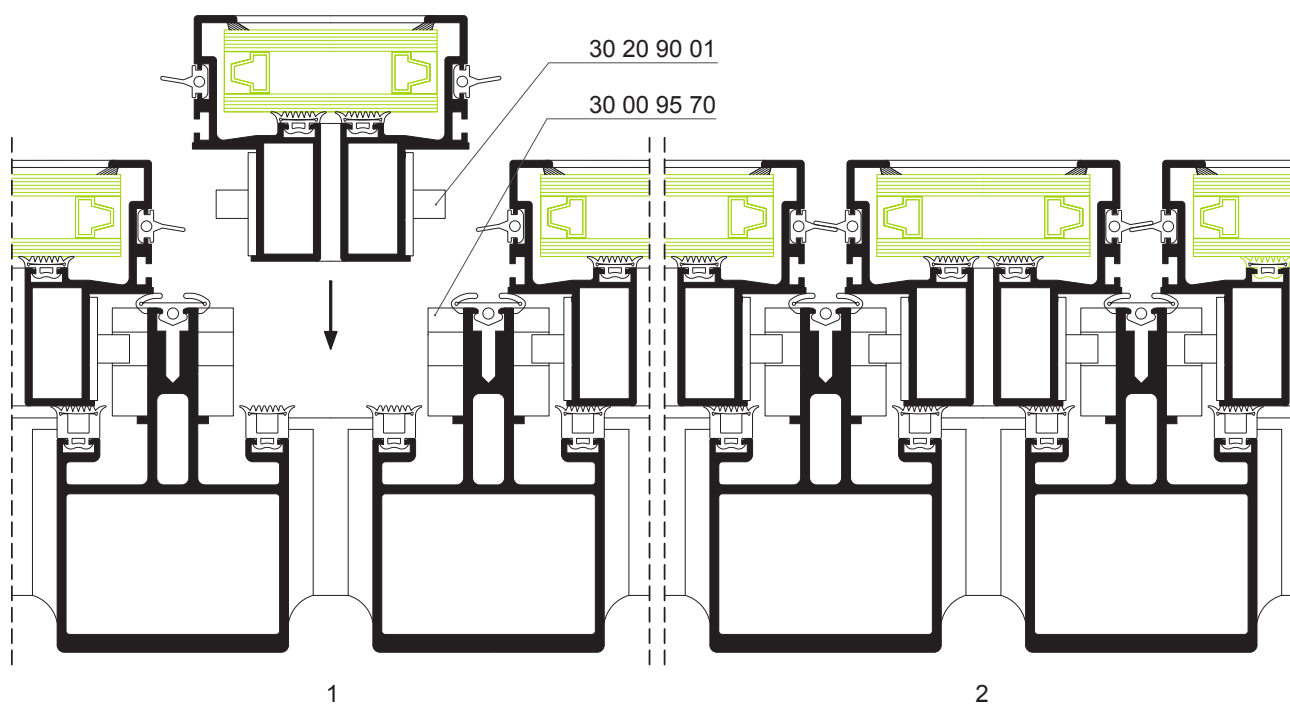


Seção B-B

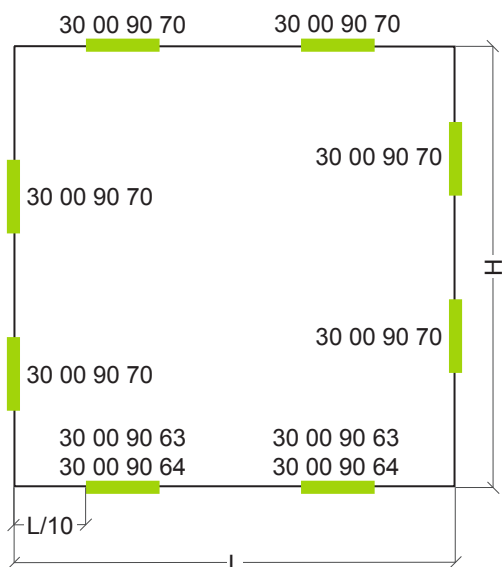
Montagem da folha fixa



Montagem da folha fixa

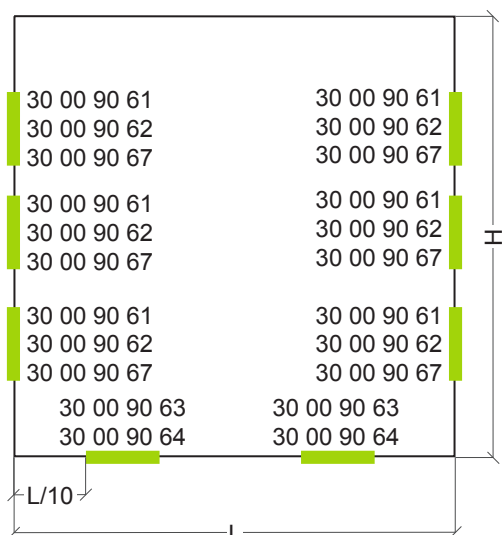


Fachada estrutural e semi-estrutural Sistema de fixação de folhas fixas



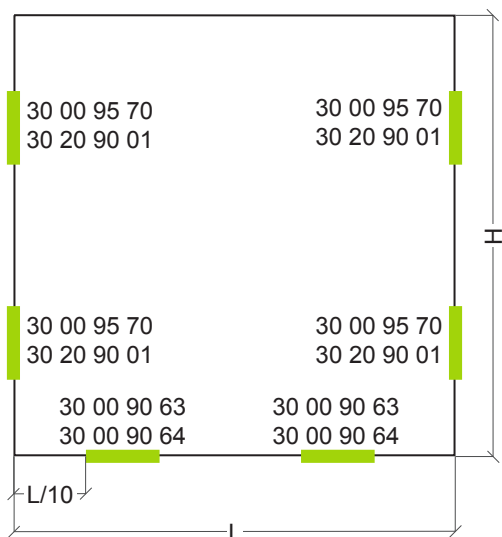
Folha fixa Sistema de fixação frontal

Peça de fixação	L	H	Nº de peças	
			L	H
30 00 90 70	até 1000 mm	até 1000 mm	2	2
	cada 500 mm	cada 500 mm	1	1



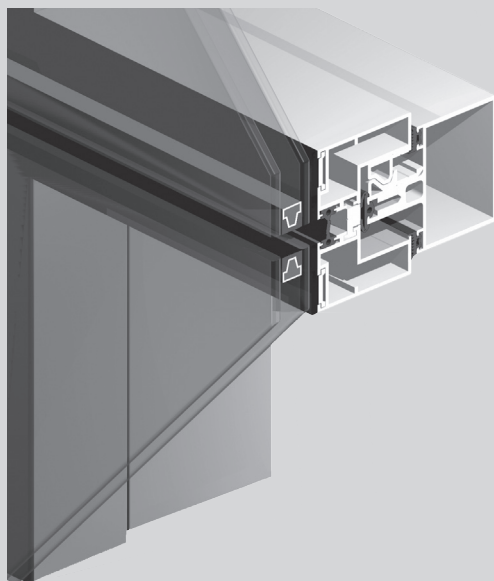
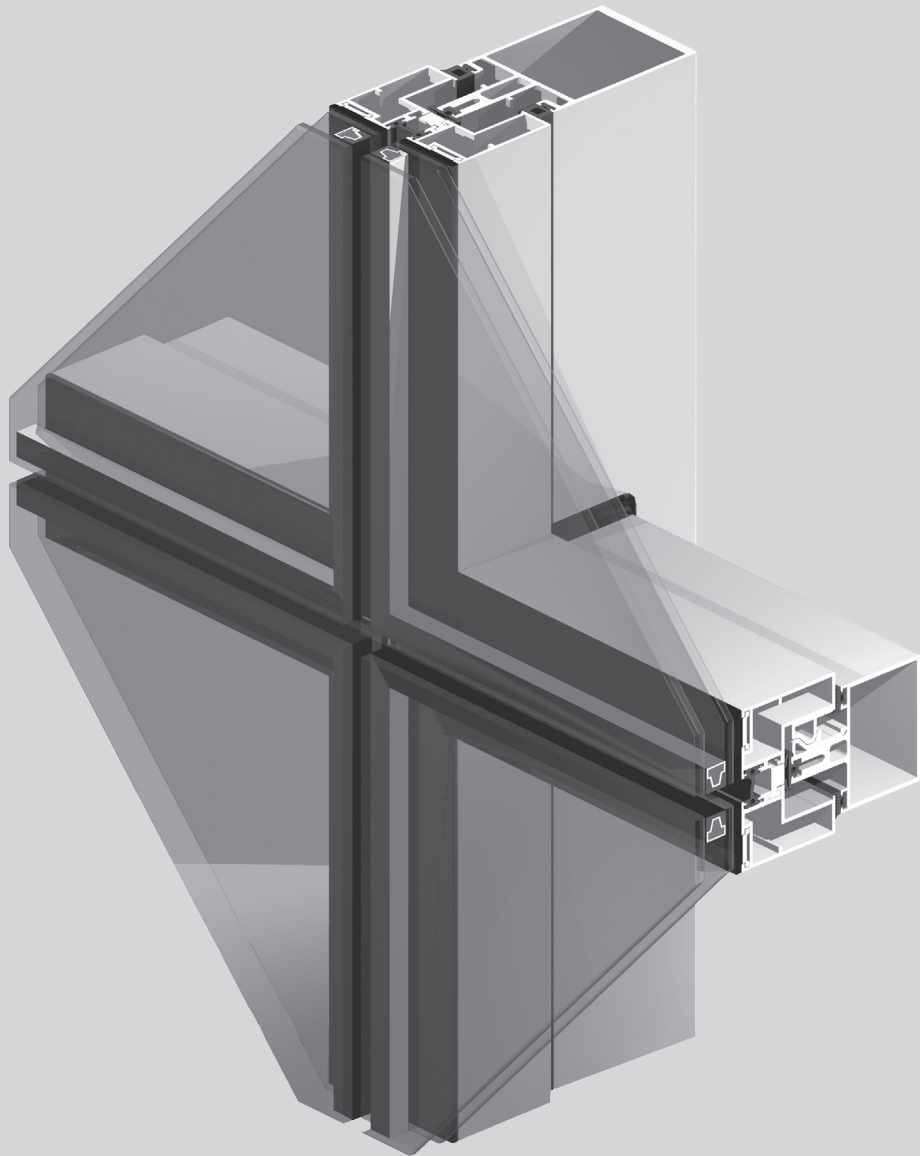
Folha fixa Sistema de fixação interior lateral

Peça de fixação	L	H	Nº de peças	
			L	H
30 00 90 61 30 00 90 62 30 00 90 67	até 1000 mm	até 1000 mm	-	3
	cada 500 mm	cada 500 mm	-	1
30 00 90 63 30 00 90 64	até 1000 mm	até 1000 mm	2	-
	cada 500 mm	cada 500 mm	1	-



Folha fixa Sistema de fixação exterior lateral

Peça de fixação	L	H	Nº de peças	
			L	H
30 00 95 70 30 20 90 01	-	-	-	2
	-	-	-	-
30 00 90 63 30 00 90 64	até 1000 mm	até 1000 mm	2	-
	cada 500 mm	cada 500 mm	1	-



Fachada Estrutural

Fachada Estrutural

Características

Neste sistema a colocação de vidros realiza-se mediante bastidores nos quais se coloca um perfil especialmente anodizado para permitir a colagem da silicone estrutural. Deste modo, o vidro oculta totalmente os perfis, adquirindo este tipo de fachada, uma vista exterior só de vidro, proporcionando assim um efeito tipo VEC - Vidro Exterior Colado.

A secção dos montantes e travessas é de 65 mm, visível apenas do interior.

Ambos os perfis apresentam canais de drenagem e ventilação que garantem, juntamente com o sistema de juntas de EPDM, uma estanquidade e permeabilidade máximas. Opcionalmente, dispõe-se de um perfil especial de segurança que evita o esforço cortante do vidro. Possibilidade de perfis com rotura térmica.

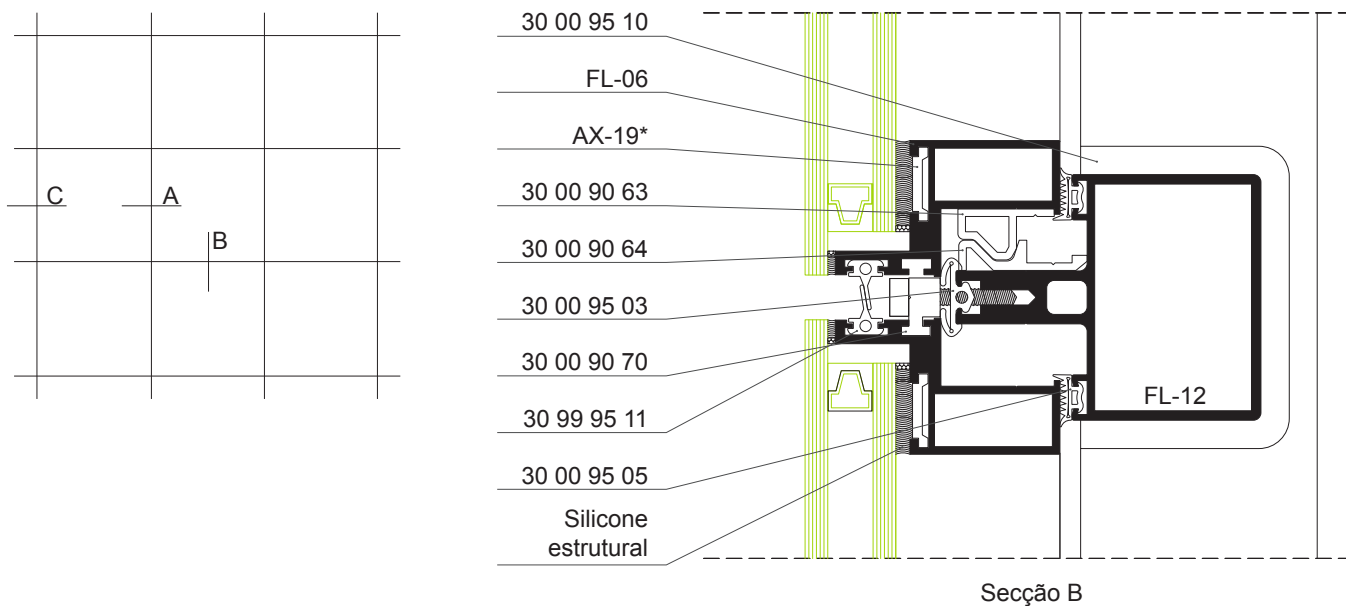
Acabamentos

A barra que recebe o vidro tem que possuir uma anodização especial do perfil perimetral ($>20 \mu\text{m}$), necessária para garantir uma perfeita colagem do vidro com silicone estrutural. A restante perfilaria permite todas as possibilidades de acabamento: lacado, lacado decorativo (madeira) ou anodizado.

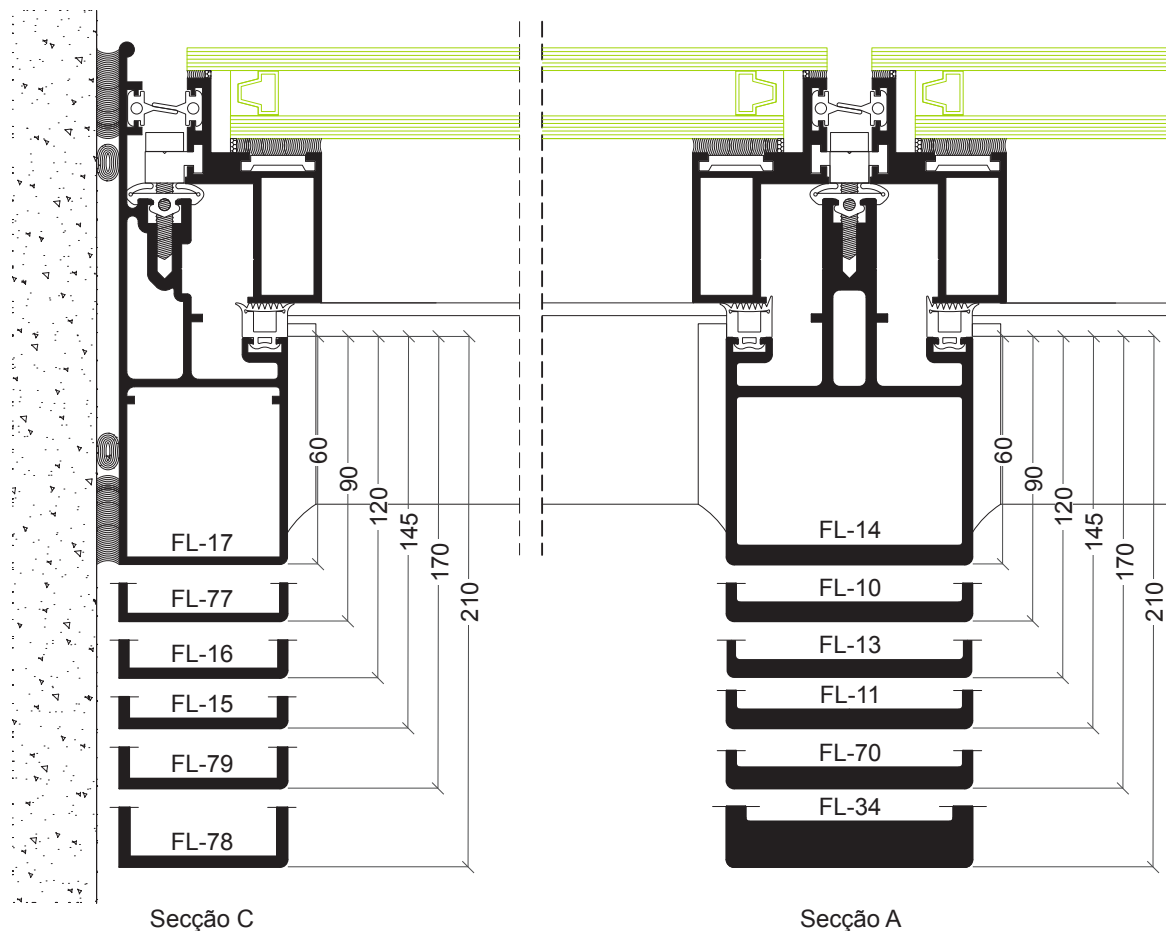
Possibilidades de abertura

Abertura projectante realizada por intermédio de compassos em aço inox com uma resistência até 180 kg, Tanto as folhas fixas como as projectantes são fabricadas com o mesmo perfil perimetral, tornando assim imperceptível a sua distinção pelo exterior.

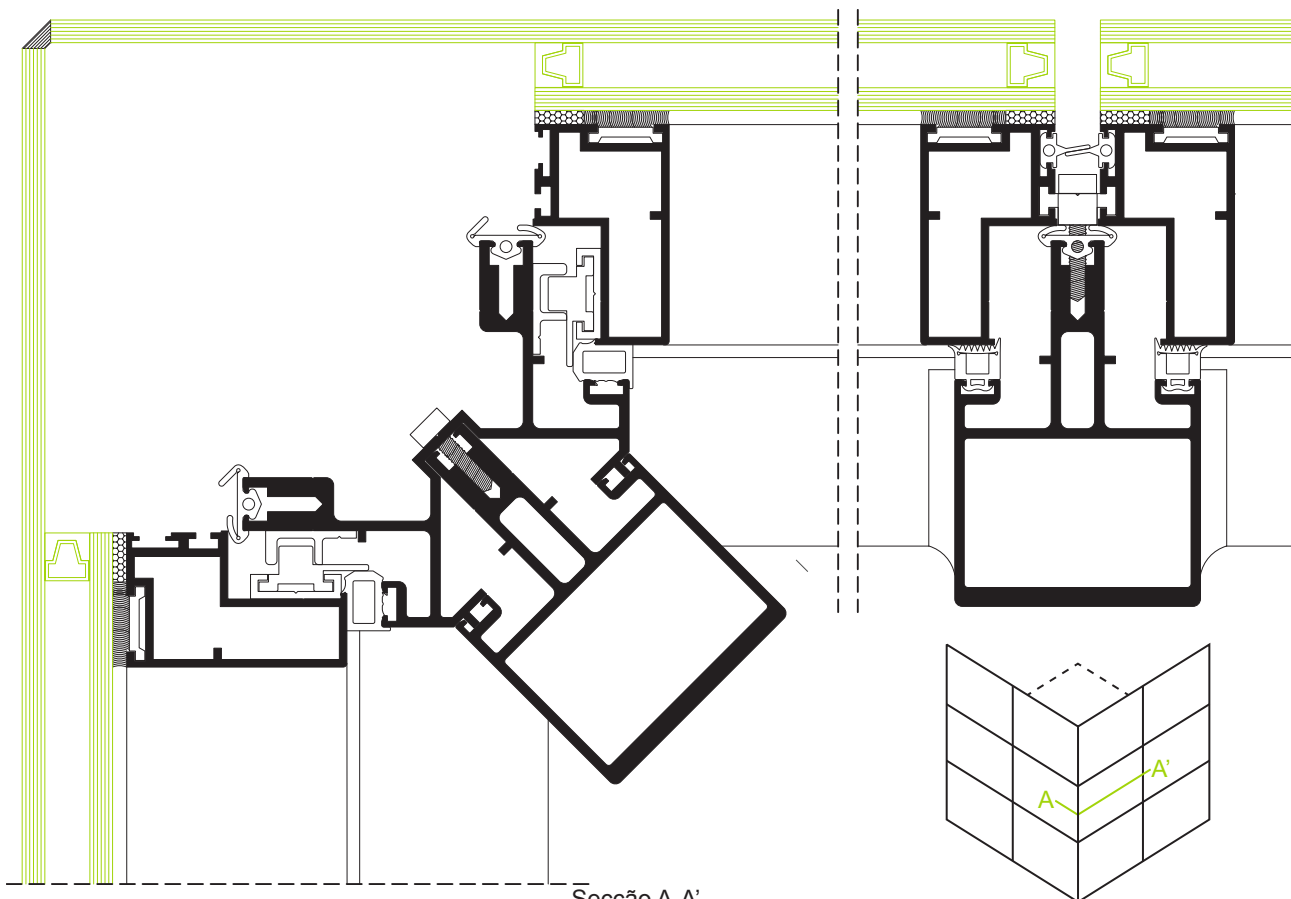
Pormenor horizontal e vertical



* Perfil anodizado com classe 20, colagem especial com silicone estrutural

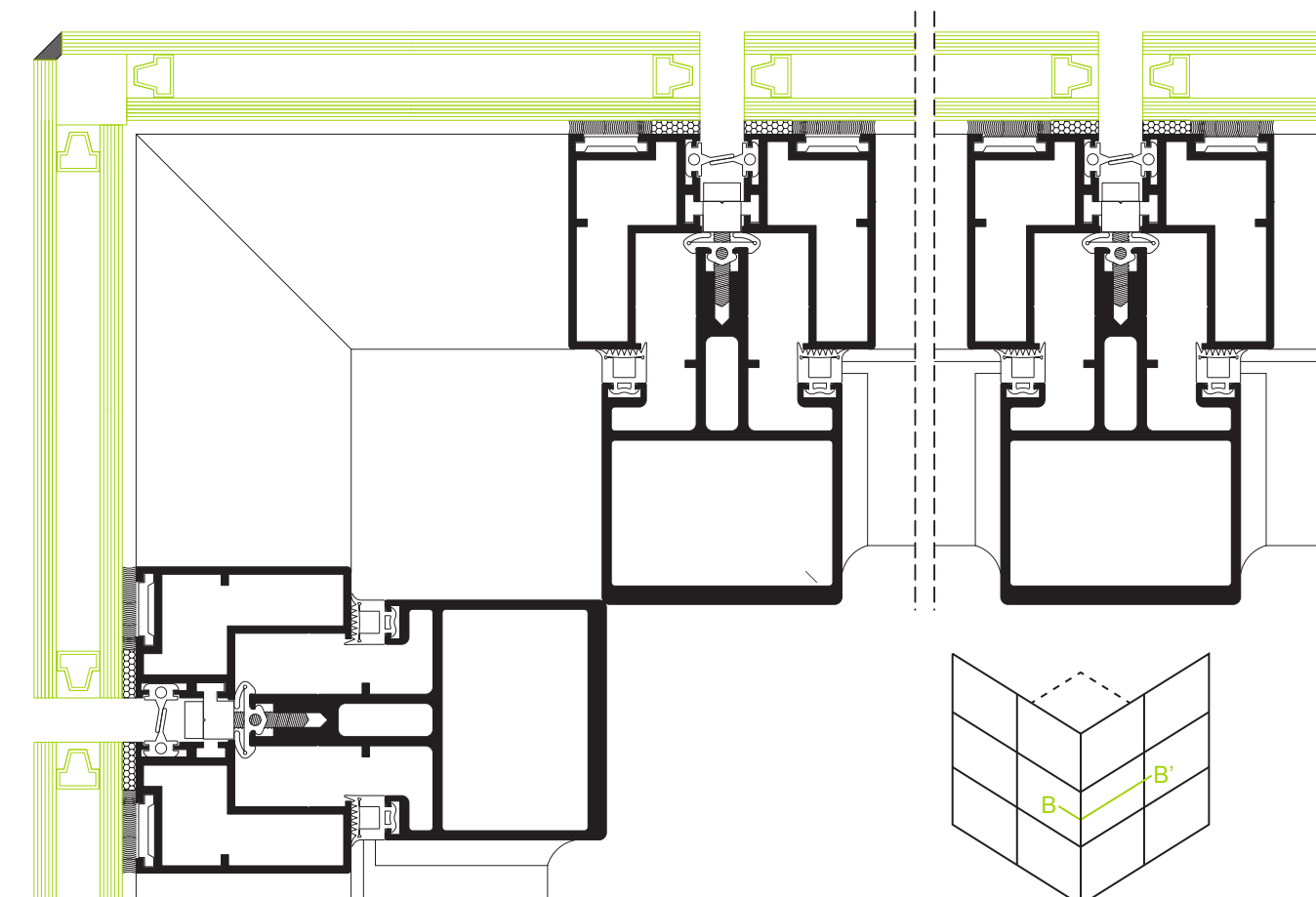


Pormenor canto 90°



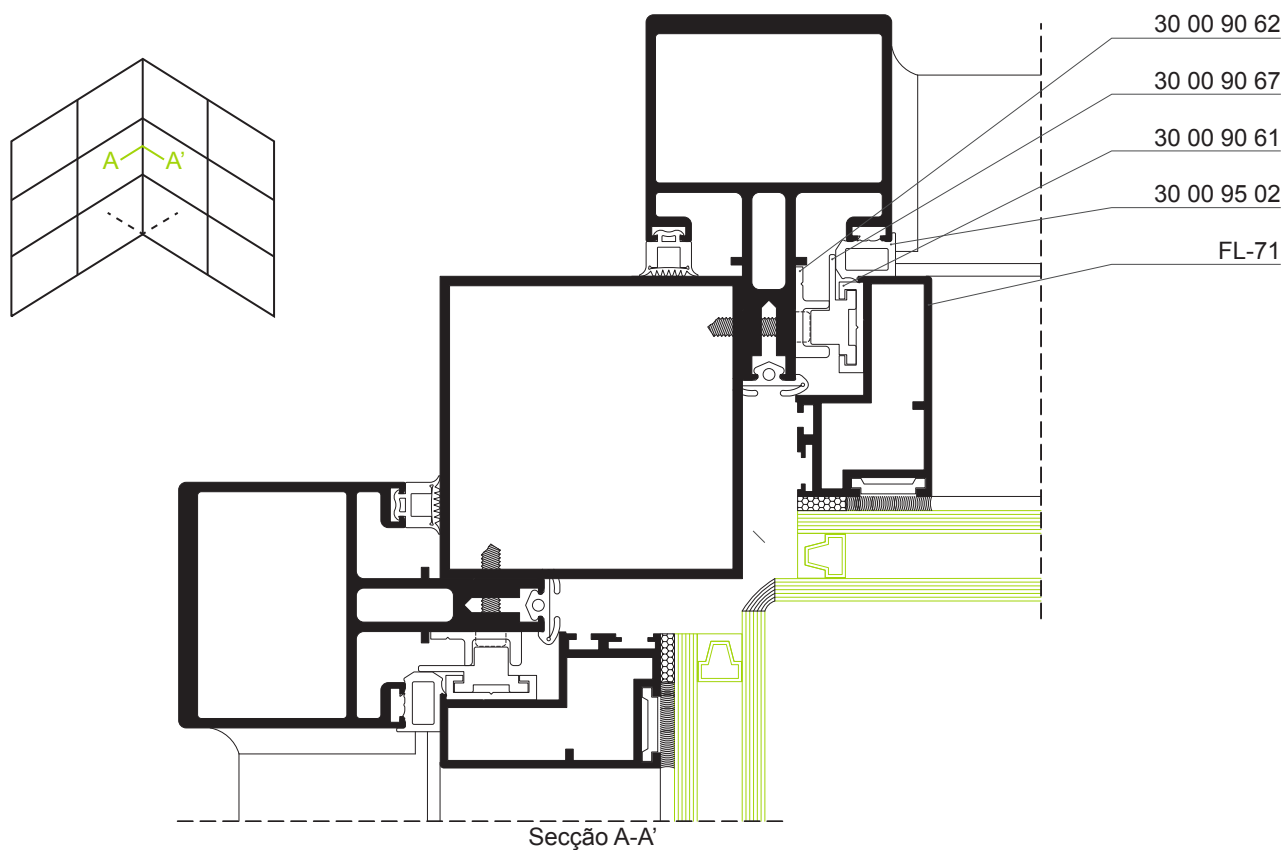
Secção A-A'

Pormenor canto 90°

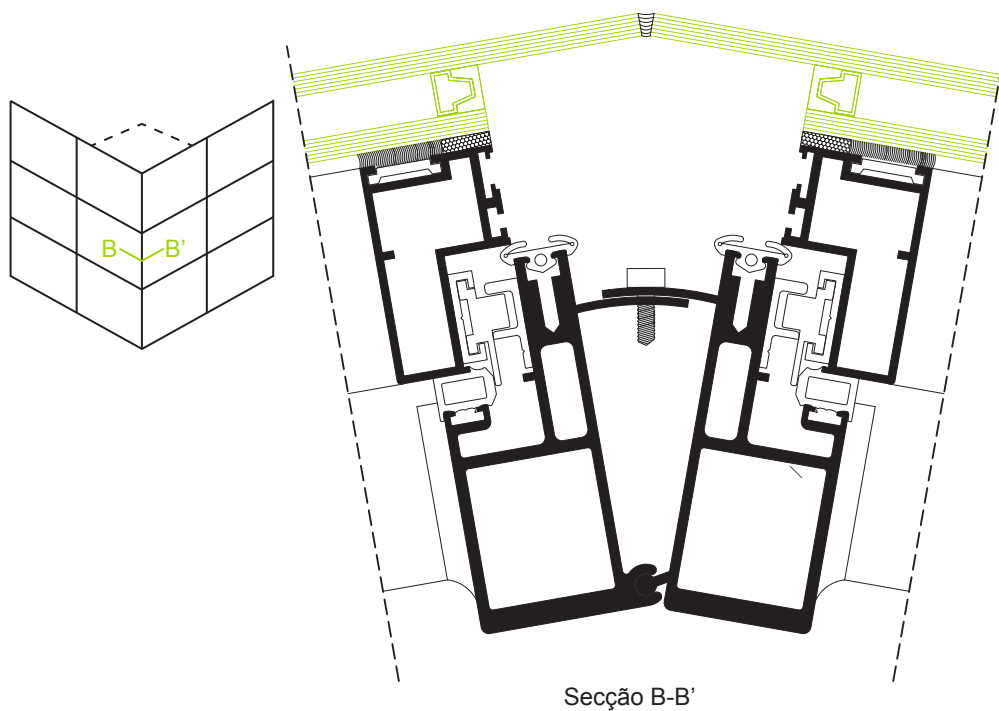


Secção B-B'

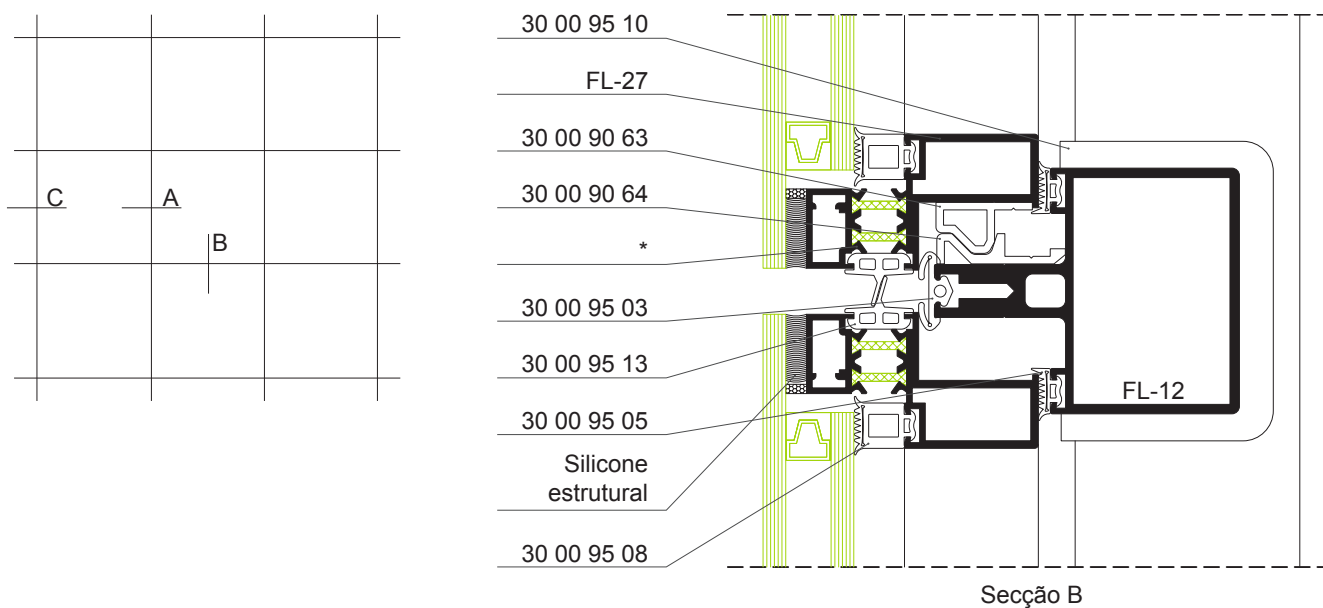
Pormenor canto 90°



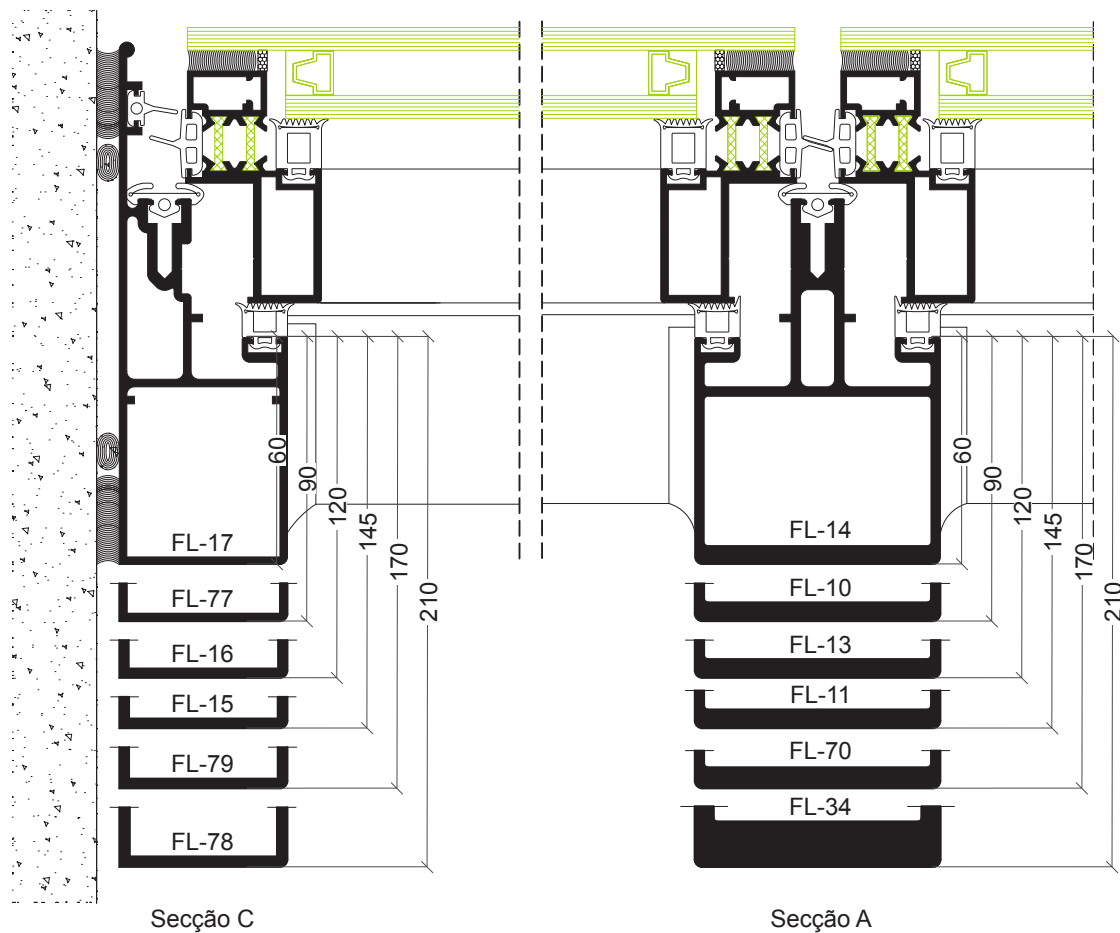
Pormenor canto variável de 15° a 30°

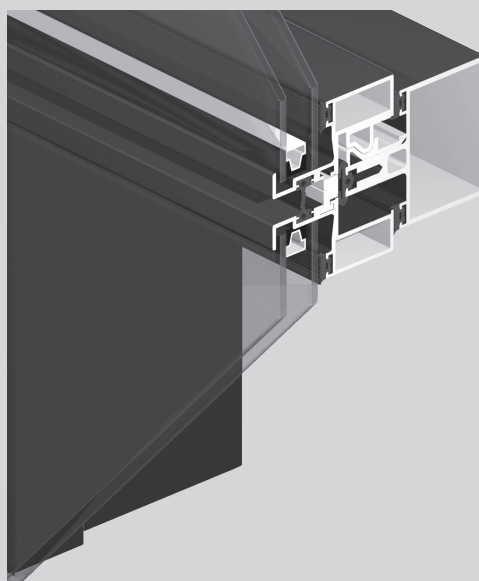
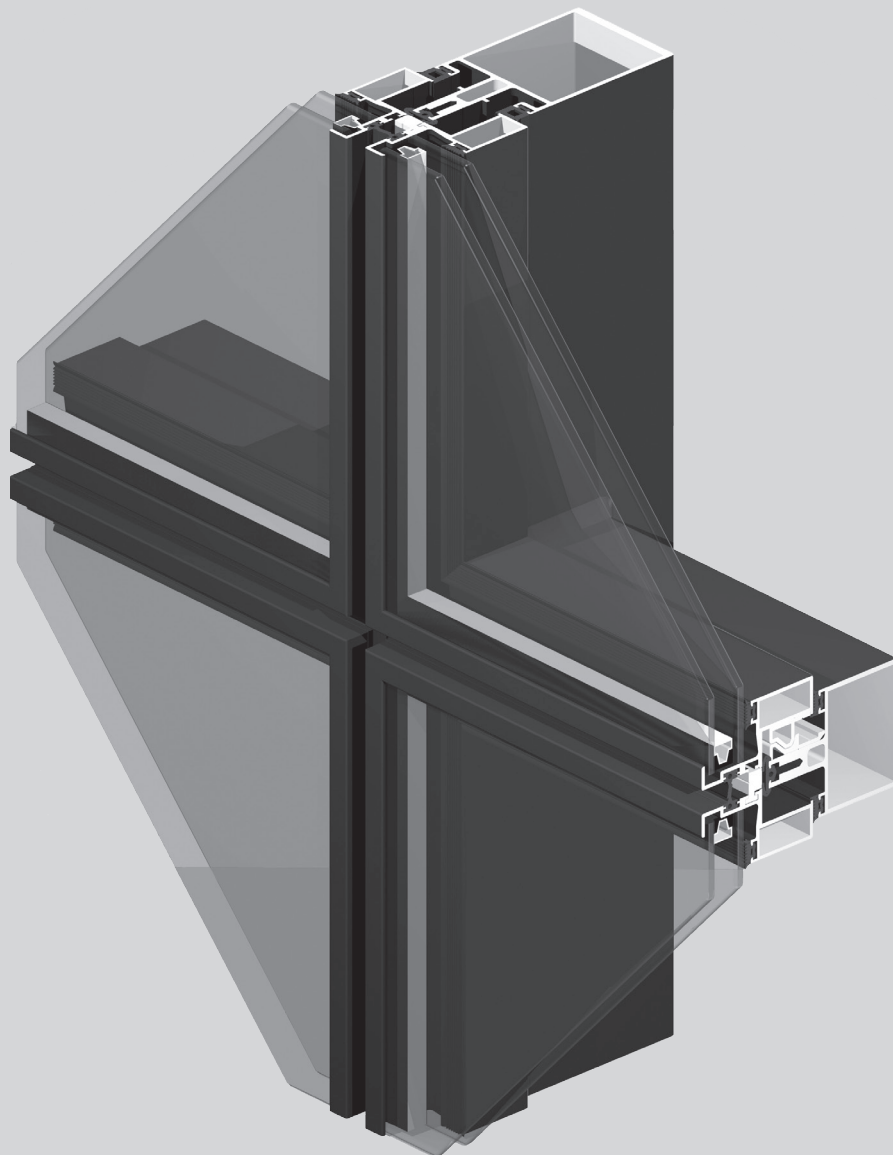


Pormenor horizontal e vertical



* Perfil anodizado com classe 20, colagem especial com silicone estrutural





**Fachada
Semi
Estrutural**

Fachada Semi-Estrutural

Características

Sistema de fachada em que se utilizam perfis para o fabrico das folhas, com um aba que fixa o vidro, evitando o uso de silicone estrutural.

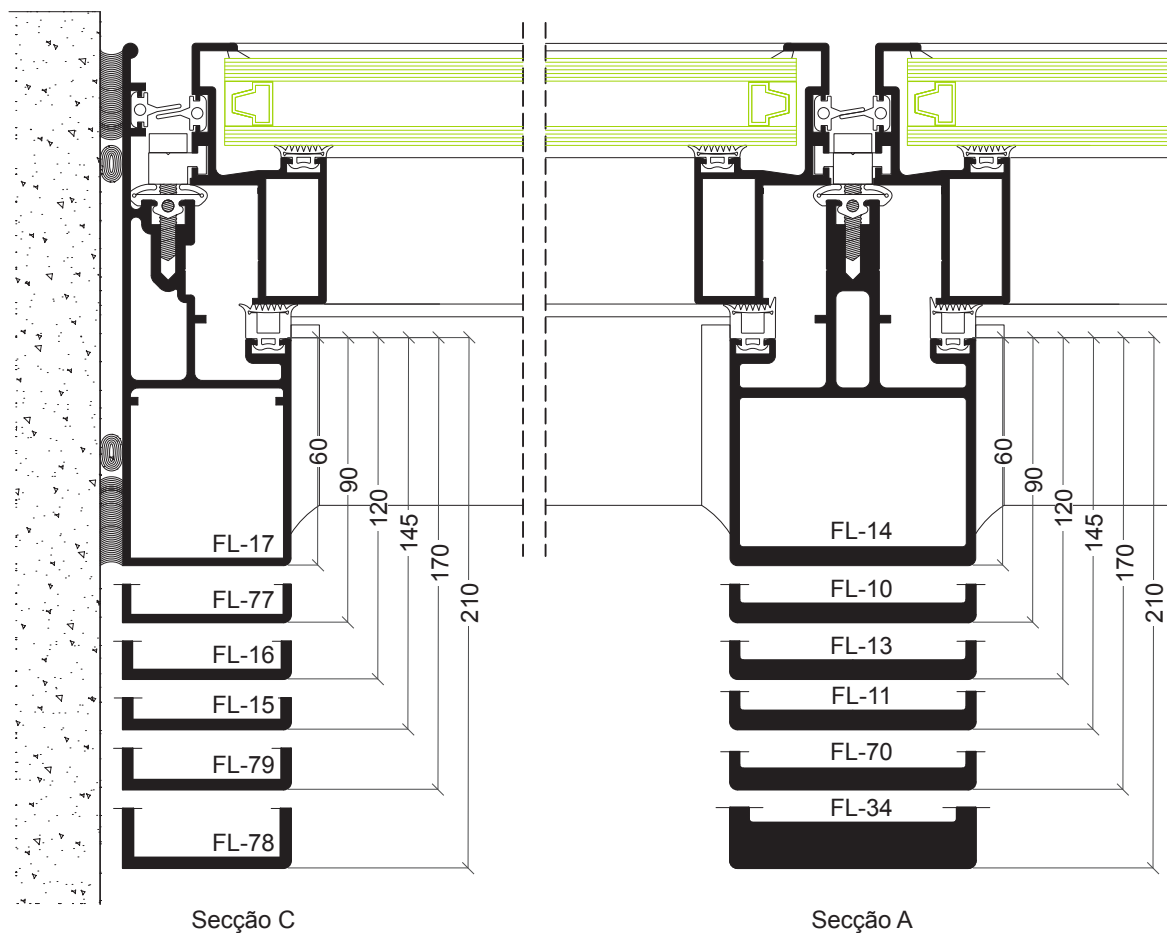
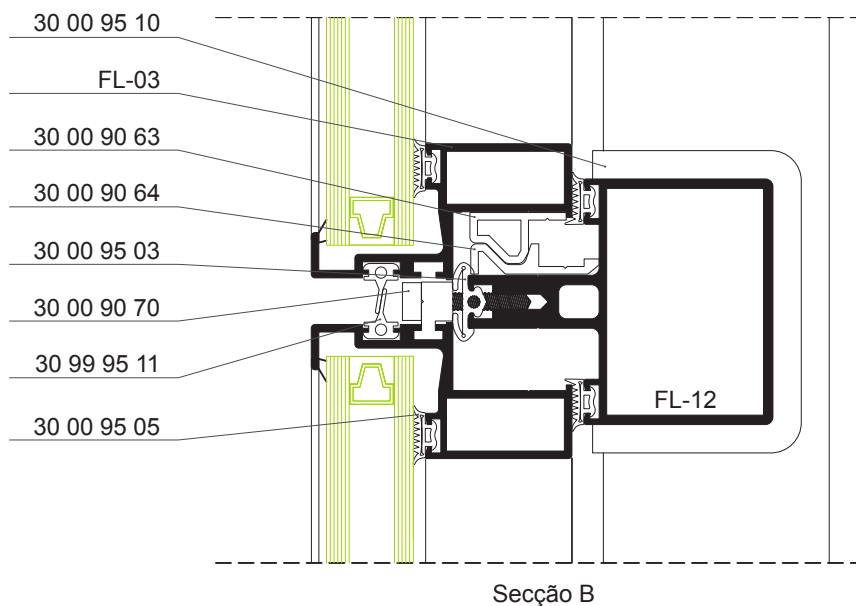
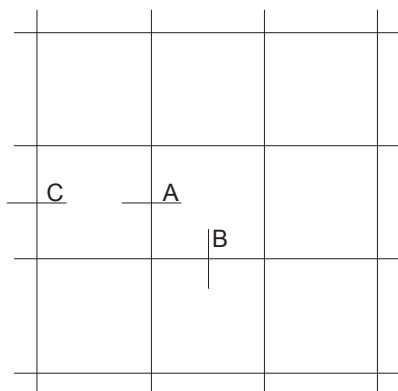
A secção da vista exterior deste sistema é de 12 mm ou 21 mm.

A secção dos montantes e travessas é de 65 mm, visíveis apenas do interior. Ambos os perfis apresentam canais de drenagem e ventilação que garantem juntamente com o sistema de juntas em EPDM, uma máxima estanquidade e permeabilidade. Possibilidade de perfis com rotura térmica.

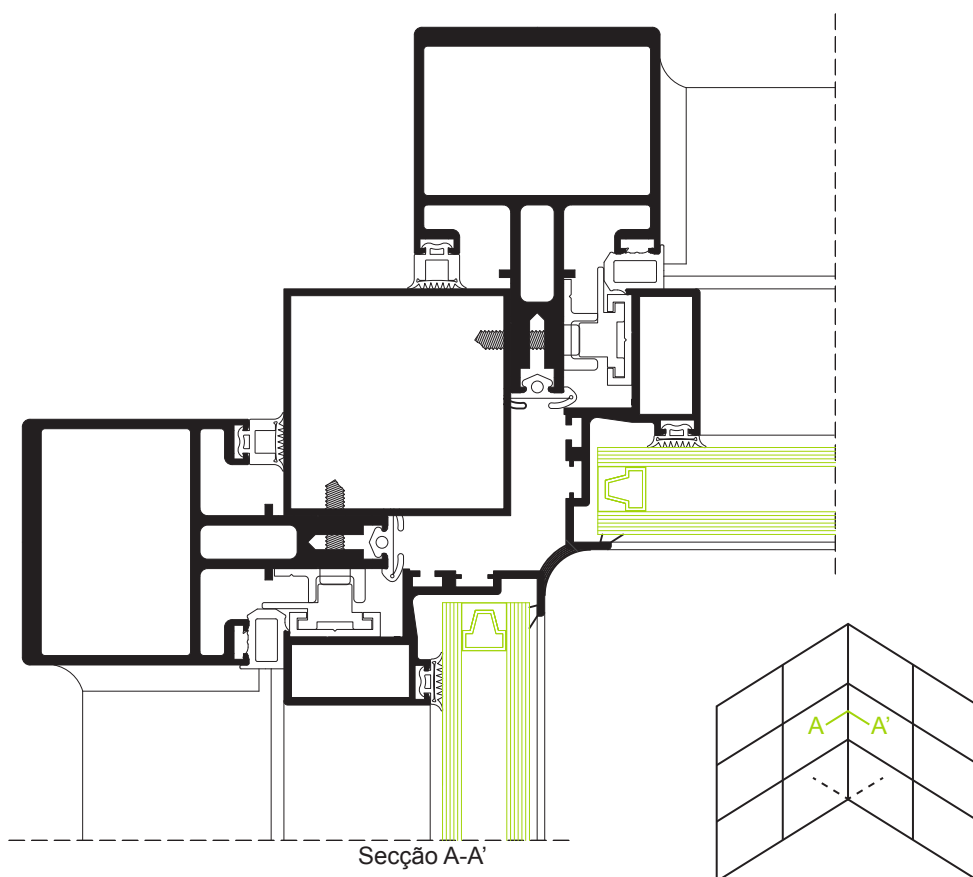
Possibilidades de abertura

Abertura projectante realizada por intermédio de compassos em aço inox com uma resistência até 180 kg, Tanto as folhas fixas como as projectantes são fabricadas com o mesmo perfil perimetral, tornando assim imperceptível a sua distinção pelo exterior.

Pormenor horizontal e vertical

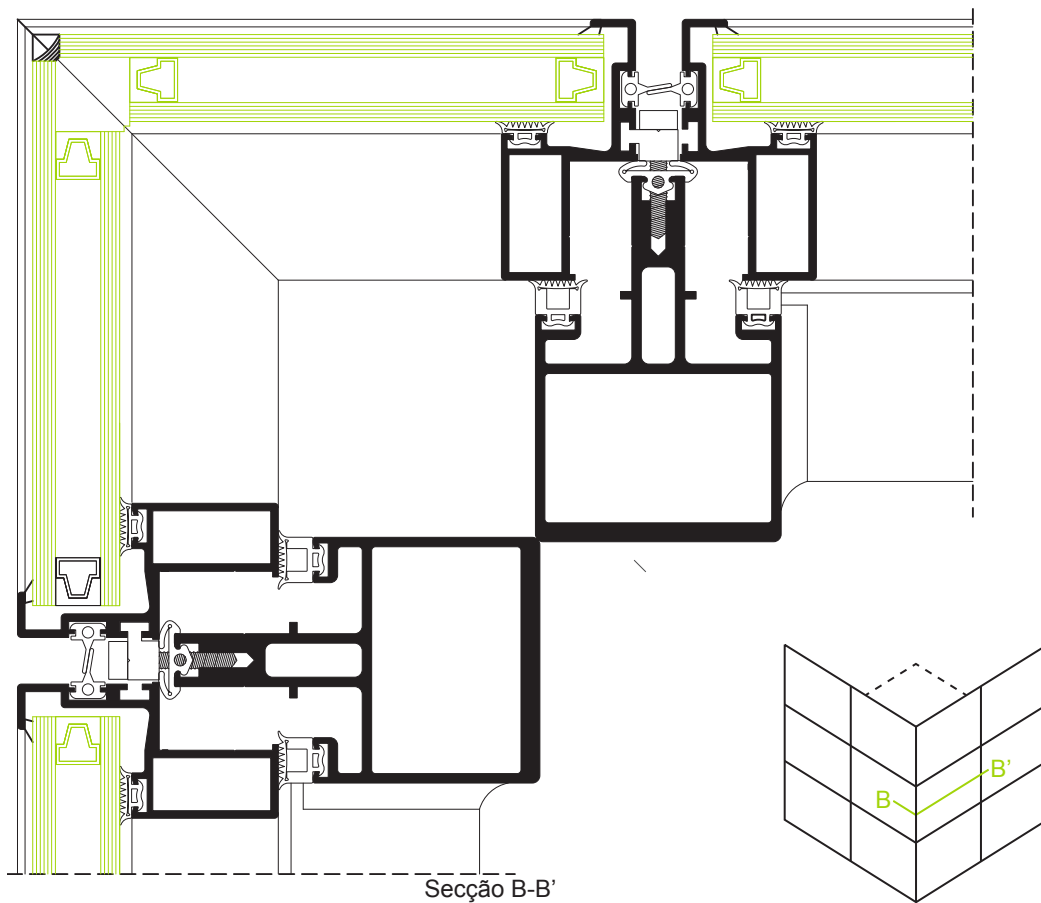


Pormenor canto 90°

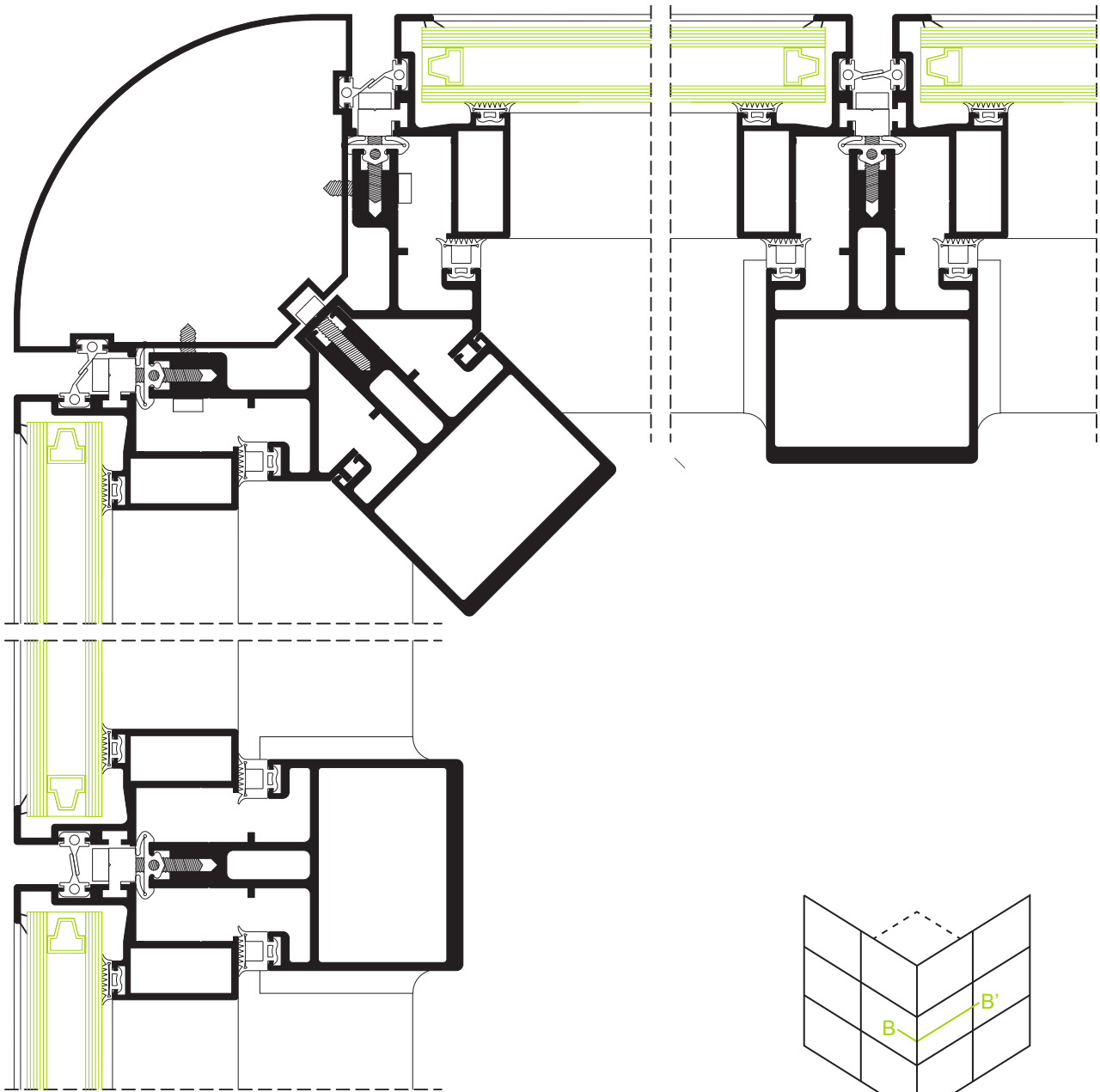


460

Pormenor canto 90°

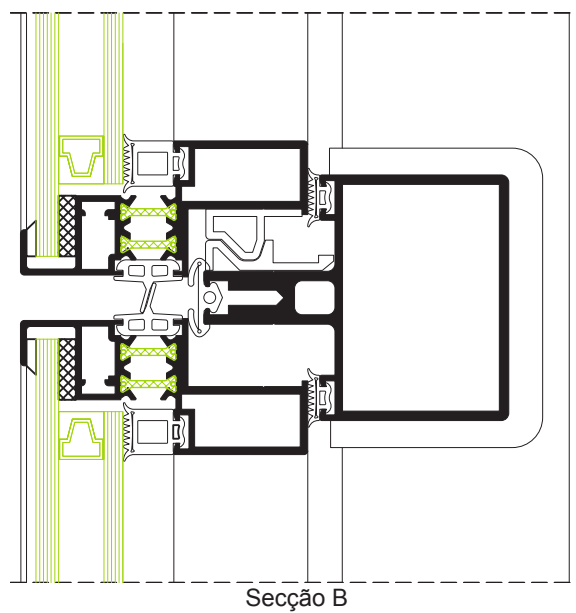
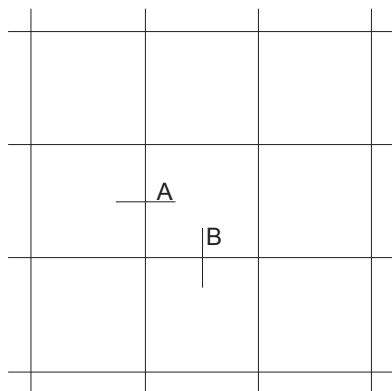


Pormenor canto 90°

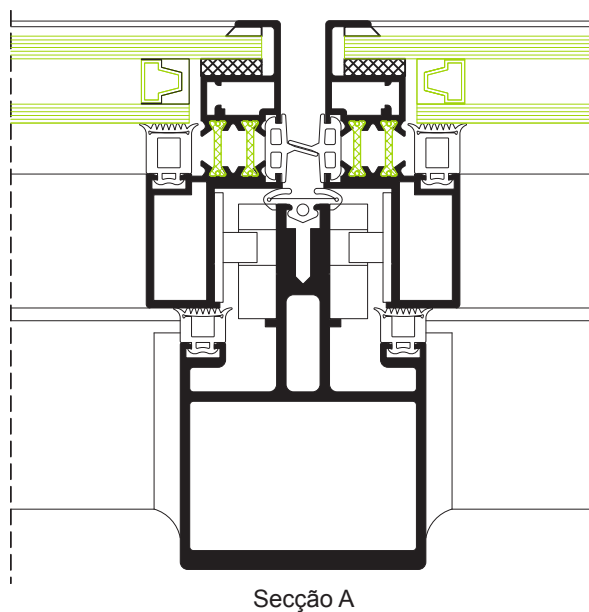


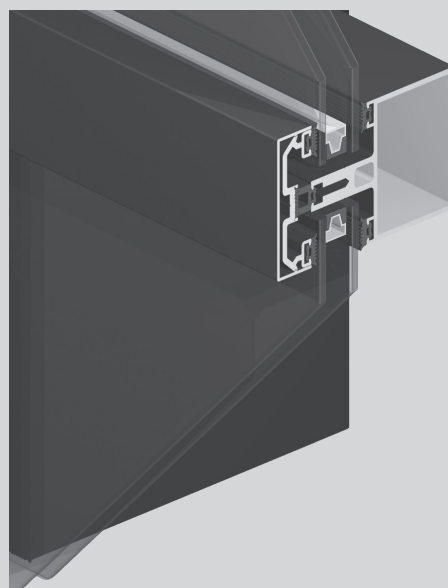
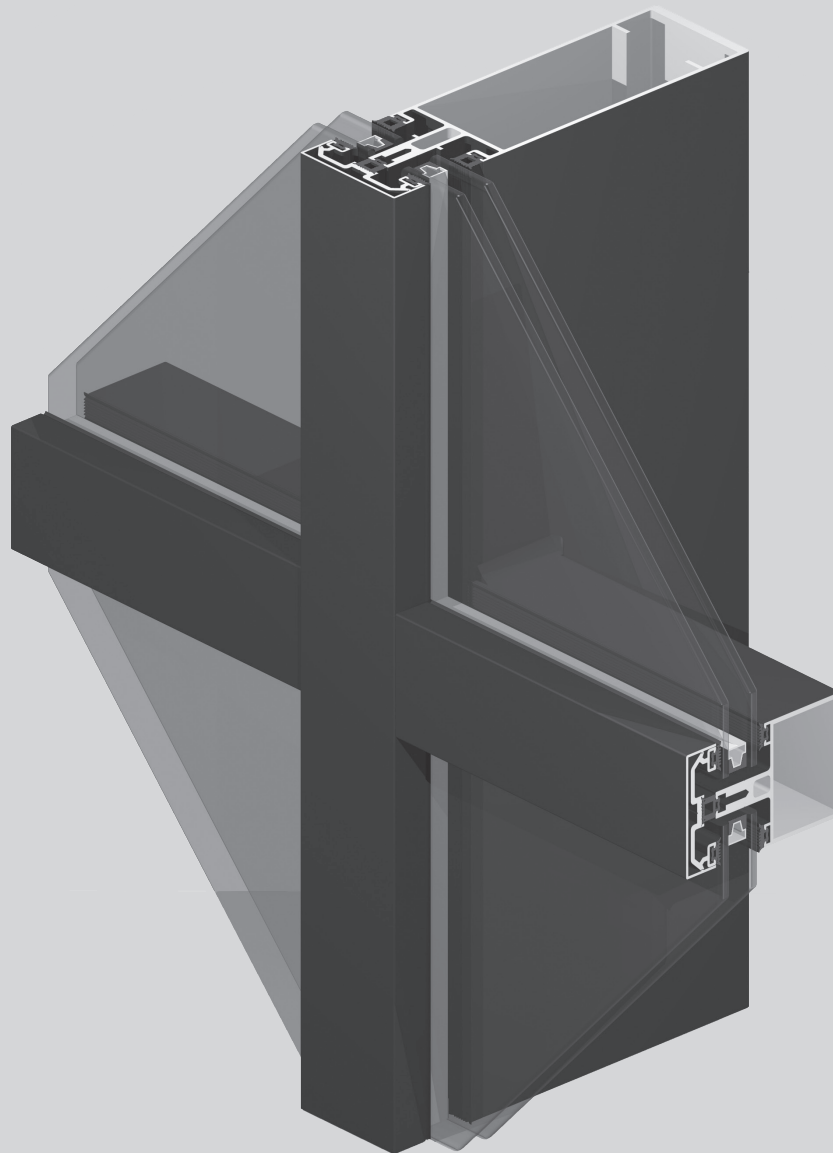
Secção A-A'

Pormenor horizontal e vertical



462





**Fachada
Muro
Invertido**

Fachada Muro Invertido

Características

Neste sistema a colocação de vidros realiza-se mediante uma contra-capa que fixa o vidro à estrutura portante. Sobre este perfil coloca-se uma capa exterior, horizontal e verticalmente, formando assim uma vista exterior nas duas dimensões. A secção visível no interior e exterior dos montantes e travessas é de 65 mm. Ambos os perfis apresentam canais de drenagem e ventilação que garantem juntamente com o sistema de juntas de EPDM, uma estanquidade e permeabilidade máximas.

Possibilidades de abertura

Este tipo de fachada, ao contrário de todos os outros, permite qualquer tipo de abertura proporcionada pelos Sistemas Anicolor. A janela é fixa à estrutura com ajuda do perfil pressionante que fixa o vidro à fachada. Existe também a possibilidade de realizar aberturas projectantes "ocultas", isto é, não visíveis do exterior.

Categorias alcançadas em banco de ensaios:

1. Permeabilidade ao ar: Classe C
2. Estanquidade à água: 600 Pa
3. Resistência ao vento: 2400 Pa
4. Ensaio de segurança: 3600 Pa

Fachada Muro Invertido – Tampa Elíptica

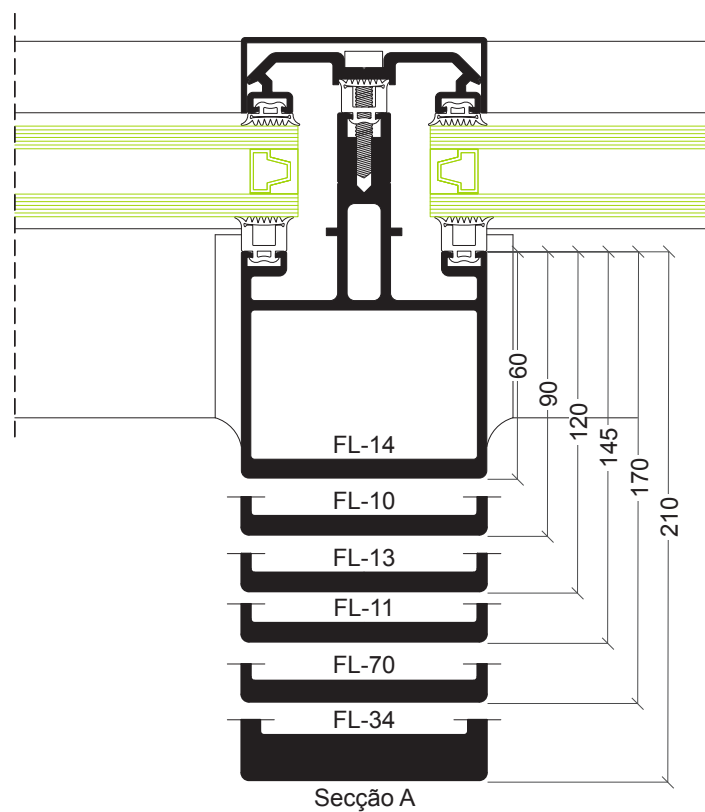
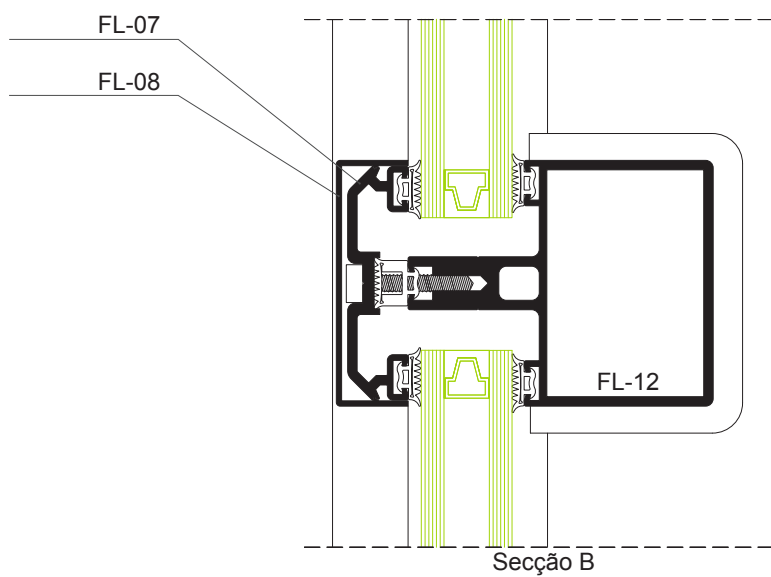
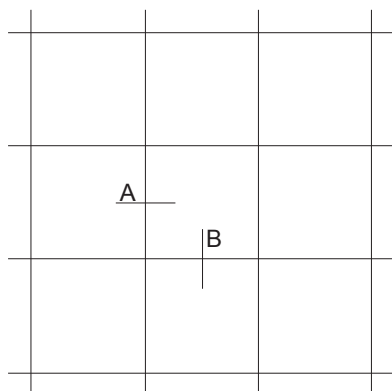
Características

Sistema derivado da Fachada Muro Invertido mas que oferece uma estética exterior distinta. No sentido vertical, os vidros ocultam a estrutura portante, produzindo-se uma união vidro-vidro, enquanto que na horizontal, sobre o perfil pressionante que fixa o vidro, se coloca uma capa com forma elíptica ou redonda, realçando a vista horizontal deste tipo de fachadas. A secção visível, quer no interior, quer no exterior dos montantes e travessas é de 65 mm. Ambos os perfis apresentam canais de drenagem e ventilação que garantem, juntamente com o sistema de juntas de EPDM uma estanquidade e permeabilidade máximas.

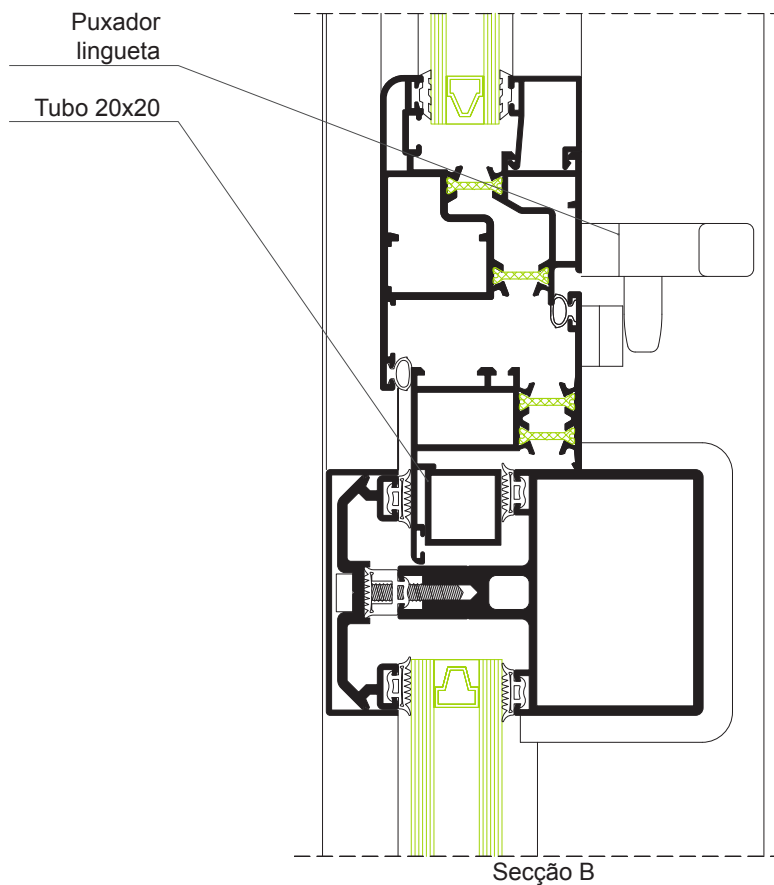
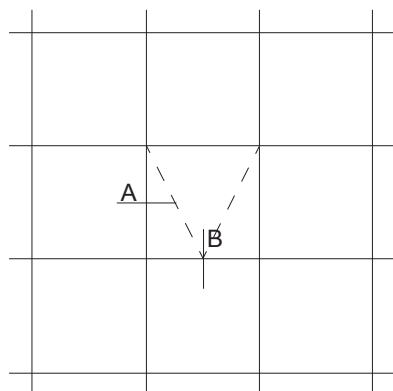
Possibilidades de abertura

Este tipo de fachada, ao contrário de todos os outros, permite qualquer tipo de abertura proporcionada pelos Sistemas Anicolor. A janela é fixa à estrutura com ajuda do perfil pressionante que fixa o vidro à fachada. Existe também a possibilidade de realizar aberturas projectantes "ocultas", isto é, não visíveis do exterior.

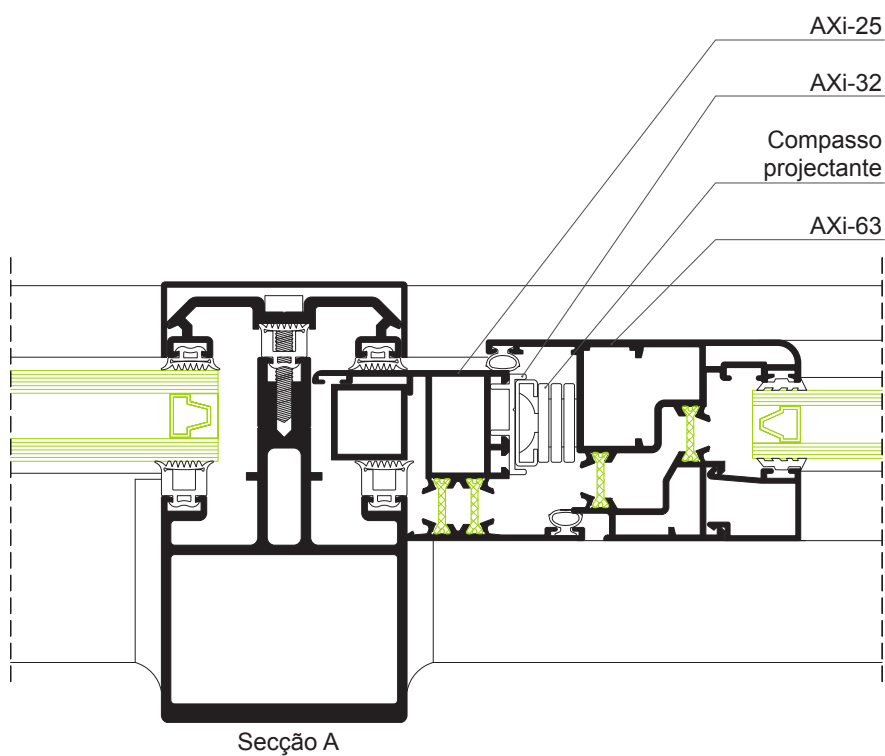
Pormenor horizontal e vertical



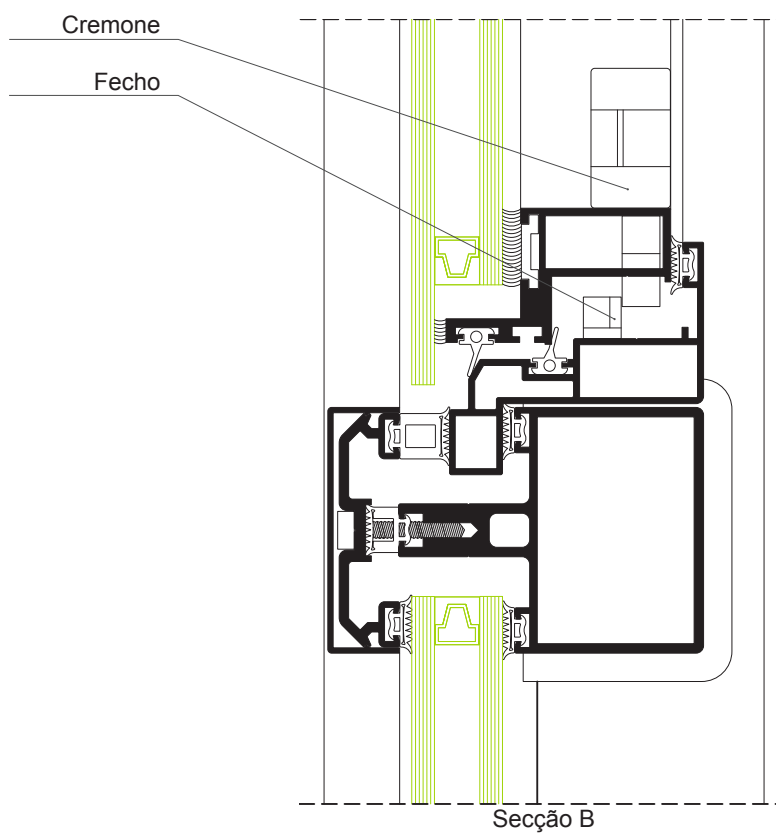
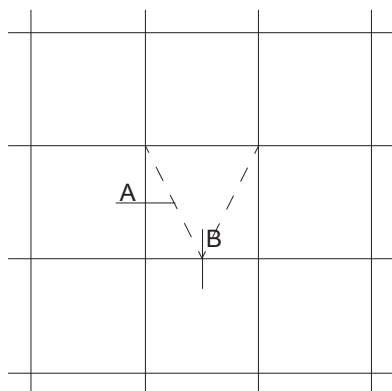
Pormenor horizontal e vertical Janela projectante-deslizante (AXi)



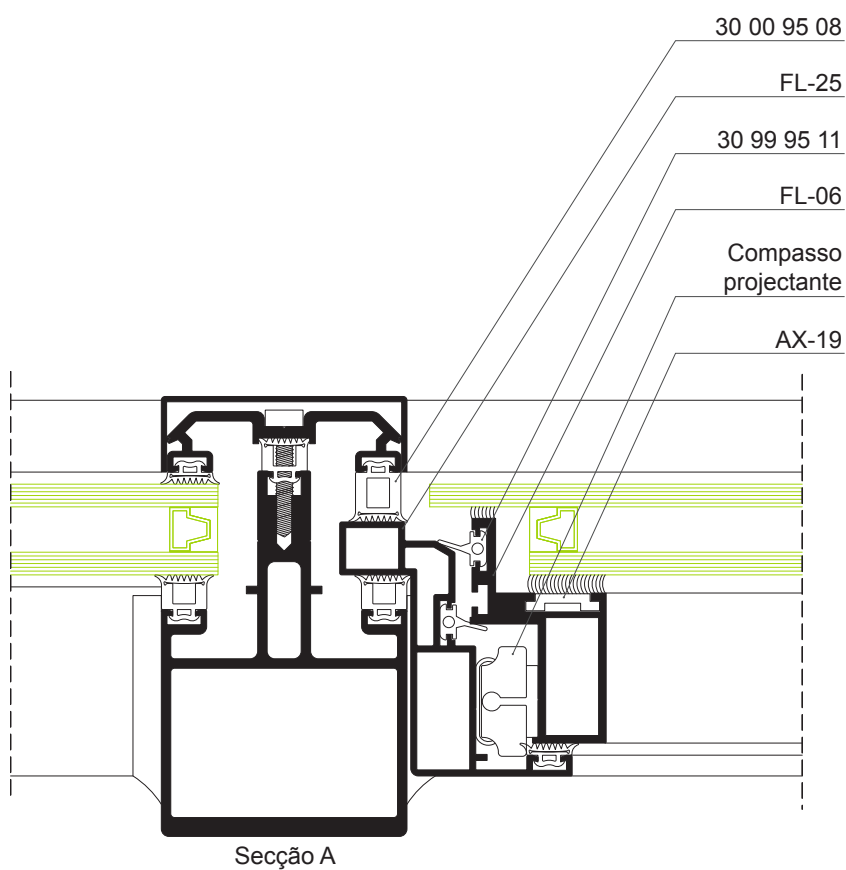
466



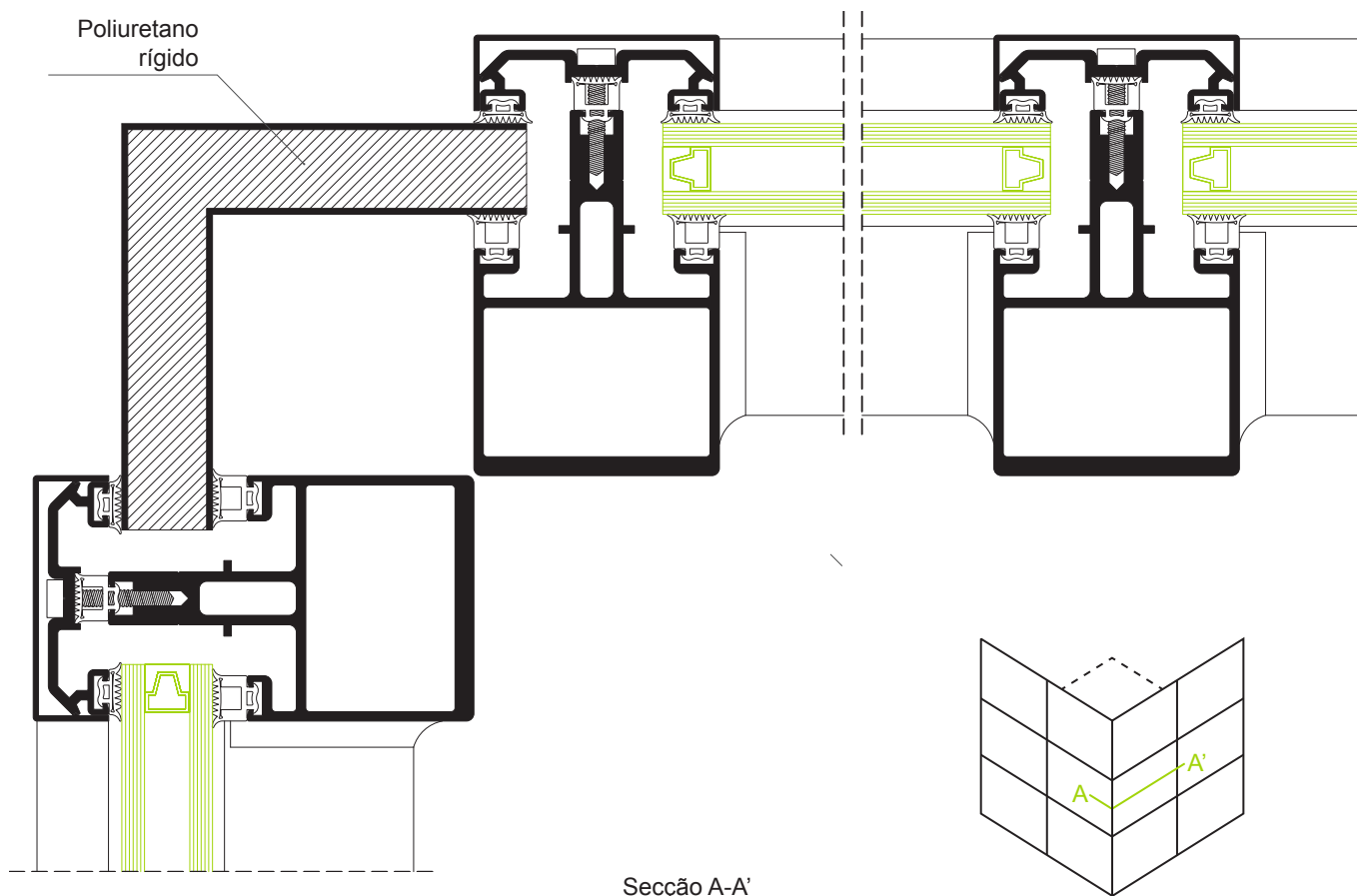
**Pormenor horizontal e vertical
Janela projectante-deslizante (folha oculta)**



467

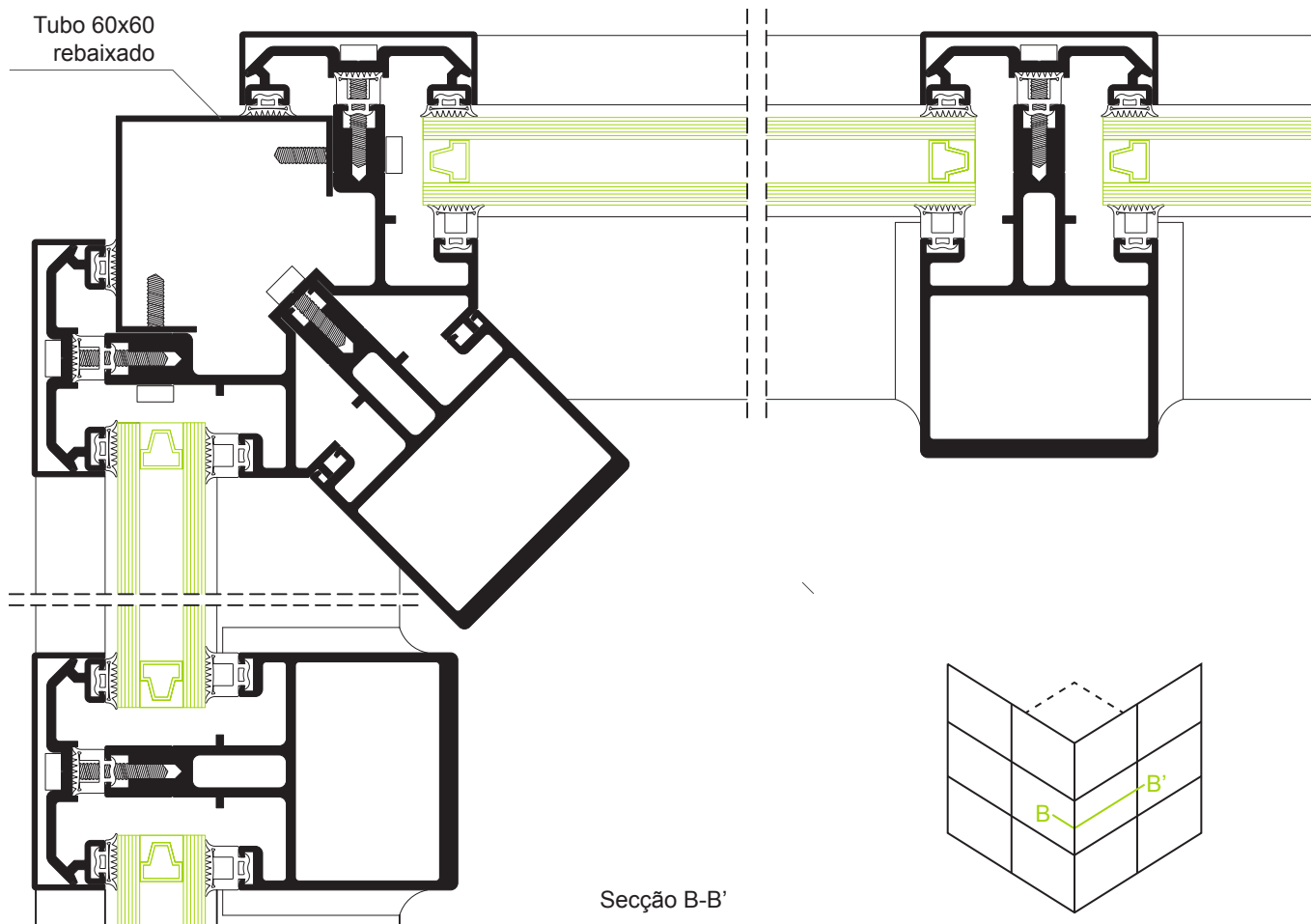


Pormenor canto 90°

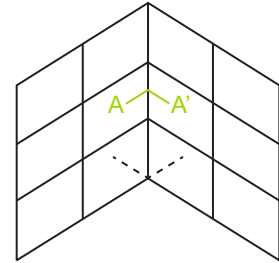
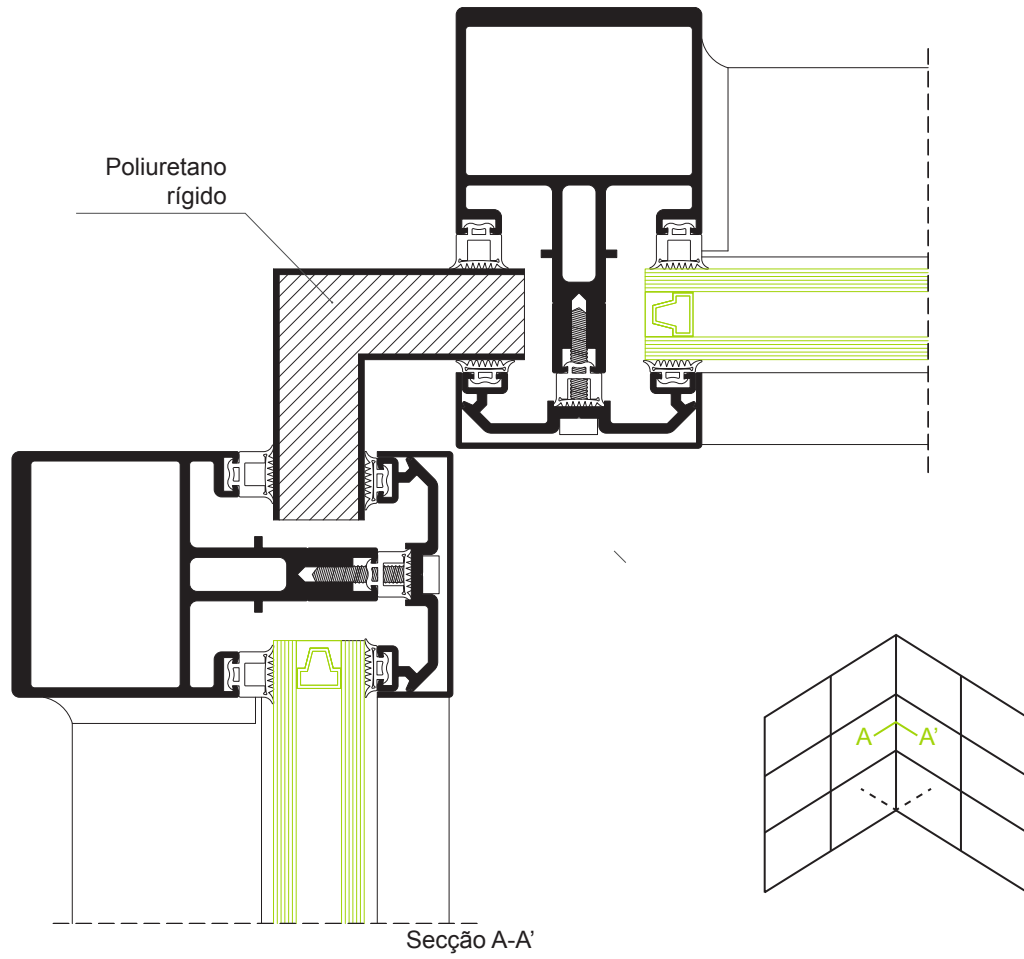


468

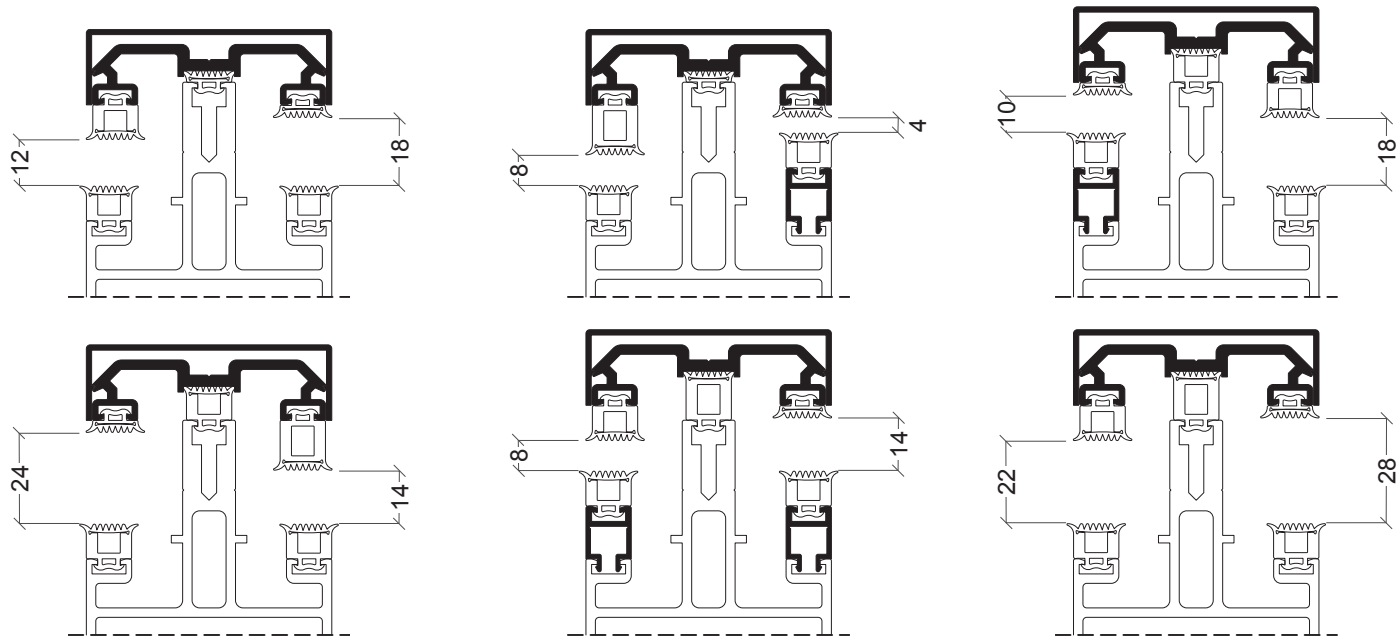
Pormenor canto 90°



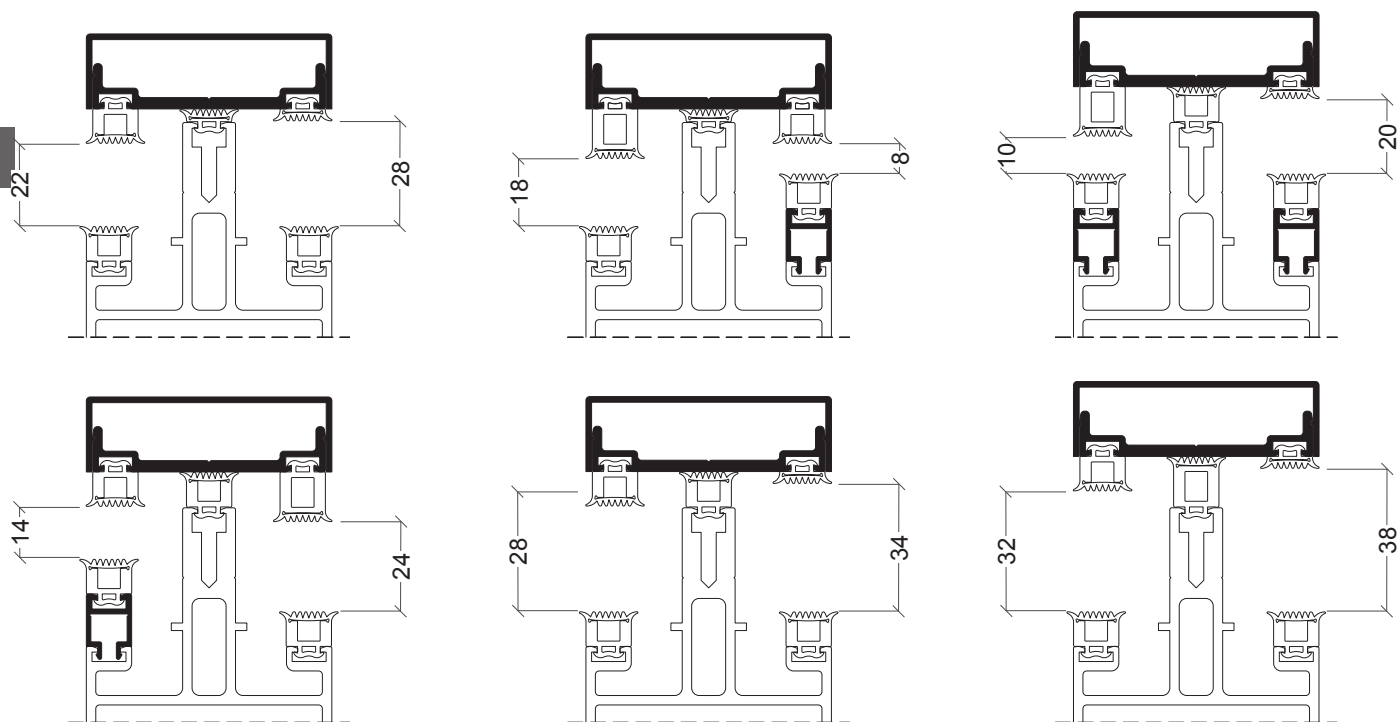
Pormenor canto 90°







Caixas de vidro

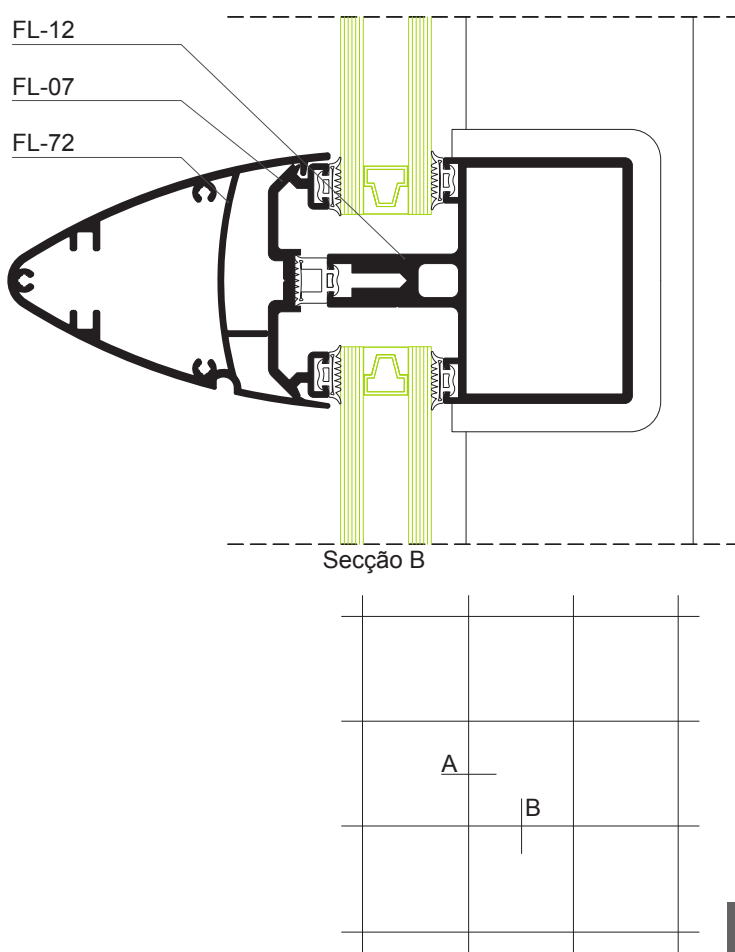
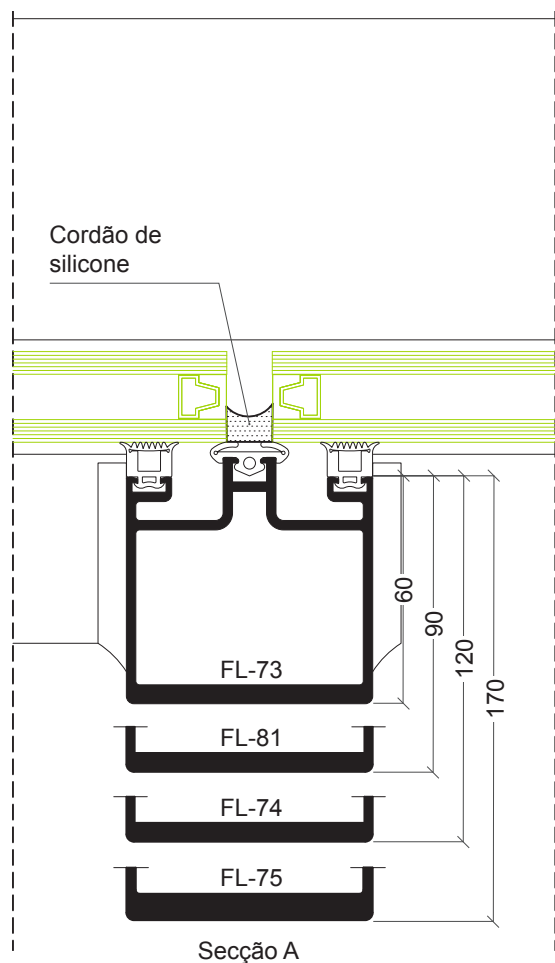


Caixas de vidro

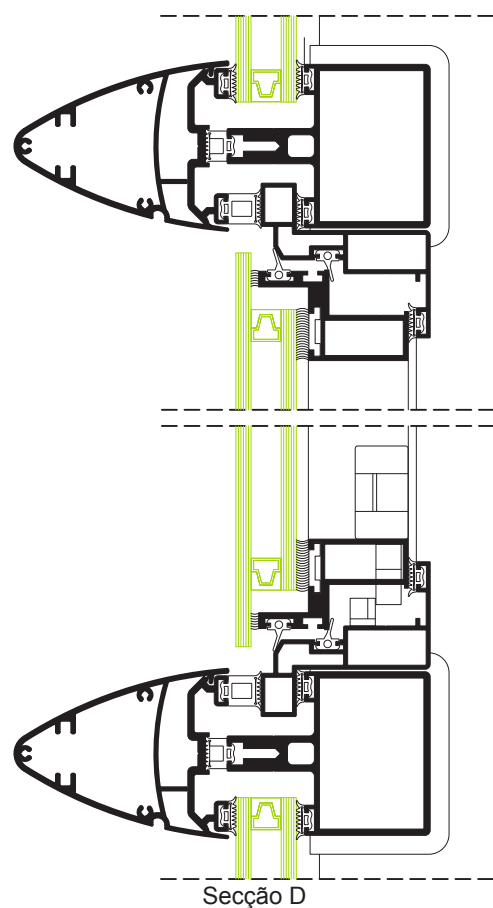
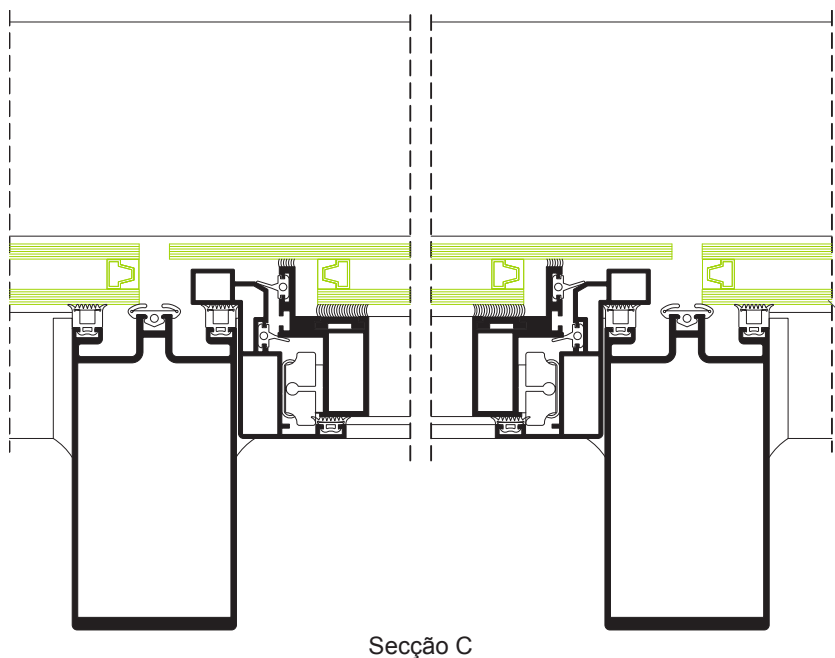
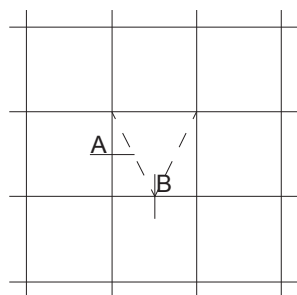


Referência	Desenho	Descrição
FL-32		Suplemento de muro invertido
30 00 95 01	 ↕ 11	Junta interior montante Junta central montante e travessa (muro invertido)
30 00 95 05	 ↕ 5	Junta interior de travessa
30 00 95 08	 ↕ 15	Junta central montante e travessa

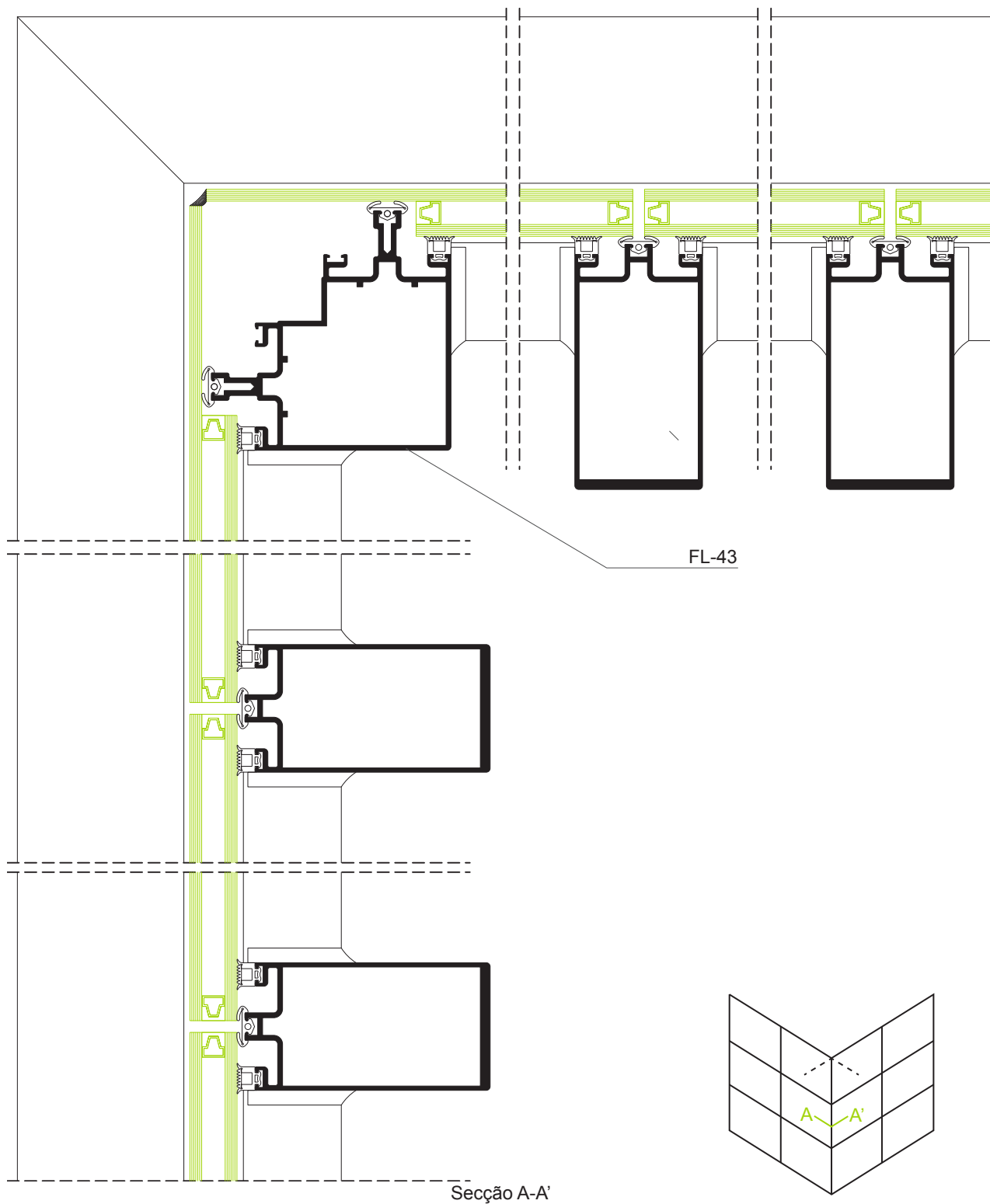
Pormenor horizontal e vertical

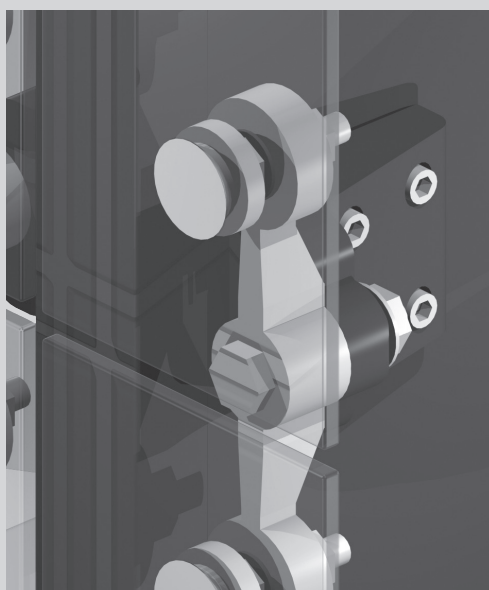
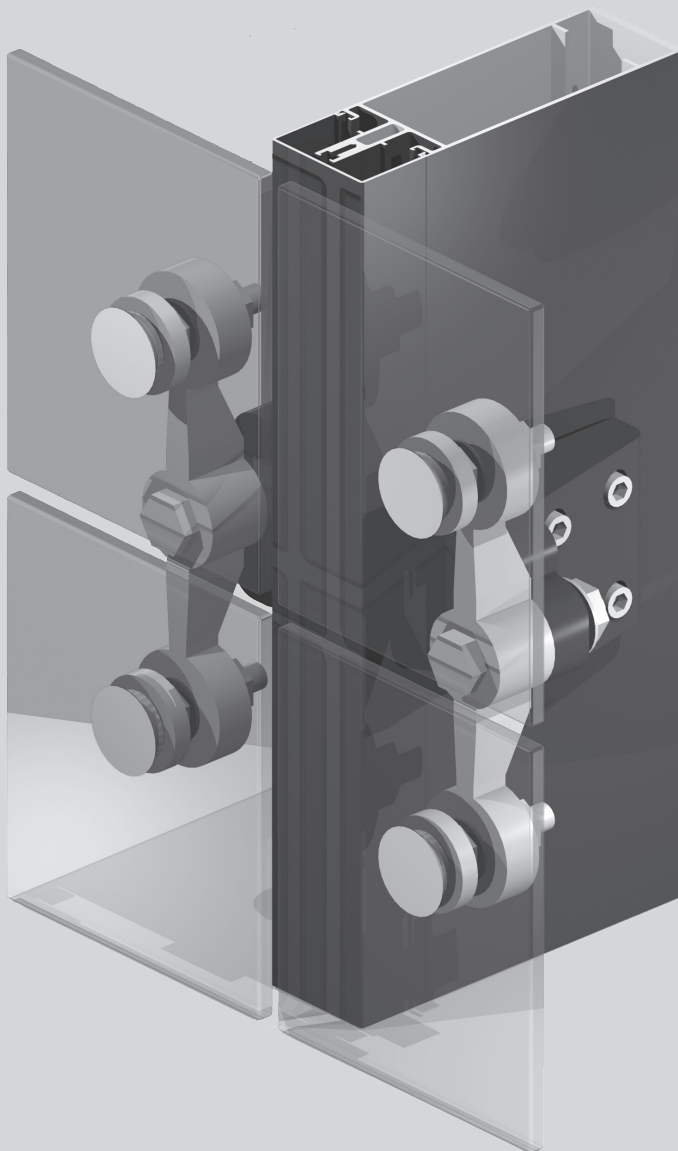


Pormenor horizontal e vertical
Janela projectante



Pormenor canto 90°





**Fachada
Milénio**

Fachada Milénio

Características

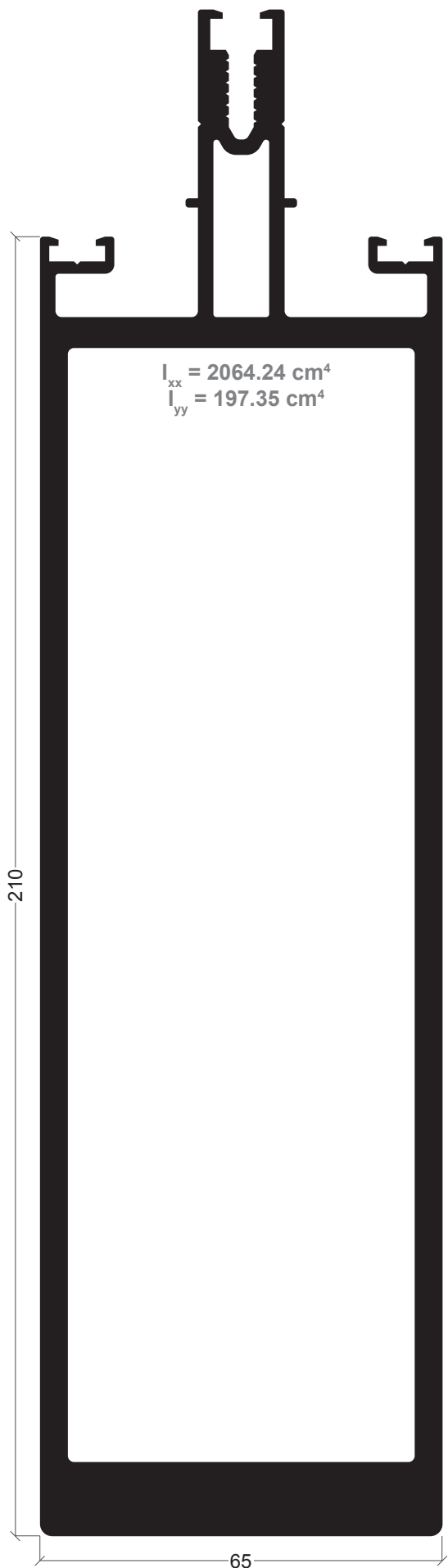
Sistema de fachada ligeira, onde o vidro exterior é fixo mediante grampos e peças de fixação, fixas ou com rótulas. Os grampos, fabricados em aço inoxidável são fixos às peças de suporte do vidro. O vidro, temperado e/ou laminado é previamente mecanizado para permitir a sua fixação à estrutura. As peças de fixação apresentam as seguintes vantagens:

- facilitam a colocação do vidro;
- amortecem as deformações produzidas no vidro (pressão do vento, dilatações, ...);
- permitem corrigir defeitos construtivos.

A estrutura portante sobre a qual se fixam os grampos é formada por perfis verticais de alumínio com a elevada espessura de 65 mm de secção visível. Tal espessura confere a estes perfis um elevado momento de inércia, permitindo construções com grandes distâncias entre apoios. Este sistema complementa-se com outros perfis e juntas que permitem realizar as mais variadas soluções construtivas.

Possibilidades de abertura

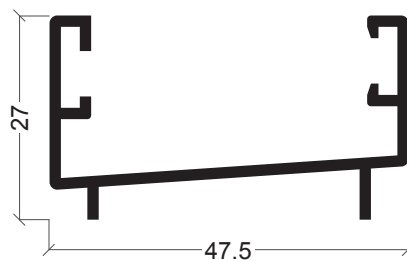
Este sistema não oferece possibilidade de abertura.



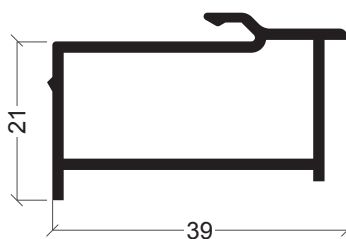
FL-34
Montante de 210 mm



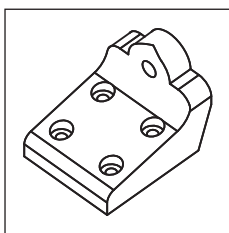
FL-53
Remate topo de montante



FL-54
Remate

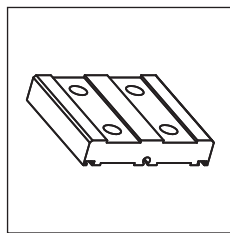


FL-55
Porta-vedante



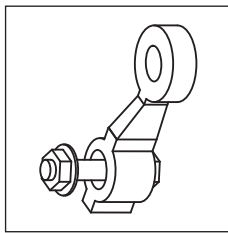
30 20 96 01

Suporte do vidro



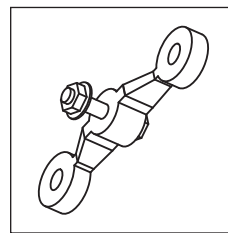
30 20 96 02

Contra-placa



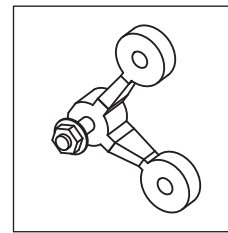
30 20 96 03

Grampo 1 (0°) (peso vidro máx. 300 kg)



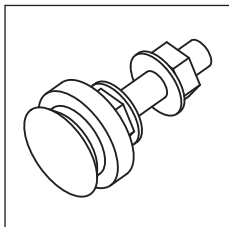
30 20 96 04

Grampo 2 (180°) (peso vidro máx. 300 kg)



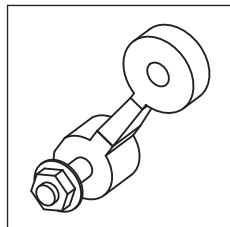
30 20 96 05

Grampo 3 (90°) (peso vidro máx. 300 kg)



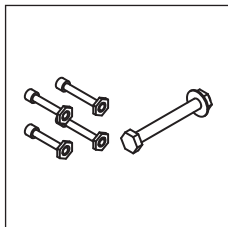
30 20 96 06

Rótula
(vidro monolítico 8-12 mm)
(vidro laminado 8-12 mm / 6-15 mm)



30 20 96 09

Grampo 4 (45°) (peso vidro máx. 300 kg)

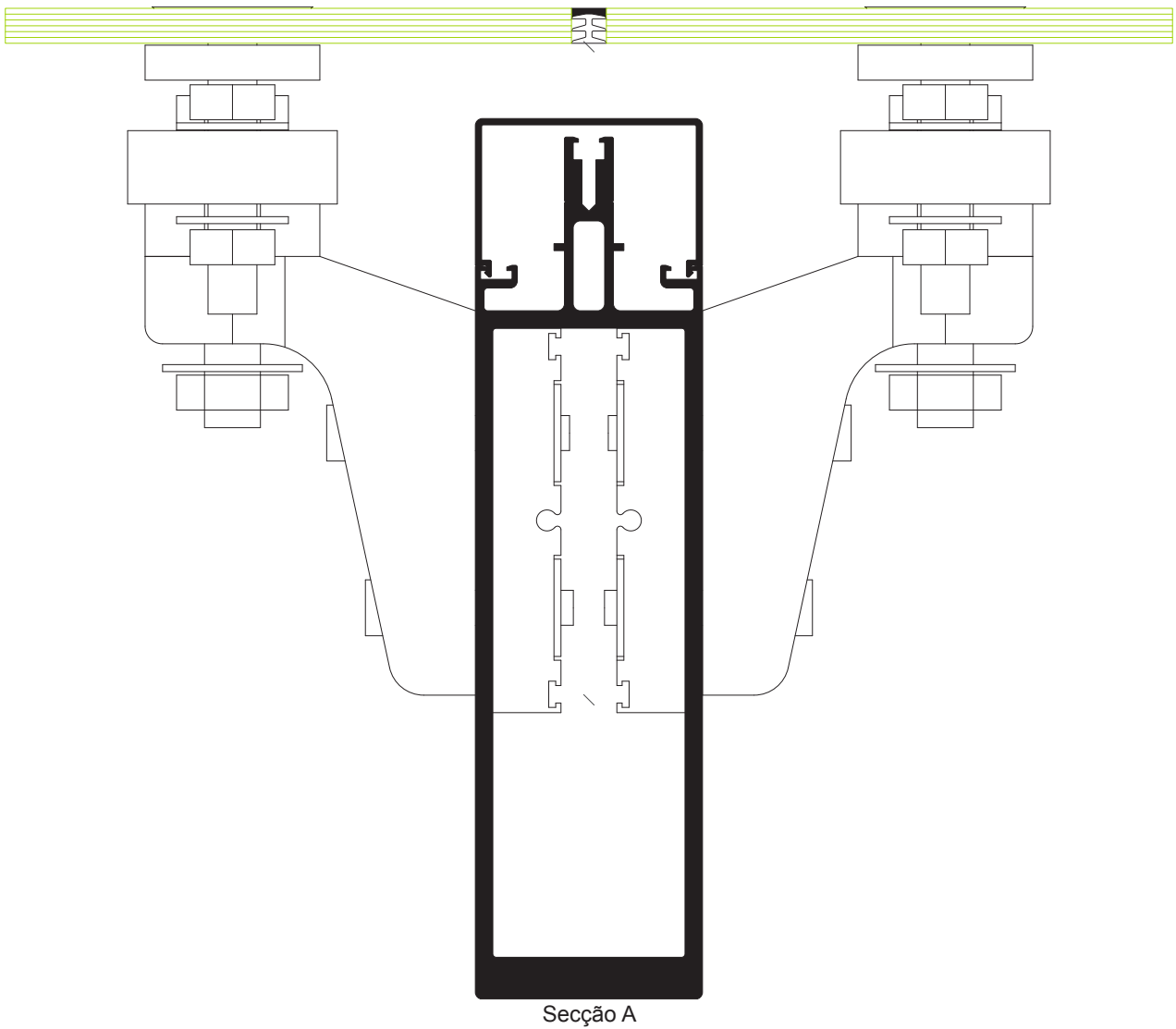
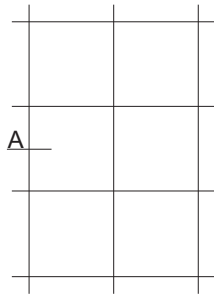


30 27 96 01

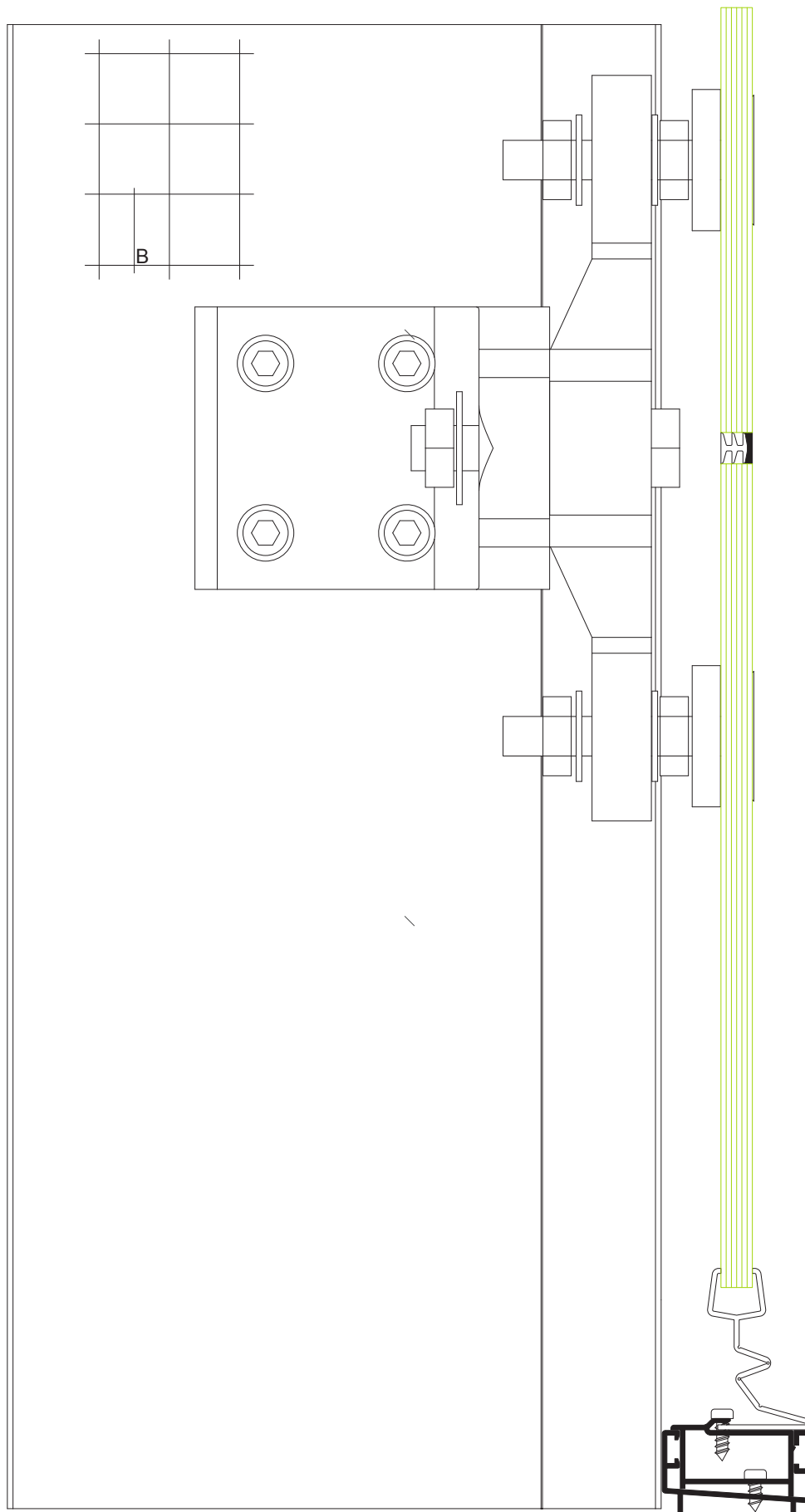
Kit de fixação

Referência	Desenho	Descrição
30 20 96 07		Junta de remate
30 20 96 08		Junta entre vidros

Pormenor horizontal



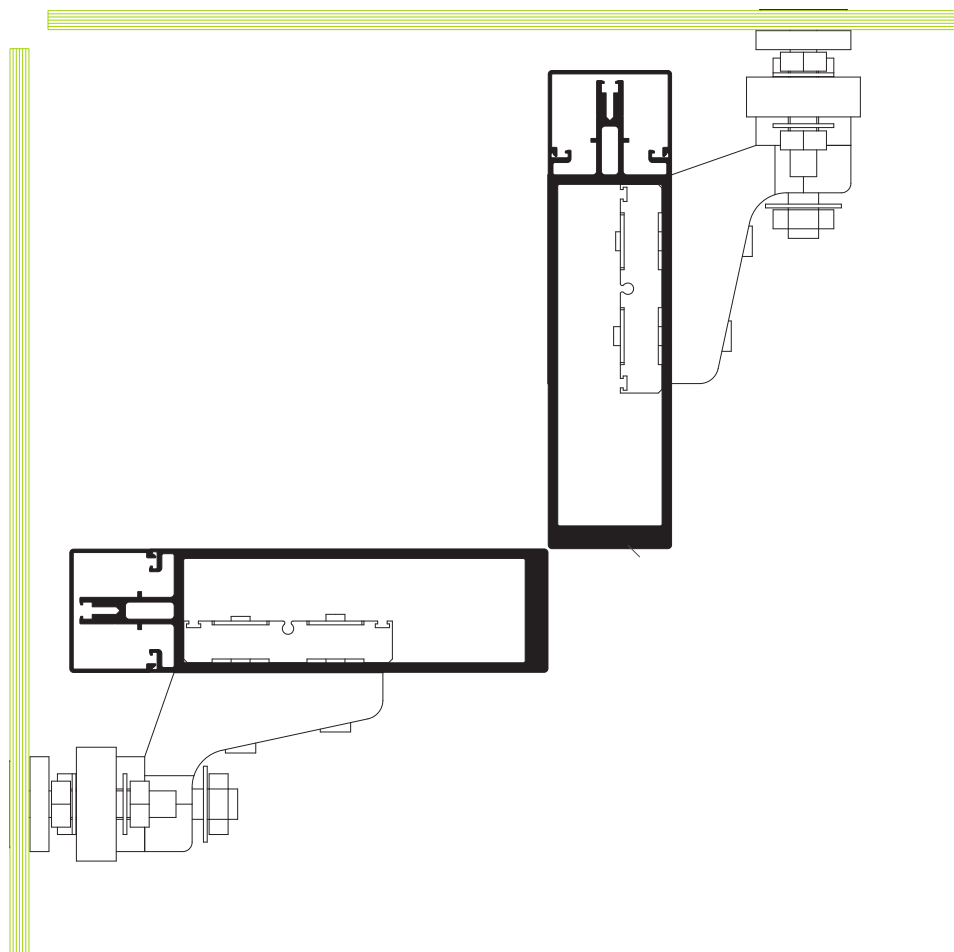
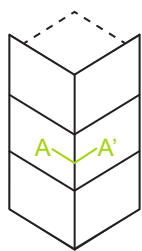
Pormenor vertical



478

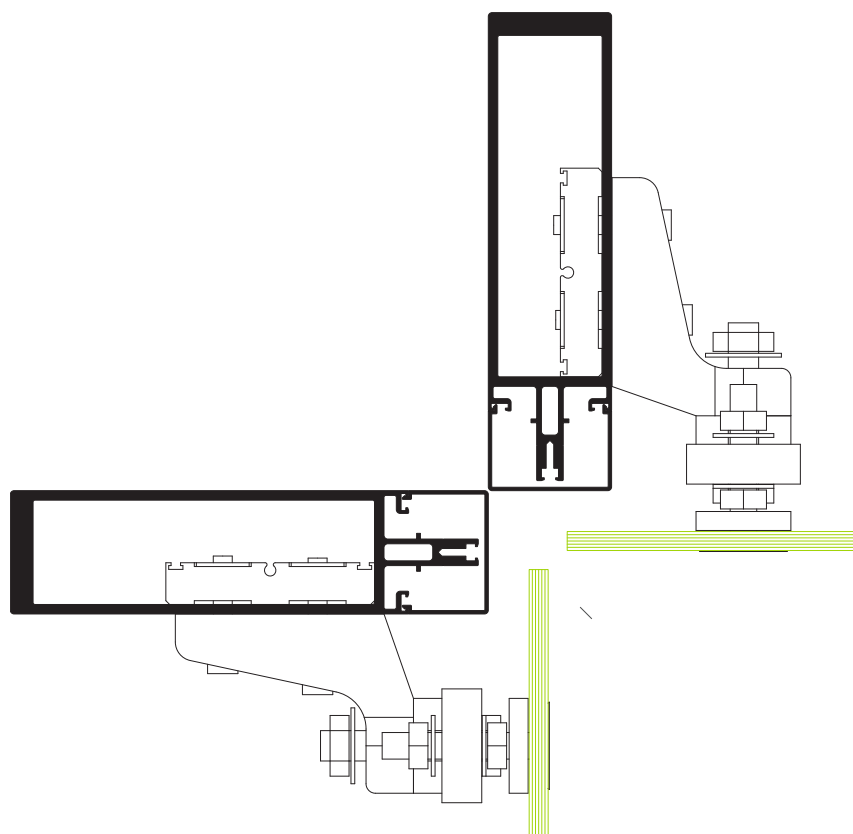
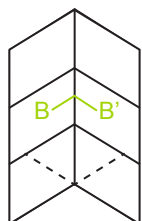
Secção B

Pormenor canto 90°



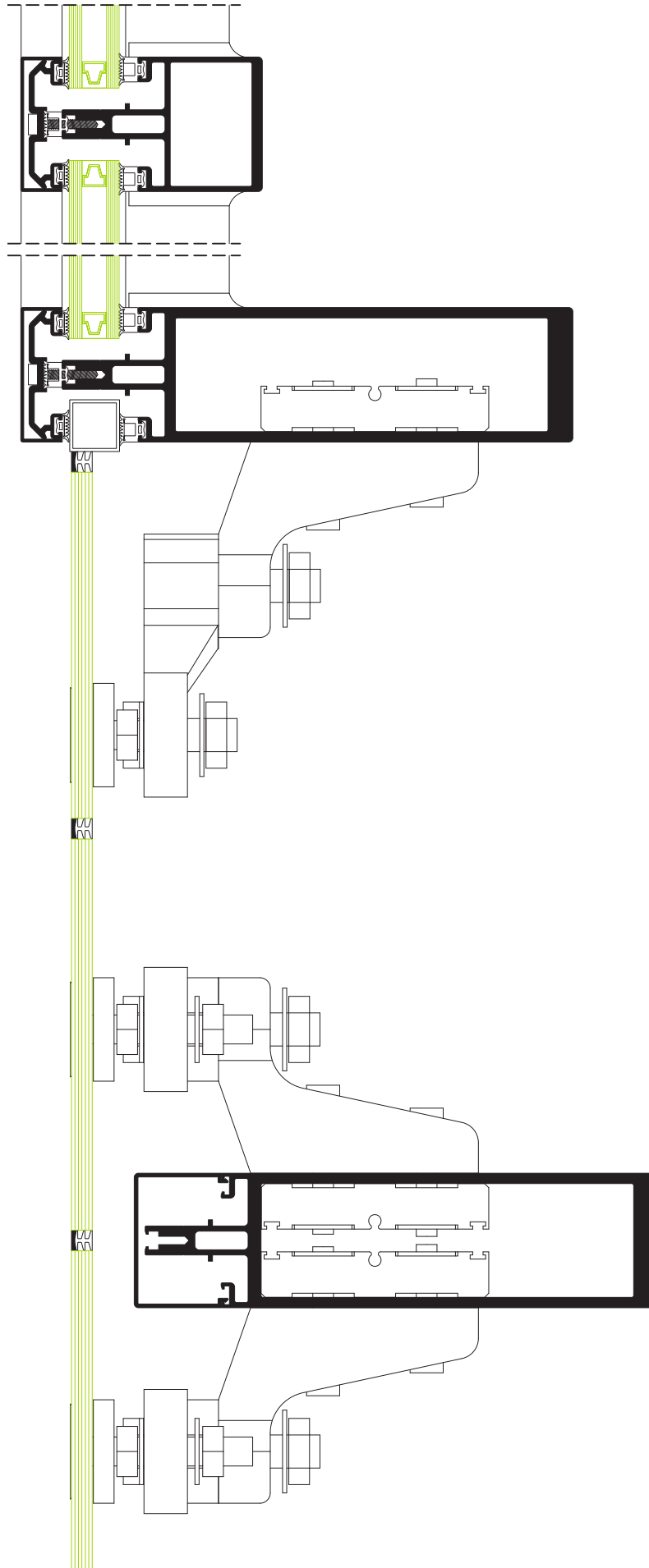
Secção A-A'

Pormenor canto 90°



Secção B-B'

Pormenor horizontal



480

Secção A-A'



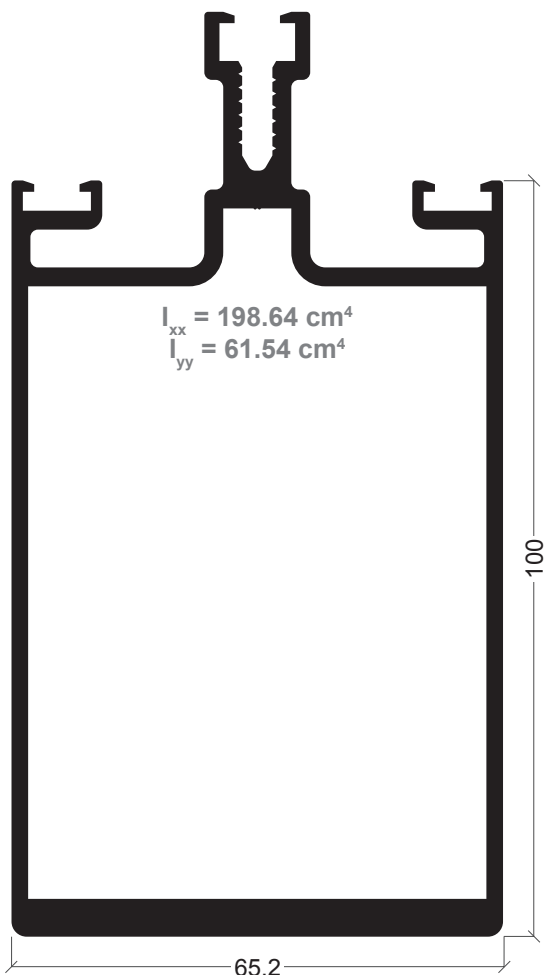
**Sistema
Ergolux**

Sistema Ergolux

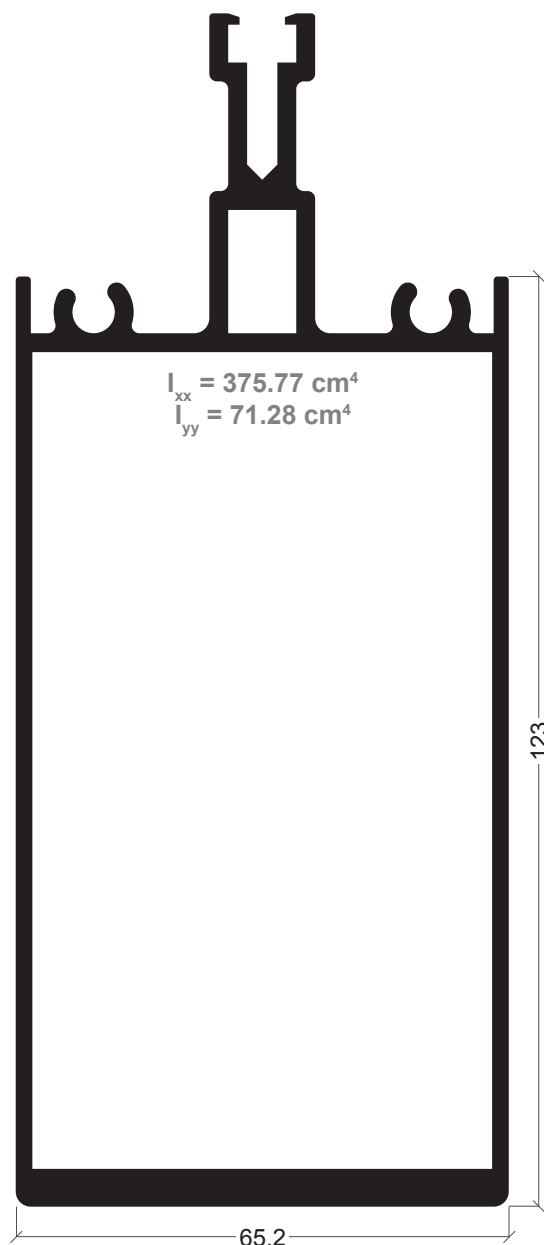
Características

Este sistema utiliza o princípio fundamental de canais de drenagem e ventilação dos sistemas de fachada. Complementa-se com perfis que permitem adoptar distintas soluções, tanto em clarabóias como em varandas. Podem assim gerar-se novos espaços com grande luminosidade.

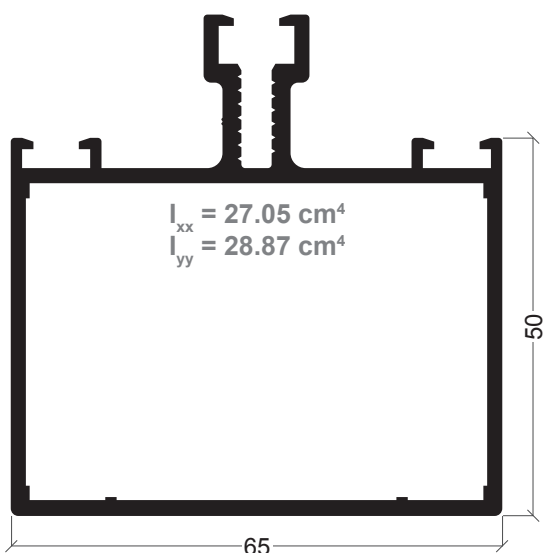
Os perfis deste sistema têm uma secção visível interior de 65 mm, enquanto que a sua profundidade varia segundo as necessidades do cálculo estático (estrutura portante, carga de neve, zona eólica, etc.) Do mesmo modo, existe uma grande gama de capas pressionantes do vidro com várias possibilidades de ajuste, permitindo assim que se consigam os ângulos necessários para cada caso. Este sistema, aplicado em coberturas ou solários, contém perfis de ligação com e sem rotura térmica, que permitem a utilização de qualquer tipo de abertura. A total estanquidade do sistema é garantida pelo conjunto de juntas em EPDM, resistentes aos agentes atmosféricos.



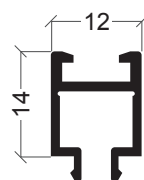
FL-41
Montante 100 mm



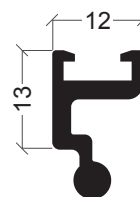
FL-56
Montante regulável



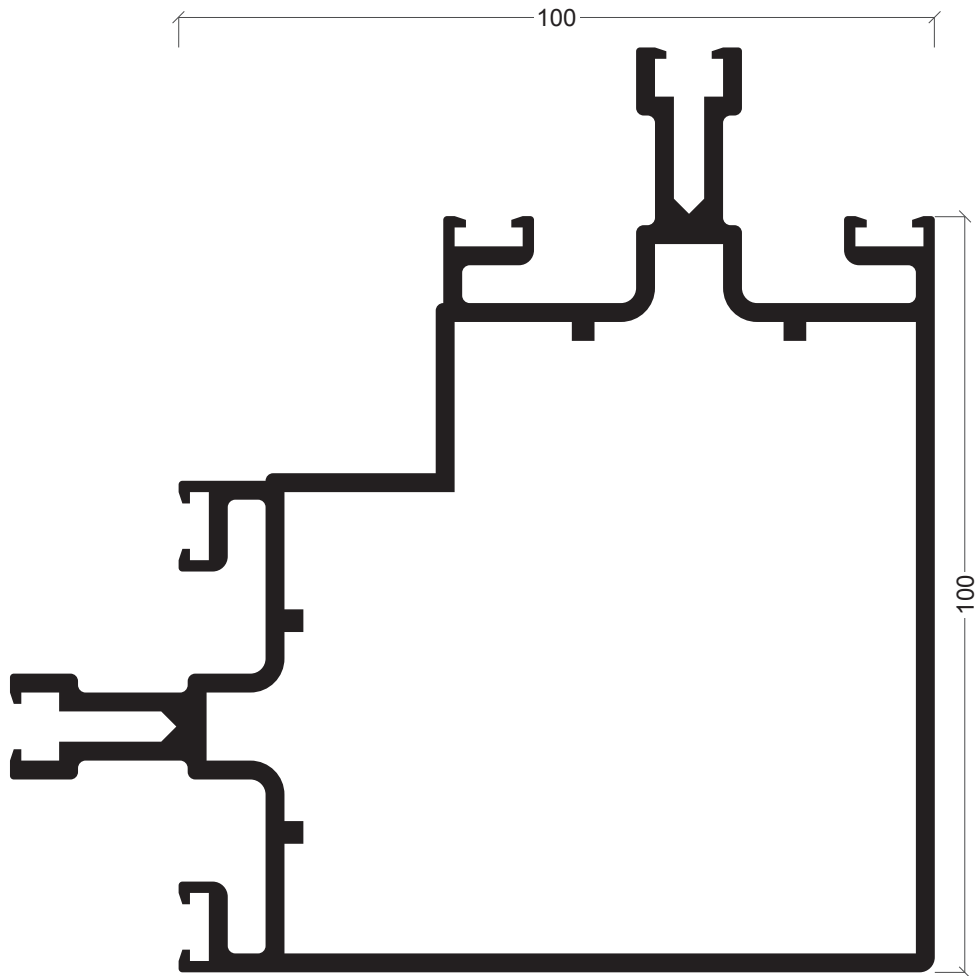
FL-42
Travessa



FL-32
Suplemento

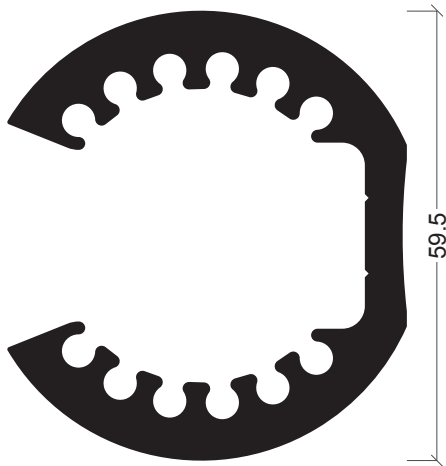


FL-23
Porta vedante regulável

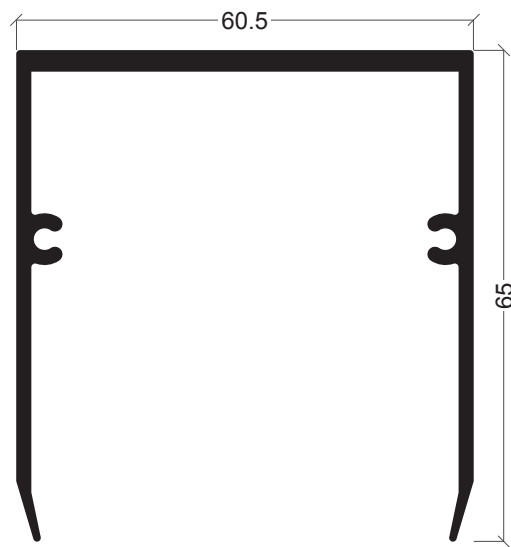


484

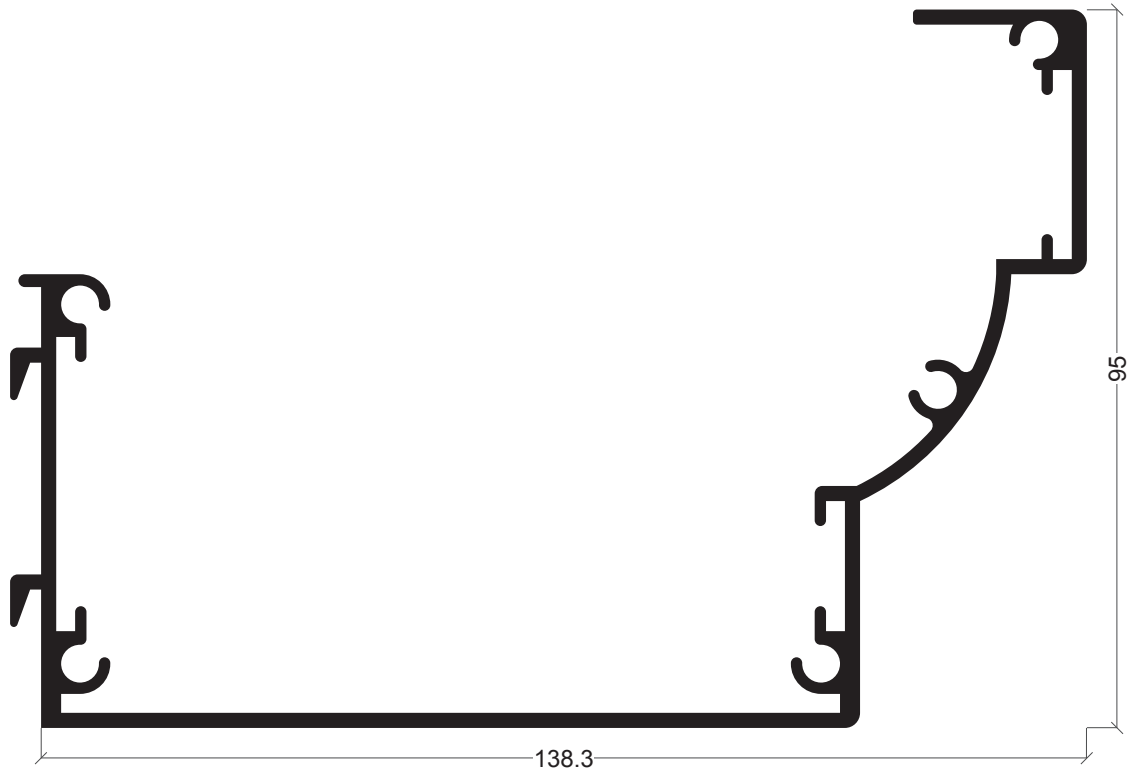
FL-43
Esquina 90°



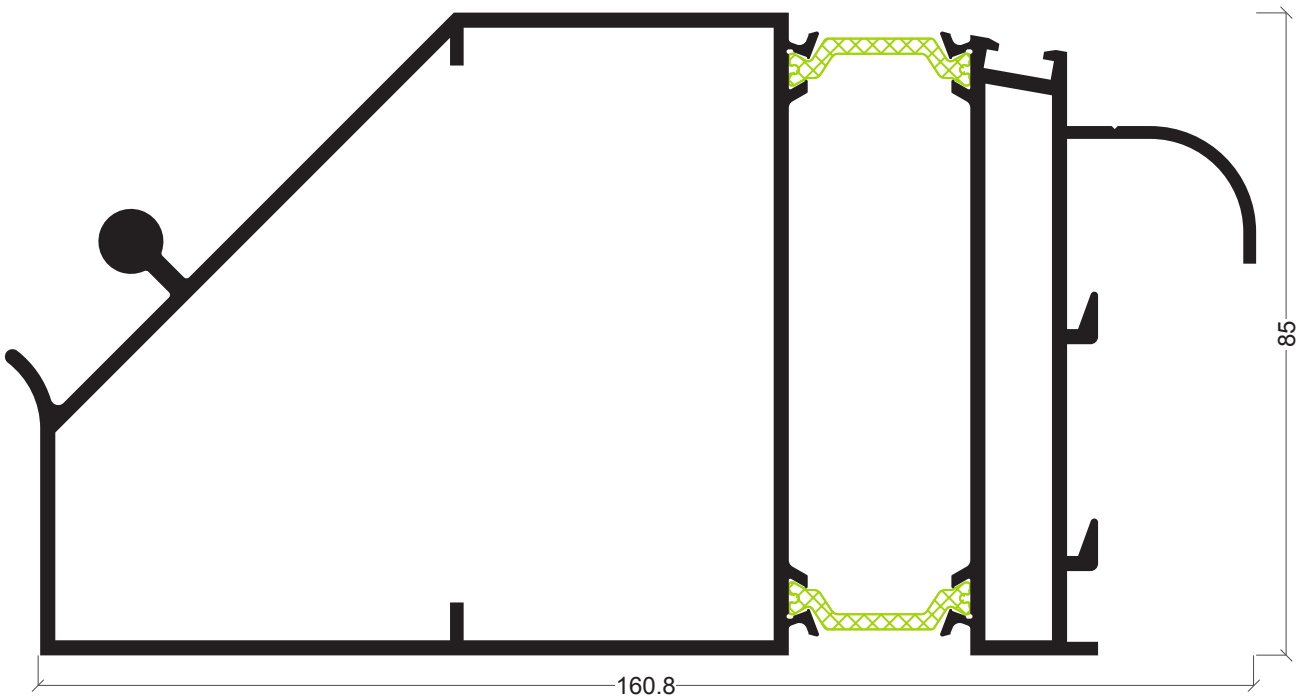
FL-69
Topo de fixação



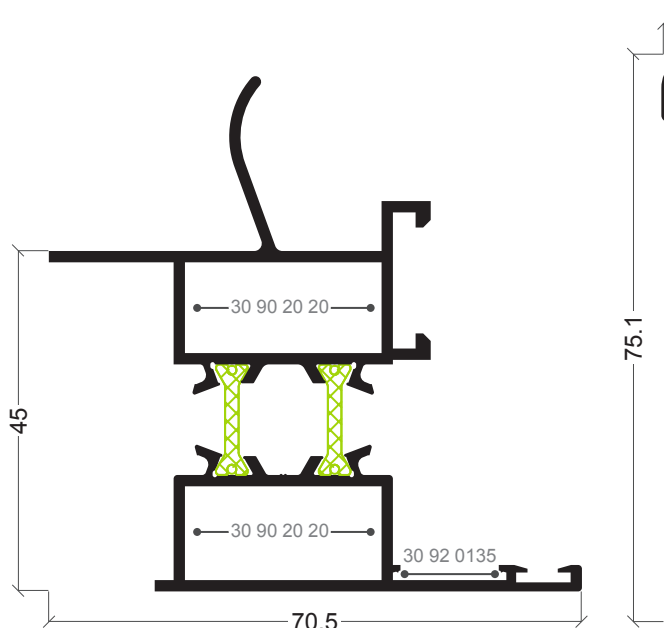
FL-68
Topo de travessa



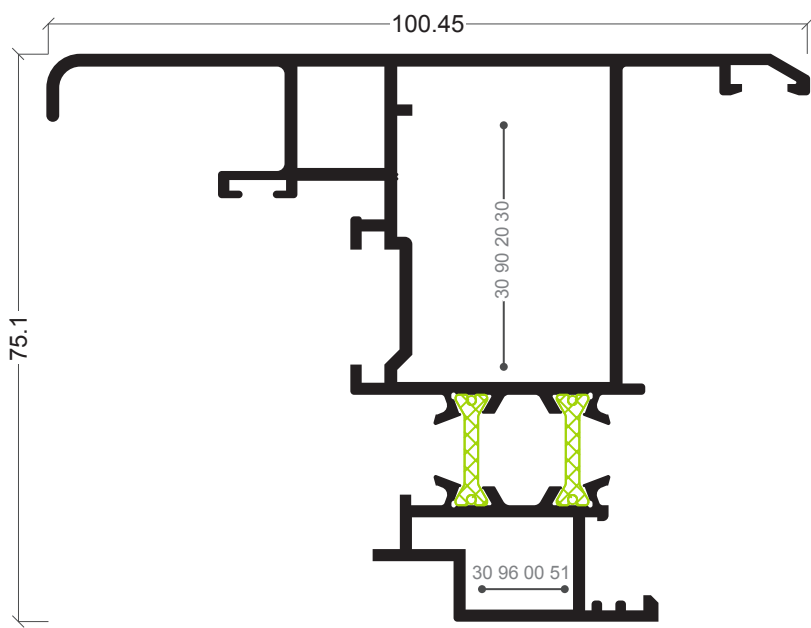
FL-57
Caleira



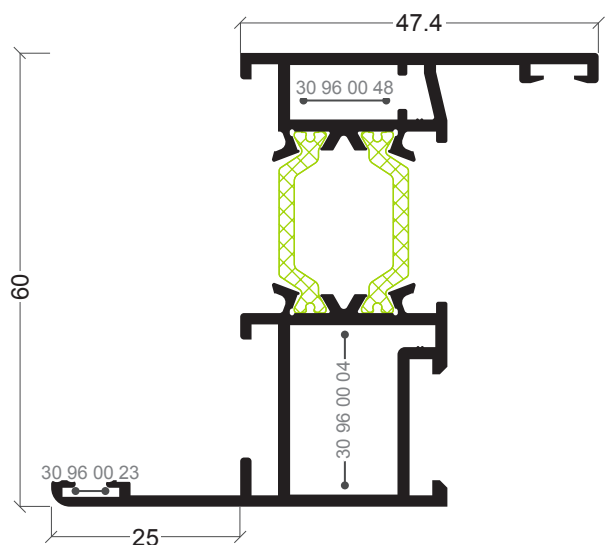
FL-60
Porta basculante inferior



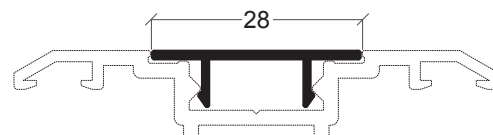
FL-65
Aro fixo claraboia



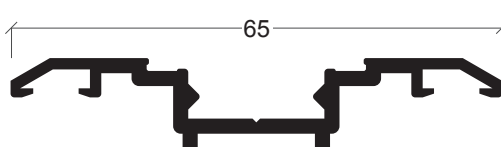
FL-64
Aro móvel claraboia



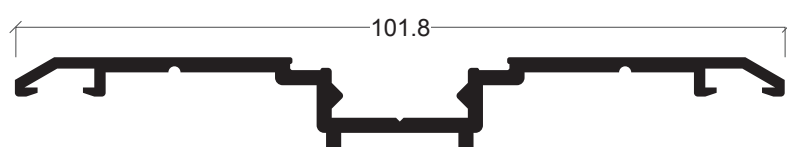
ARi-35
Aro fixo com remate 25 mm



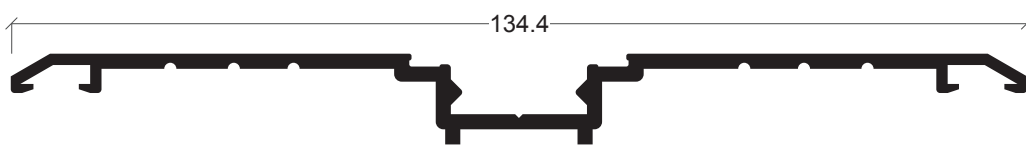
FL-66
Tampa



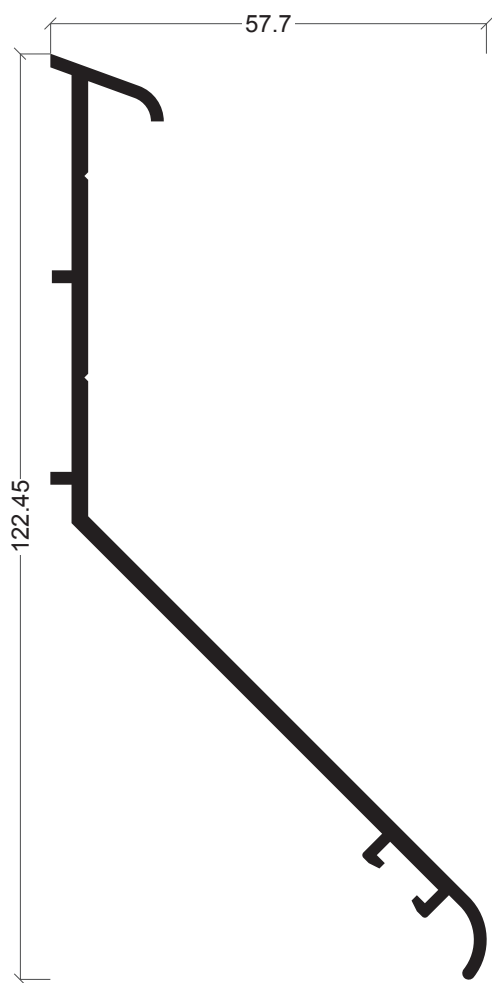
FL-44
Contra tampa



FL-59
Contra tampa (quinar em bruto)



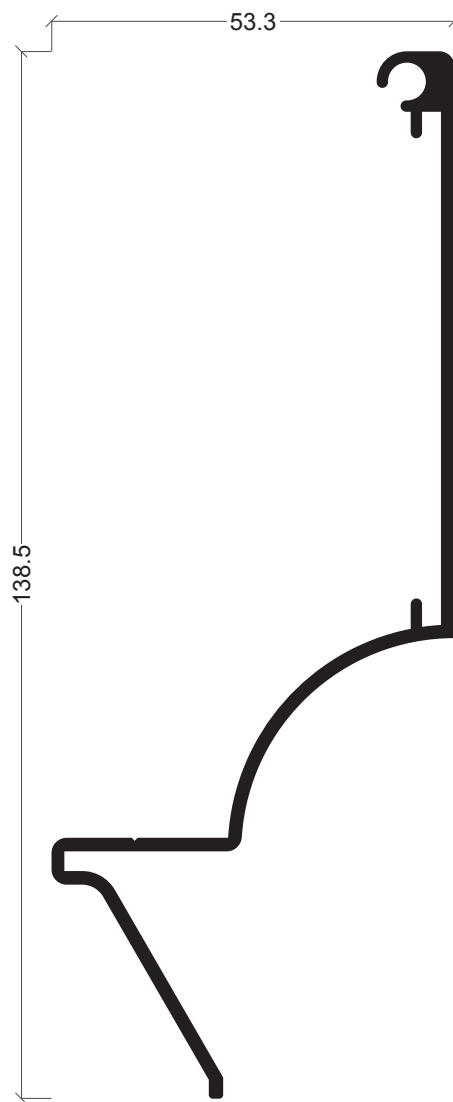
FL-67
Contra tampa (quinar em bruto)



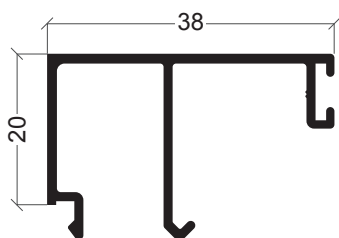
FL-63
Pingadeira superior



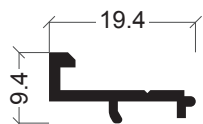
FL-62
Suporte montante basculante



FL-58
Suplemento caleira



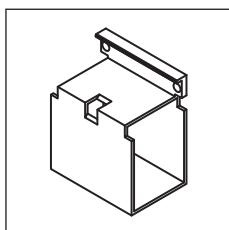
AX-32
Bite



ARi-29
Apoio bite

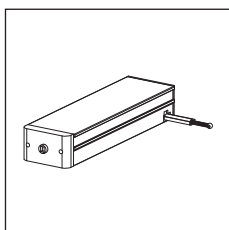


FL-61
Porta basculante superior



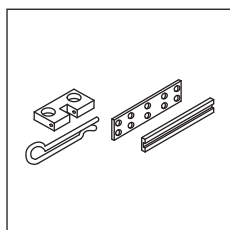
30 00 90 66

Topo travessas



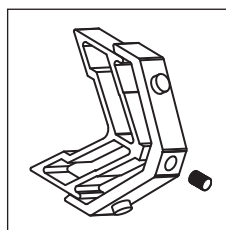
30 00 95 75

Motor abertura exterior
(60 kg - L < 1.4 mt)



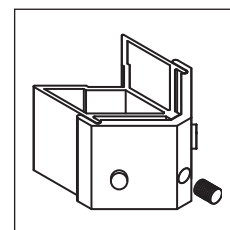
30 00 95 77

Conjunto de transmissão
projectante



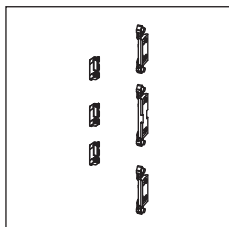
30 90 20 20

Esquadro aro fixo
claraboia



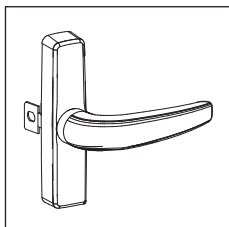
30 90 20 30

Esquadro aro móvel
claraboia



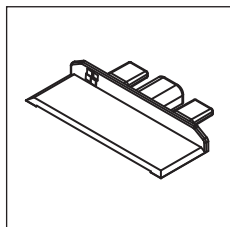
30 90 20 40

Transmissão abertura
claraboia



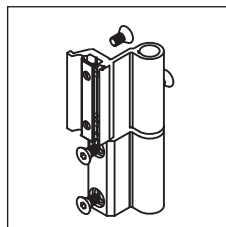
30 90 20 50

Puxador claraboia



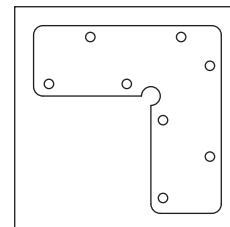
30 90 20 61

Topo de remate Ergolux
preto



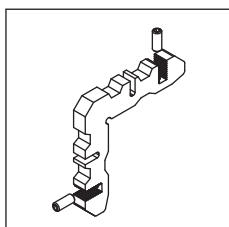
30 92 00 20/21

Dobradiça C.E. branco/
preto



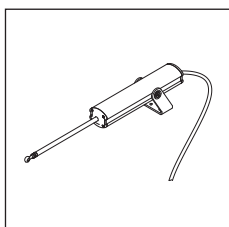
30 92 01 35

Esquadro alinhamento



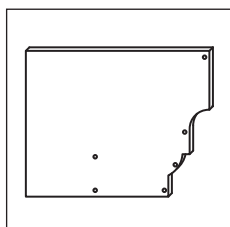
30 96 00 51

Esquadro de alinhamento
11.9 x 14 c/ parafusos



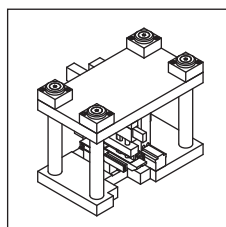
31 15 10 84

Motor eléctrico pistão
(80 kg - L < 1.5 mt)



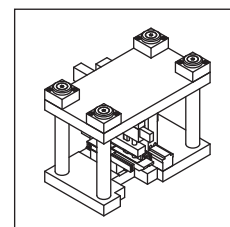
31 90 20 10

Topo para caleira em
alumínio



33 23 19 99

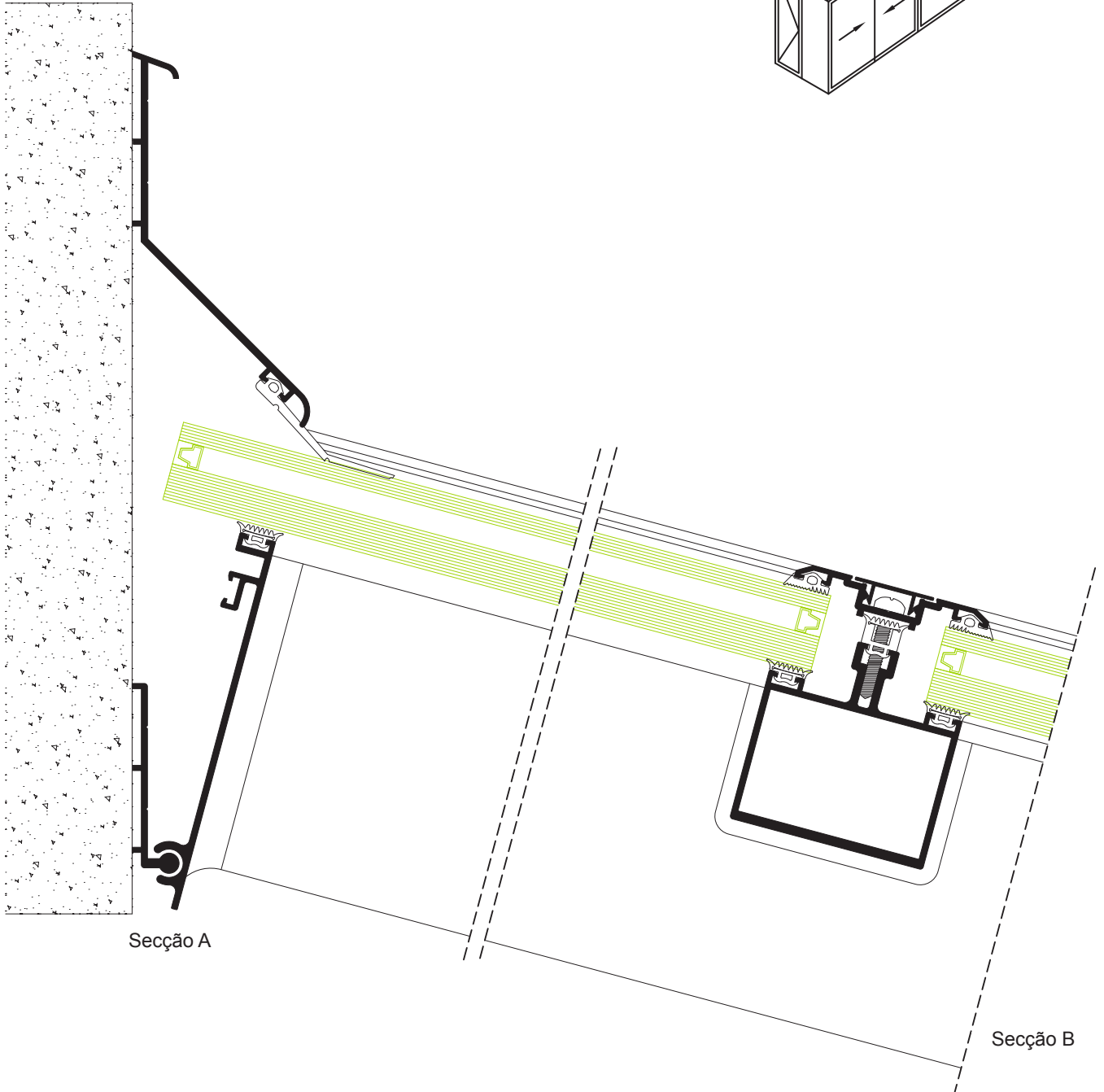
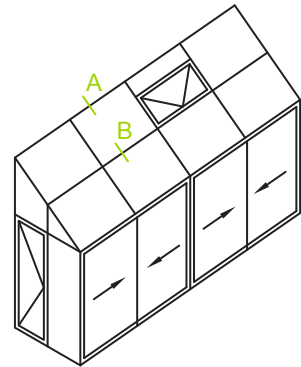
Cunho XP

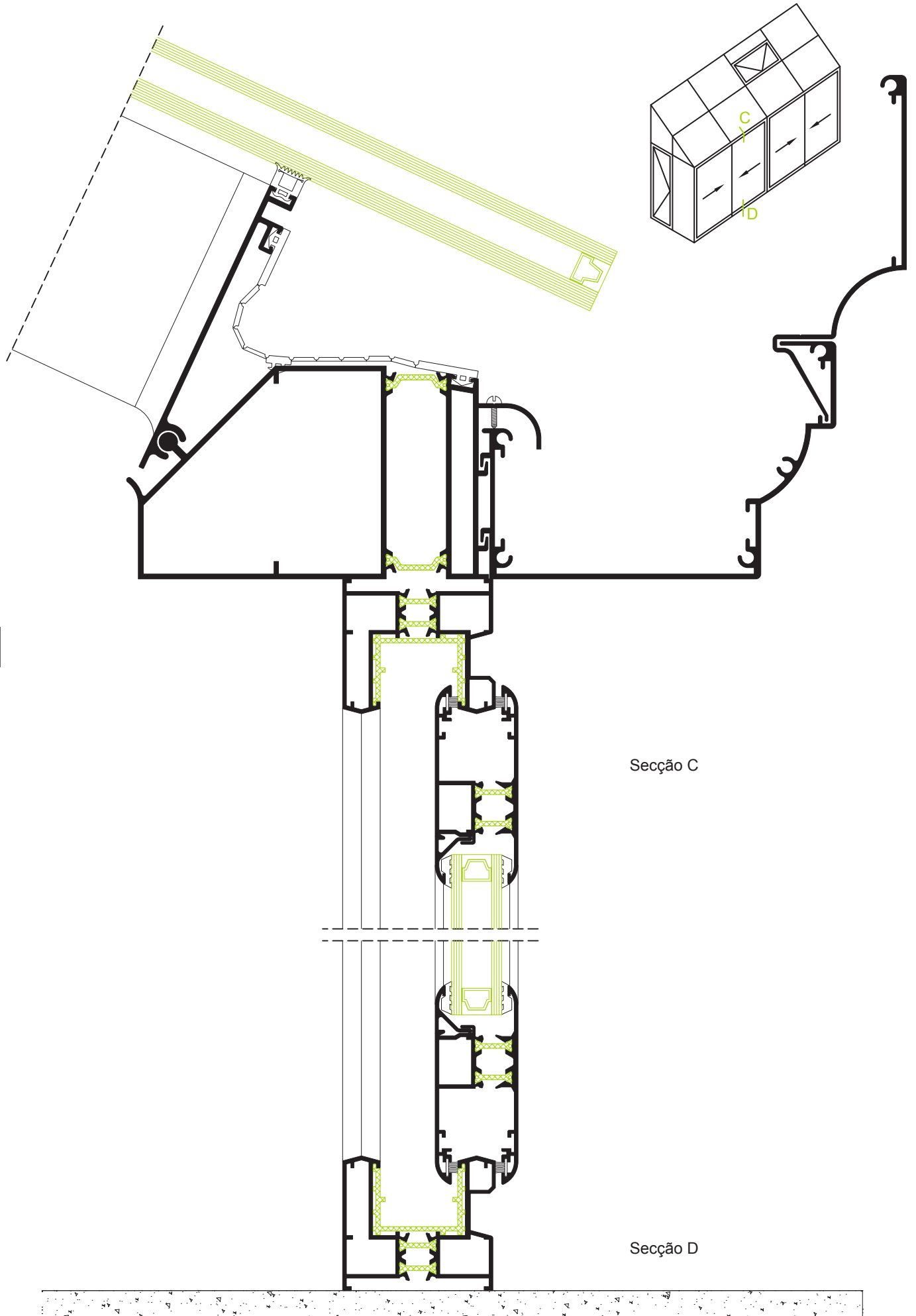


33 96 87 99

Cunho esquadro interior
e exterior ARI/AKi

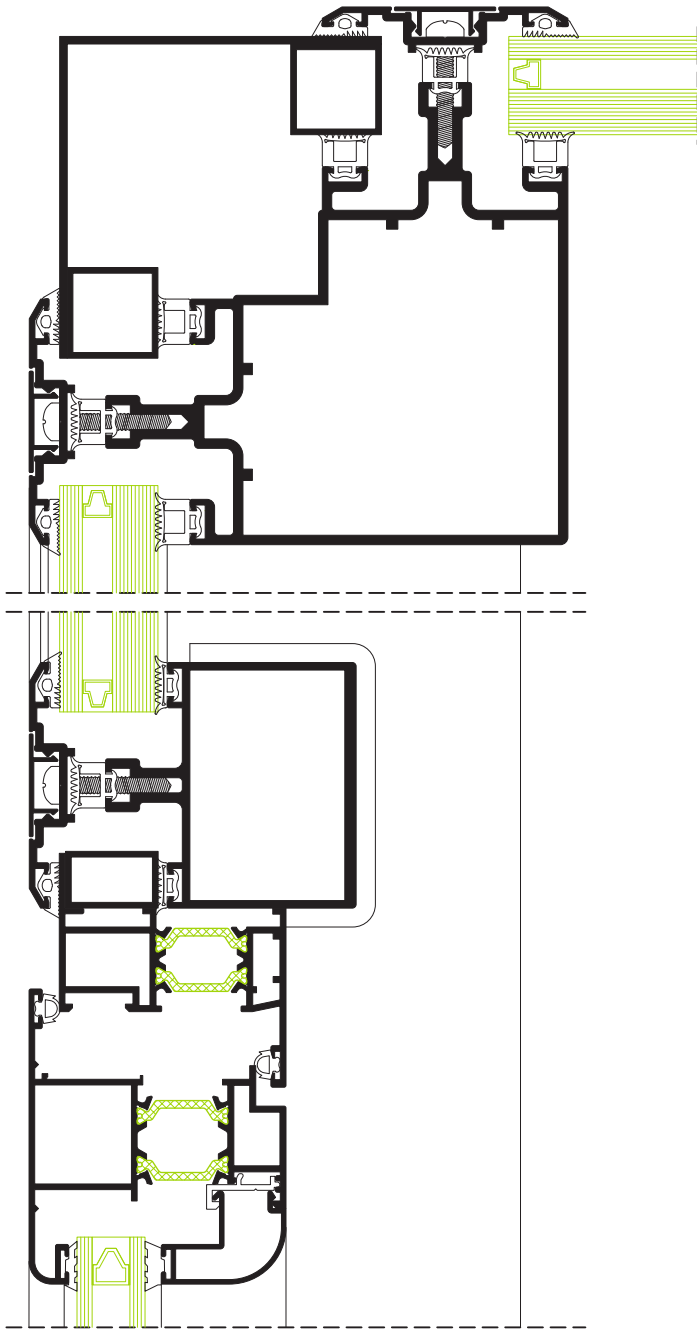
Referência	Desenho	Descrição
30 00 95 01	11	Junta interior montante Junta central montante e travessa
30 00 95 03		Junta central (montante e travessa)
30 00 95 05	5	Junta interior de travessa
30 00 95 06	7	Junta central montante e travessa
30 00 95 07	13	Junta central montante e travessa
30 00 95 08	15	Junta central montante e travessa
30 00 95 10		Junta de estanquidade travessa FL-42
30 00 95 76	9	Junta central montante e travessa
30 90 20 80		Junta exterior sistema ergolux
30 90 20 90		Junta remate superior seccionável
30 96 00 18		Junta para FL-65



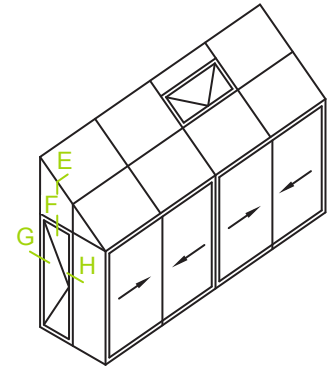


Seção C

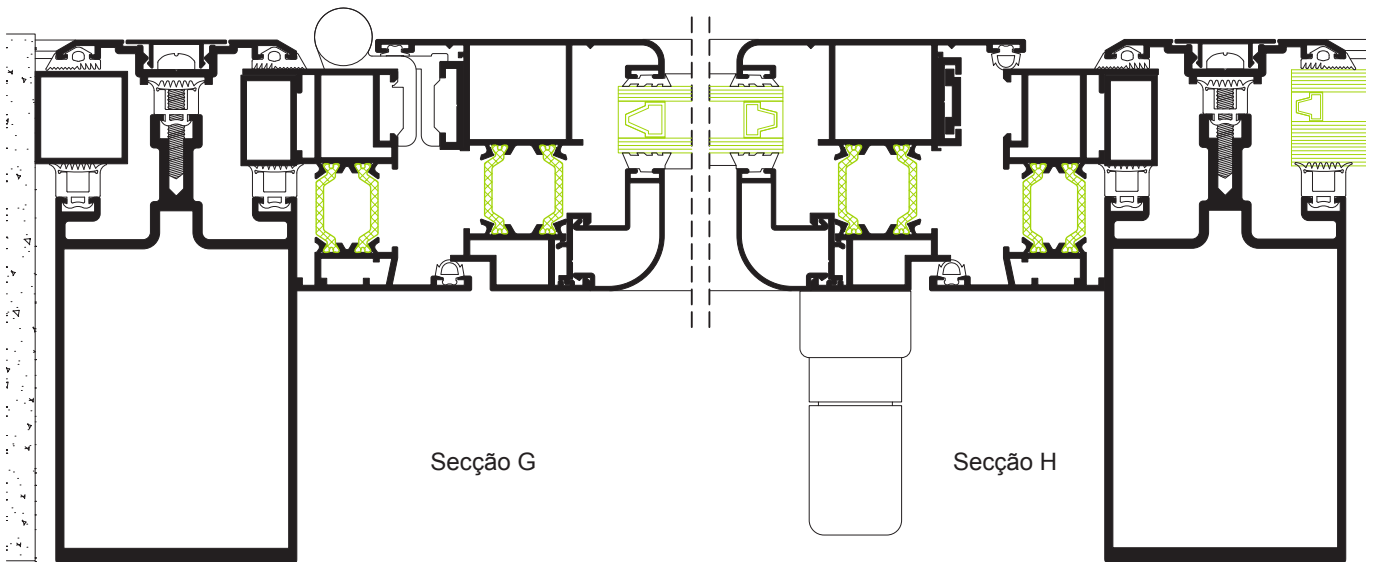
Seção D



Secção E

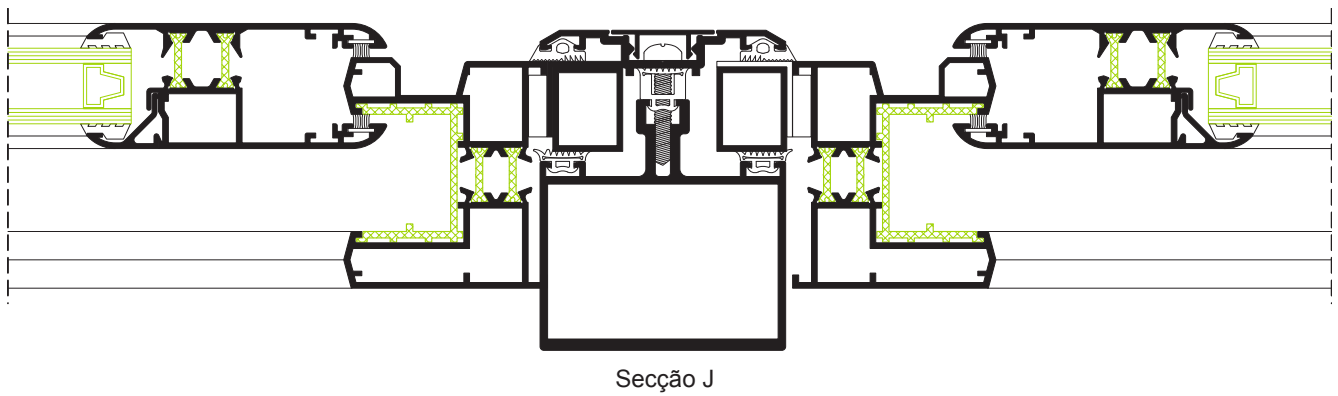
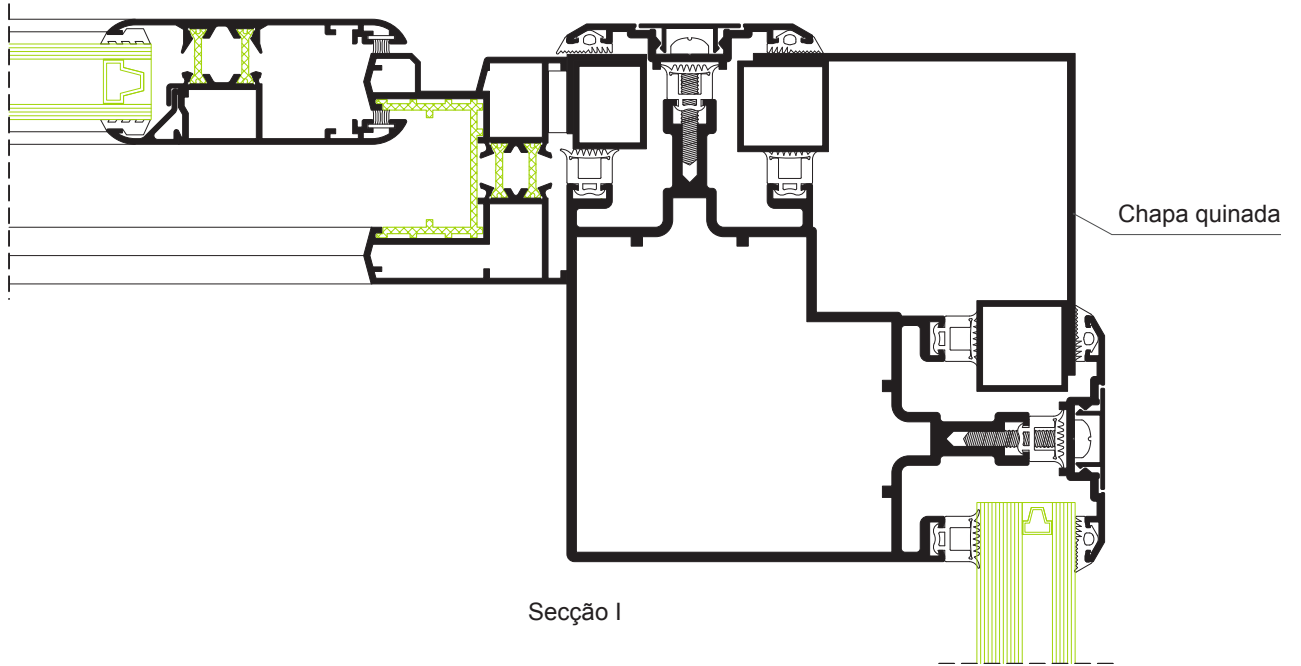
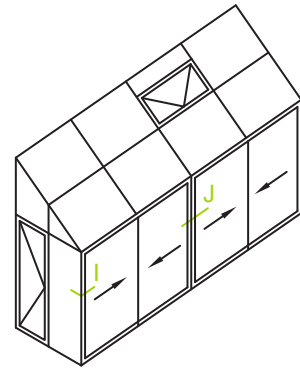


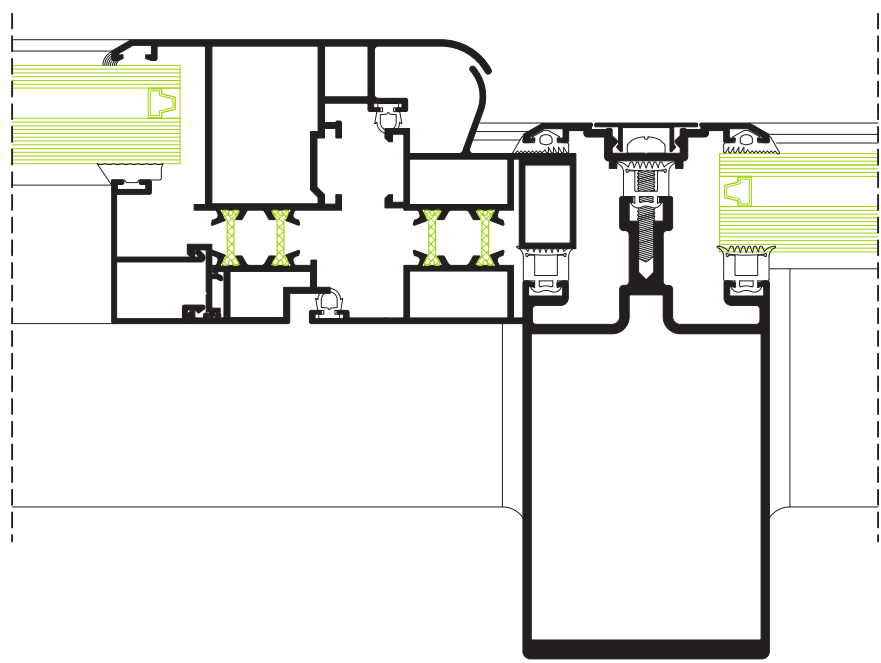
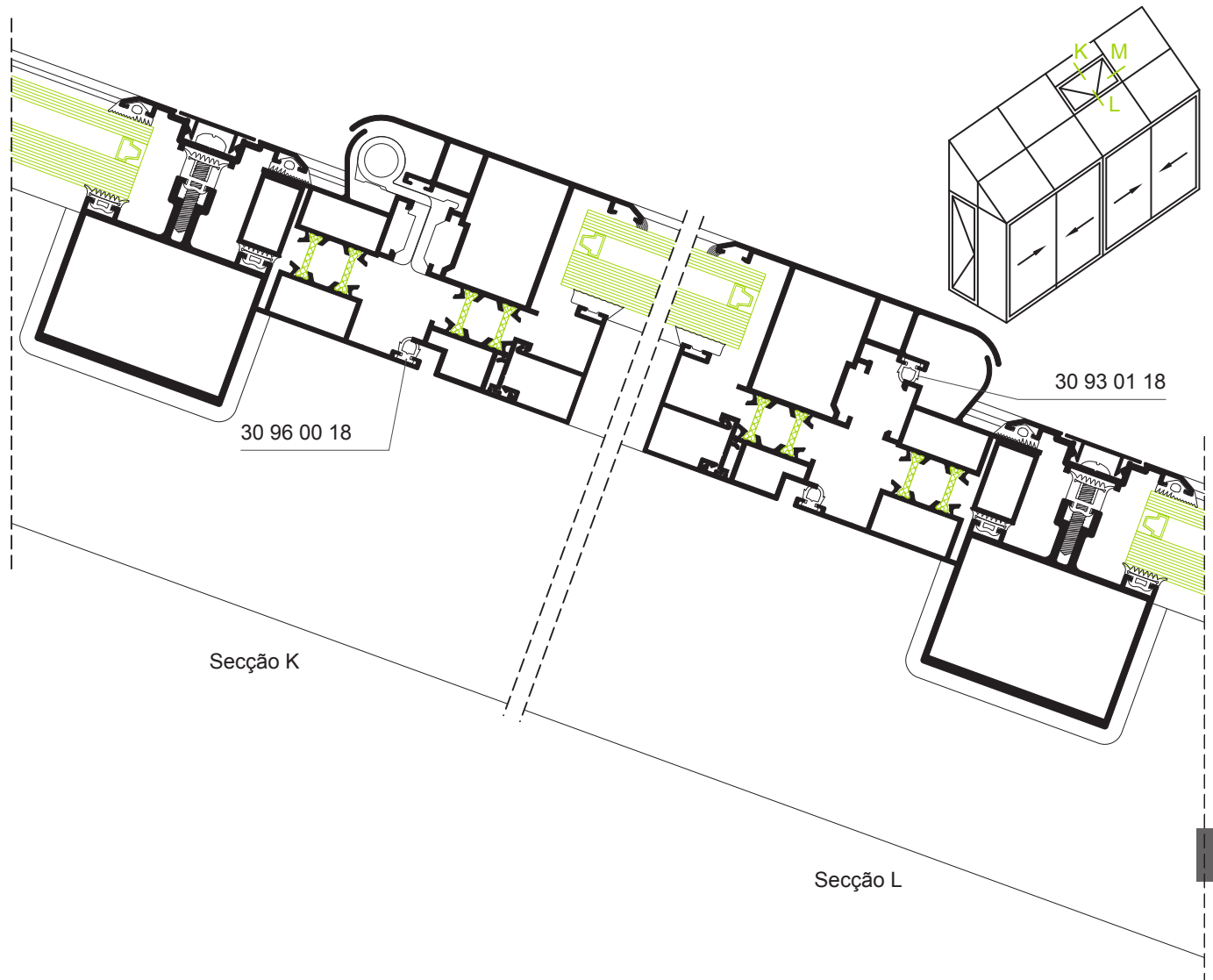
Secção F



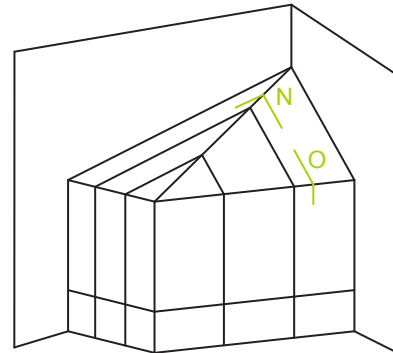
Secção G

Secção H

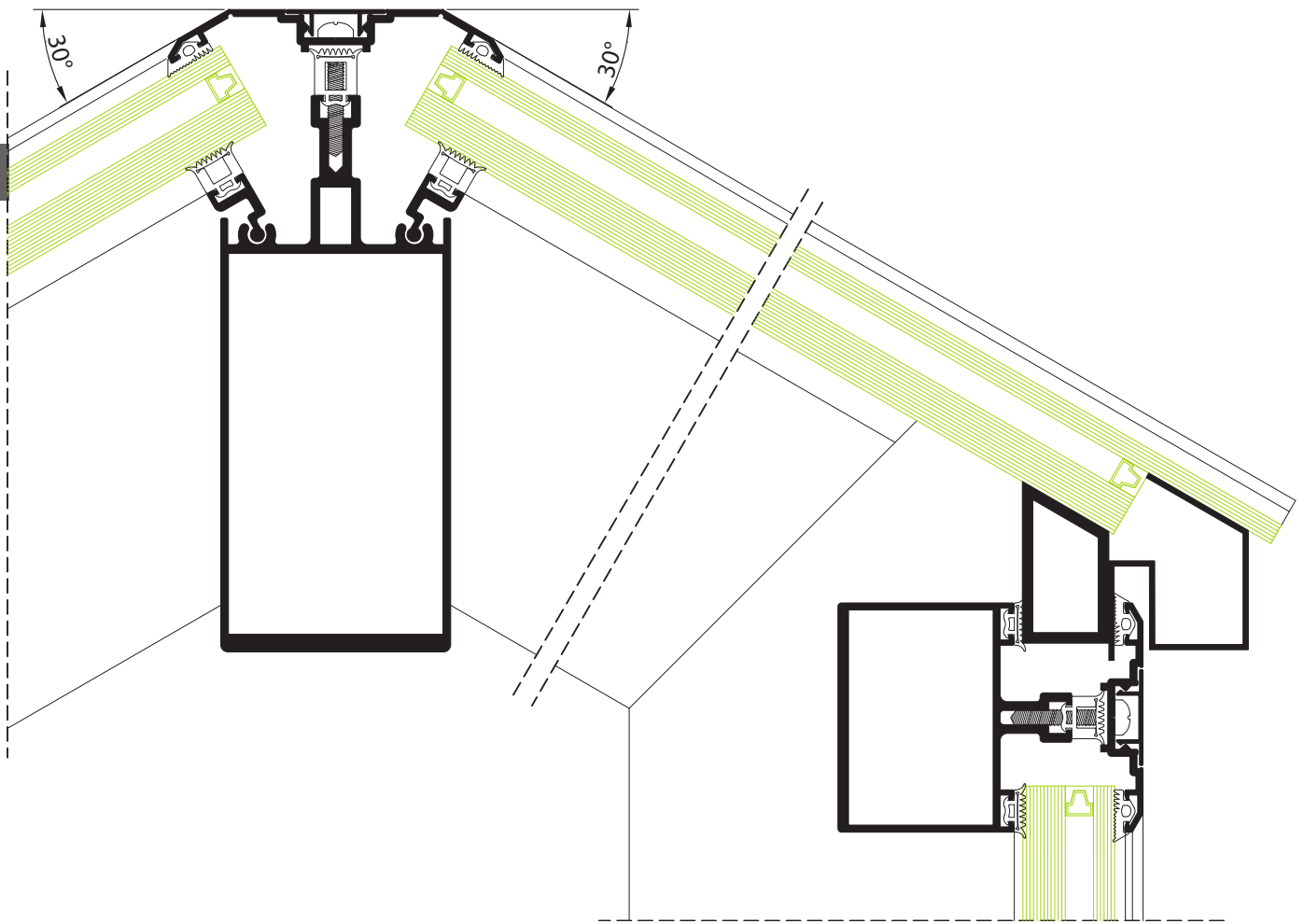




Secção M

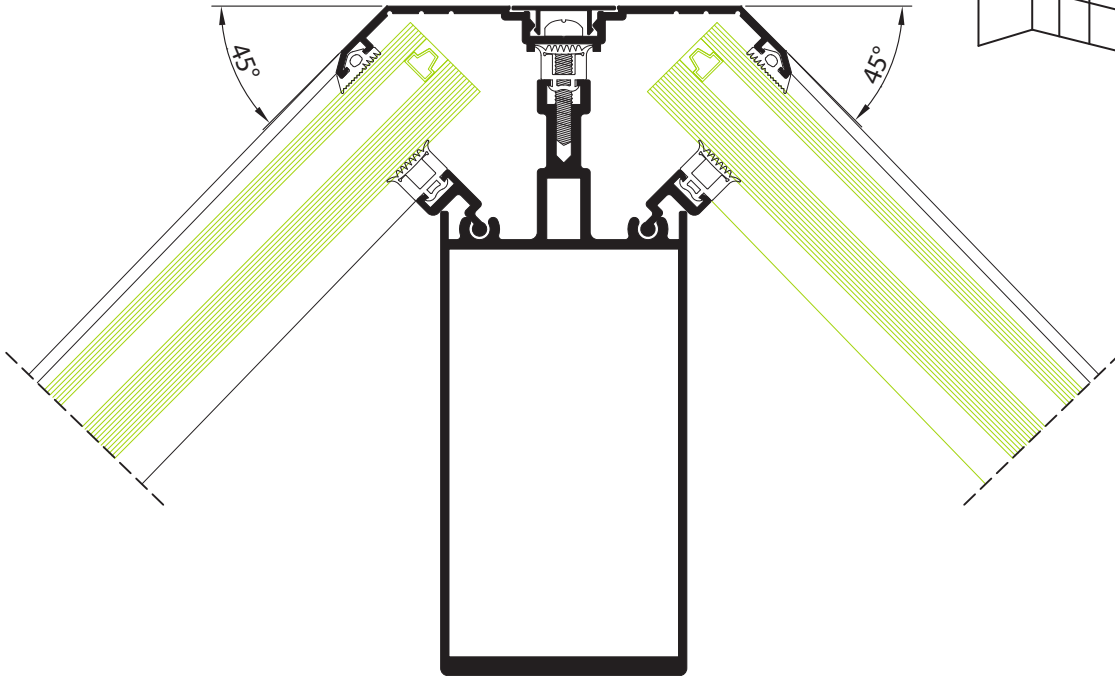
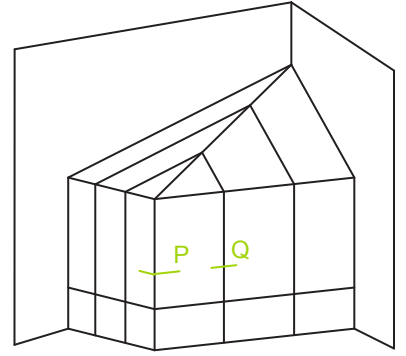


494

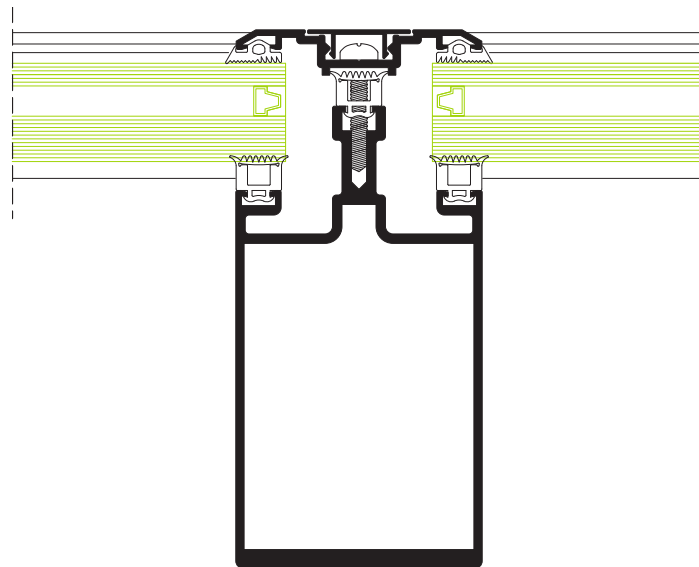


Secção N

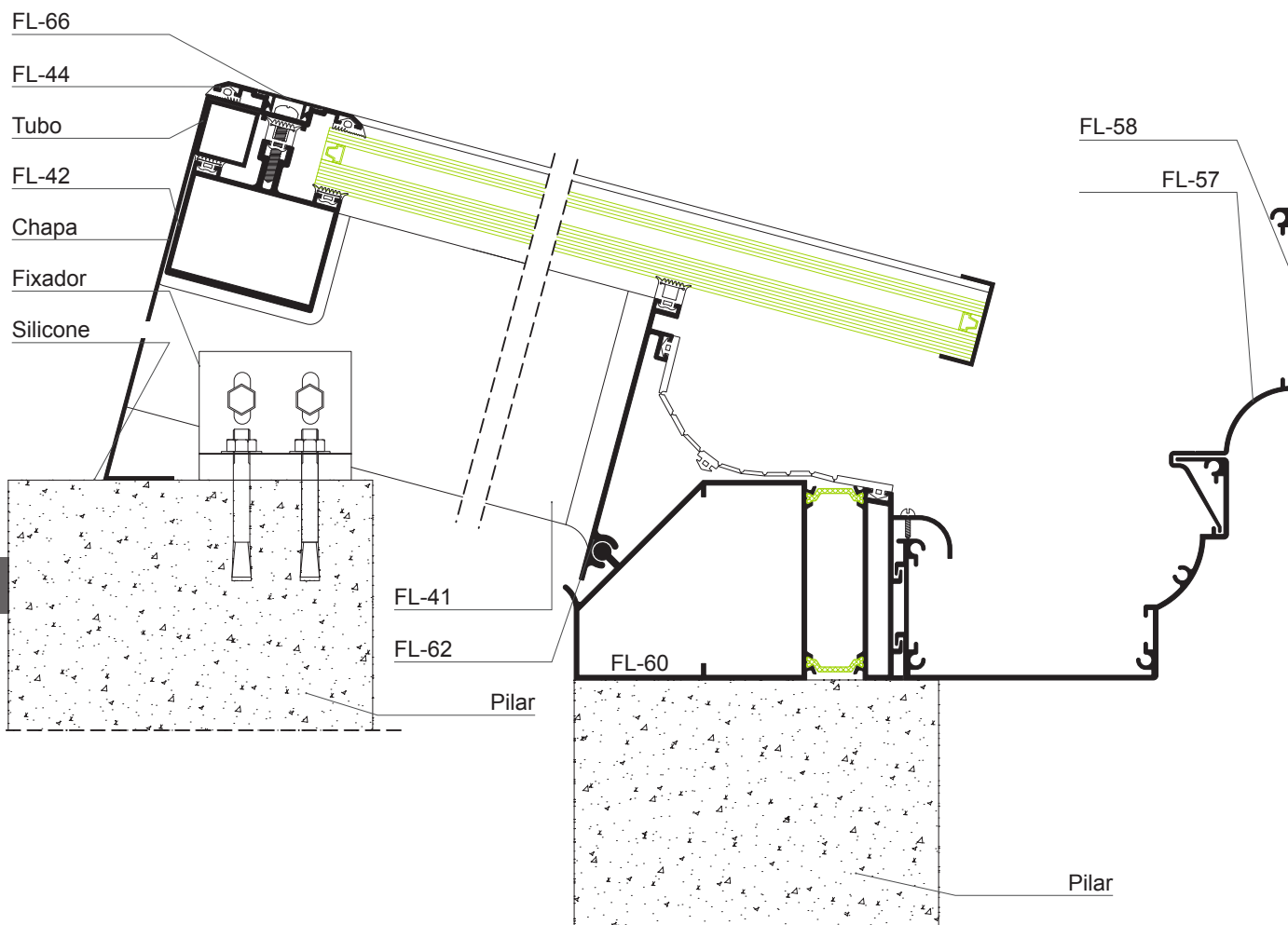
Secção O

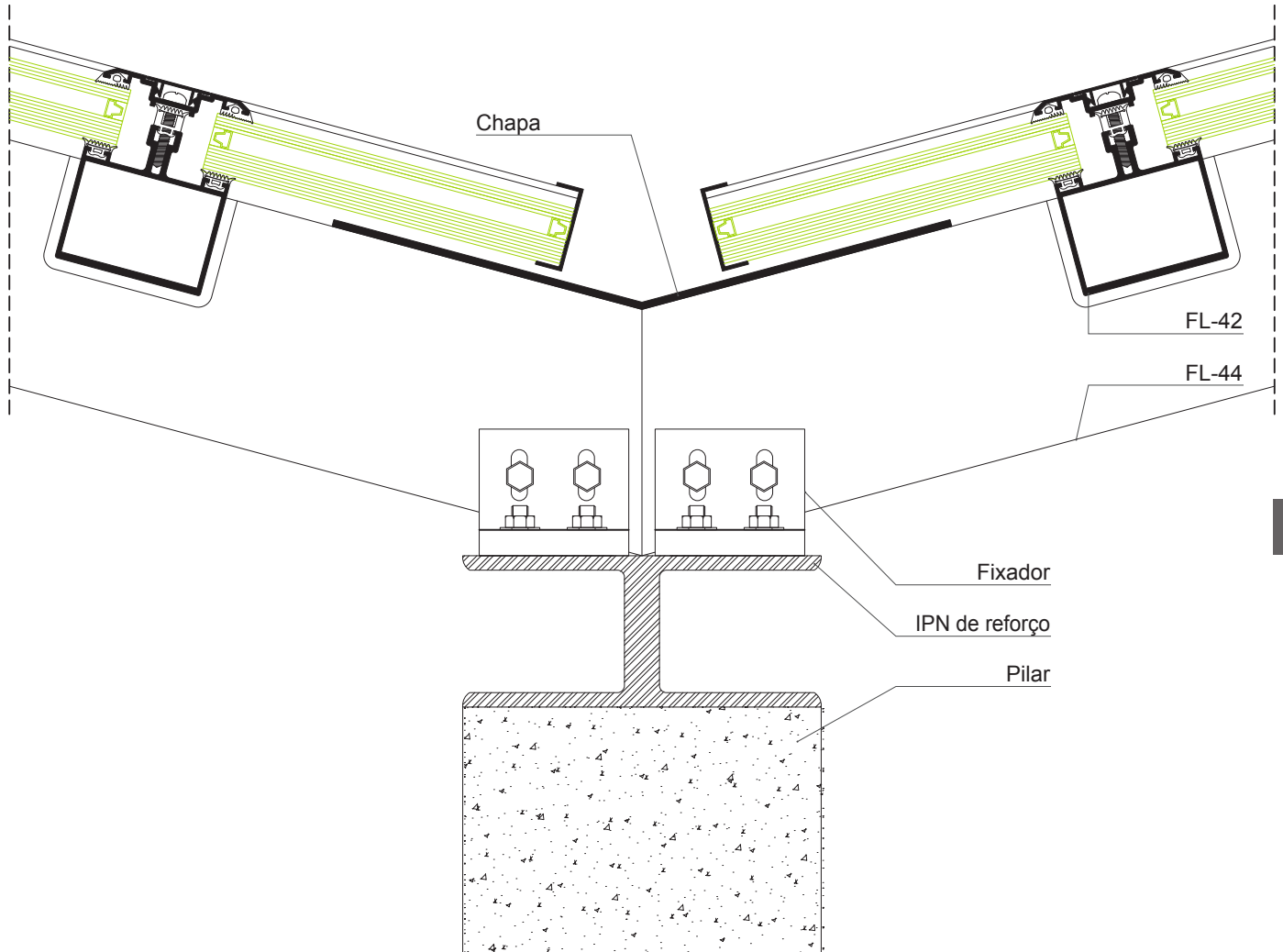


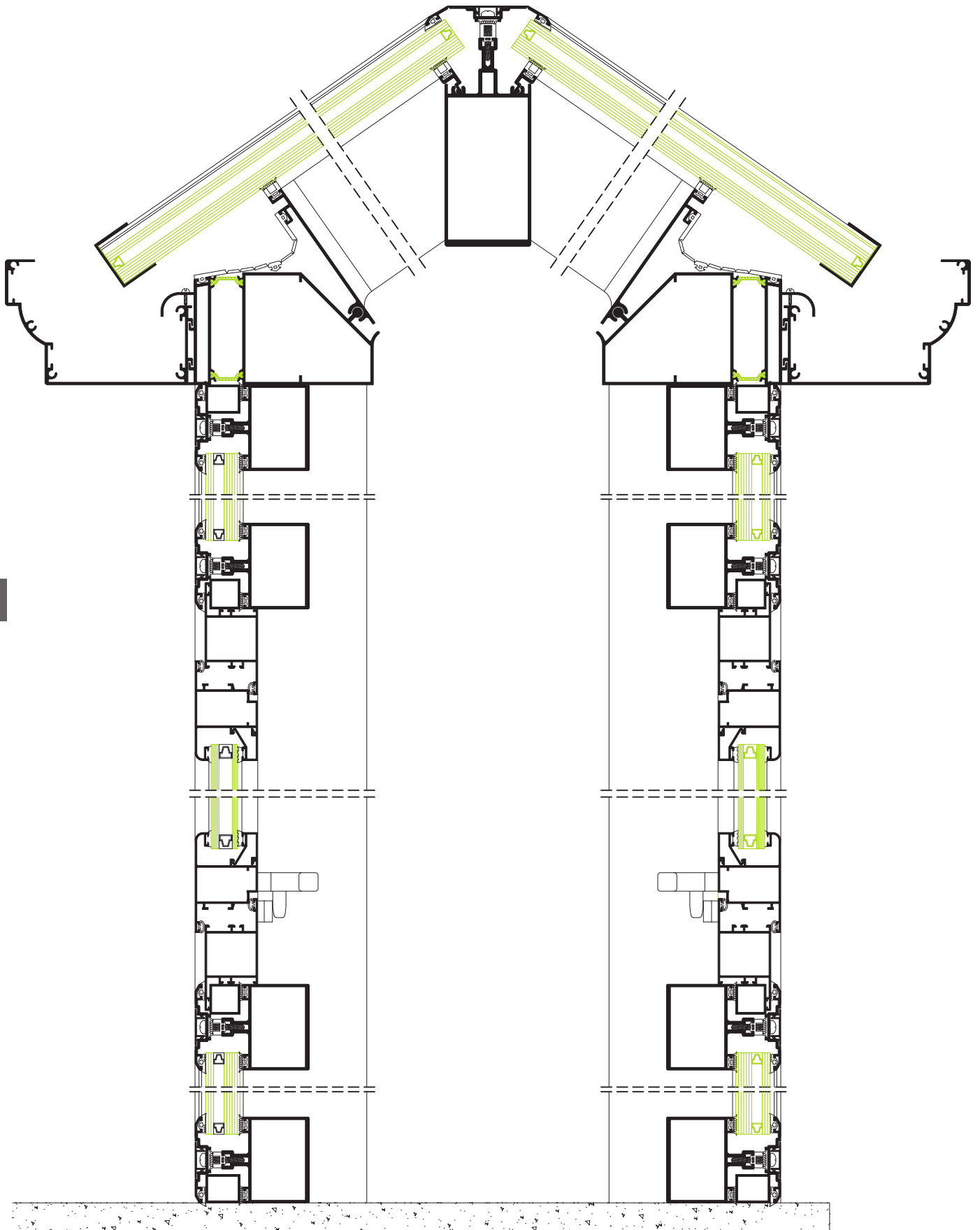
Secção P

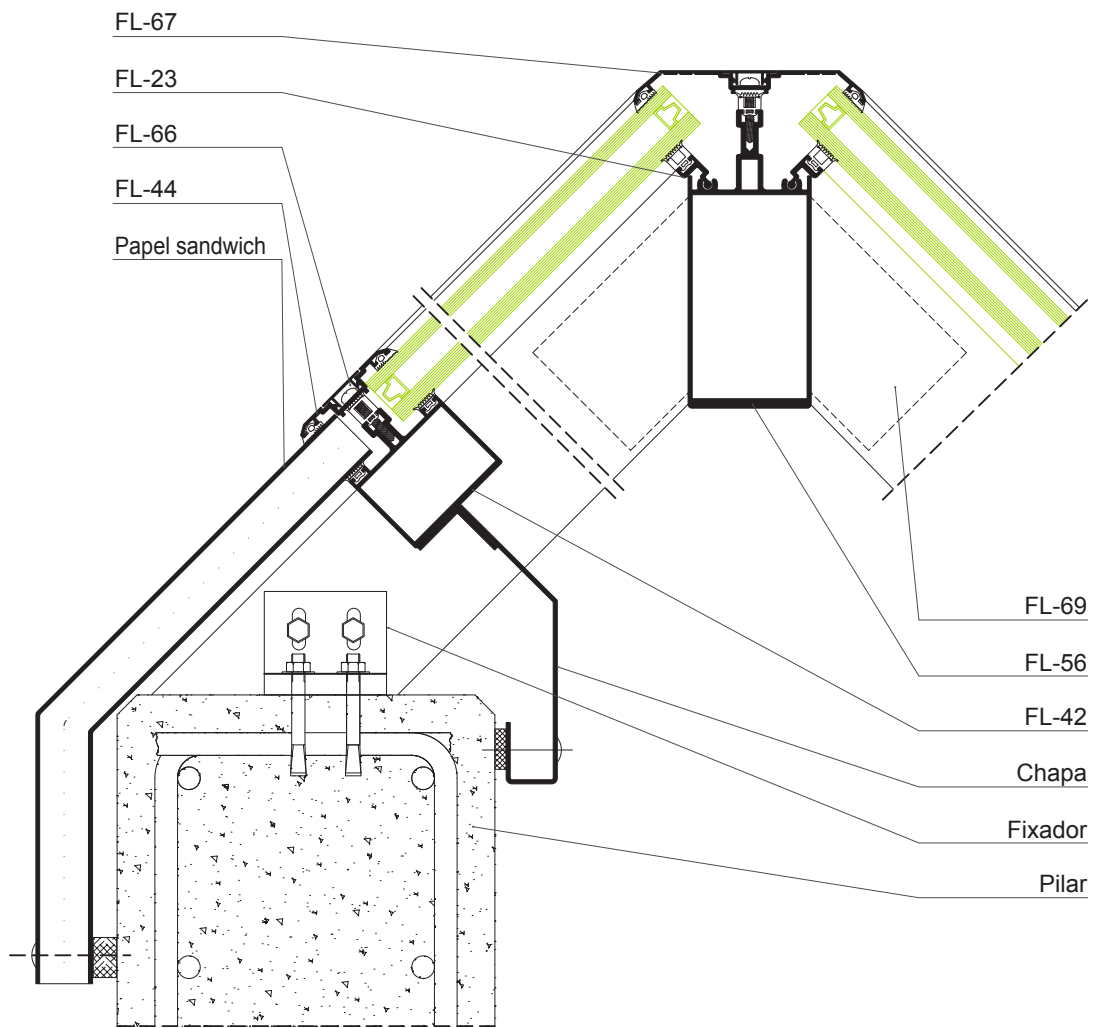


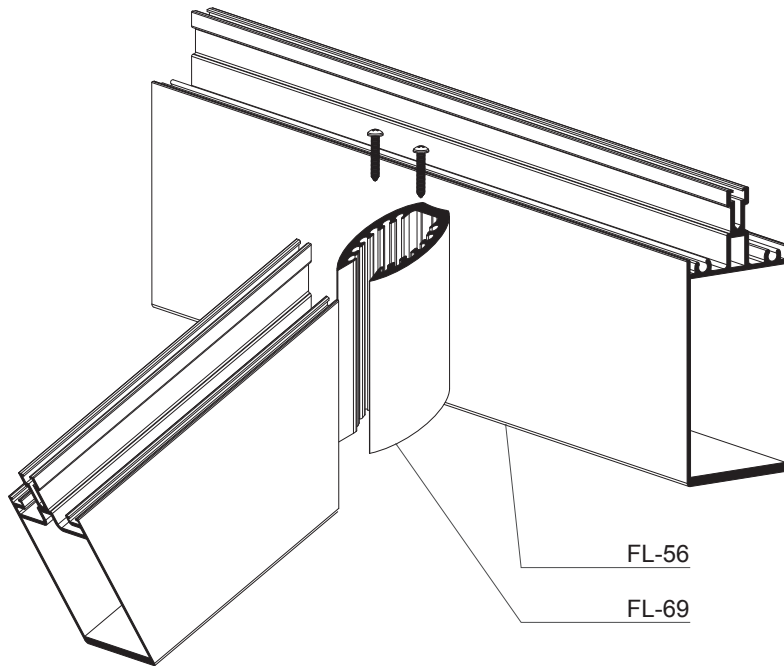
Secção Q



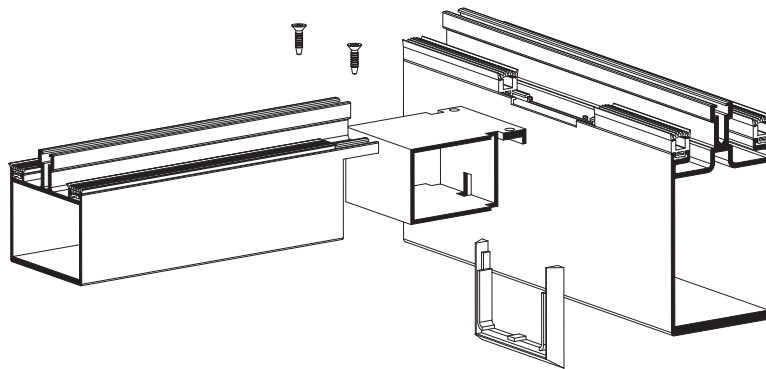




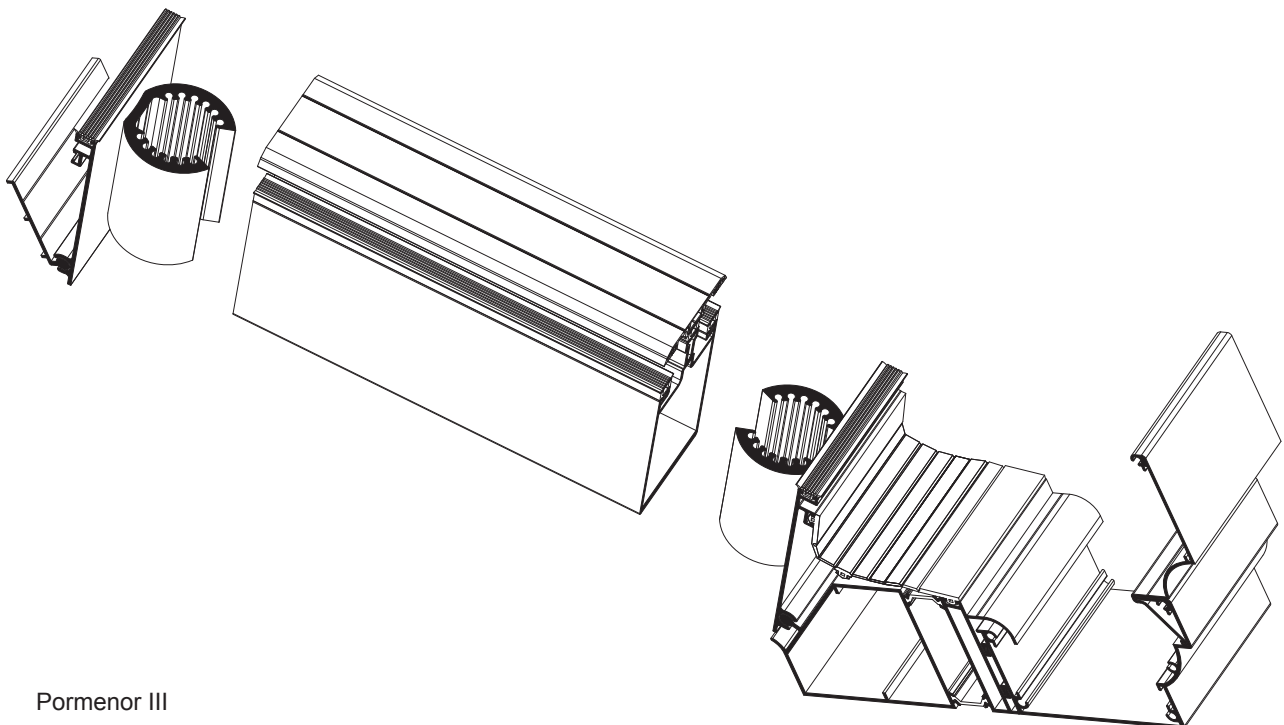




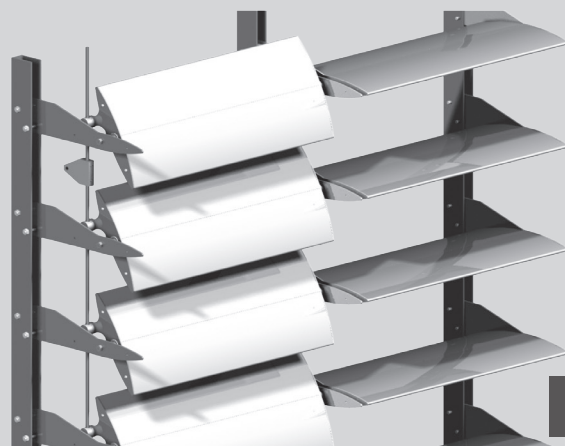
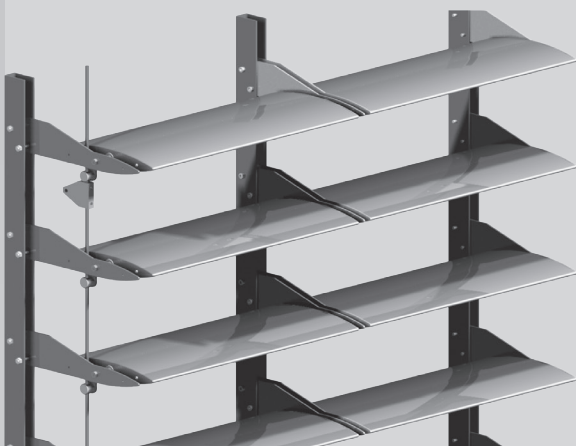
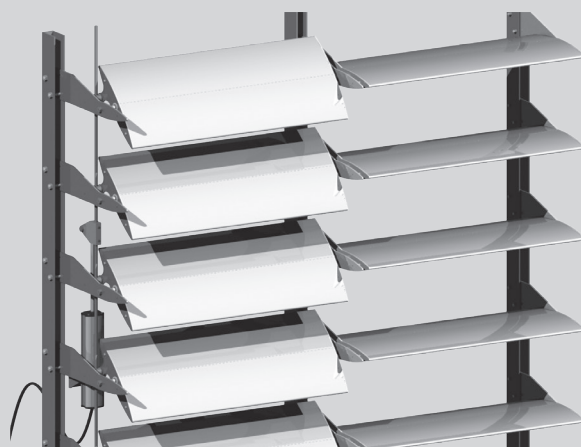
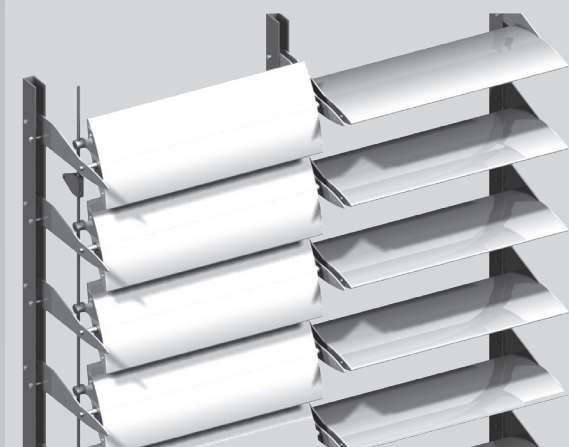
Pormenor I



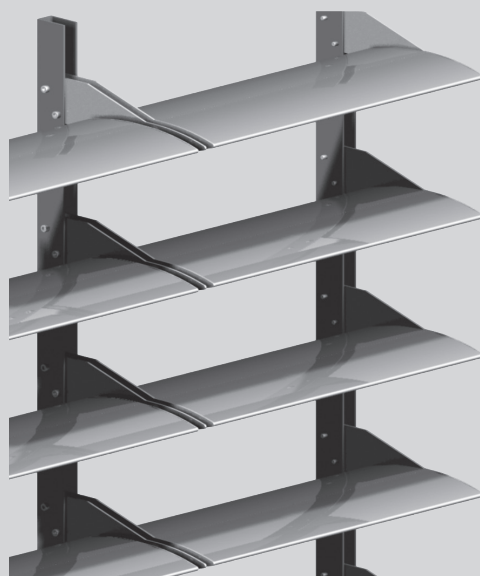
Pormenor II



Pormenor III



501



**Lâminas
Quebra Sol**

Lâminas Quebra Sol

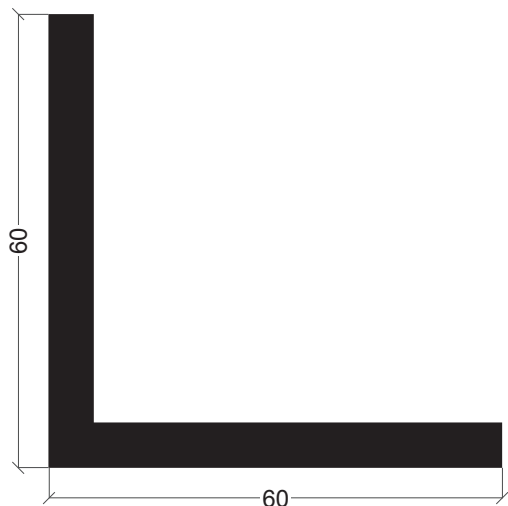
Características

Sistemas de alumínio preparados para montagem sobre fachadas que visam fazer o efeito quebra sol apresentando ao mesmo tempo uma forma estética.

Permitem a montagem nas seguintes formas:

- lâminas fixas;
- lâminas móveis.

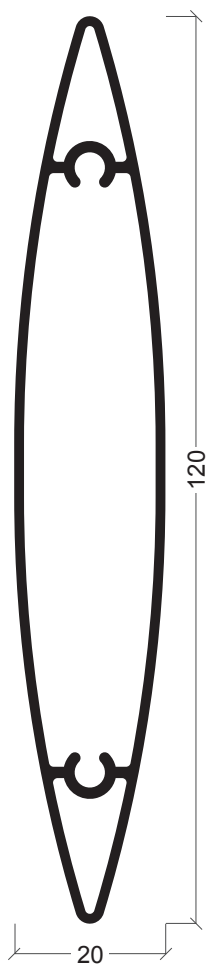
Os sistemas de lâminas móveis permitem um controle sobre a sua orientação através de um mecanismo manual ou motorizado em que ambos poderão ser comandados à distância. As lâminas quebra sol existem com as secções transversais de 120, 165, 250 e 345 mm com uma espessura média dos perfis de alumínio de 1.5 mm.



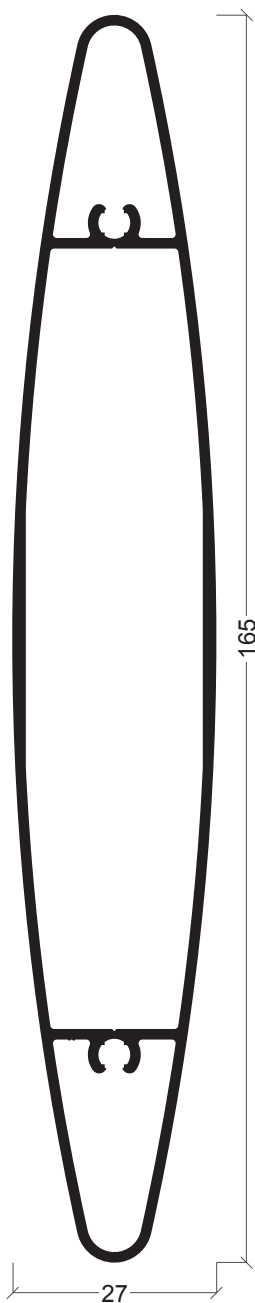
L-25



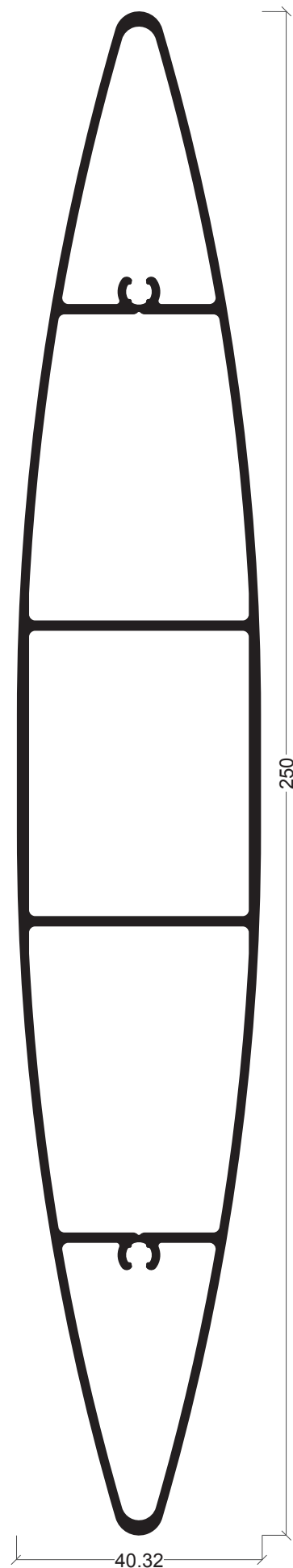
G-01



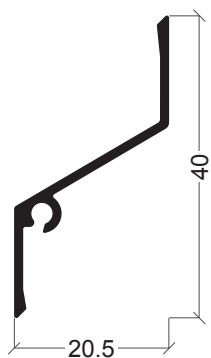
Z-58



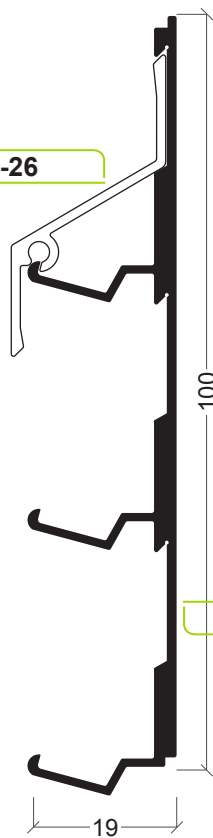
Z-68



Z-62



Z-26

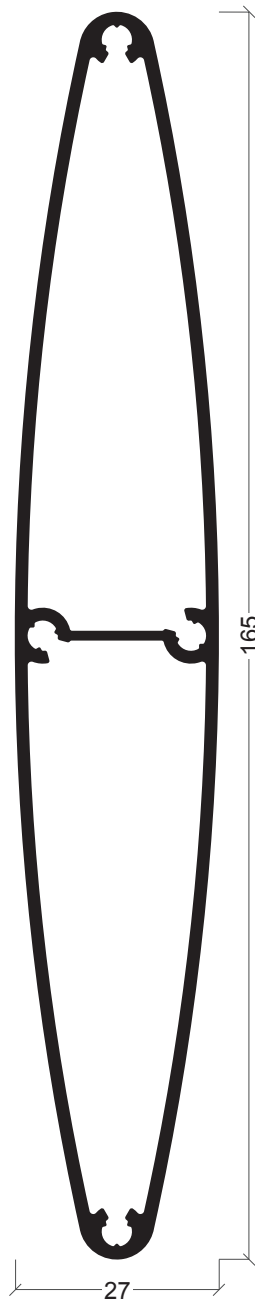


Z-25 + Z-26

Z-26

Z-25

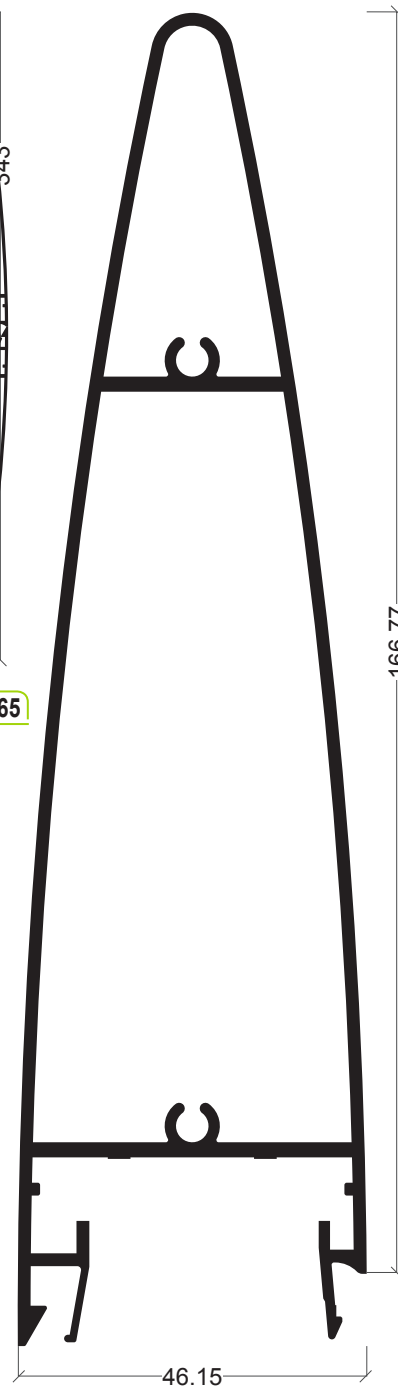
504



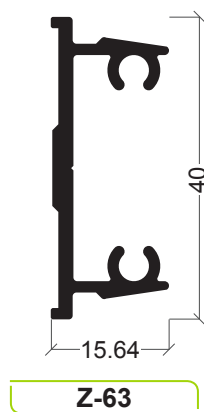
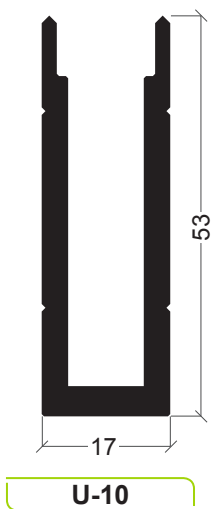
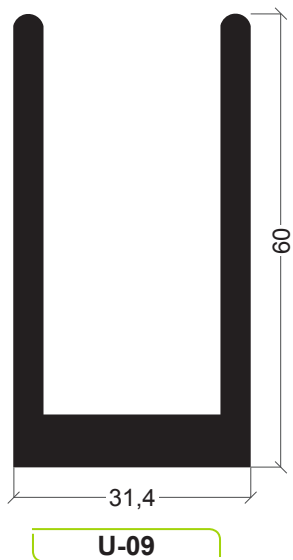
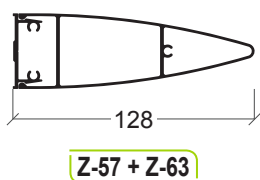
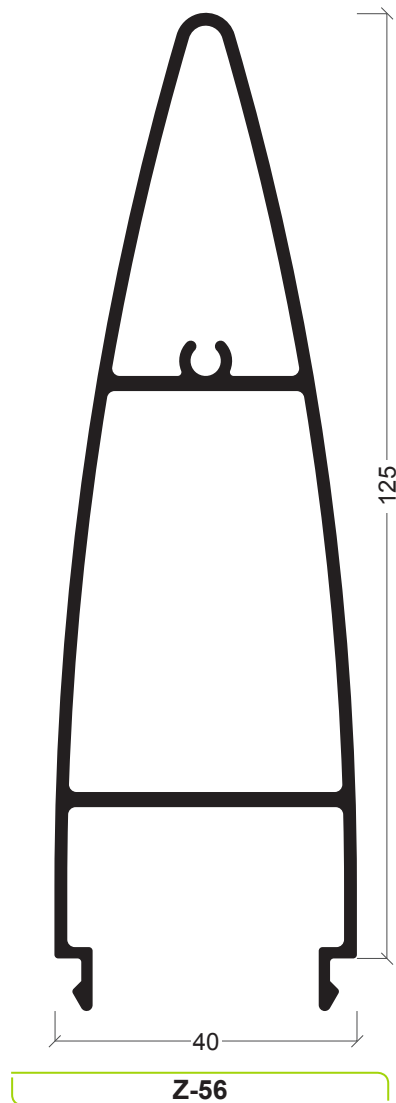
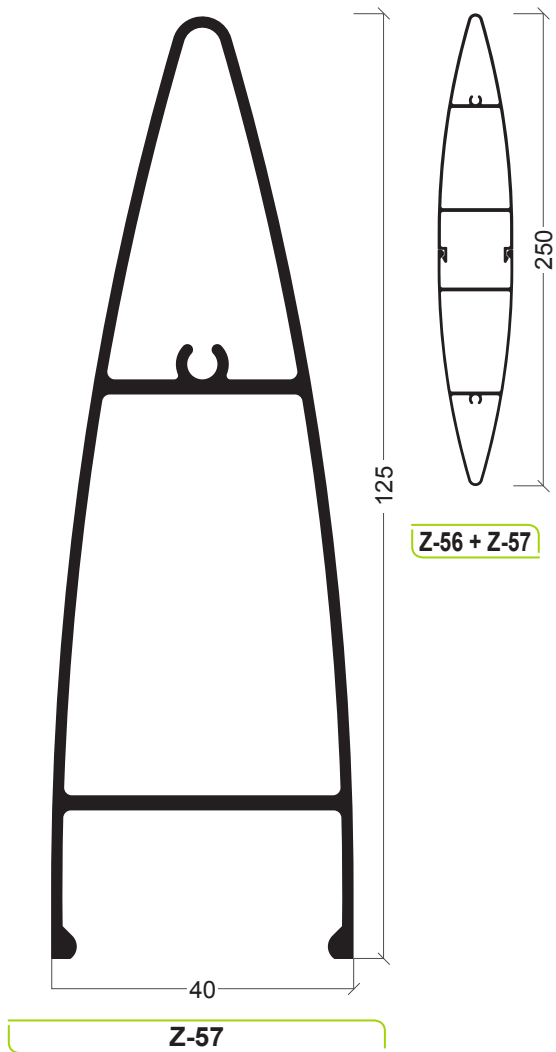
Z-64 (lâmina fixa)

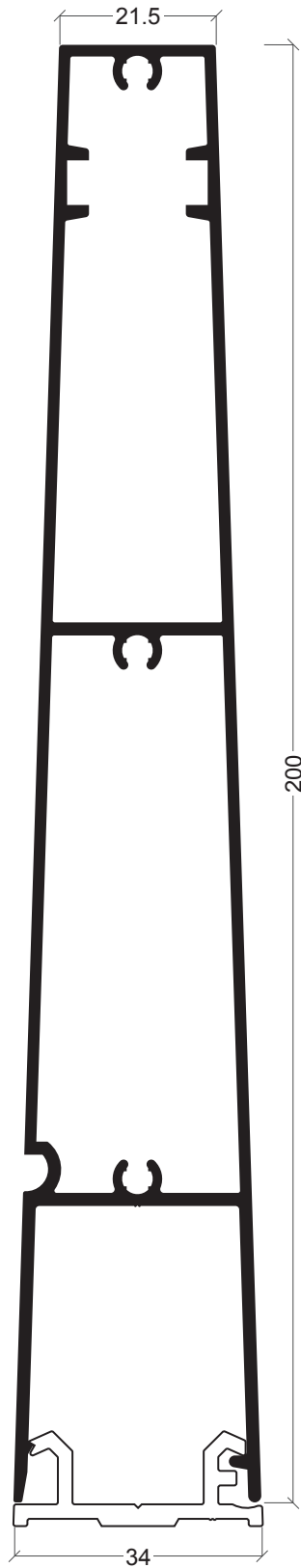


Z-65 + Z-65

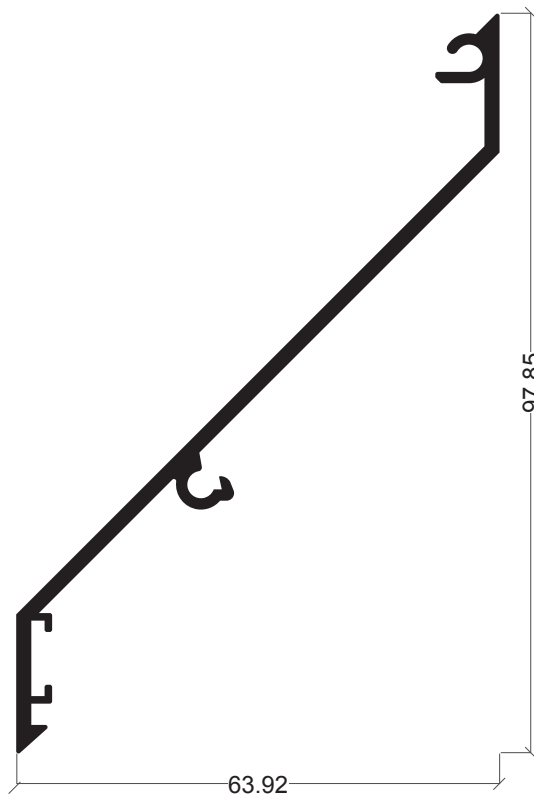


Z-65

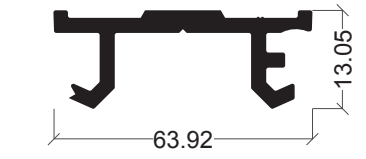




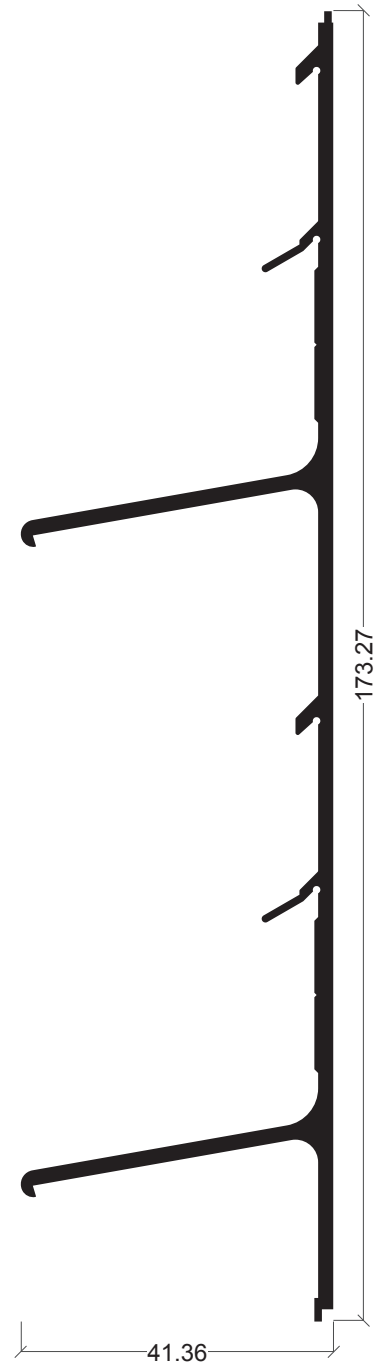
Z-67



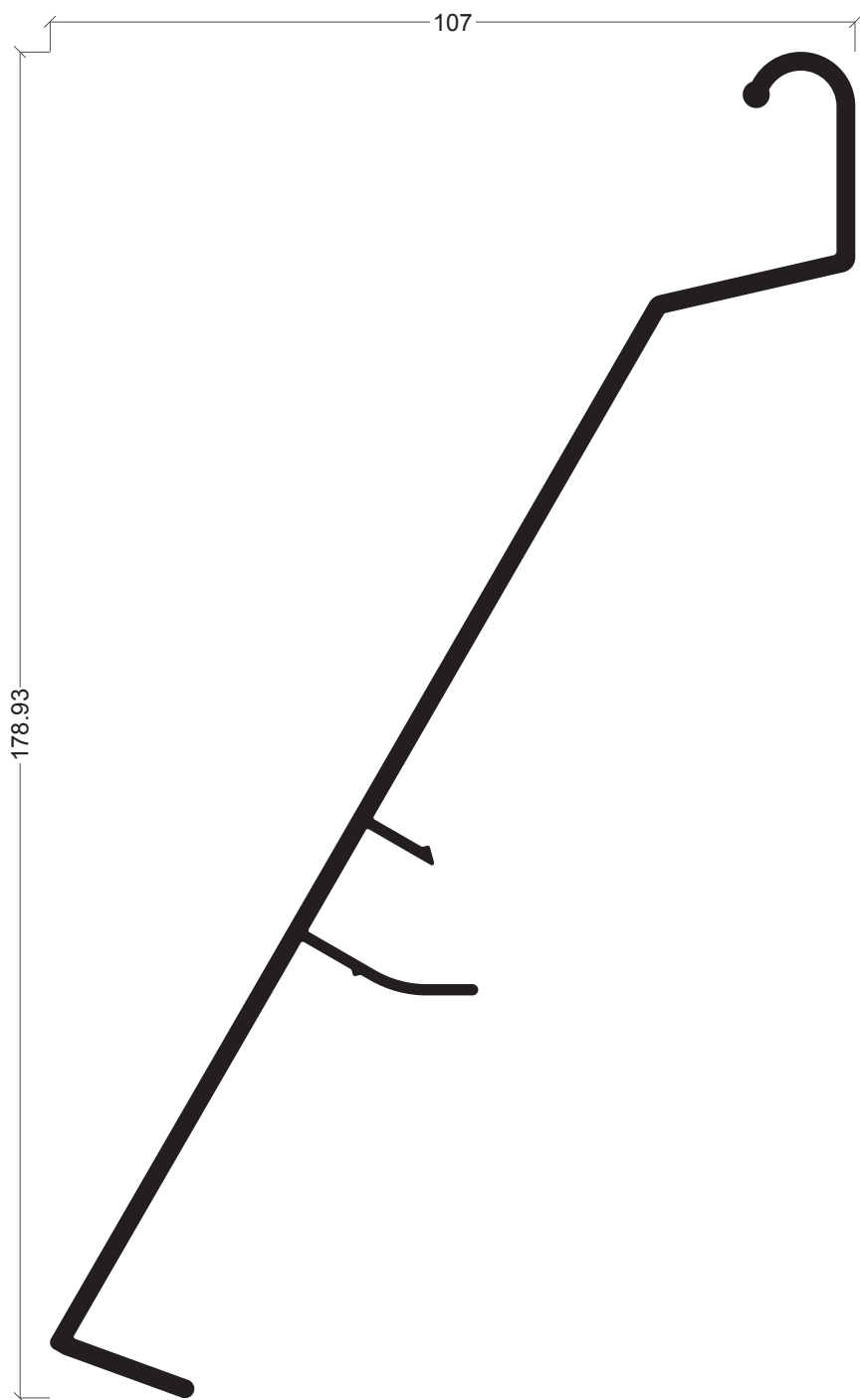
Z-24



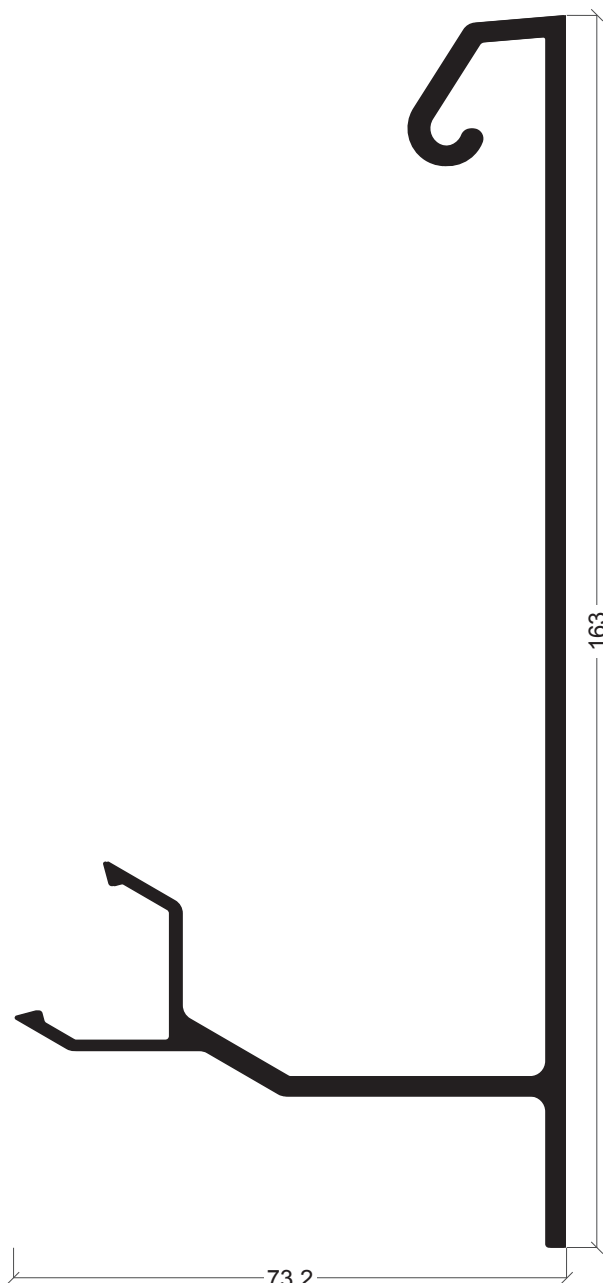
Z-66



Z-23

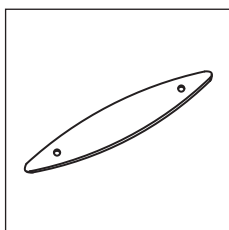


Z-43

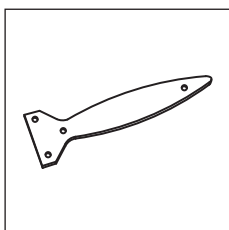


Z-42

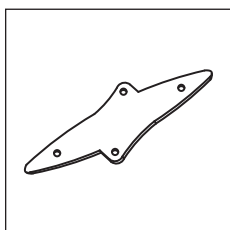
507



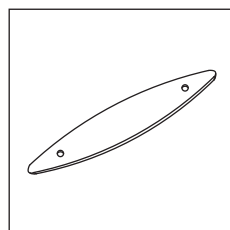
31 15 00 40
Topo simples 250 mm



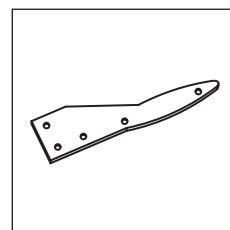
31 15 00 42
Topo fixação 120 mm



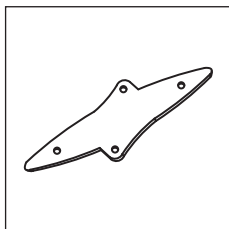
31 15 00 63
Topo fixação central 120 mm



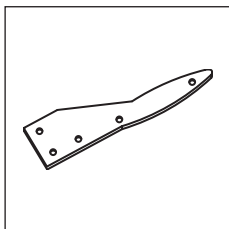
31 15 00 67
Topo simples 120 mm



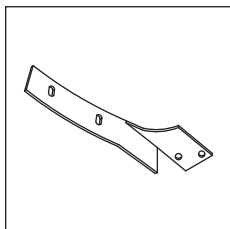
31 15 00 71
Topo fixação alongado 120 mm



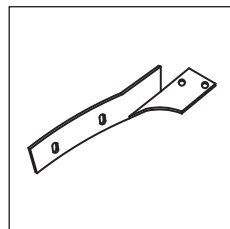
31 15 00 75
Topo fixação central 250 mm



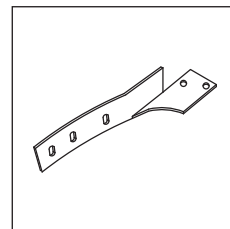
31 15 00 79
Topo fixação alongado 250 mm



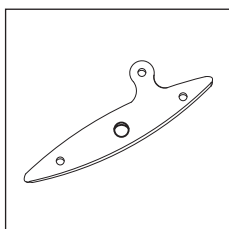
31 15 00 84
Suporte central 250 mm direito



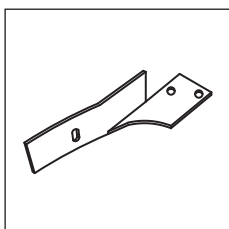
31 15 00 85
Suporte central 250 mm esquerdo



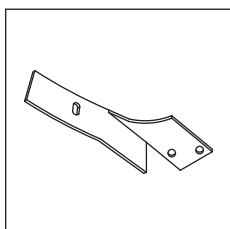
31 15 00 86
Suporte central 343 mm esquerdo



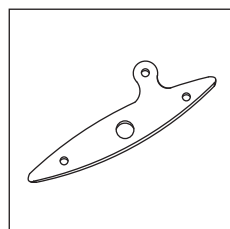
31 15 01 01
Topo lateral lâmina móvel 120 mm



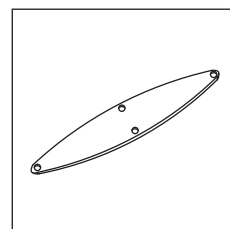
31 15 01 08
Suporte central 120 mm esquerdo



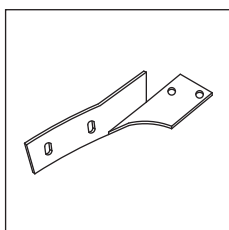
31 15 01 09
Suporte central 120 mm direito



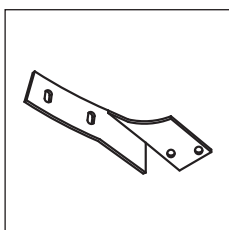
31 15 01 12
Topo lateral lâmina móvel 250 mm



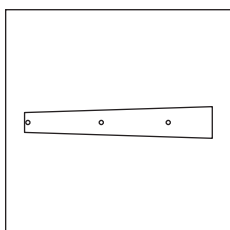
31 15 01 15
Topo simples 165 mm (Z-64)



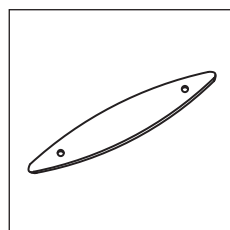
31 15 01 16
Suporte central 165 mm esquerdo



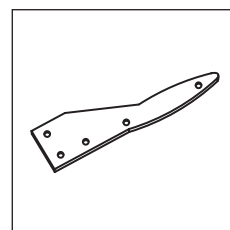
31 15 01 17
Suporte central 165 mm direito



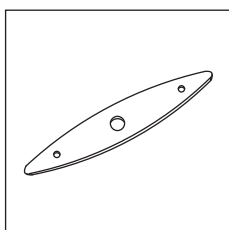
31 15 01 35
Topo para lâmina Z-67



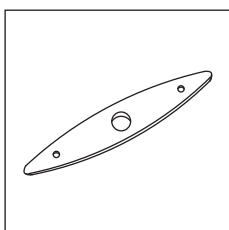
31 15 01 36
Topo simples 343 mm



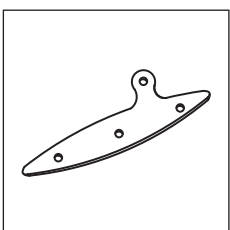
31 15 01 40
Topo fixação alongado 343 mm



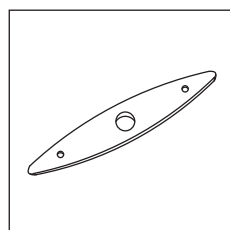
31 15 01 42
Topo lateral lâmina móvel 120 mm



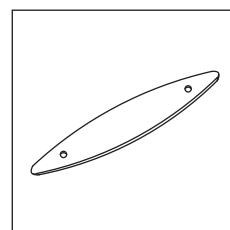
31 15 01 43
Topo lateral lâmina móvel 343 mm



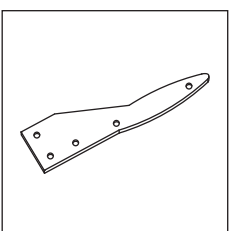
31 15 01 44
Topo lateral lâmina móvel 343 mm



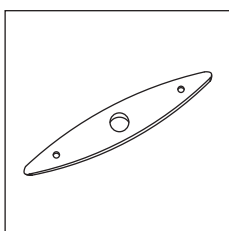
31 15 01 46
Topo lateral lâmina móvel 250 mm



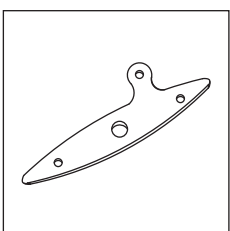
31 15 01 51
Topo simples 165 mm (Z-68)



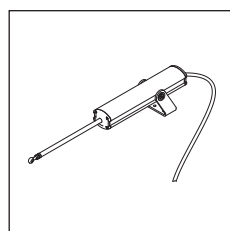
31 15 01 56
Topo fixação alongado 165 mm (Z-68)



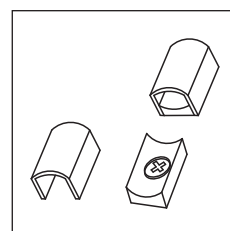
31 15 01 60
Topo lateral lâmina móvel 165 mm (Z-68)



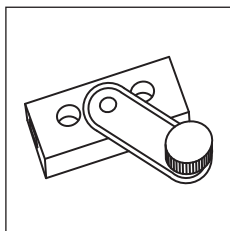
31 15 01 61
Topo lateral lâmina móvel com aba 165 mm (Z-68)



31 15 10 84
Motor eléctrico

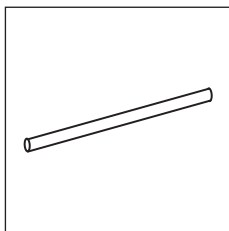


31 15 11 00
Presilha



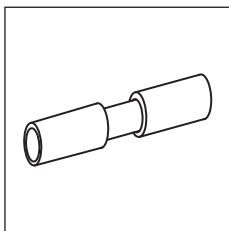
31 15 11 02

Manivela comando manual



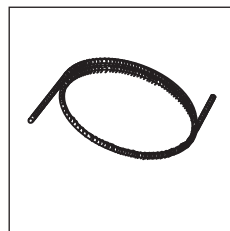
31 15 11 03

Tubo alumínio (3 mts)



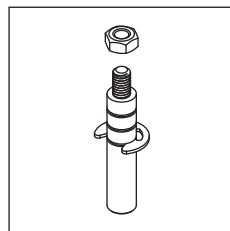
31 15 11 04

União de tubos



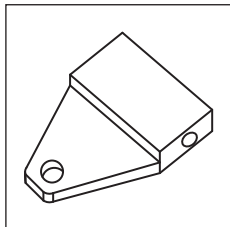
31 15 11 12

Bicha comando manual



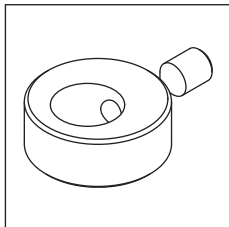
31 15 11 24

Eixo superior lâmina (Z-58 ou Z-68)



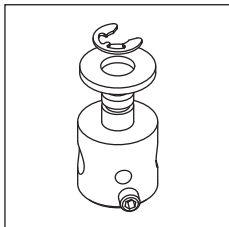
31 15 11 25

Ligação sistema eléctrico ou manual



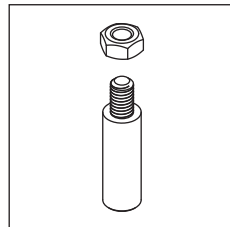
31 15 11 26

Anel freio lâmina (Z-58 ou Z-68)



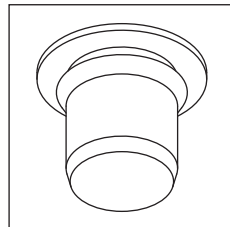
31 15 11 28

Eixo de ligação (Z-58 ou Z-68)



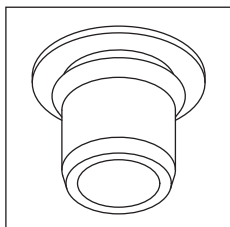
31 15 11 29

Eixo inferior (Z-58 ou Z-68)



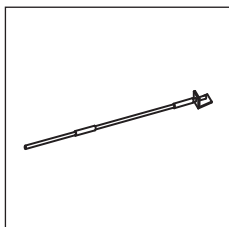
31 15 11 30

Casquilho inferior (Z-58 ou Z-68)



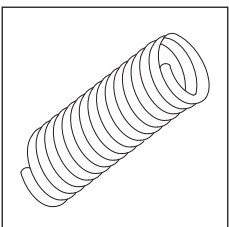
31 15 11 31

Casquilho superior (Z-58 ou Z-68)



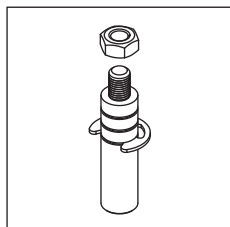
31 15 11 36

Accionador telescópico



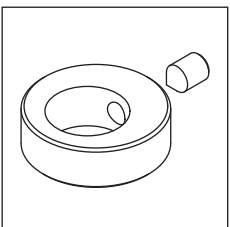
31 15 11 96

Mola fim de curso



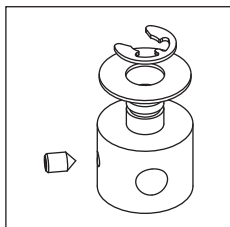
31 15 12 24

Eixo superior lâmina (Z-62 ou Z-65)



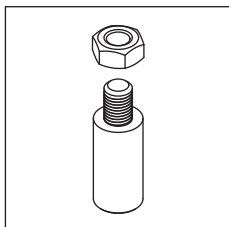
31 15 12 26

Anel freio lâmina (Z-62 ou Z-65)



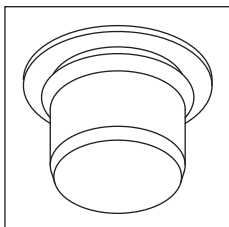
31 15 12 28

Eixo ligação lâmina (Z-62 ou Z-65)



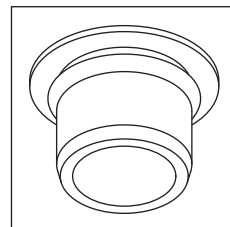
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Eixo inferior lâmina (Z-62 ou Z-65)



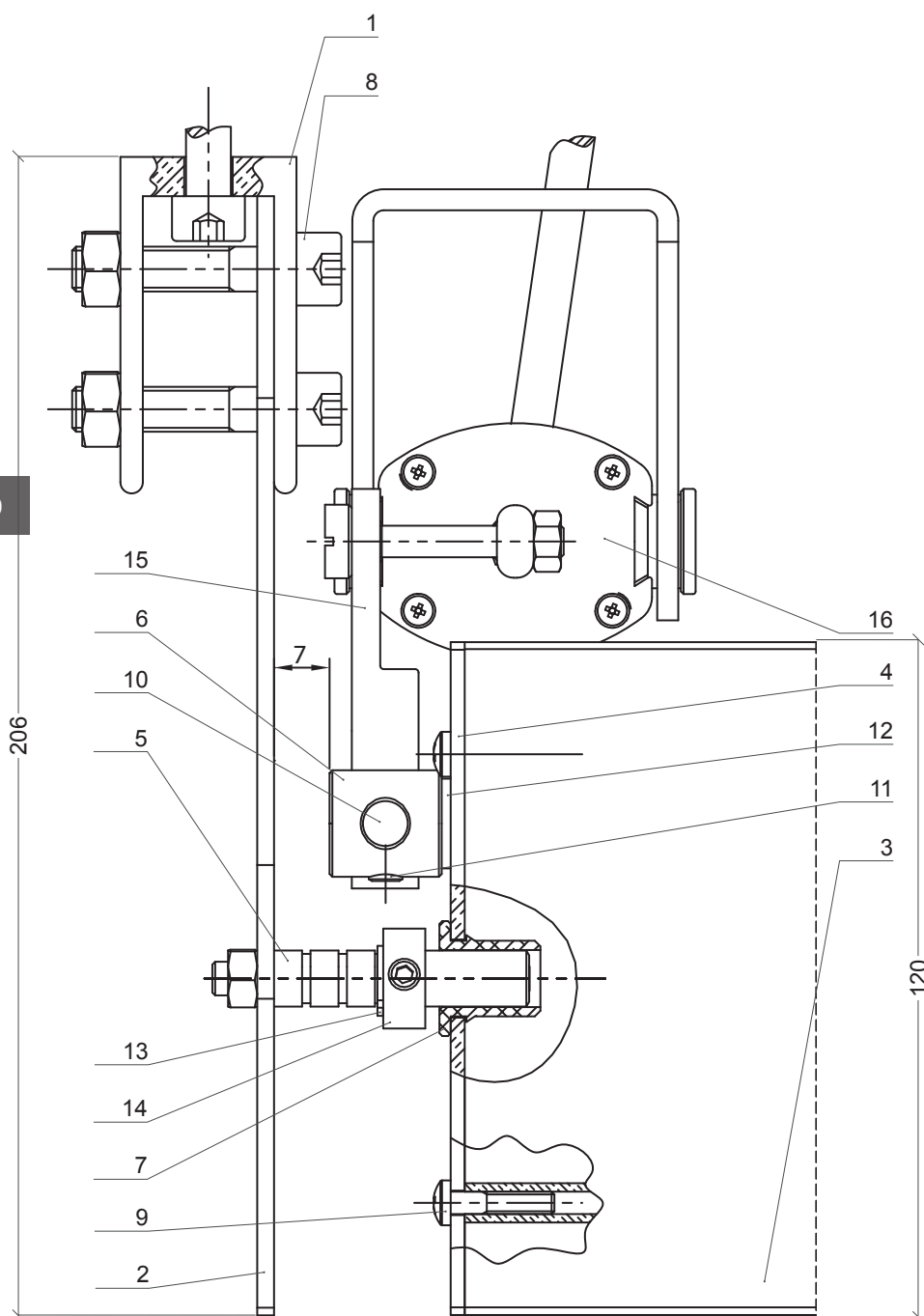
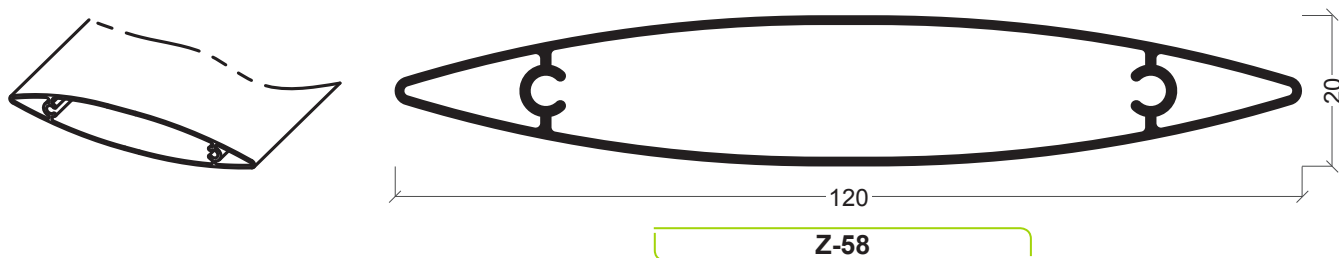
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Casquilho inferior lâmina (Z-62 ou Z-65)

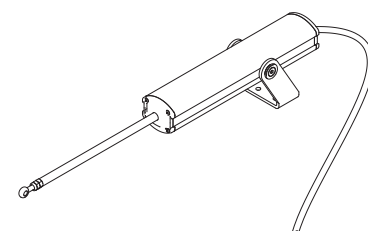


31 15 12 31

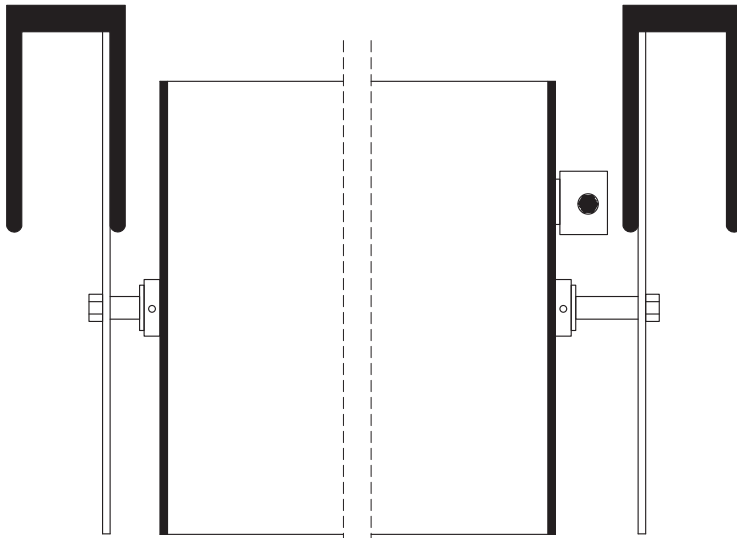
Casquilho superior lâmina (Z-62 ou Z-65)



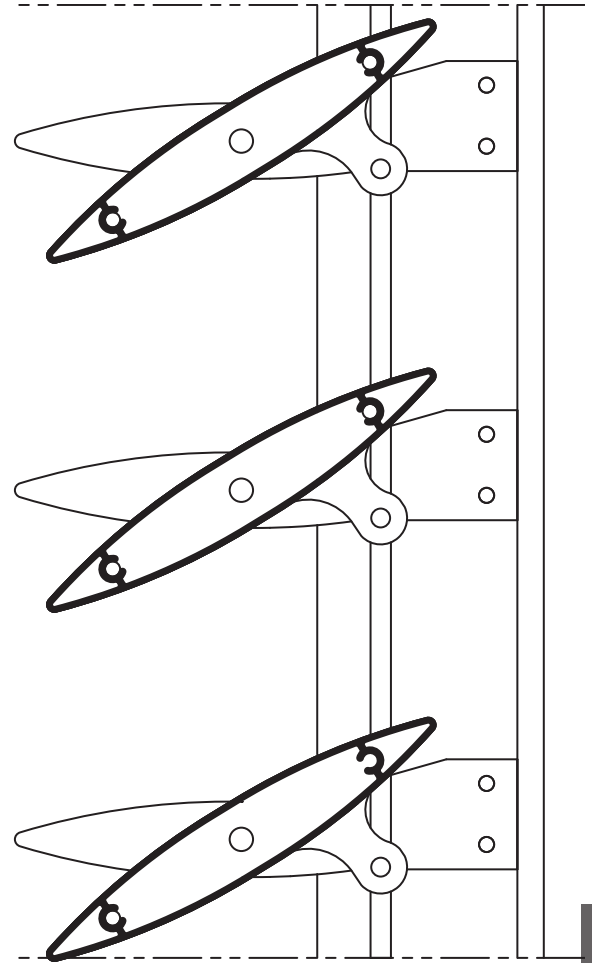
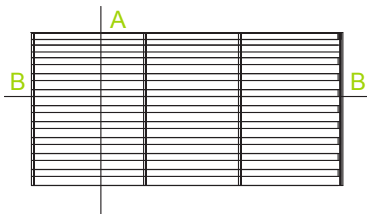
- 1 **U-09** (calha suporte U-09)
- 2 **31 15 00 71** (topo fixação alongado Z-58)
- 3 **Z-58** (lâmina 120 mm)
- 4 **31 15 01 01** (topo móvel)
- 5 **31 15 11 24** (eixo para móvel de rotação)
- 6 **31 15 11 28** (eixo de ligação lâmina)
- 7 **31 15 11 31** (casquilho em nylon para eixo)
- 8 **Parafuso DIN 912 M8x40**
- 9 **Parafuso ISO 7045 M4x16**
- 10 **G-01** (varão 8 mm)
- 11 **Perno DIN 913 M6x6**
- 12 **Anilha em nylon 16x1.6**
- 13 **Freio TRUARC**
- 14 **31 15 11 26** (anel excêntrico de ajustamento)
- 15 **31 15 11 25** (ligação ao motor/ comando manual)
- 16 **31 15 10 84** (motor eléctrico)



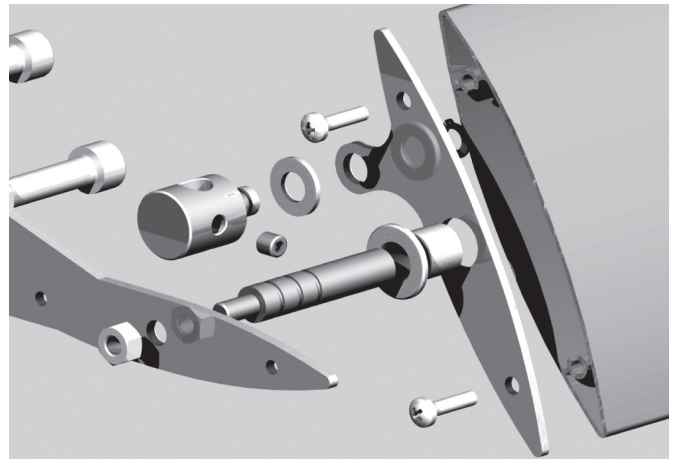
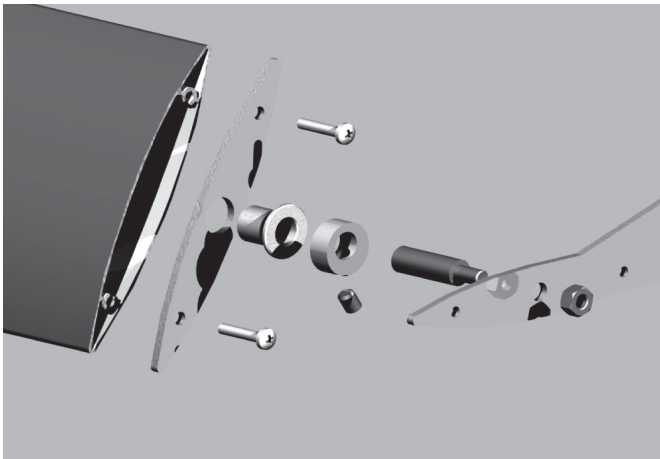
Montagem do motor sempre com o pistão virado para baixo



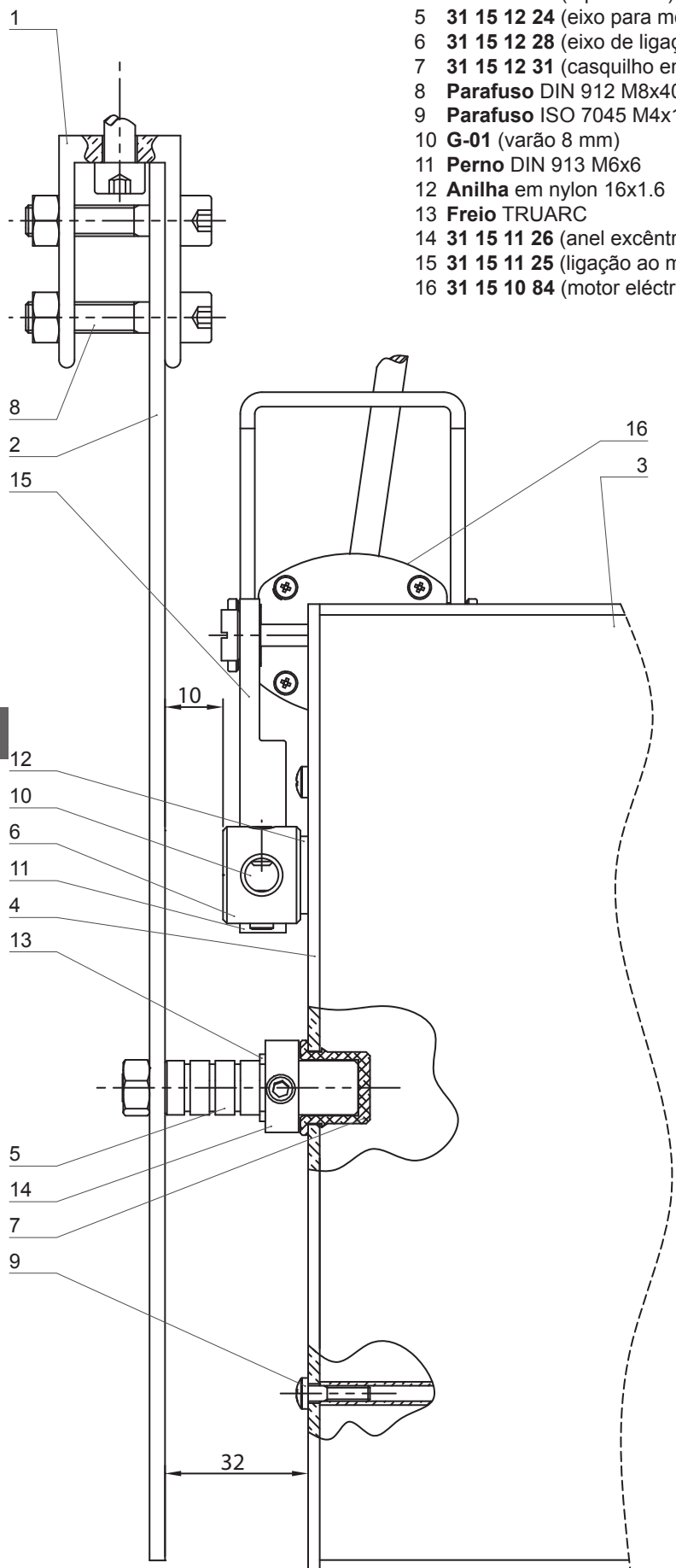
Secção B - B



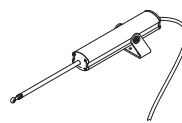
Secção A - A



- 1 **U-09** (calha suporte U-09)
- 2 **31 15 00 79** (topo fixação alongado 250 mm)
- 3 **Z-62** (lâmina 250 mm)
- 4 **31 15 01 12** (topo móvel)
- 5 **31 15 12 24** (eixo para móvel de rotação)
- 6 **31 15 12 28** (eixo de ligação lâmina)
- 7 **31 15 12 31** (casquilho em nylon para eixo)
- 8 **Parafuso DIN 912 M8x40**
- 9 **Parafuso ISO 7045 M4x16**
- 10 **G-01** (varão 8 mm)
- 11 **Perno DIN 913 M6x6**
- 12 **Anilha em nylon 16x1.6**
- 13 **Freio TRUARC**
- 14 **31 15 11 26** (anel excêntrico de ajustamento)
- 15 **31 15 11 25** (ligação ao motor/comando manual)
- 16 **31 15 10 84** (motor eléctrico)

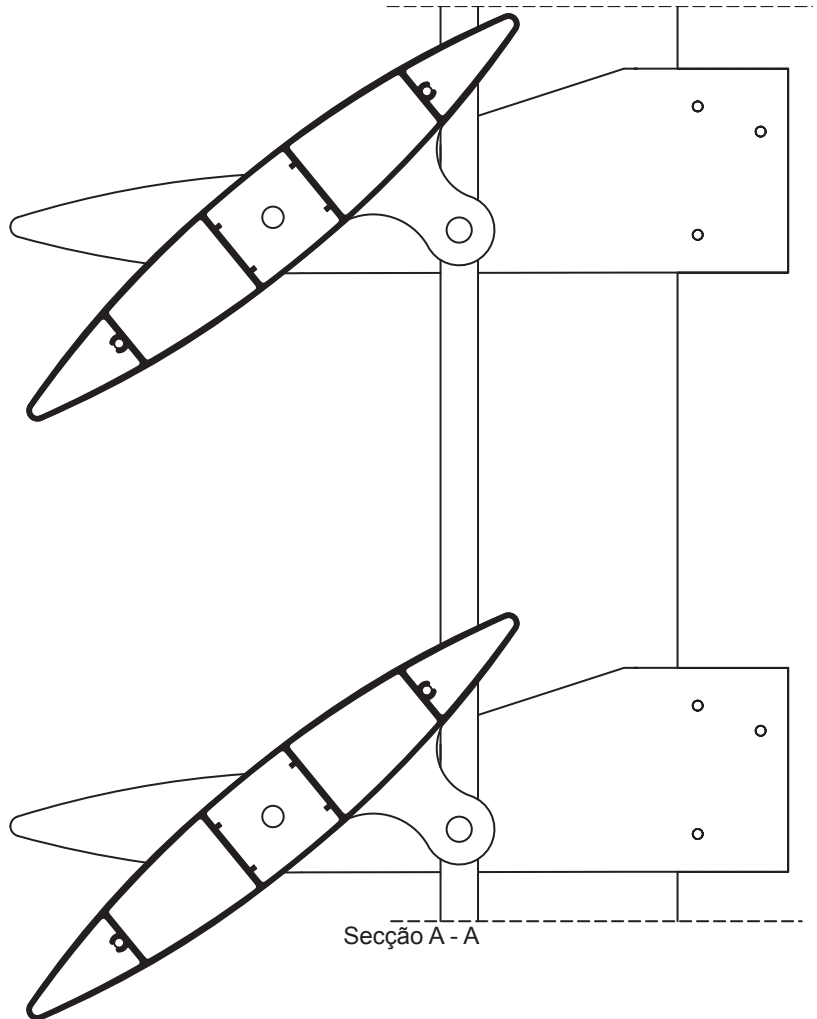
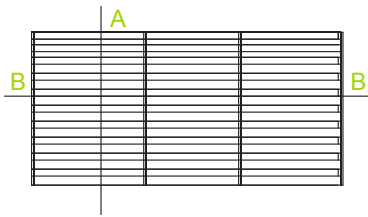
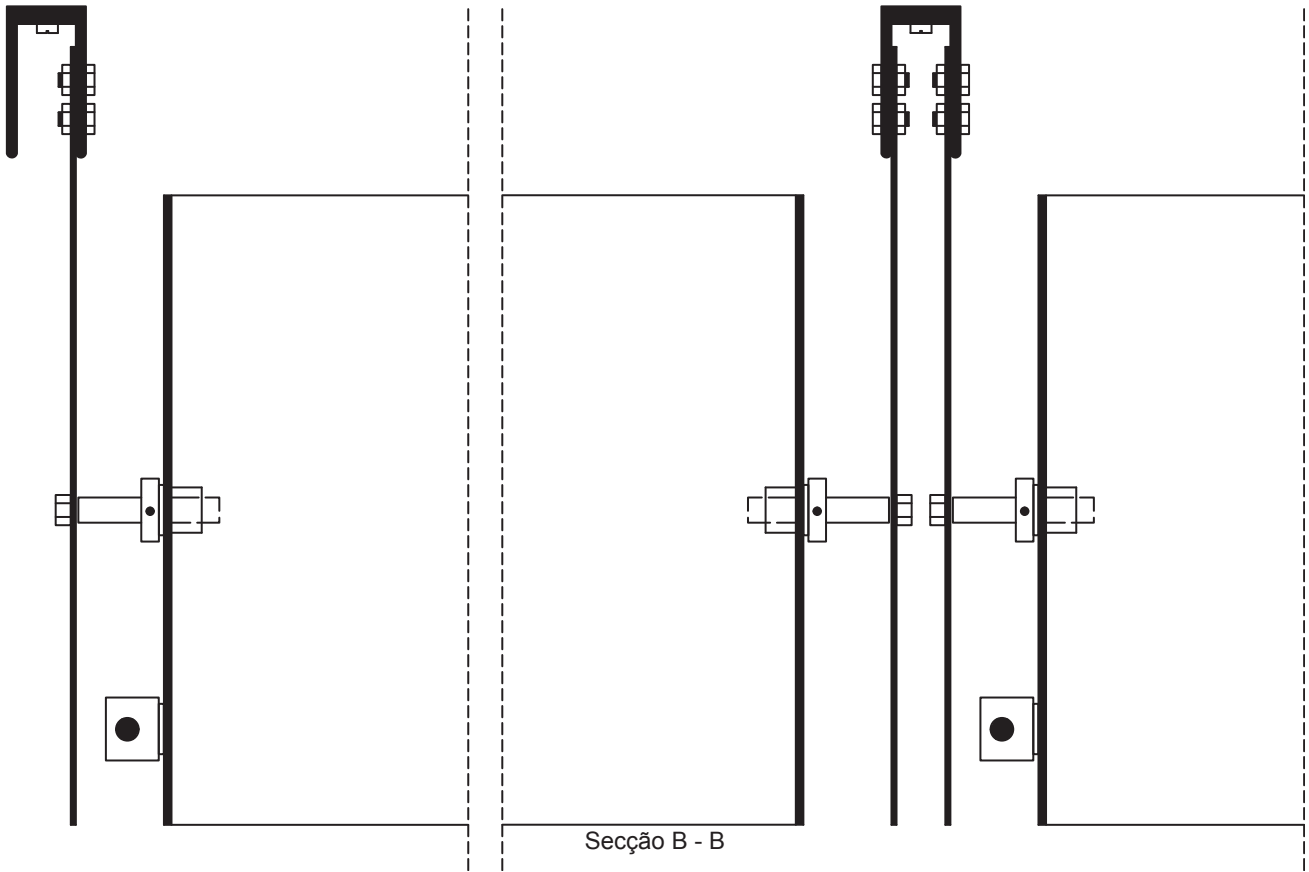


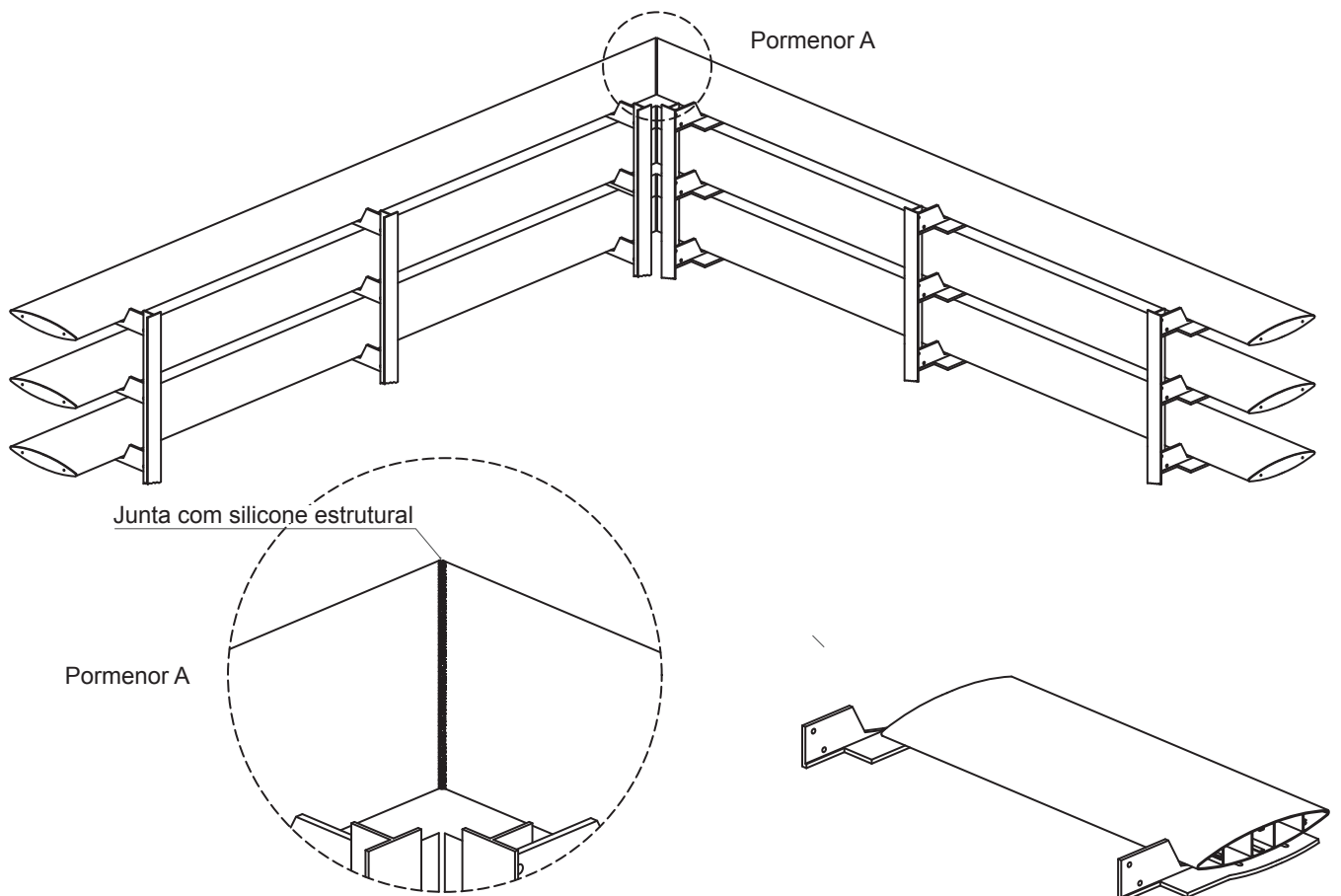
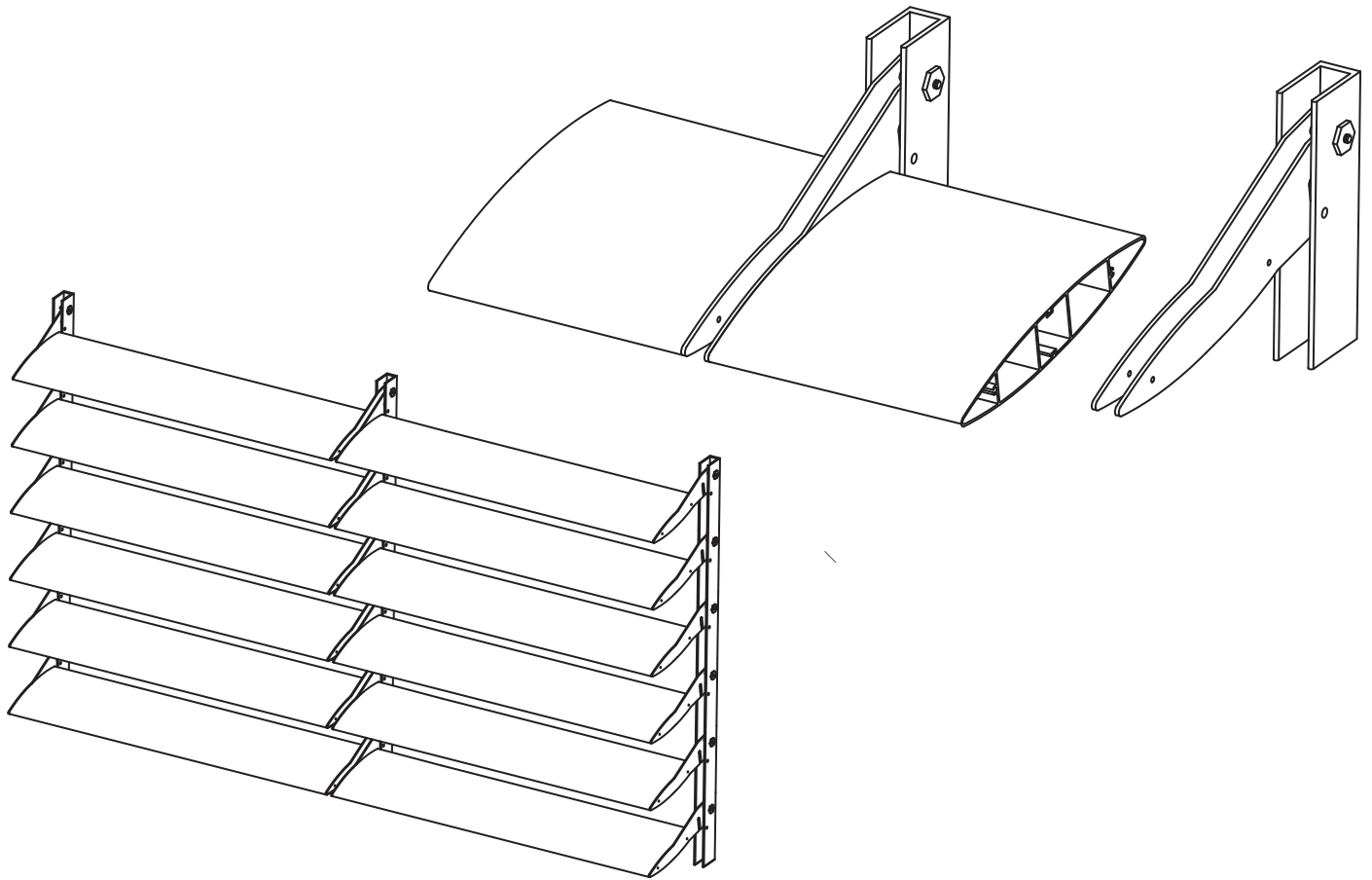
512

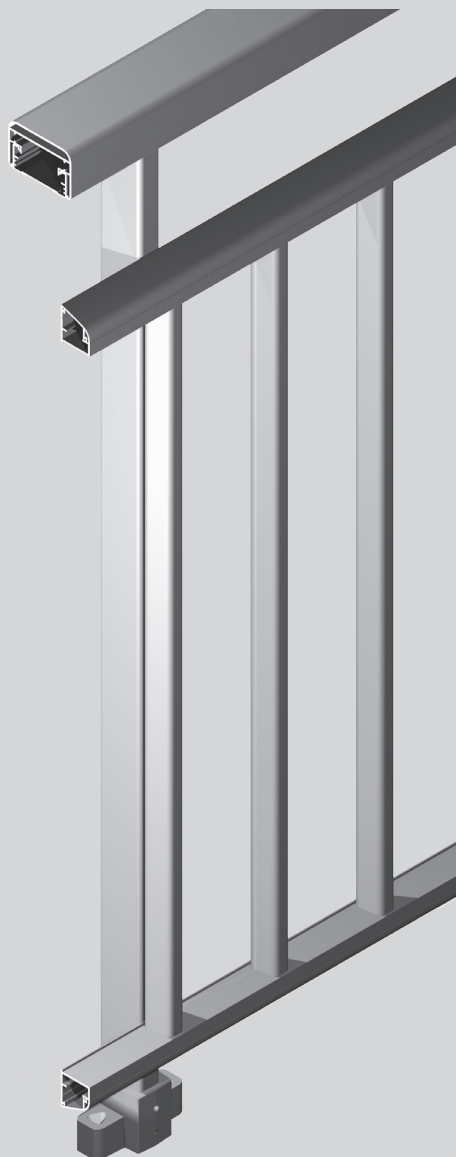


Montagem do motor sempre com o pistão virado para baixo

Z-62







Sistema

BL

Sistema BL

Sistema de corrimão que oferece quatro possibilidades distintas:

- Corrimão só com vidro;
- Corrimão de vidro com superfície superior livre;
- Corrimão com prumo total;
- Corrimão com prumo e superfície superior livre.

Esteticamente apresenta dois tipos de perfil para corrimão:

- Corrimão quadrado 60 mm;
- Corrimão circular com diâmetro de 67 mm;
- Corrimão elíptico com 80 mm de medida exterior.

Este sistema complementa-se com uma extensa gama de acessórios que permitem contemplar um elevado leque de soluções.

Sistema BL-Vidro

Sistema de alumínio minimalista para executar guardas ou corrimões de vidro.

Características do sistema

Sistema BL-Vidro é um produto inovador, elegante com design minimalista e de alta qualidade que serve de apoio ao longo de escadas ou de barreiras de segurança promovendo a protecção dos utilizadores.

Este produto oferece uma solução de transparência, estética durável e sem necessidade de manutenção.

De fácil montagem e com varias soluções de montagem para uma maior facilidade de integração em cada projecto.

O sistema foi concebido para servir com segurança em habitações privadas, publicas, edifícios comerciais ou de serviços tais como:

- Locais de actividade residencial: salas e quartos de edifícios de habitação privados, quartos e enfermarias de edifícios hospitalares, quartos de edifícios hoteleiros, cozinhas, lavabos. etc.
- Locais de acolhimento de publico: igrejas, teatros, cinemas, salas de conferência, salas de aulas, salas de reunião, salas de espera, salas de exposições, salões de dança, ginásios, palcos, acessos de publico a edifício administrativo, hospitalares e hoteleiros, átrios de estações de transportes públicos, grandes armazéns comerciais, zonas comerciais em geral, escritórios, cafés, restaurantes, salas de leitura, recepções etc.

O sistema BL-Vidro permite a execução de 3 versões:

- Versão minimalista superior;
- Versão minimalista embutida;
- Versão minimalista lateral;

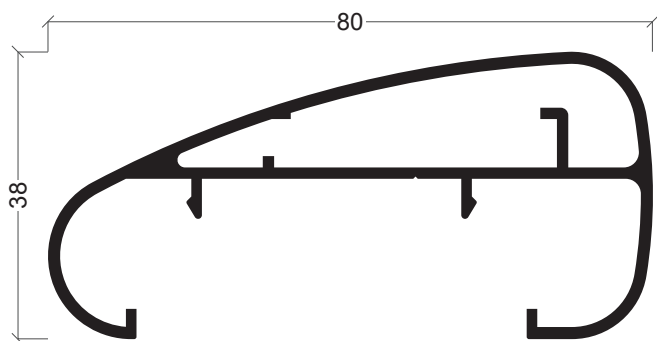
O sistema BL-Vidro foi concebido para receber vidros laminados-temperados ou laminados de espessura 8+8 ou 10+10 com um mínimo 2 camadas de polivinil butiral (PVB) entre as 2 chapas de vidro. Os vidros devem ter as arestas quebradas.

O sistema está de acordo com as normas de construção nacionais ou internacionais e satisfaz todas as normas de segurança tendo sido certificado segundo a norma NP 4491:2009.

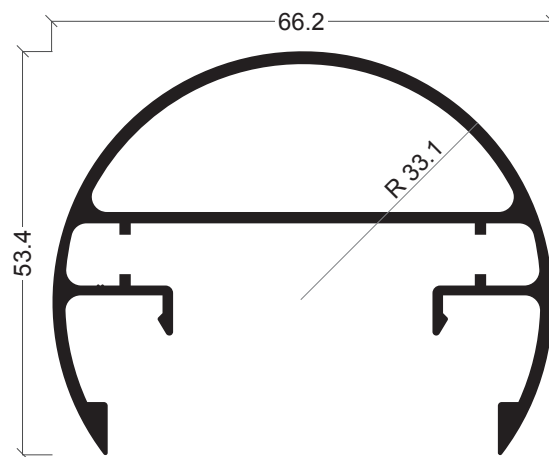
- Perfil base BL-20 em alumínio com 120 mm x 43 mm;
- Altura mínima da guarda de 1100 mm;
- Largura máxima recomendada para o vidro: 2100 mm;
- Fixação do perfil base em versão superior ou lateral em intervalos de 400mm;
- Disponibilidade de perfil suplementar BL-21 para a versão de minimalista lateral;
- Disponível diversos perfis de remate superior para efeito de passa-mão;
- Juntas de vedação em SEBS cinza;
- Juntas de enchimento em EPDM de qualidade marítima.

Perfis de alumínio

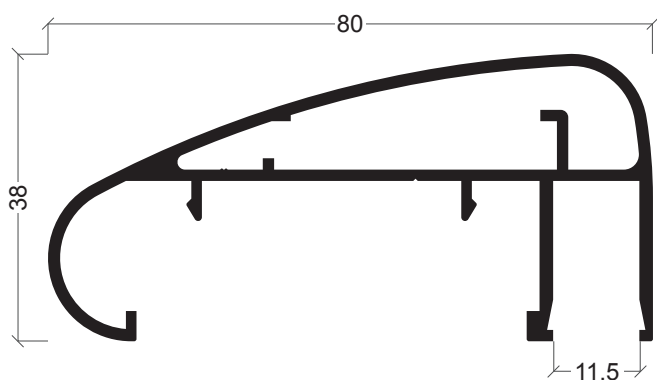
- Os perfis de alumínio são extrudidos na liga de alumínio 6060 para arquitetura de acordo com norma NP EN 12020-02.



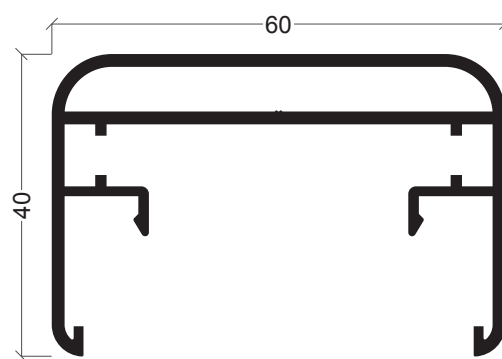
BL-02



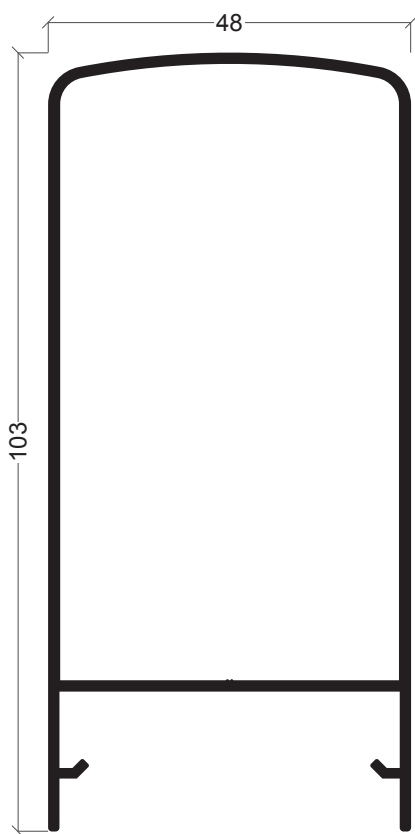
BL-12



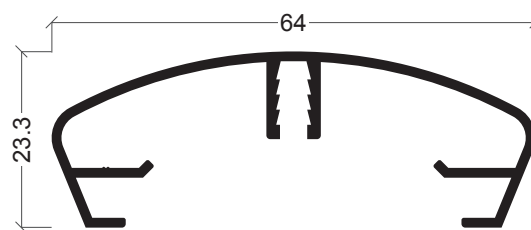
BL-11



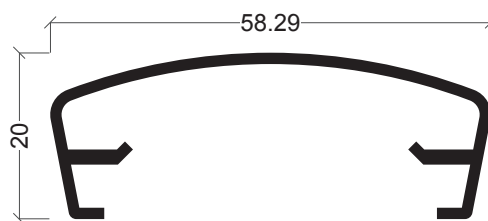
BL-14



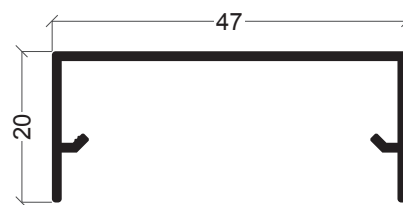
BL-15



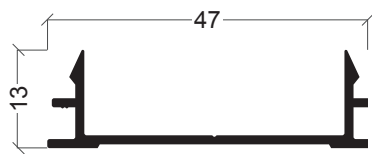
BL-04



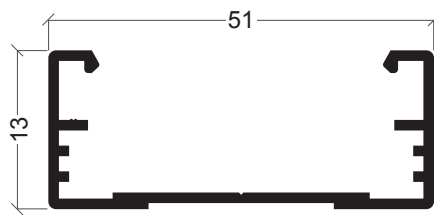
BL-16



BL-17



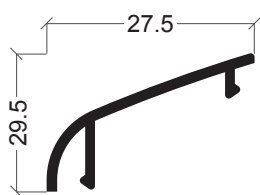
BL-18



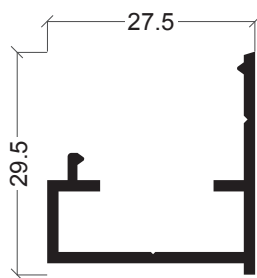
BL-03



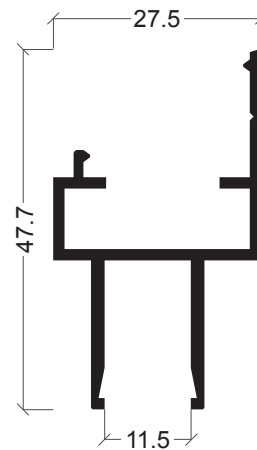
BL-05



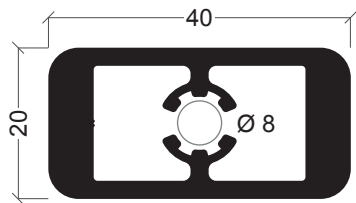
BL-08



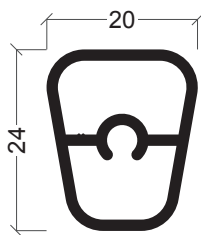
BL-06



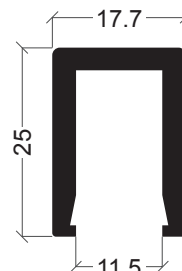
BL-07



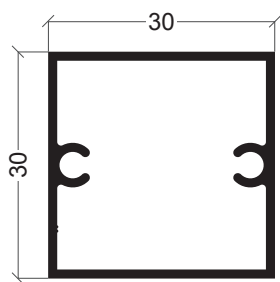
BL-09



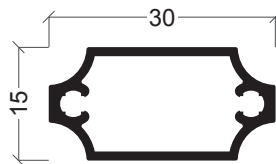
BL-10



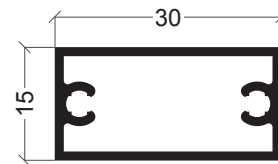
BL-13



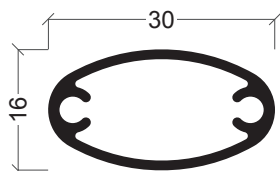
F1-05



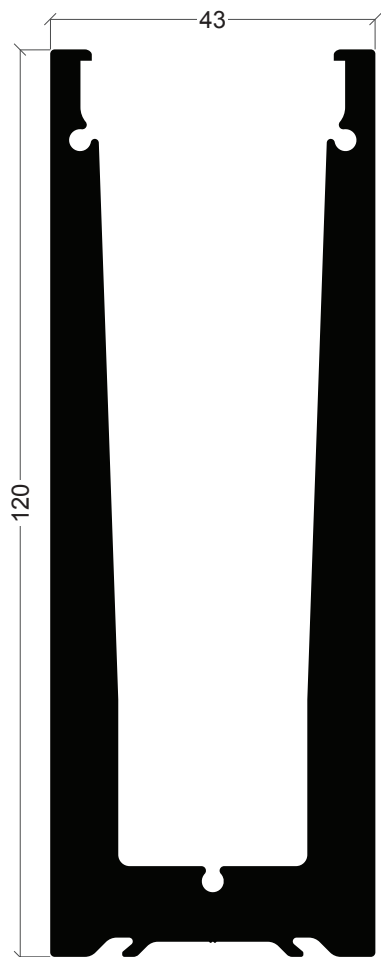
F1-09



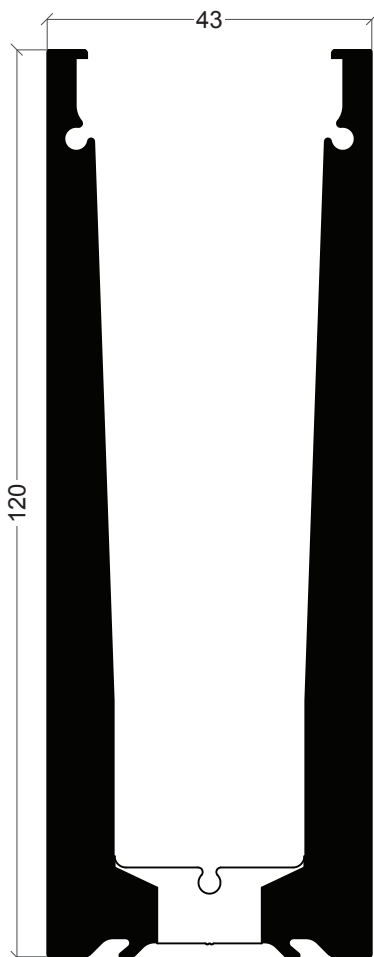
F1-04



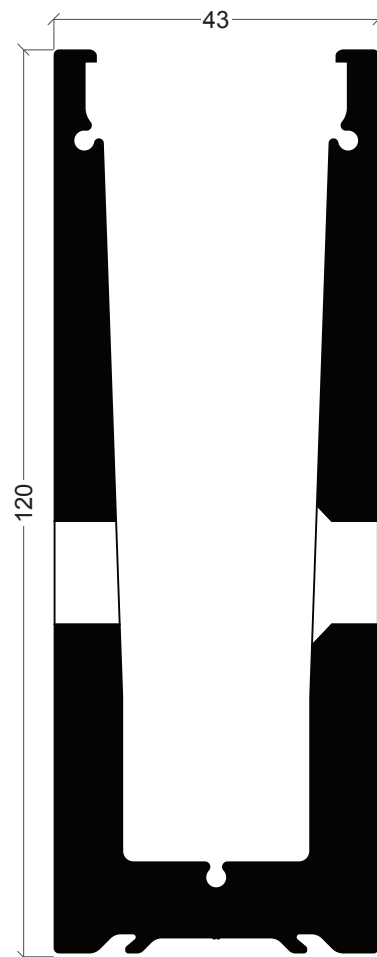
BL-19



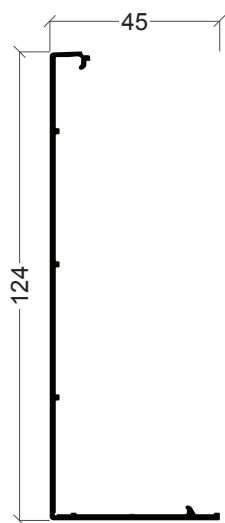
BL-20



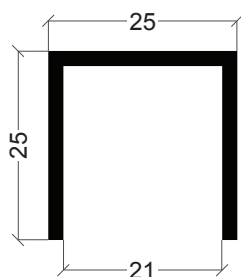
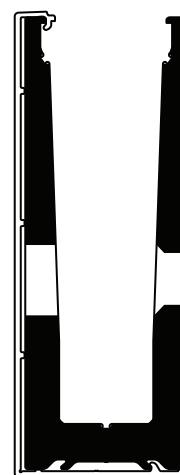
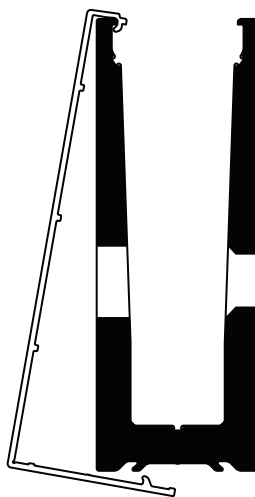
BL-20/FV
(com furação vertical) em intervalos de 400 mm



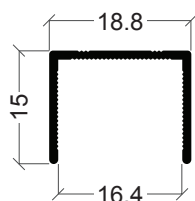
BL-20/FH
(com furação horizontal) em intervalos de 400 mm



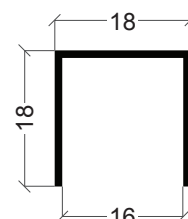
BL-21



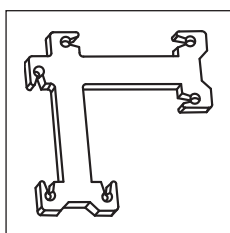
U-11
para vidro 1010.2



S-19
para vidro 88.2 ou 88.4

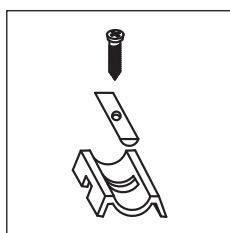


U-02
(recomendamos aplicação do perfil U-02 anodizado) para vidro 88.2



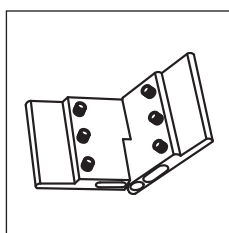
30 90 85 04

Esquadro fixo 90°



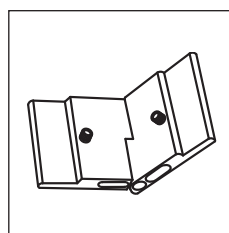
30 90 85 05

Fixação montante inclinado



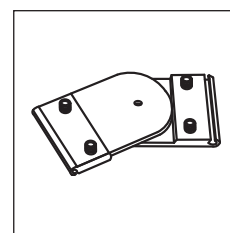
30 90 85 06

Esquadro ângulo variável BL-03



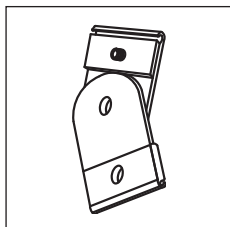
30 90 85 07

Esquadro ângulo variável BL-06



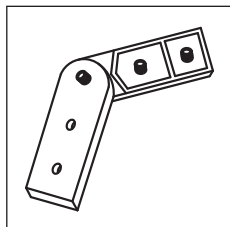
30 90 85 08

Esquadro regulável BL-03



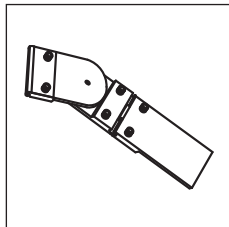
30 90 85 09

Esquadro regulável BL-06



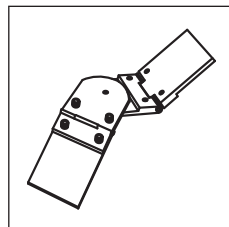
30 90 85 10

Esquadro regulável BL-02



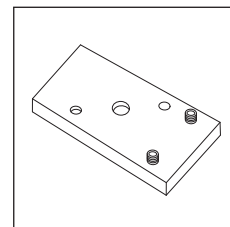
30 90 85 11

Esquadro duplo regulável



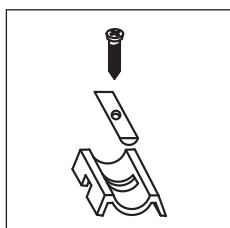
30 90 85 12

Esquadro triplo regulável



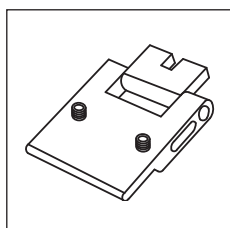
30 90 85 13

União de passamãos



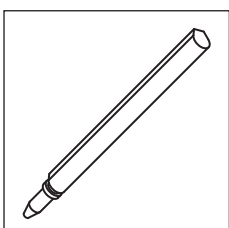
30 90 85 14

Fixação prumo inclinado



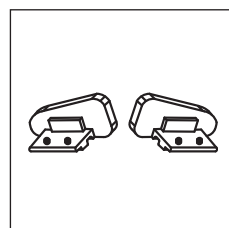
30 90 85 23

União travessa inferior regulável



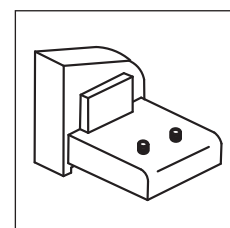
30 96 00 55

Perno para fixação de topo



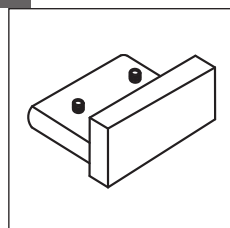
31 90 85 01*

Jogo tampas laterais BL-02



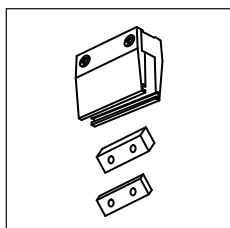
31 90 85 02*

Jogo tampas laterais BL-06



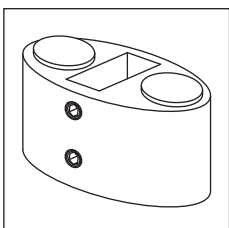
31 90 85 03*

Tampa BL-03



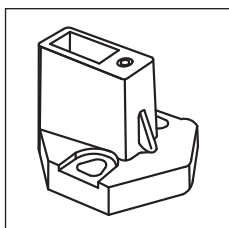
31 90 85 05

Apoio lateral com calços BL-Vidro (lacado ou anodizado)



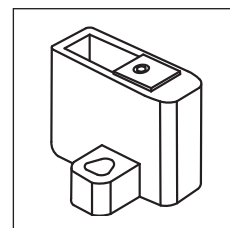
31 90 85 14

Sapata elíptica (tampas cromadas)



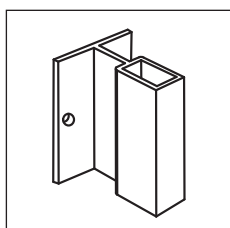
31 90 85 15*

Fixador ao pavimento



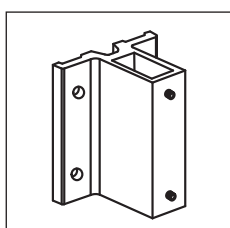
31 90 85 16

Fixador ao pavimento extrudido



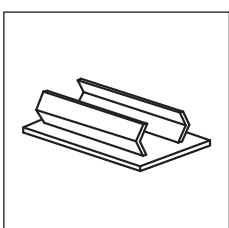
31 90 85 17

Fixador alto



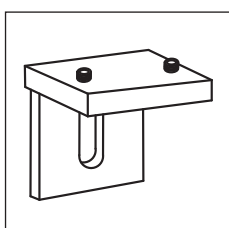
31 90 85 18

Fixador baixo



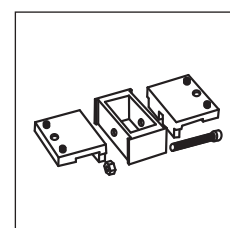
31 90 85 19

Tampão do fixador



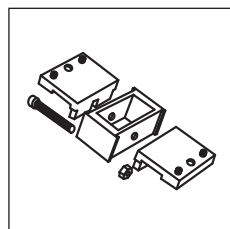
31 90 85 20

Terminal fixação muro



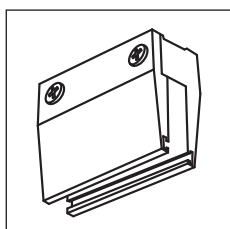
31 90 85 21

União travessa inferior recta



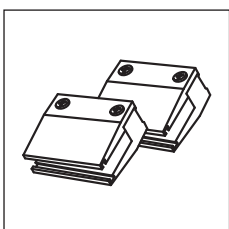
31 90 85 22

União travessa inferior 30°



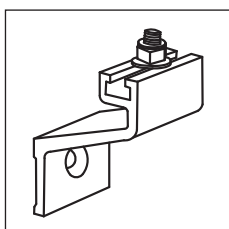
31 90 85 24

Suporte porta-vidro recto



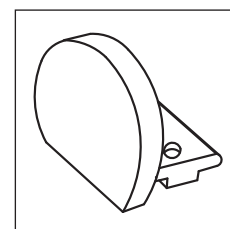
31 90 85 25

Suporte porta-vidro 30°



31 90 85 26

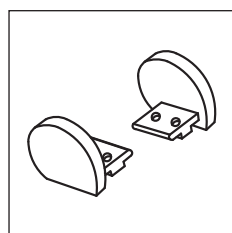
Suporte passamãos muro



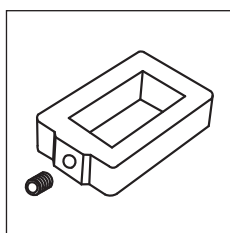
31 90 85 27

Tampa de passamãos BL-12

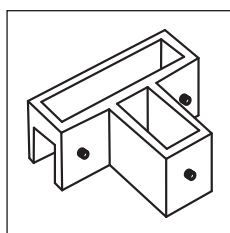
* Só para lacar



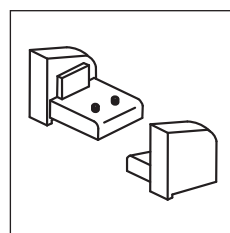
31 90 85 28
Conjunto tampas BL-12 a 30°



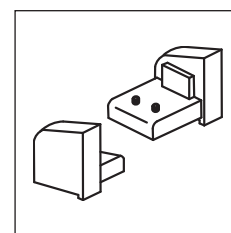
31 90 85 29
Remate pavimento BL-09



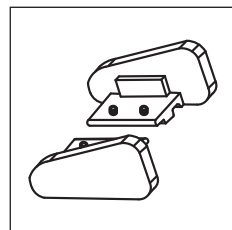
31 90 85 30
Suporte remate vidro



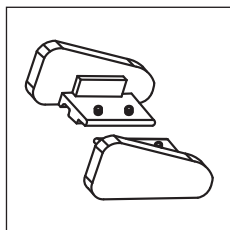
31 90 85 31*
Conjunto tampa lateral BL-06 direito 30°



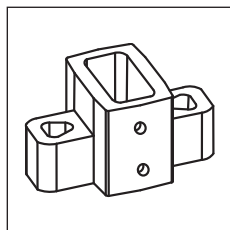
31 90 85 32
Conjunto tampa lateral BL-06 esquerdo 30°



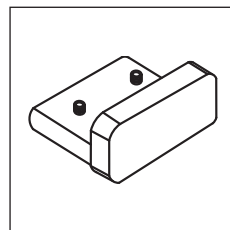
31 90 85 33*
Conjunto tampa corrimão direito 30°



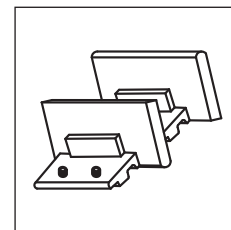
31 90 85 34*
Conjunto tampa corrimão esquerdo 30°



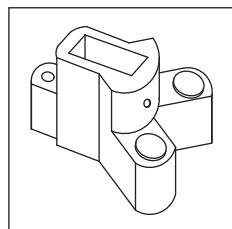
31 90 85 36
Fixador de muro



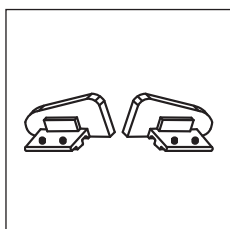
31 90 85 37
Tampa lateral BL-14



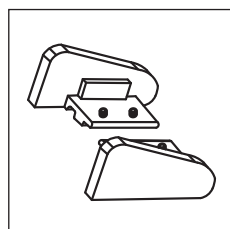
31 90 85 38
Jogo tampas laterais BL-14 30°



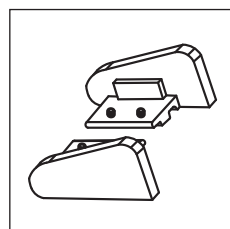
31 90 85 39
Fixador ao pavimento para BL-09 (tampas pretas)



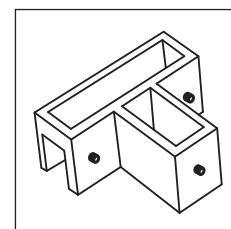
31 90 85 40*
Jogo tampas laterais BL-11



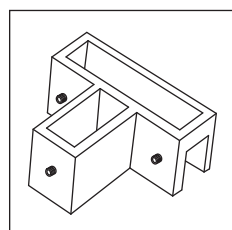
31 90 85 41
Conjunto tampa corrimão para BL-11 esquerdo 30°



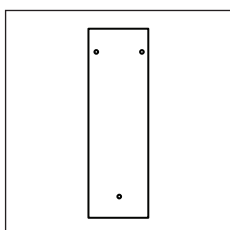
31 90 85 42
Conjunto tampa corrimão para BL-11 direito 30°



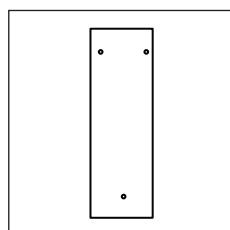
31 90 85 43
Suporte remate vidro esquerdo 30°



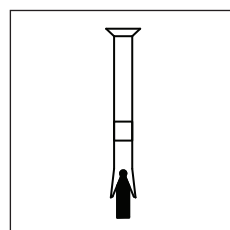
31 90 85 44
Suporte remate vidro direito 30°



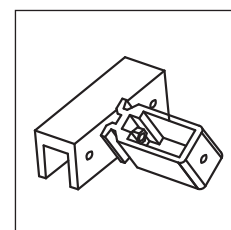
31 90 85 45
Topo para BL-20 (anodizado ou lacado)



31 90 85 46
Topo para BL-20 + BL-21 (anodizado ou lacado)



31 90 85 47
Buchca zincada M8

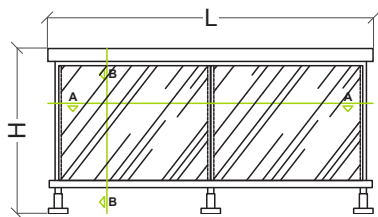


31 90 85 50
Suporte vidro regulável

Referência	Desenho	Descrição
30 90 85 60		Junta para vidro 44.1
30 90 85 62		Junta para vidro 44.2
30 90 85 63		Junta BL nº 1 cinza (rolo 150 mts)
30 90 85 64		Junta BL nº 2 cinza (rolo 100 mts)
30 90 85 65		Junta BL nº 4 cinza (rolo 100 mts)
30 90 85 66		Junta BL nº 5 cinza (rolo 100 mts)
30 90 85 67		Junta BL nº 6 preto (rolo 50 mts)
30 90 85 68		Junta em U BL nº 1 preto (rolo 50 mts)
30 90 85 69		Junta em U BL nº 2 preto (rolo 45 mts)

* Só para lacar

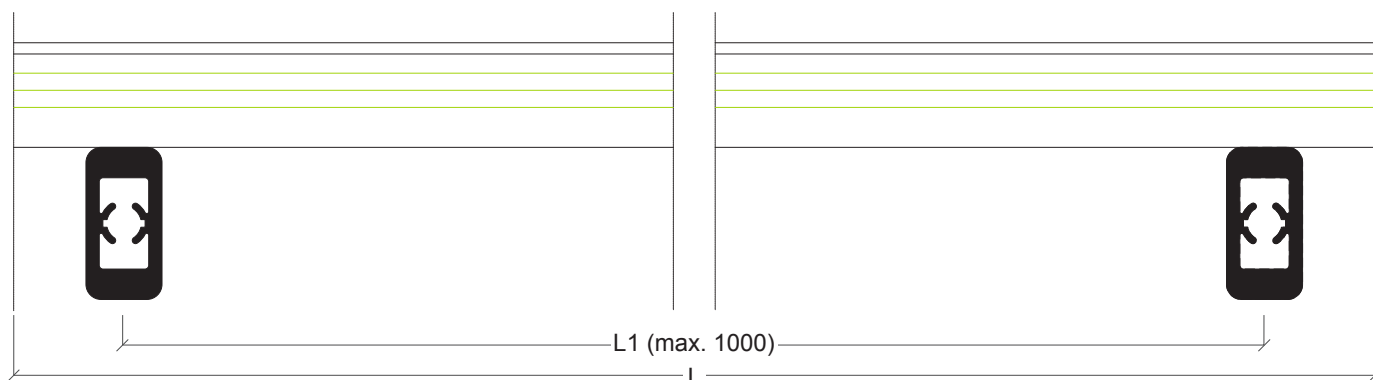
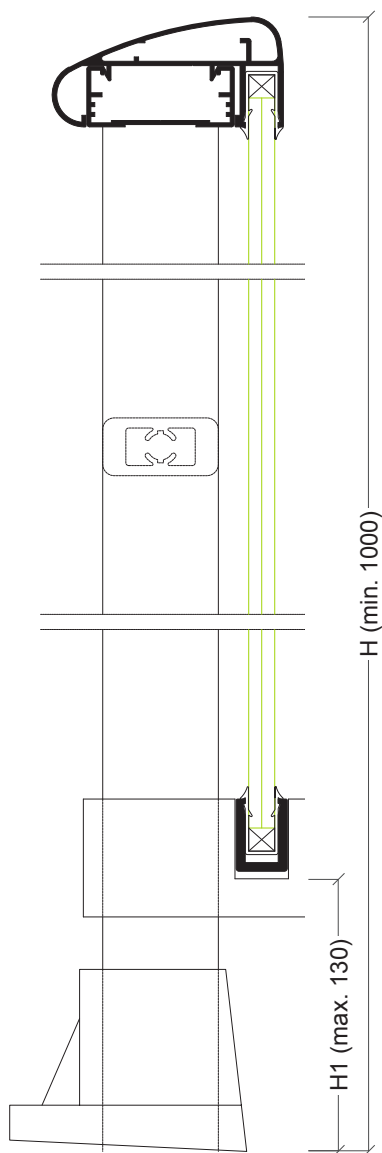
Corrimão vidro



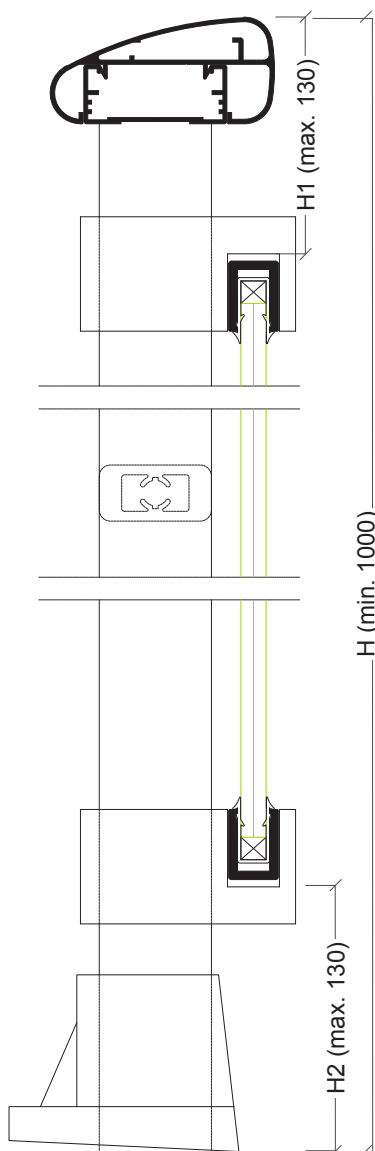
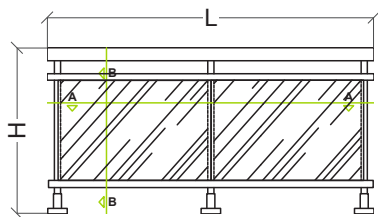
Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	BL-03	Encaixe para passamãos		1	L
	BL-09	Prumo		$\leq L / 1000 = A$	H-38 mm
	BL-11	Passamãos com suporte vidro		1	L
	BL-13	Remate vidro		1	L
	31 90 85 15	Fixador ao pavimento	---	Igual A	Opcional
	31 90 85 30	Suporte remate vidro	---	Igual A	---
	30 90 85 60	Junta vidro	---	2	L
---	---	Vidro segurança (4+4)	---	Igual A-1	$(L1-2) \times (H-H1-30)$

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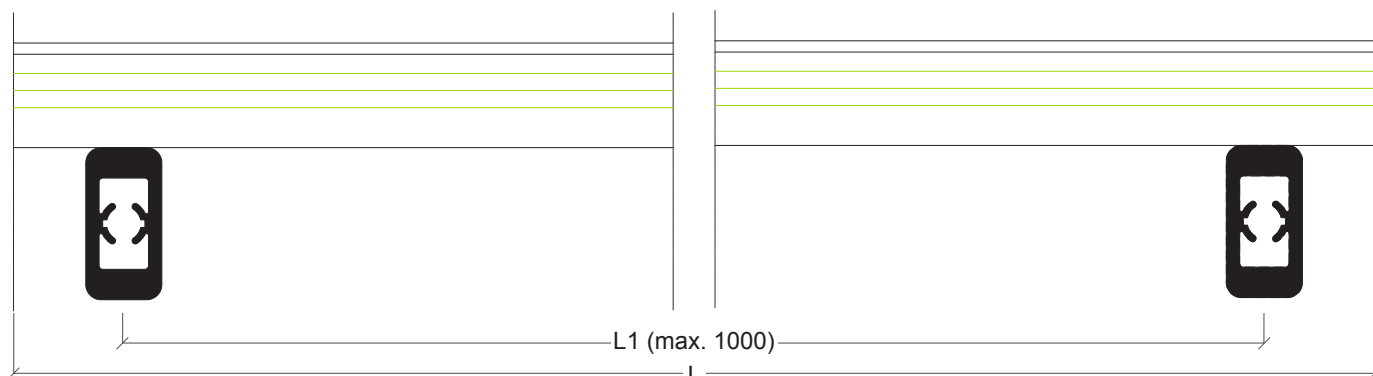


Corrimão vidro com bordo livre

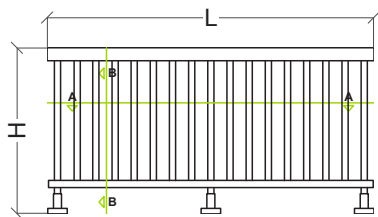


Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	BL-02	Passamãos		1	L
	BL-03	Encaixe para passamãos		1	L
	BL-09	Prumo		$\leq L / 1000 = A$	H-38 mm
	BL-13	Remate vidro		2	L
	31 90 85 15	Fixador ao pavimento	---	Igual A	Opcional
	31 90 85 30	Suporte remate vidro	---	Igual A	---
	30 90 85 60	Junta vidro	---	2	L
---	---	Vidro segurança (4+4)	---	Igual A-1	$(L1-2) \times (H-H1-H2-30)$

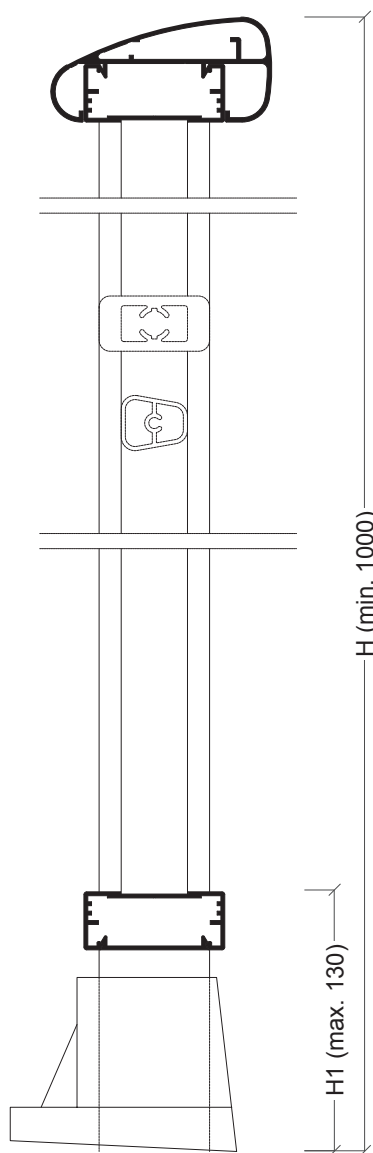


Corrimão prumos

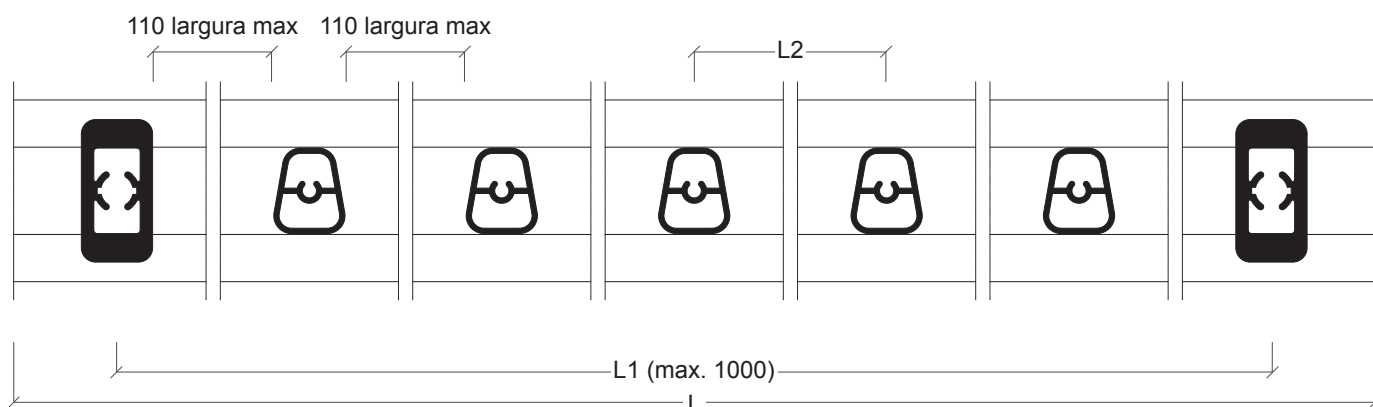


Perfis

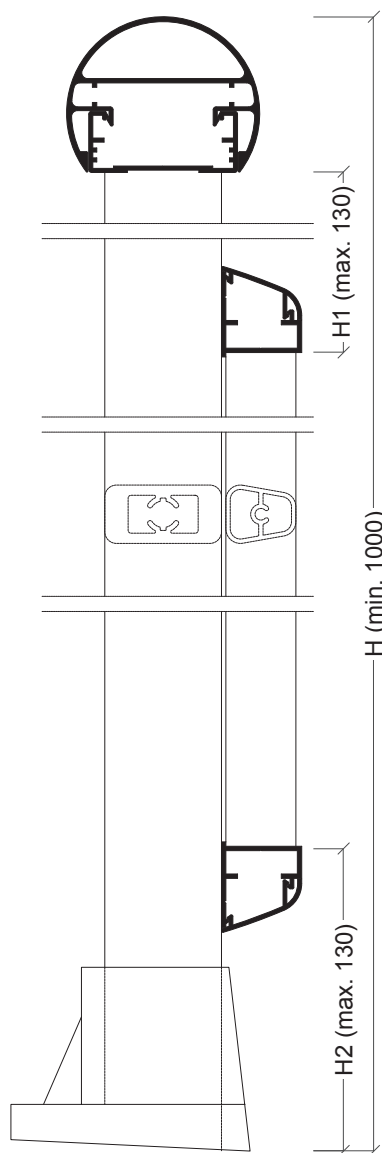
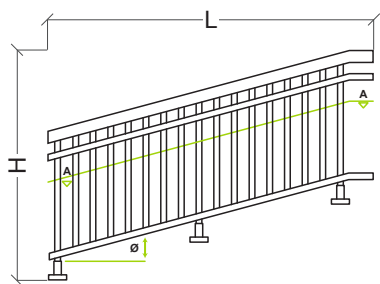
Desenho	Ref	Descrição	Corte	Quant	Medida
	BL-02	Passamãos		1	L
	BL-03	Encaixe para passamãos		2	L
	BL-05	Tampa para BL-03		1	L
	BL-09	Prumo		$\leq L / 1000 = A$	H-38 mm
	BL-10	Tubo corrimão		$\leq L1/130-1 \times n^\circ$ de largura	H-H1-38 mm
	31 90 85 15	Fixador ao pavimento	---	Igual A	Opcional



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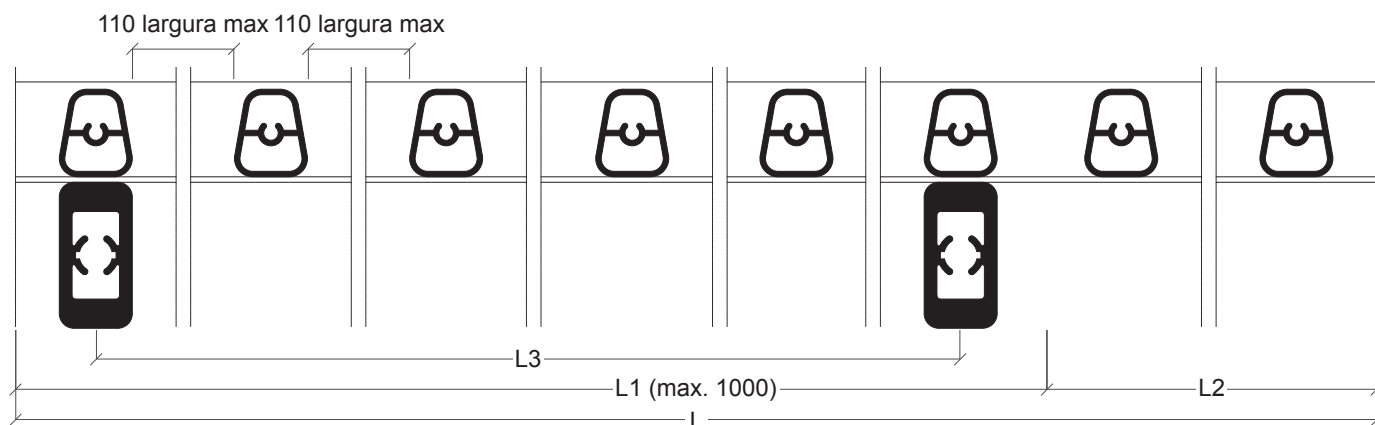
Corrimão prumos com bordo livre

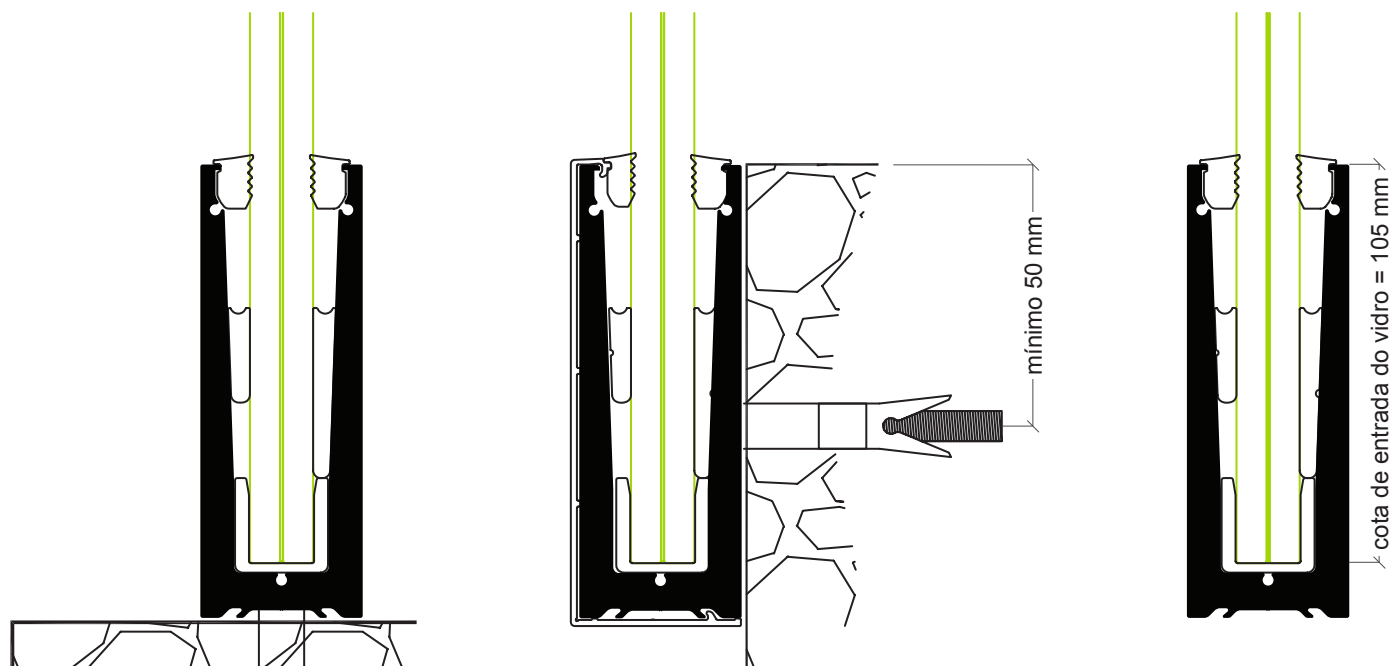


Perfis

Desenho	Ref	Descrição	Corte	Quant	Medida
	BL-08 + BL-06	Tampa para BL-06 Suporte grade	$\emptyset - (\emptyset-2)$	2 (1+1)	L1
	BL-08 + BL-06	Tampa para BL-06 Suporte grade	$\emptyset/2 - 0^\circ$	2 (1+1)	L2
	BL-09	Prumo	$\emptyset - 0^\circ$	$\leq L / 1150$	H-44 mm
	BL-09	Prumo	$0^\circ - 0^\circ$	$\leq L / 1000$	H-38 mm
	BL-10	Tubo corrimão	$\emptyset - \emptyset$	$\leq (L3/150)$ Nº de larguras	H-H1-H2-44 mm
	BL-10	Tubo corrimão	$0^\circ - 0^\circ$	$\leq (L3/130)$	H-H1
	BL-12 + BL-03	Passamãos redondo Encaixe para passamãos	$\emptyset - (\emptyset-2)$	1	L1 (por parte inferior)
	BL-12 + BL-03	Passamãos redondo Encaixe para passamãos	$\emptyset/2 - 0^\circ$	1	L2
	30 90 85 05	Fixação montante inclinado	---	1 x nº perfil BL-09	---
	30 90 85 06	Esquadro ângulo variável BL-03	---	2	---
	30 90 85 07	Esquadro ângulo variável	---	2	---
	30 90 85 14	Fixação prumo inclinado	---	2 x nº perfil BL-10	---
	31 90 85 15	Fixação ao pavimento	---	1 x nº perfil BL-09	---
	31 90 85 28	Conjunto tampas BL-12 a 30°	---	1	---

525





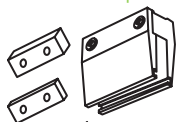
526

mínimo 50 mm

mínimo 50 mm

cota de entrada do vidro = 105 mm

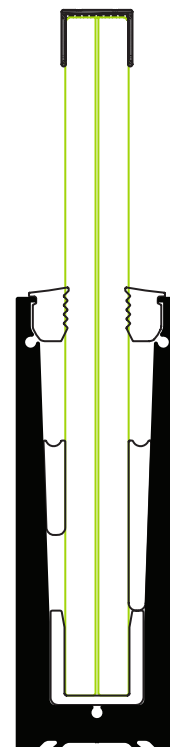
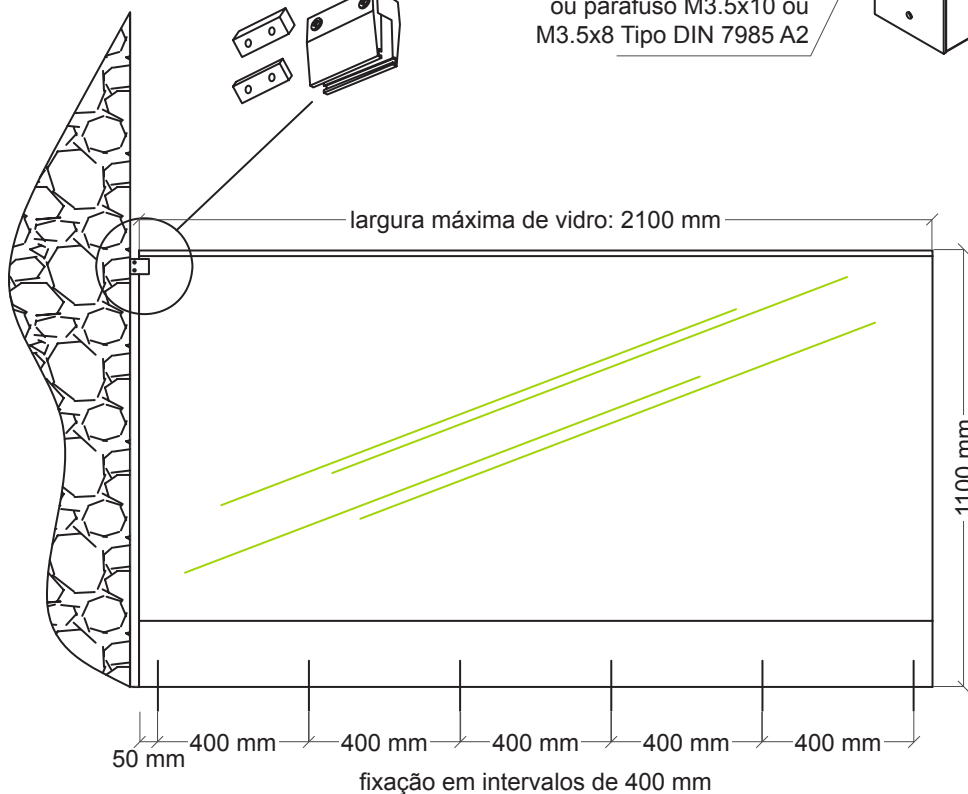
30 90 85 05
Aplicação obrigatória para obras
públicas ou locais públicos



perno 30 96 00 55

ou parafuso M3.5x10 ou
M3.5x8 Tipo DIN 7985 A2

Colar com silicone ou cola-e-veda o perfil superior de remate



Banheiros

Divisórias

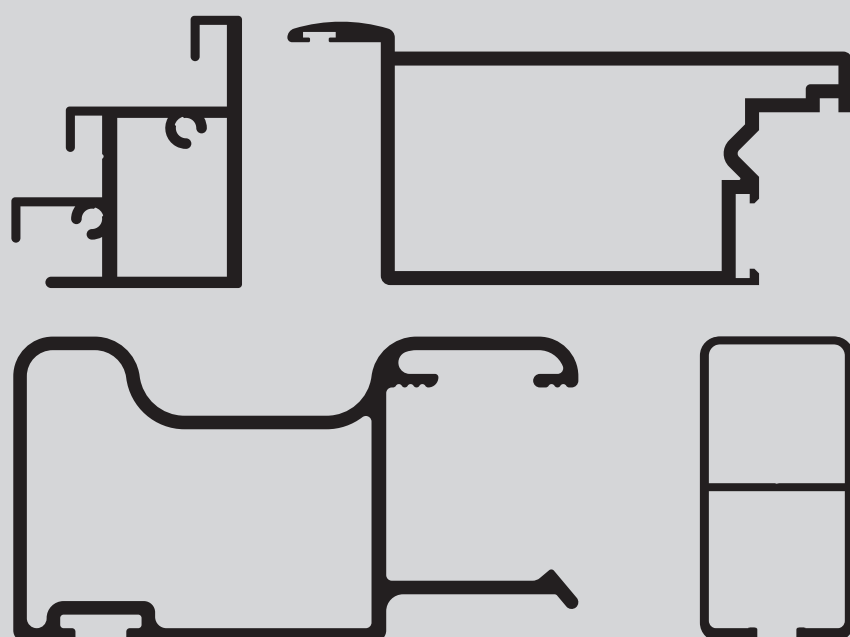
Rede Mosquiteira

Portões

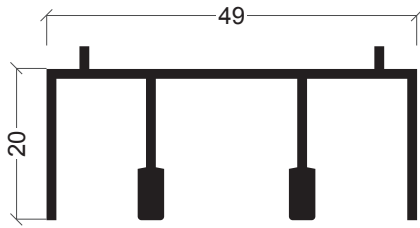
Roupeiros

Toldos

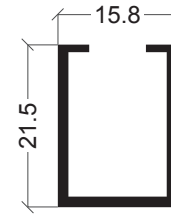
Pré-Aros



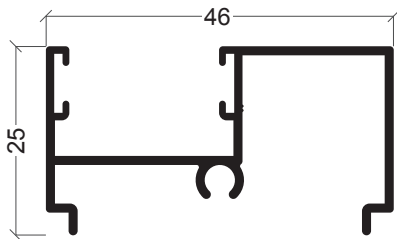
**Perfis
Standard**



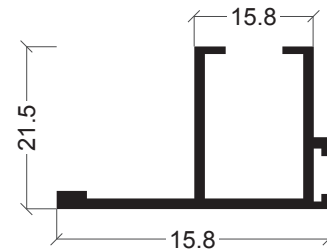
SP-01



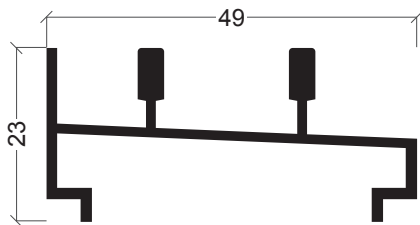
SP-05



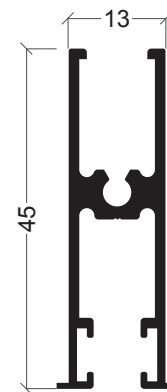
SP-04



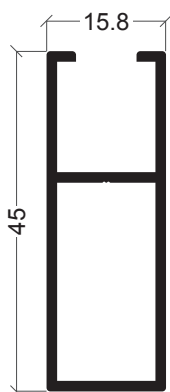
SP-06



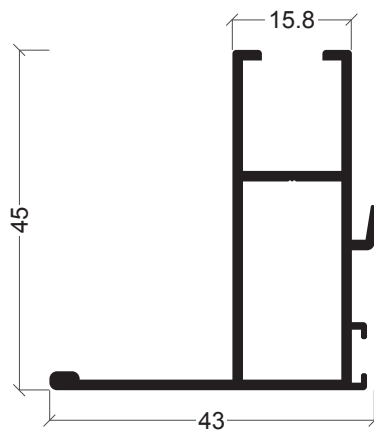
SP-16



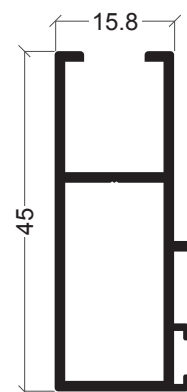
SP-10



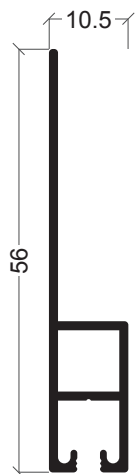
SP-17



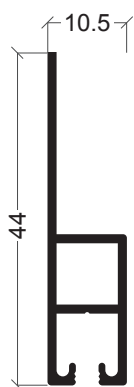
SP-18



SP-27



KE-01



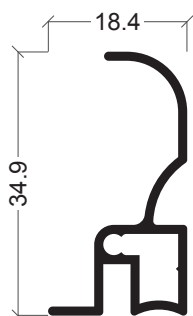
KE-02



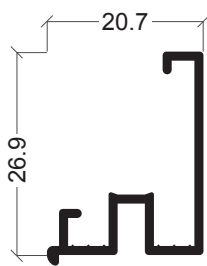
KE-17



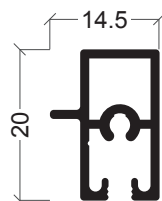
KE-03



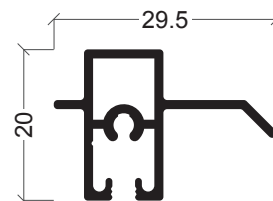
KE-13



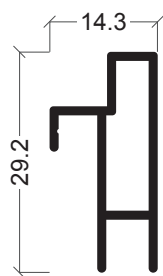
KE-14



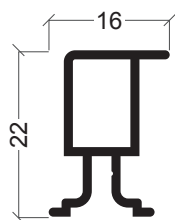
KE-04



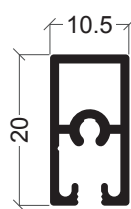
KE-05



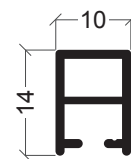
KE-18



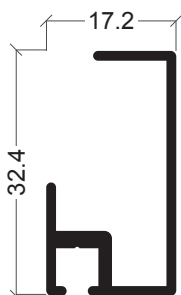
KE-19



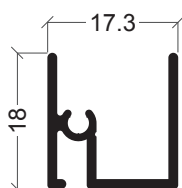
KE-06



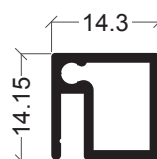
KE-20



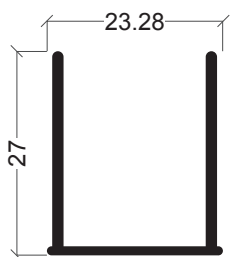
KE-21



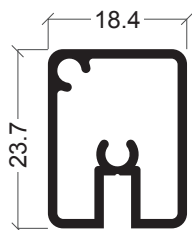
KE-22



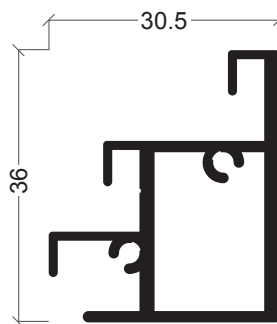
KE-23



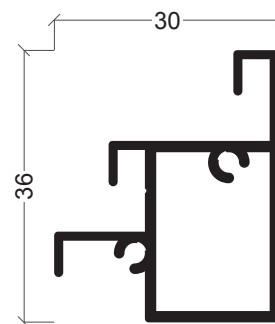
KE-12



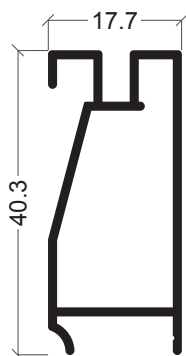
KE-15



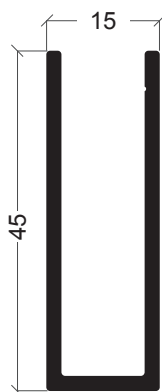
KE-11



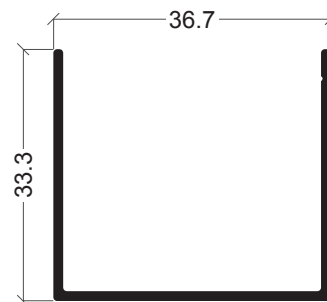
KE-24



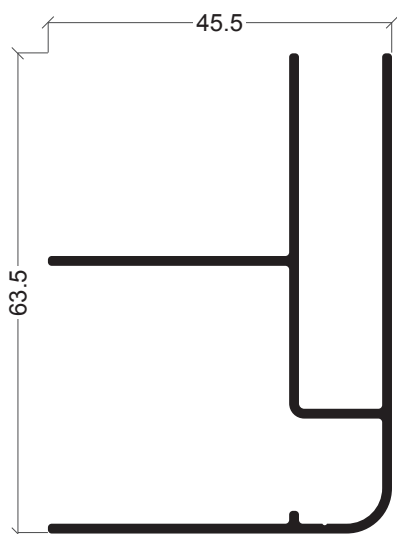
KE-16



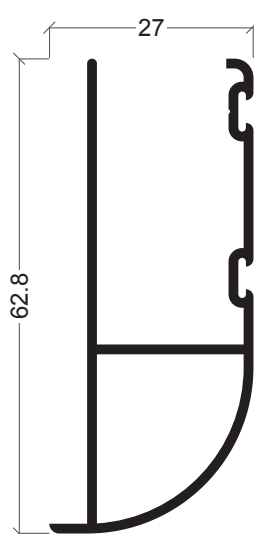
KE-09



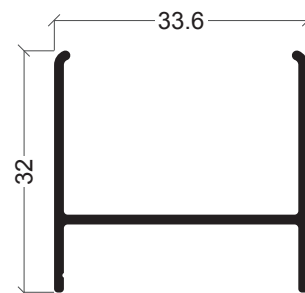
KE-08



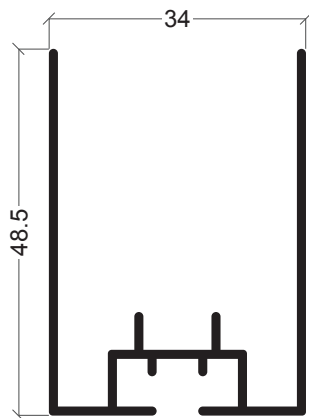
KE-07



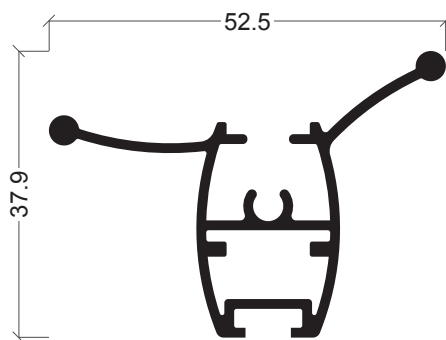
KE-25



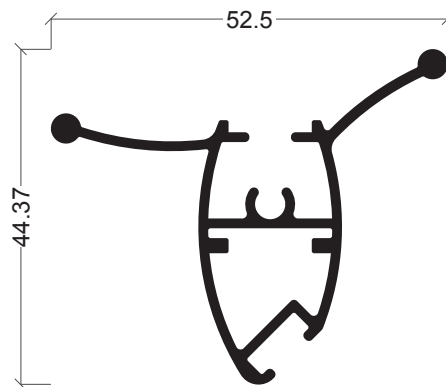
KE-10



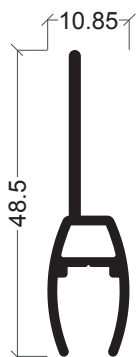
KE-50



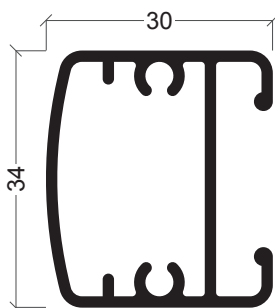
KE-51



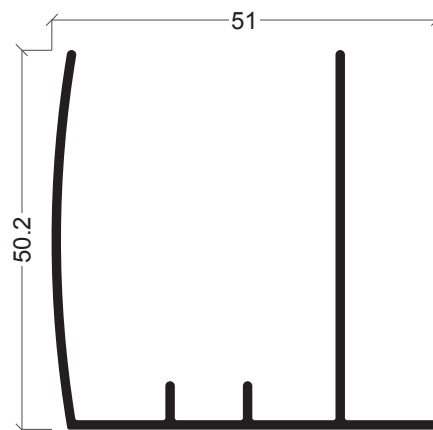
KE-52



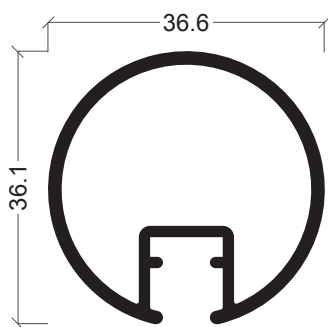
KE-53



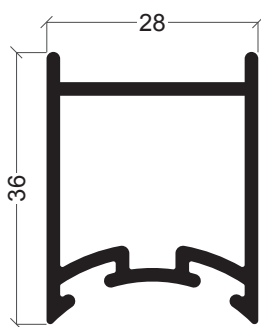
KE-54



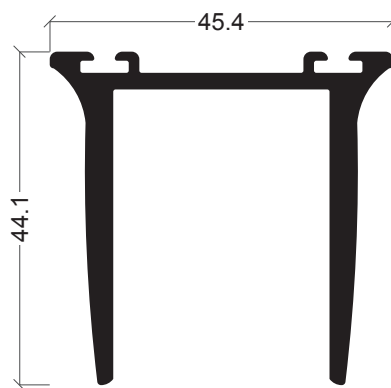
KE-55



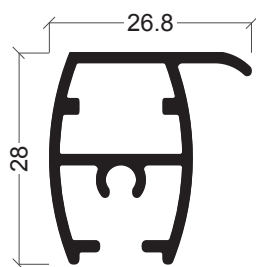
KE-56



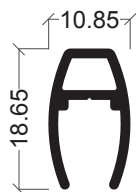
KE-57



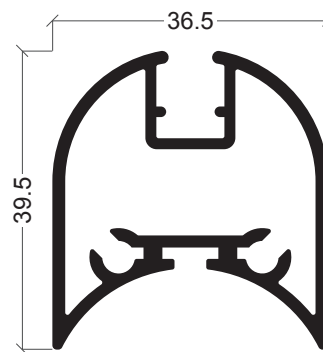
KE-58



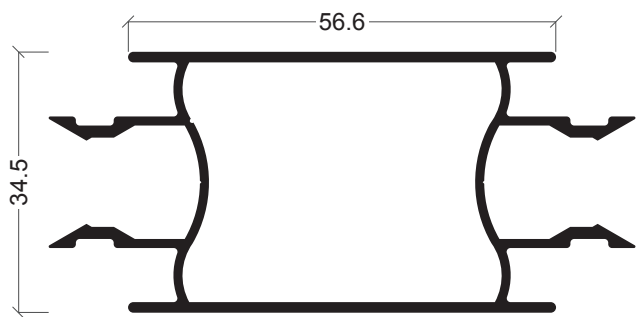
KE-59



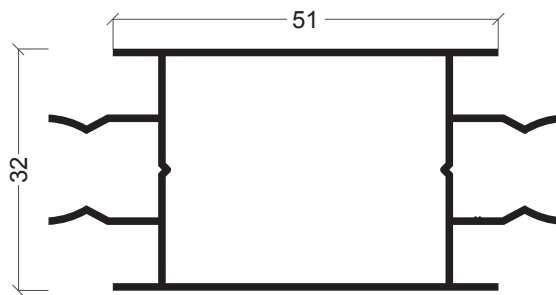
KE-60



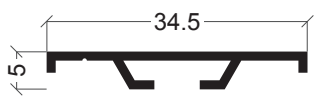
KE-61



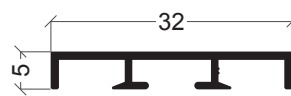
TR-06



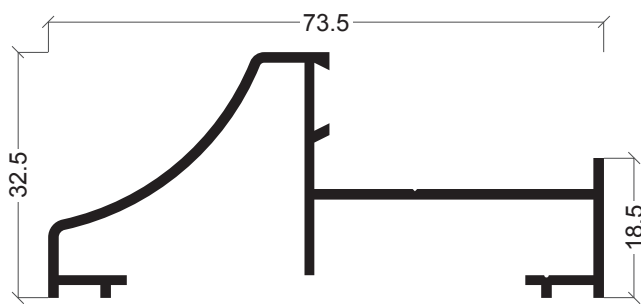
TR-15



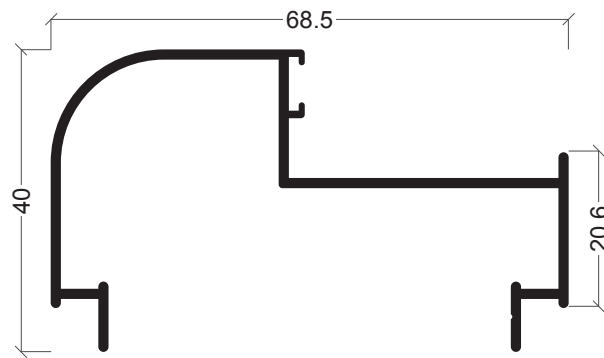
TR-07



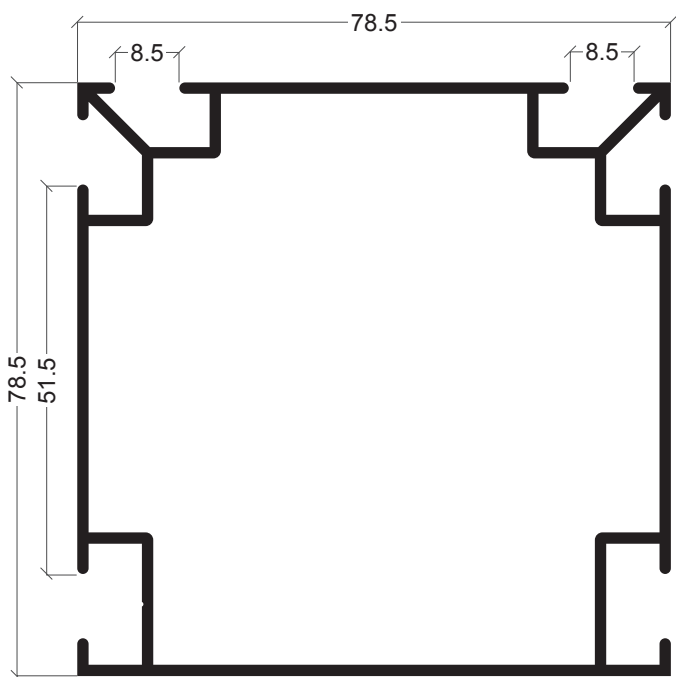
TR-16



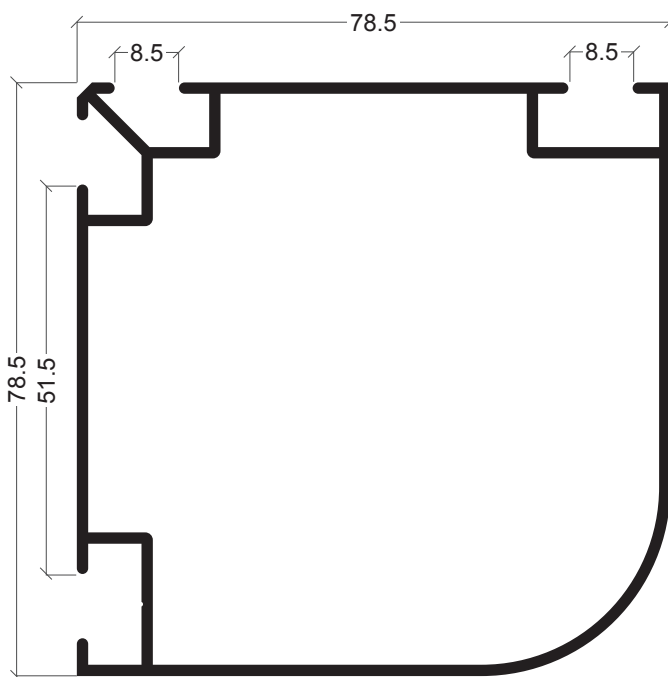
TR-12



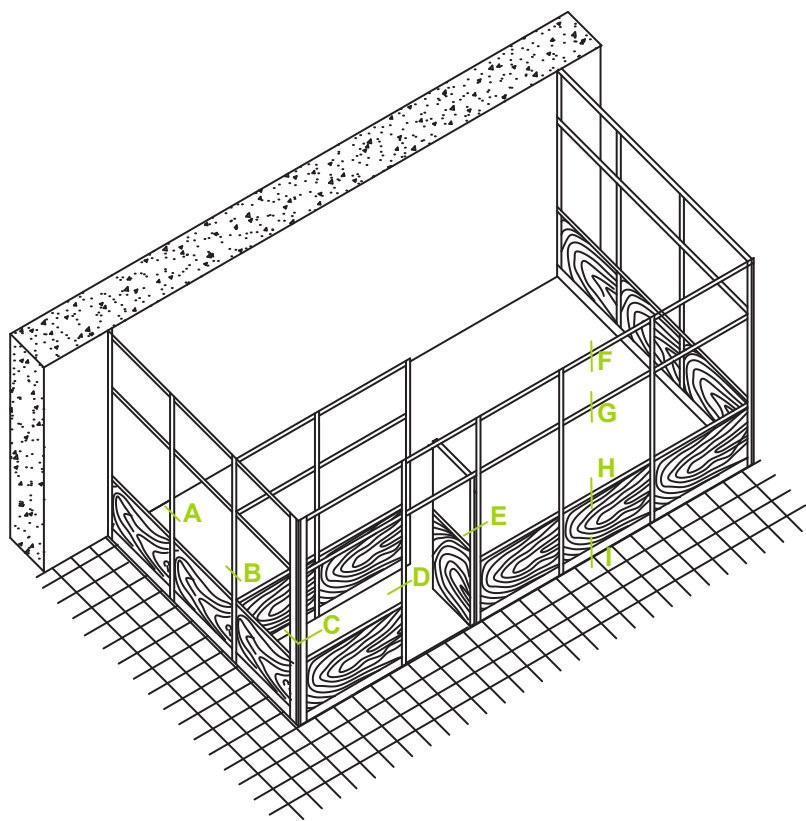
TR-19



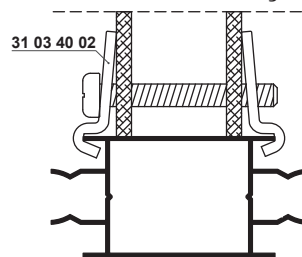
TR-17



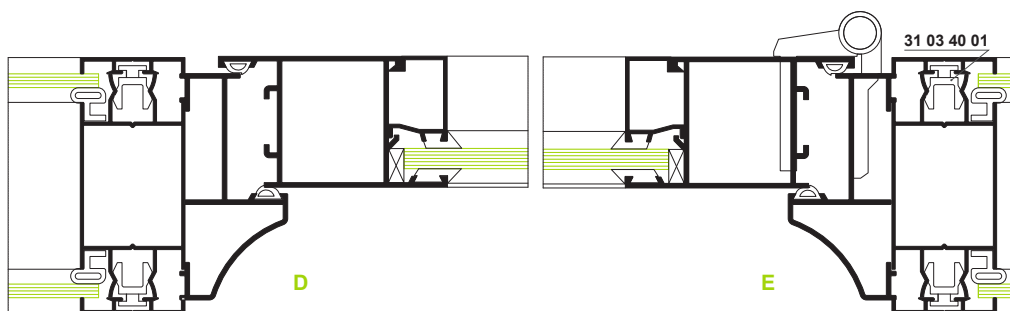
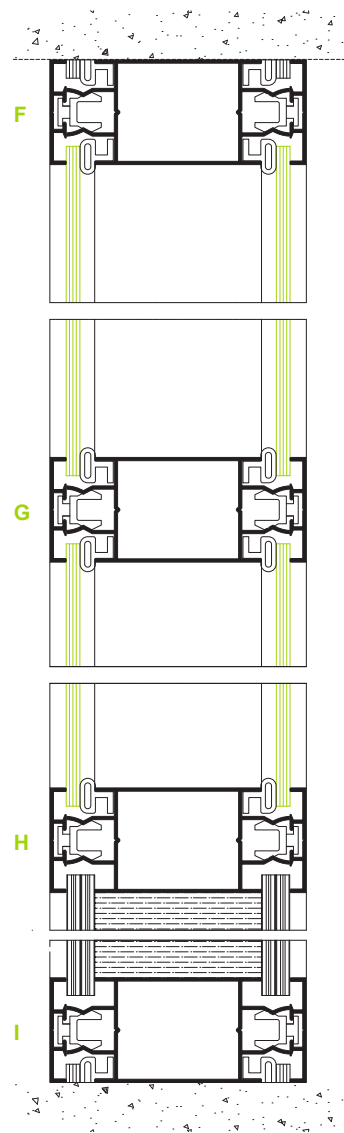
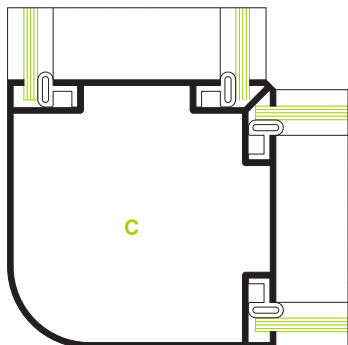
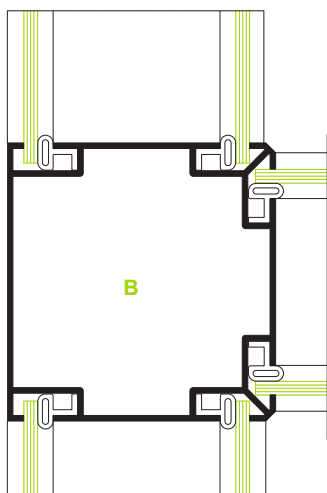
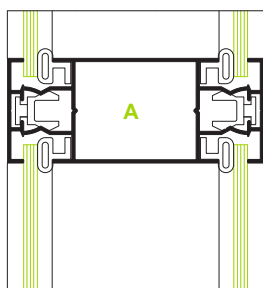
TR-18

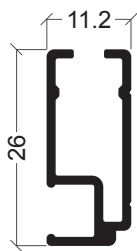


Pormenor de fixação

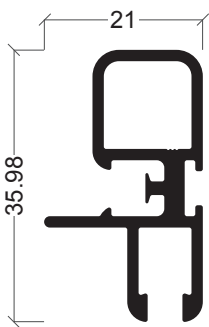


534

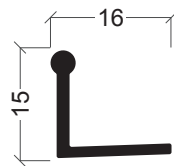




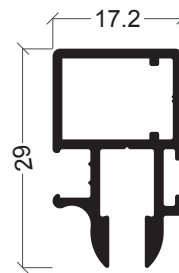
MA-11



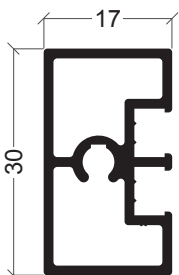
MA-01



MA-02



MA-03



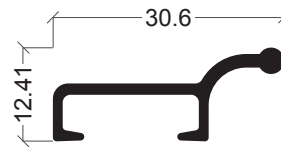
MA-04



MA-05



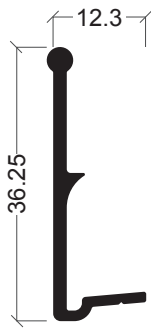
MA-06



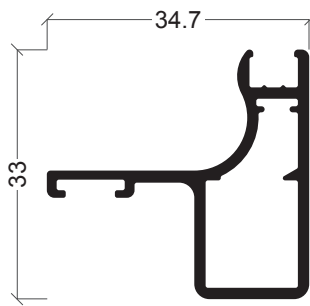
MA-07



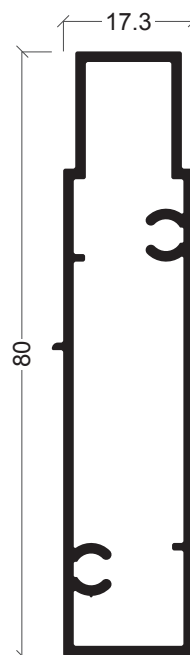
MA-08



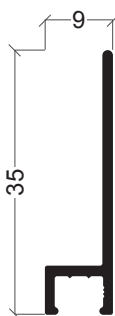
MA-09



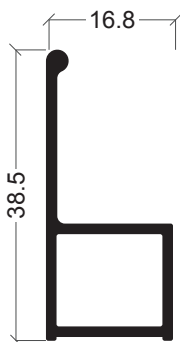
MA-10



MA-12



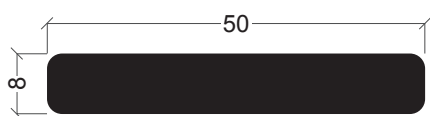
Z-50



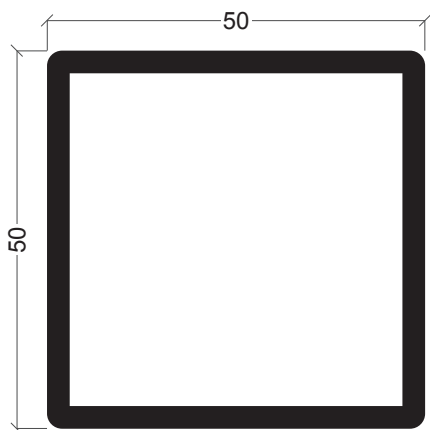
MA-13



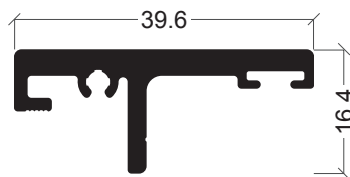
P-34



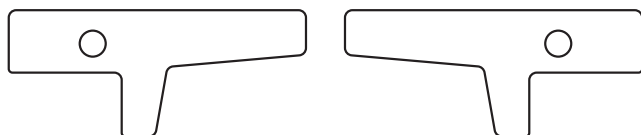
B-24



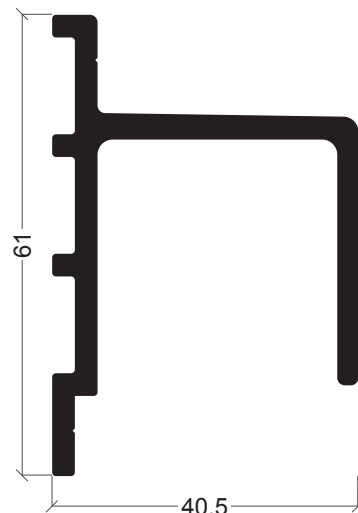
Q-28



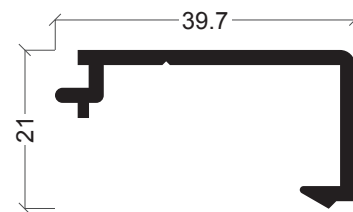
PO-10



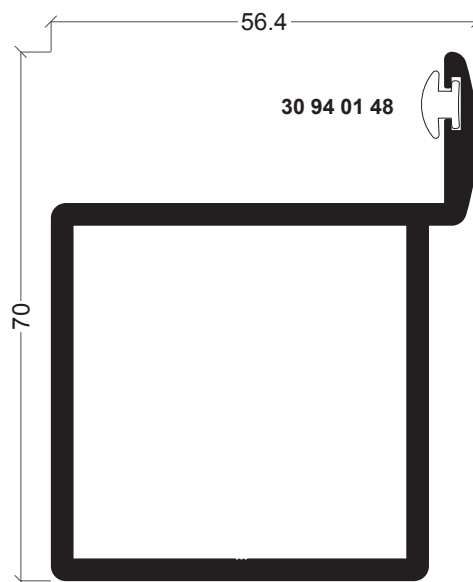
31 01 50 13
Conjunto topo PO-10



PO-09



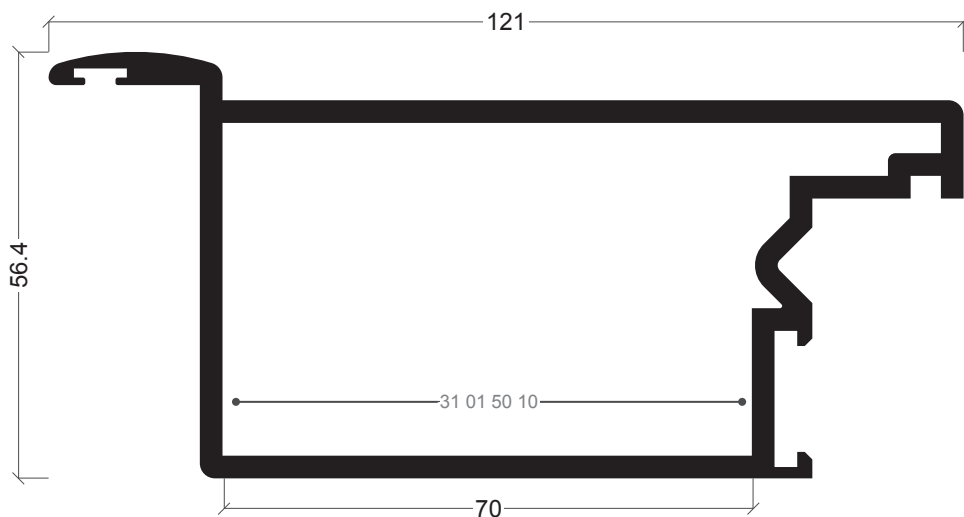
PO-05



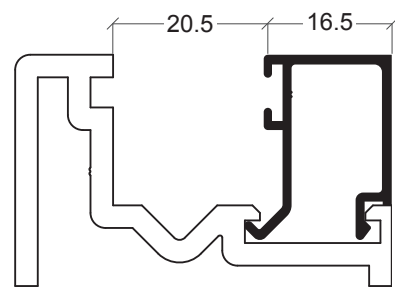
PO-01



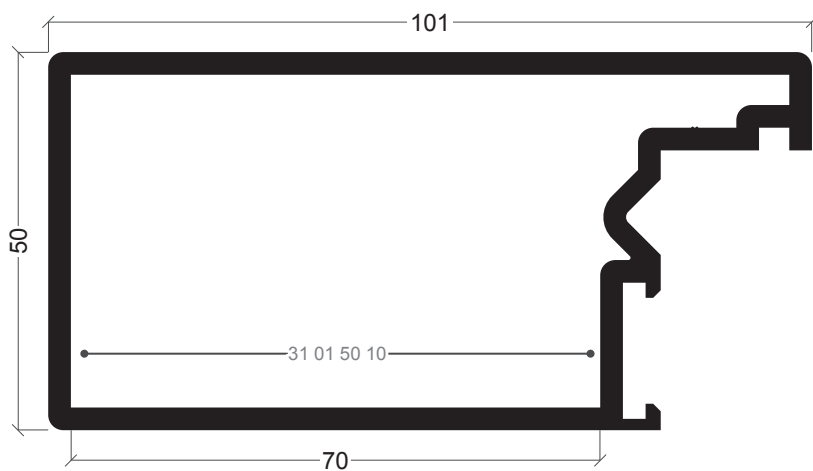
30 94 01 48
Junta para portão



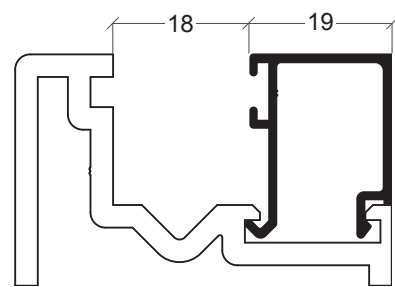
PO-02



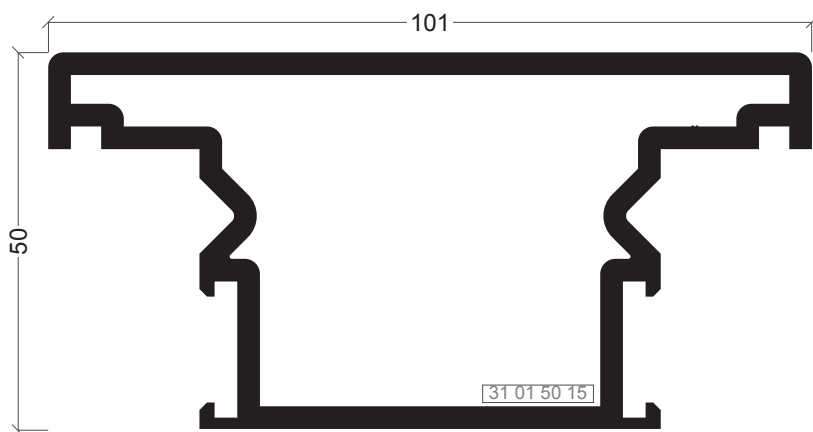
AX-46



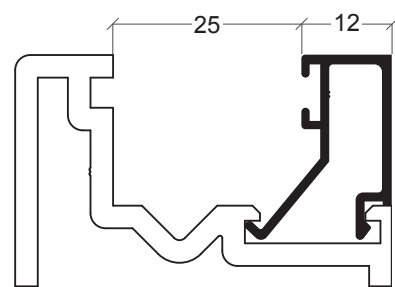
PO-03



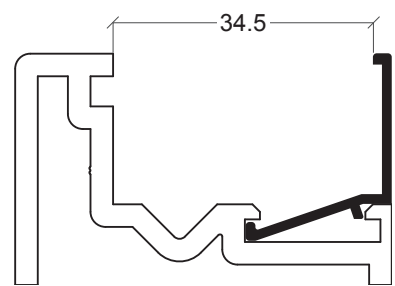
AX-35



PO-06

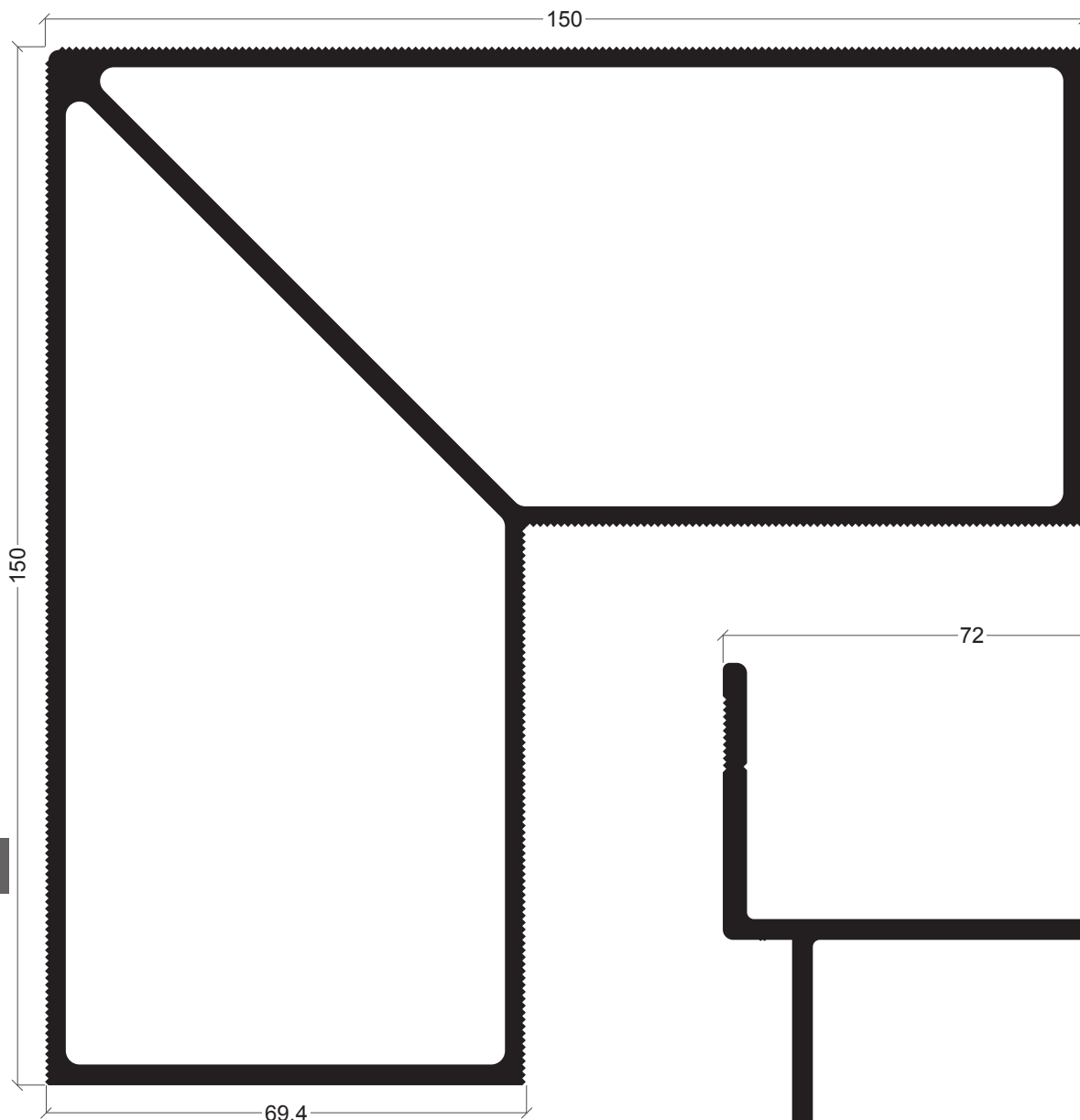


AX-36

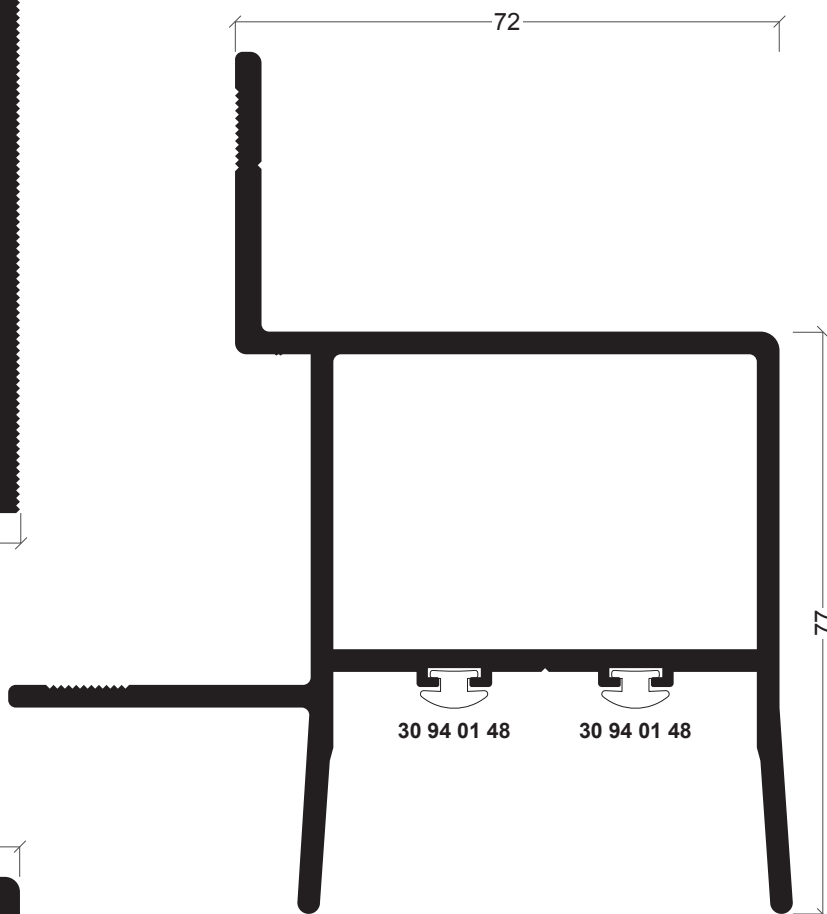


AX-69

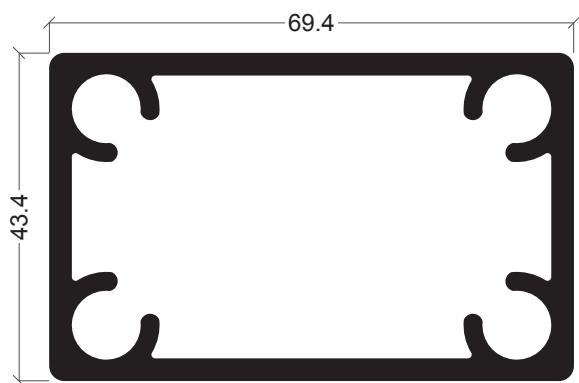
538



P0-08

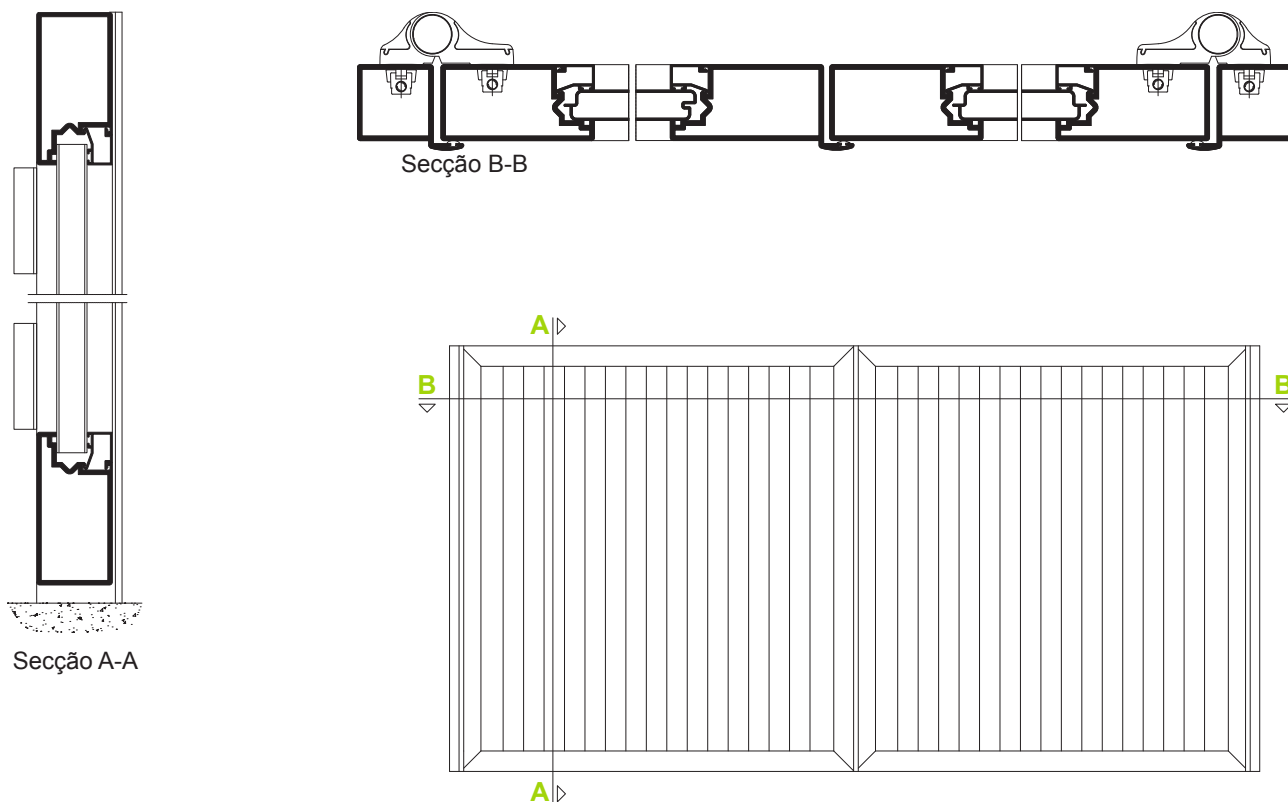


P0-04

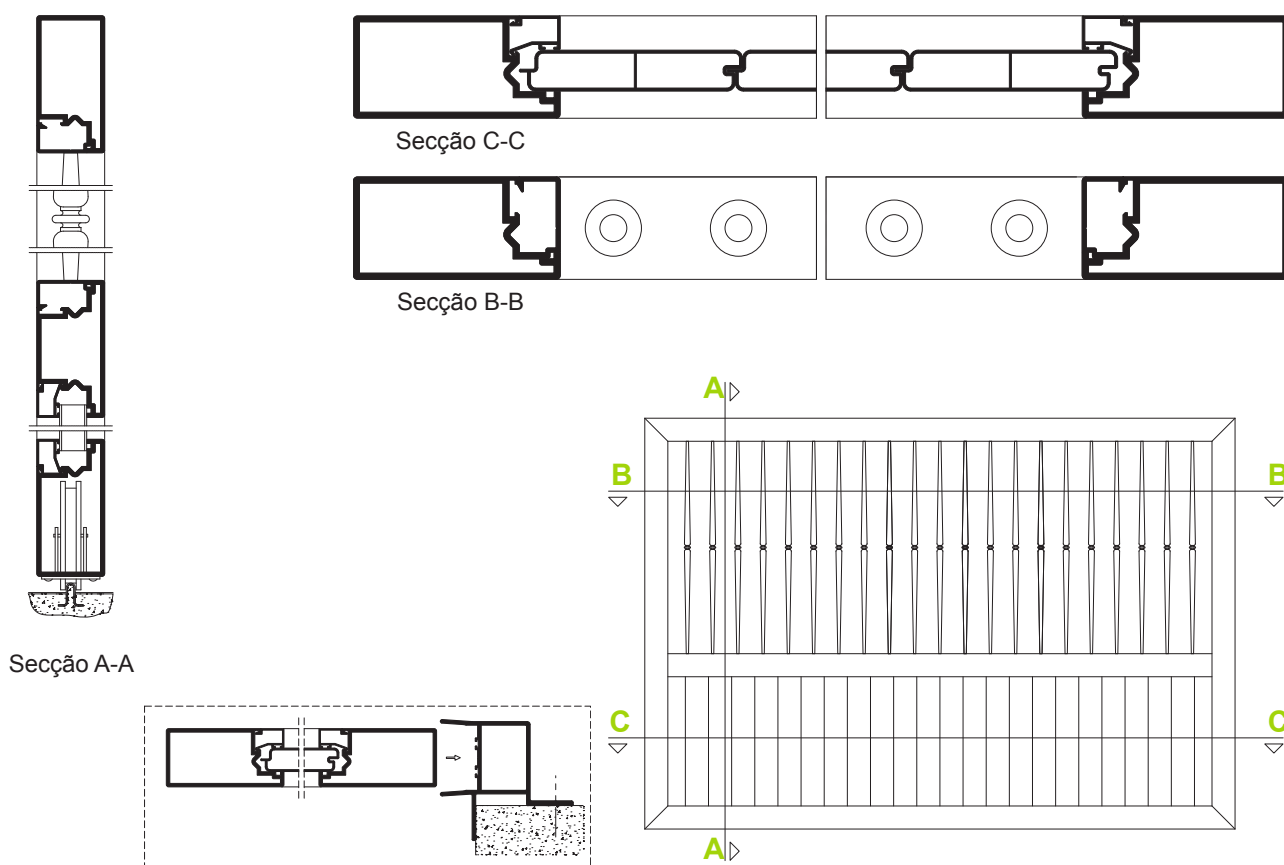


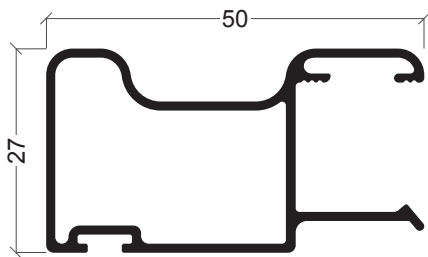
P0-07

Portão 2 folhas de abrir - lâminas fixas

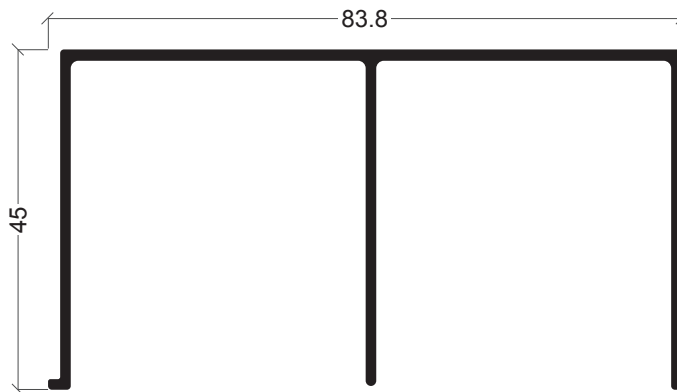


Portão de correr - balaustres + lâminas fixas

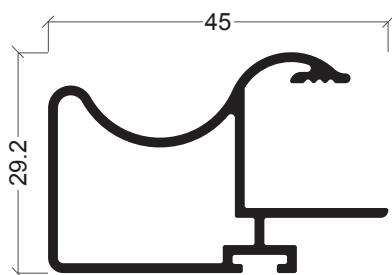




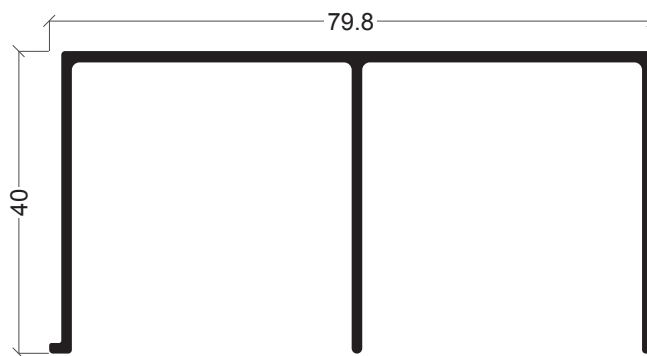
RD-01



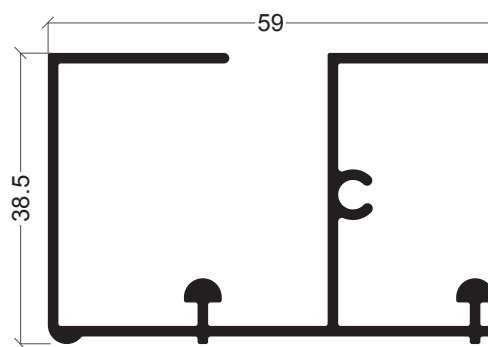
RD-04



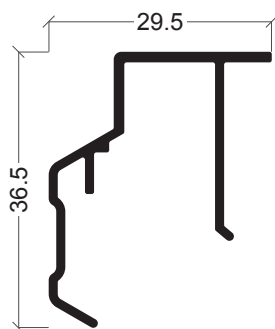
RD-07



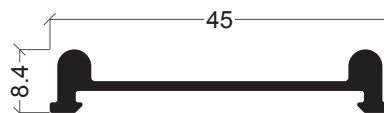
RD-05



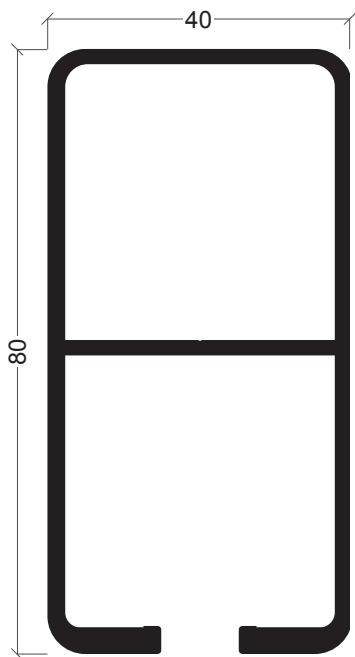
RD-02



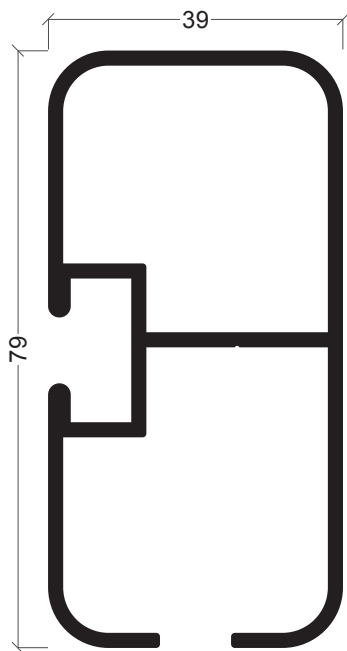
RD-03



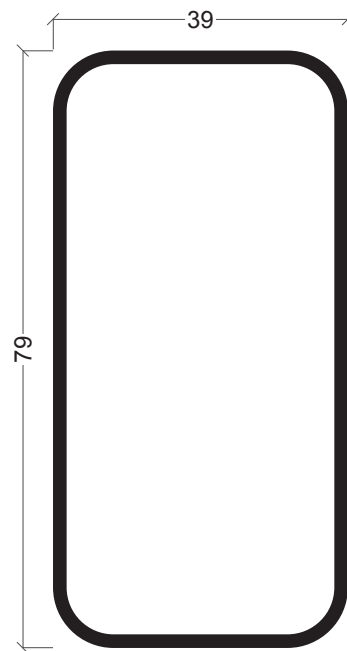
RD-06



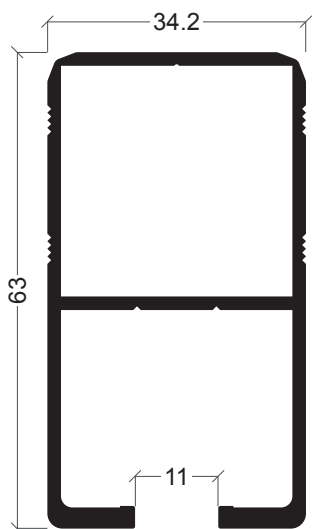
H-07



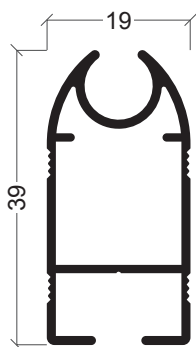
H-08



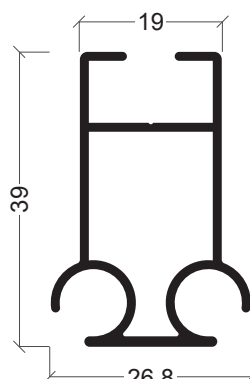
H-10



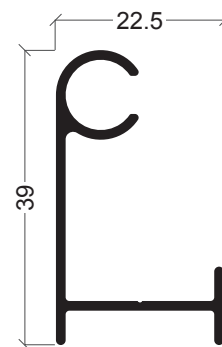
H-03



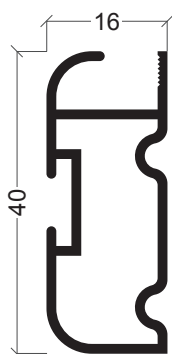
H-01



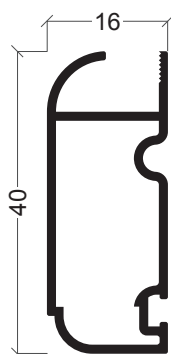
H-04



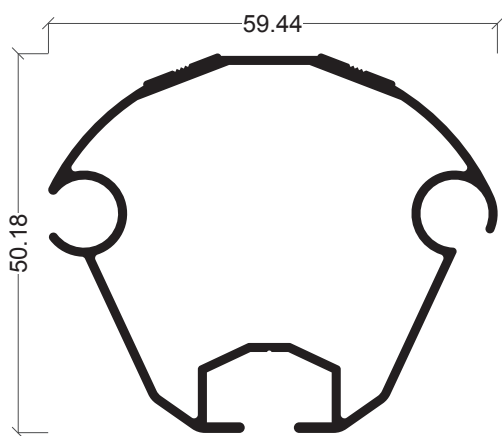
H-09



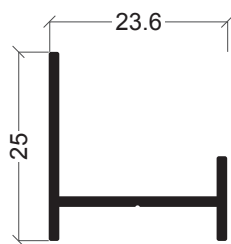
H-20



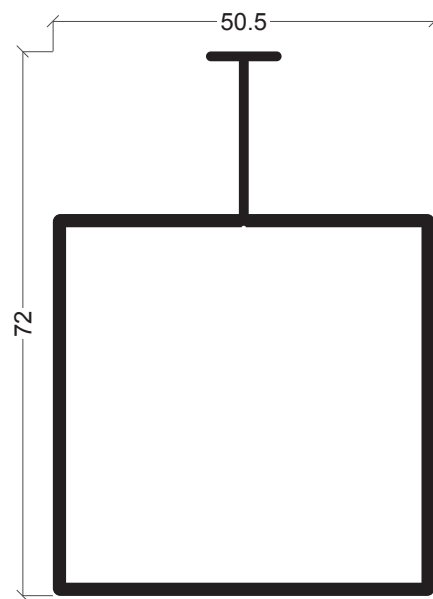
H-21



H-06



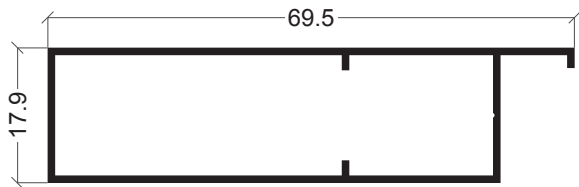
H-02



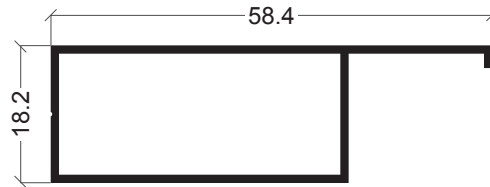
H-05



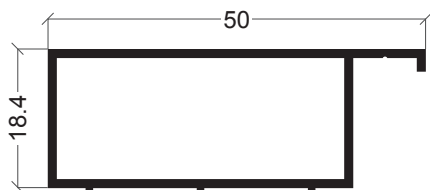
S-05



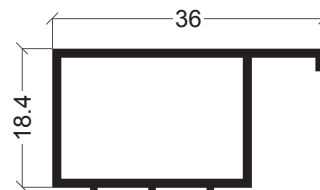
S-04



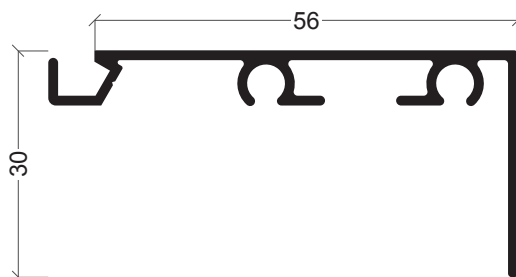
S-03



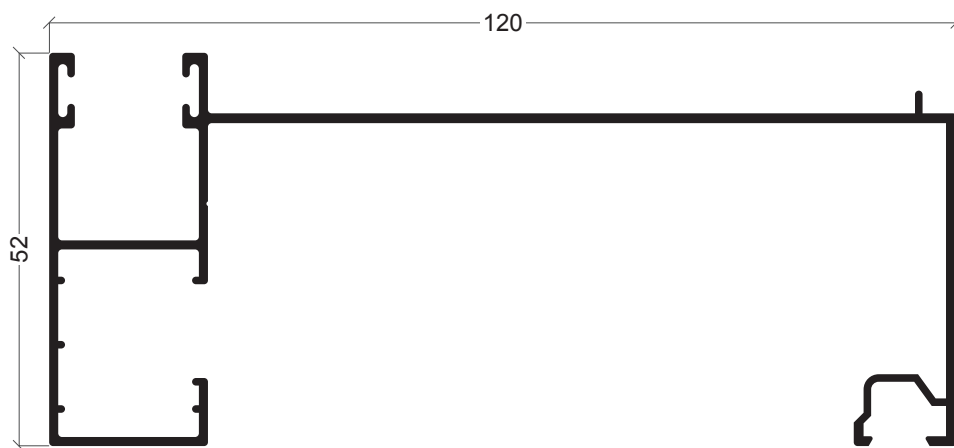
S-02



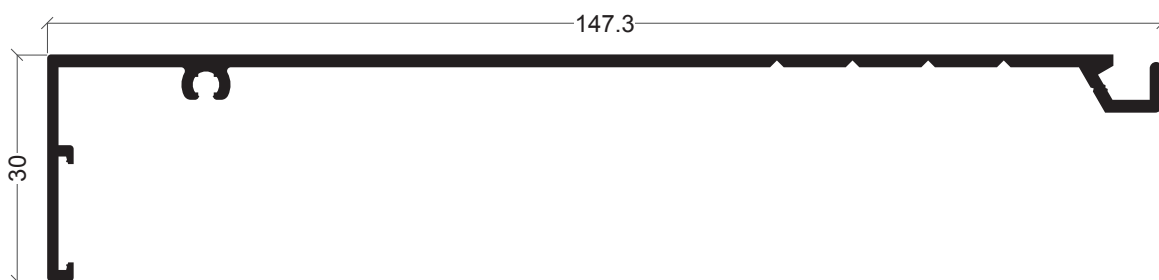
S-01



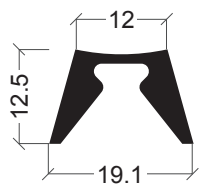
S-07



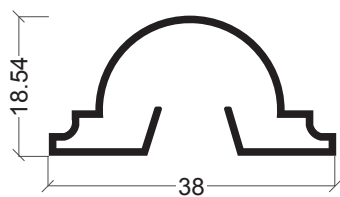
Y-30



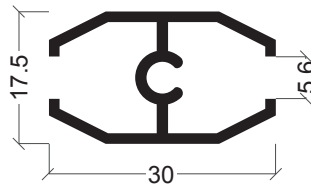
S-09



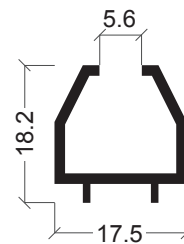
Y-03



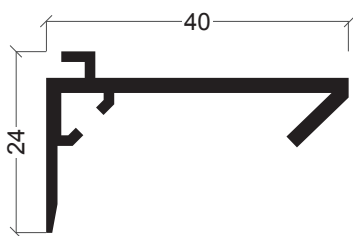
Y-16



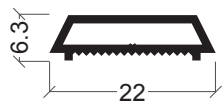
Y-07



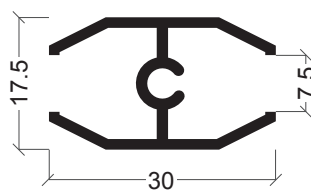
Y-06



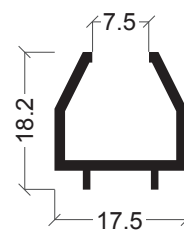
Y-23



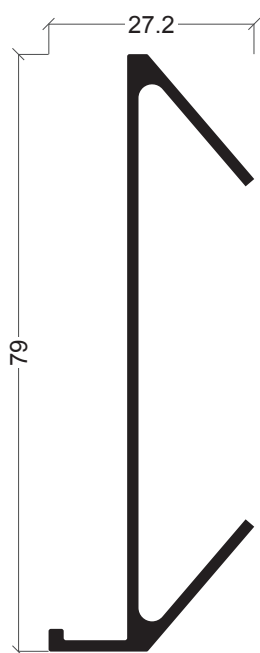
Y-12



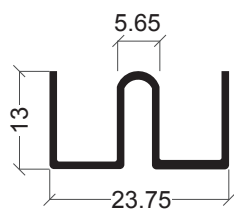
Y-19



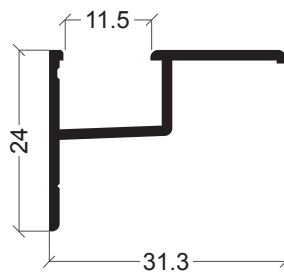
Y-18



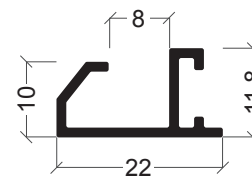
Y-15



VM-01



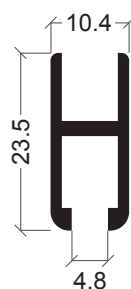
Y-20



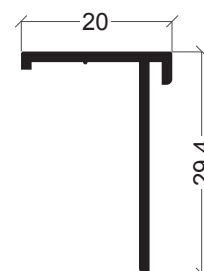
Y-10



VU-03



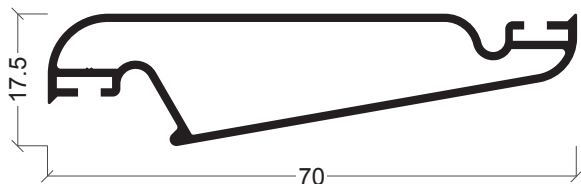
VH-02



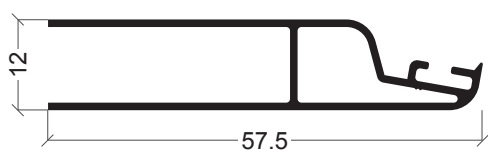
Y-24



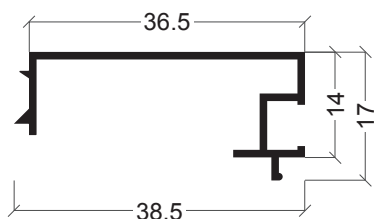
Z-52



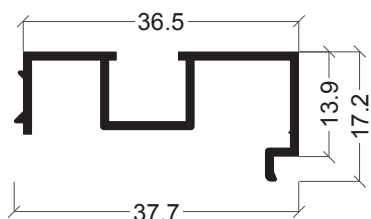
Z-53



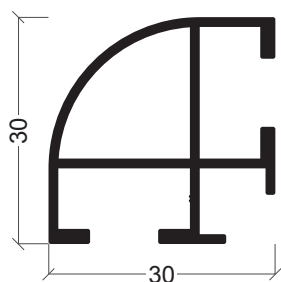
Z-54



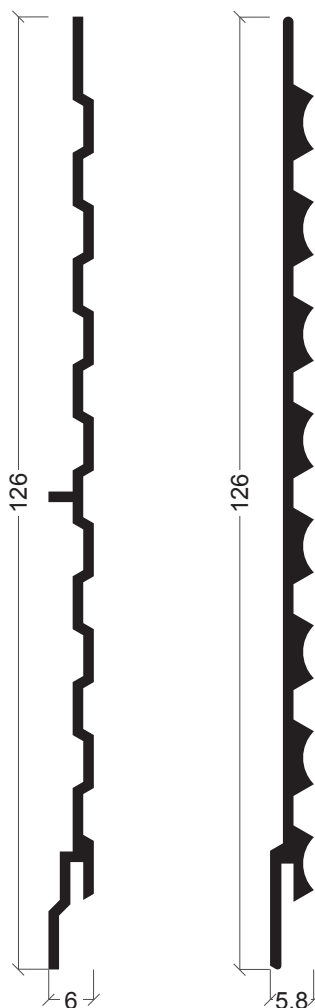
Z-36



Z-46

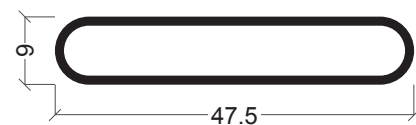


PD-04



W-01

W-19

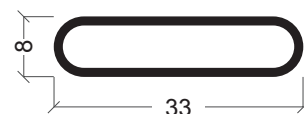


Z-35

31 15 00 37
Conjunto suporte Z-35 preto



Z-40

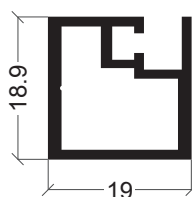


Z-47

31 15 00 39
Conjunto suporte Z-47 preto



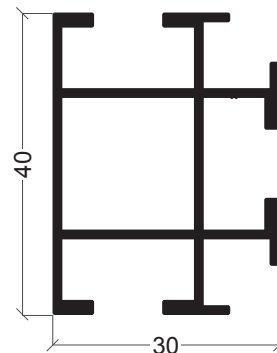
Z-08



PD-02



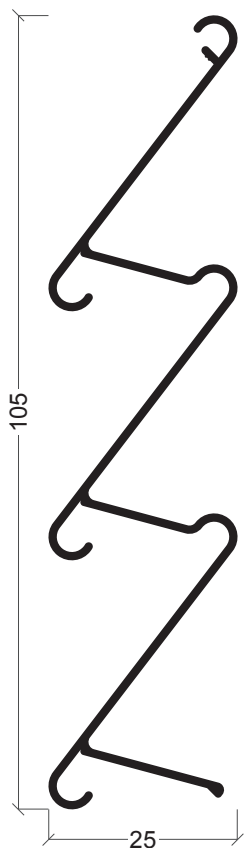
PD-01



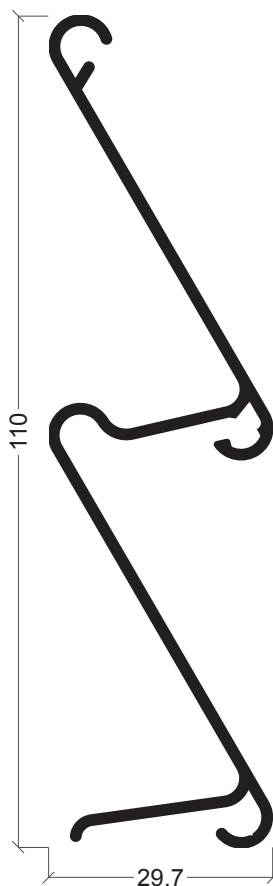
PD-05



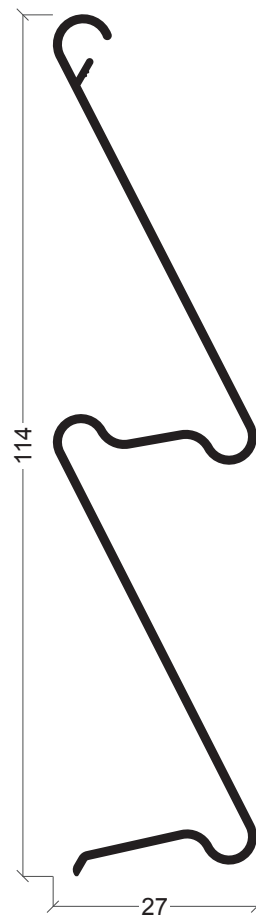
Z-55



Z-20

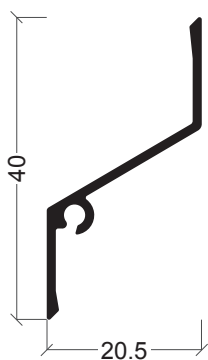


Z-34

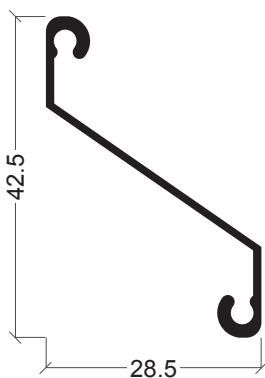


Z-28

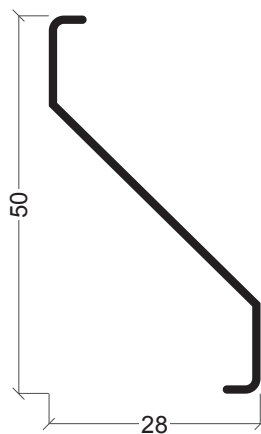
545



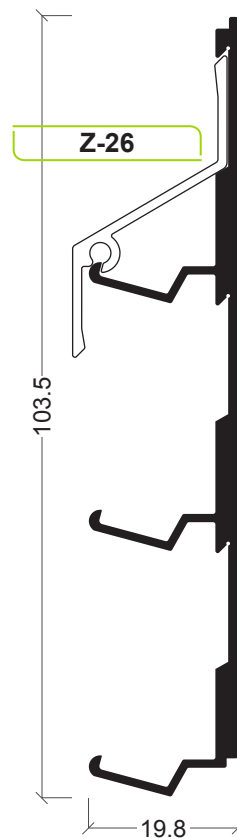
Z-26



Z-04



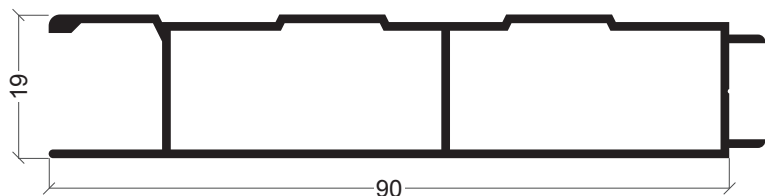
Z-37



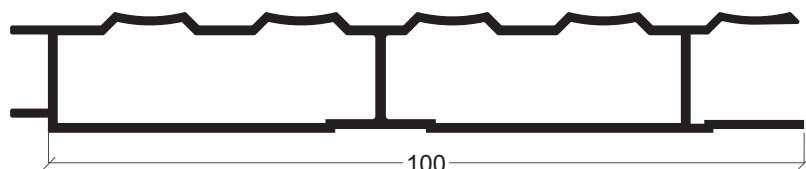
Z-25



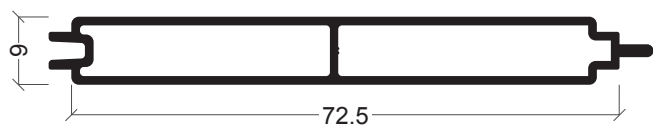
M-03



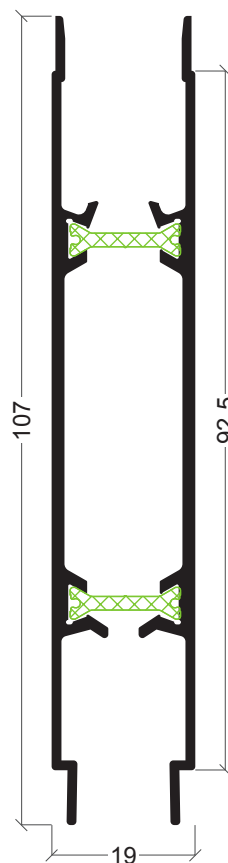
W-21



W-22

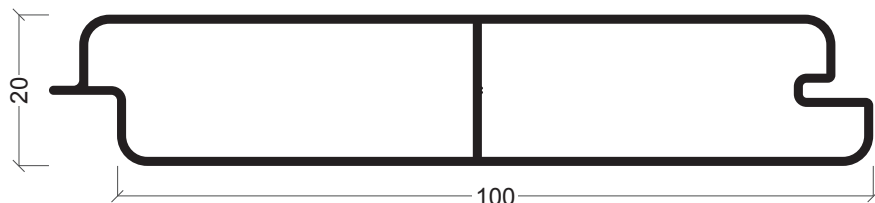


W-23

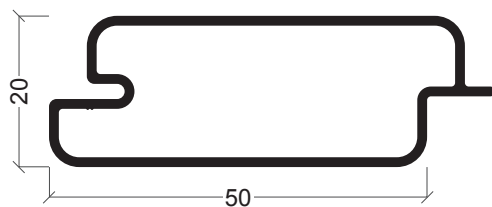


W-15

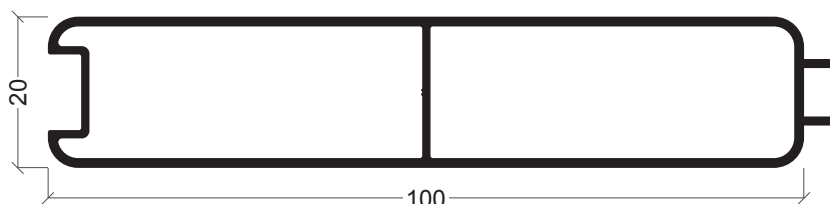
546



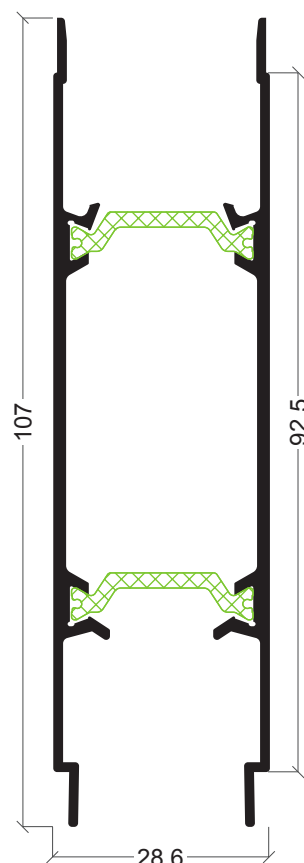
W-25



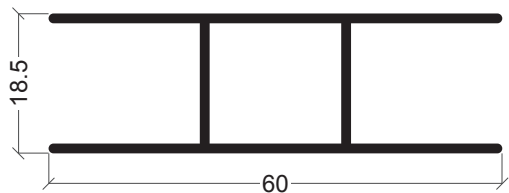
W-26



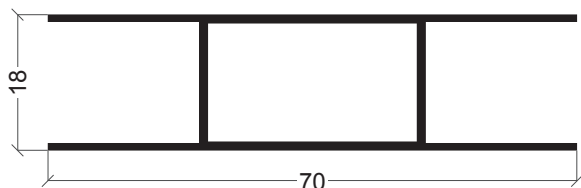
W-27



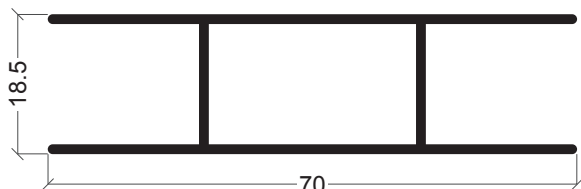
W-20



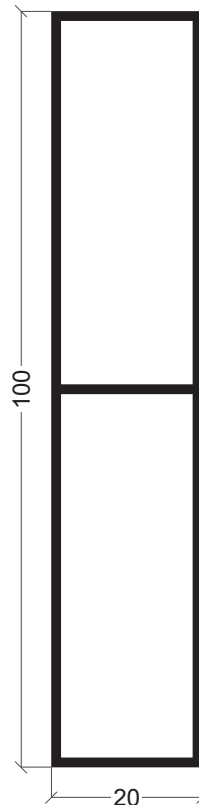
Z-15



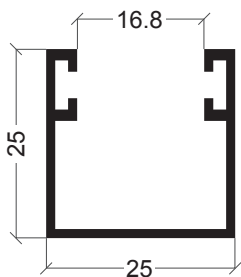
Z-07



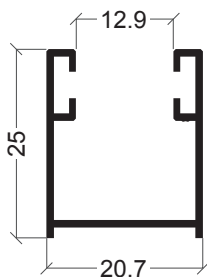
Z-16



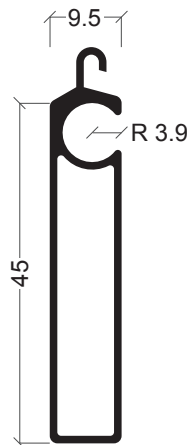
P-14



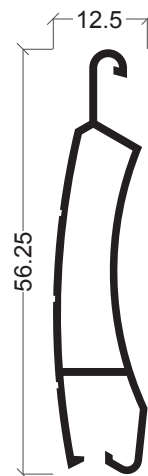
Z-09



Z-30

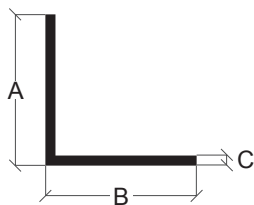


Z-49



Z-44

Cantoneiras



Referência	A	B	C
L-01	15	15	1.2
L-13	15	15	1.5
L-02	20	20	1.2
L-15	20	20	1.5
L-03	25	25	1.2
L-04	25	25	1.5
L-22	30	20	1.5
L-06	30	30	1.2
L-07	30	30	1.5
L-08	32	17	1.8
L-18	40	20	1.2
L-05	40	20	1.5
L-10	40	40	1.2
L-11	40	40	1.5
L-09	50	20	1.3
L-23	50	20	1.8
L-12	50	50	1.3
L-20	50	50	2
L-25	60	60	6

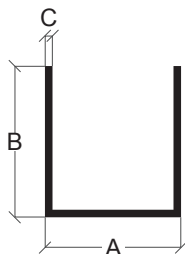
Barras retangulares



Referência	A	B
B-07	20	2
B-04	20	3
B-05	20	4
B-14	20	5
B-18	20	10
B-08	25	2
B-06	25	3
B-11	25	4
B-12	25	5
B-01	30	2
B-09	30	3
B-13	30	4
B-15	30	5
B-16	40	2
B-17	40	3
B-10	40	4
B-22	40	5
B-02	45	3
B-03	50	2
B-19	50	3
B-20	50	4
B-21	50	5
B-24	50	8
B-26	52	20

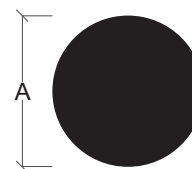
548

Calhas U



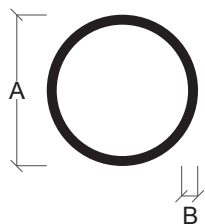
Referência	A	B	C
U-02	18	18	1
U-03	18	20	1
U-05	20	20	1.1
U-07	20	40	1.8
U-08	14	45	3

Redondos



Referência	A
G-03	6
G-01	8
G-04	10

Tubos redondos



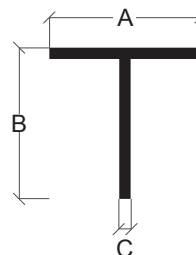
Referência	A	B
R-02	6	1
R-05	8	1
R-01	9	1.4
R-06	10	1
R-03	16	1
R-12	18	1.2
R-04	19	1.2
R-16	20	1.3
R-13	22	1.5
R-07	23	1.5
R-17	25	1.5
R-18	30	1.2
R-08	30	1.5
R-21	40	1.3
R-09	40	1.7
R-19	45	1.2
R-22	45	1.7
R-23	50	1.3
R-10	50	1.7
R-24	60	1.3
R-11	60	1.9
R-25	70	1.5
R-26	80	1.5
R-27	90	2
R-28	100	2

Quadrados

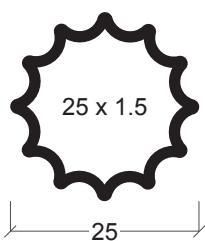


Referência	A
F-03	15
F-05	20
F-04	25

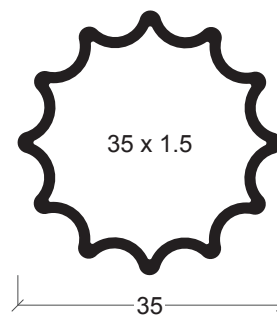
Perfis em tê



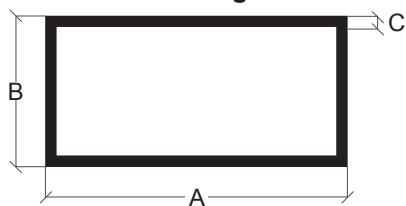
Referência	A	B	C
T-01	20	20	1.5
T-02	25	25	1.5
T-03	25	25	2
T-06	30	30	1.4
T-04	30	30	2
T-07	40	40	1.3
T-05	40	40	2



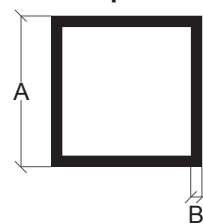
R-14



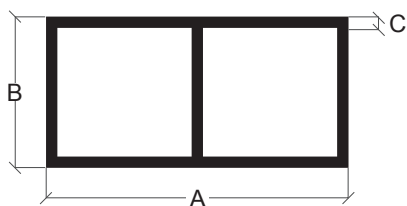
R-15

Tubos retangulares


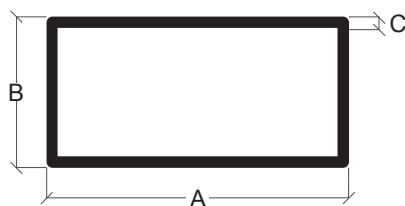
Referência	A	B	C
P-01	30	12.5	1.5
P-27	30	15	1.2
P-02	30	15	1.5
P-11	30	20	1.3
P-04	40	20	1.3
P-03	40	20	2
P-19	50	25	1.3
P-06	50	30	1.5
P-07	50	34	2
P-18	60	15	1.3
P-08	60	20	1.3
P-05	60	40	1.2
P-20	60	40	1.5
P-09	65	30	1.5
P-12	70	20	1.3
P-22	70	40	1.5
P-10	75	40	1.5
P-26	80	20	1.2
P-21	80	20	1.5
P-23	80	30	1.5
P-29	80	40	1.3
P-24	80	40	2
P-13	85	30	1.8
P-25	100	18	2
P-32	100	40	1.4
P-28	100	40	2
P-33	100	45	1.4
P-15	100	45	2
P-31	100	60	2
P-30	120	40	1.7
P-17	150	25	2

Tubos quadrados


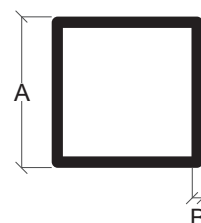
Referência	A	B
Q-10	16	1
Q-01	19	1
Q-18	20	1.3
Q-02	20	2
Q-25	25	1.2
Q-03	25	1.5
Q-22	30	1.2
Q-04	30	1.5
Q-24	35	1.2
Q-05	35	1.5
Q-12	40	1.2
Q-06	40	1.5
Q-15	45	1.3
Q-07	50	1.5
Q-26	50	2
Q-14	60	1.3
Q-20	60	2
Q-09	65	1.5
Q-16	70	1.3
Q-08	70	2
Q-27	75	1.5
Q-11	75	2
Q-17	80	1.5
Q-21	80	2
Q-13	85	2
Q-19	100	1.4
Q-23	100	2

**Tubos retangulares
parede ao centro**


Referência	A	B	C
P-14	100	20	1.3
P-16	125	15	1.8

**Tubos retangulares
cantos arredondados**


Referência	A	B	C
P-34	80	50	3

**Tubos quadrados
cantos arredondados**


Referência	A	B
Q-28	50	3