

Système

ATi

Système ATi

Système à frappe avec Rupture Thermique - 55 mm

Caractéristiques du système

Système à frappe avec rupture thermique et des hautes prestations thermiques et acoustiques.

Le système ATi permet l'exécution de 4 versions de menuiserie:

1. ligne droit;
2. ligne courbe;
3. ligne tradition;
4. ligne ovale;

Le système ATi permet l'application de double verre d'haute performance afin de répondre aux exigences d'isolation thermique et acoustique.

Profils d'aluminium

Les profils d'aluminium sont extrudés en alliage d'aluminium 6060 pour l'architecture selon la norme NP EN 12020-02.

Profils avec rupture thermique obtenu par insertion de barrettes isolants de polyamide avec 24mm renforcés avec 25% de fibre de verre.

Épaisseur moyenne des profils d'aluminium de 1.5 mm pour les fenêtres et de 1.7mm pour les portes.

Dormants

Section de les dormants de 55 mm ou 80 mm;

Dormants avec equerre pour assemblage à onglet;

Dormants traditionnelles pour le marché domestique;

Dormants avec clip extérieur et profil de finition direct de 25 mm ou 45 mm;

Dormants avec clip extérieur et intérieur pour application de finition de 30 mm.

Ouvrants

Sections des ouvrants de 63 mm;

Remplissage pour verre simple ou double de 4 mm à 47 mm;

Ouvrants de ligne droit, arrondie, tradition ou ovale (sans parclose);

Ouvrants avec equerre pour assemblage à onglet;

Profil battement de ligne droit

Dimensionnement et manoeuvrabilité

Dimensions minimales - maximales de vantaux: 400 mm - 1500 mm (L); 400 mm - 2700 mm (H);

Possibilités d'ouverture: fixe, à la française 1 vantail ou 2 vantaux avec oscilo-battant, extérieur, à soufflet, à l'italienne, pivotant, harmonium et oscilo-paralèle;

Étanchéité assurée par triple joints en EPDM.

Performances

Système certifiée par laboratoire notifiée pour les Essai de Type Initial (ITT) en accordance avec la norme de produit EN 14351-1 aux fins de Marquage CE.

Catégories obtenues dans l'évaluation du système AXi typologie fenêtre:

1. Perméabilité à l'air: Classe 4 (norme d'essai EN 1026)
2. Étanchéité à l'eau: Classe 9A (norme d'essai EN 1027)
3. Résistance au vent: Classe C5 (norme d'essai EN 12211)

Catégories obtenues dans l'évaluation du système ATi typologie porte:

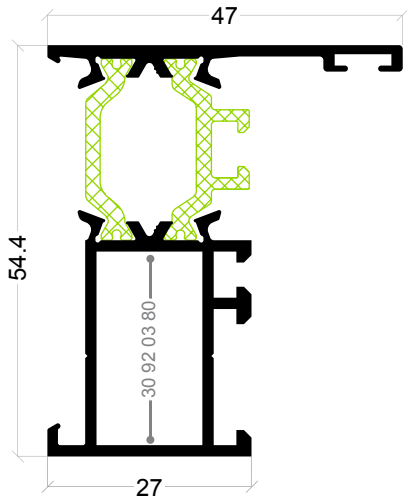
1. Perméabilité à l'air: Classe 4 (norme d'essai EN 1026)
2. Étanchéité à l'eau: Classe E750 (norme d'essai EN 1027)
3. Résistance au vent: Classe C2 (norme d'essai EN 12211)
4. Résistance à la torsion élastique: Capable 350N (norme d'essai EN 14609)

Coefficient de transmission thermique pour fenêtre de 2 vantaux avec 1.20m x1.50 m avec verre Ug = 0.7 W/m²K, avec intercalaire effet "Warm Edge":

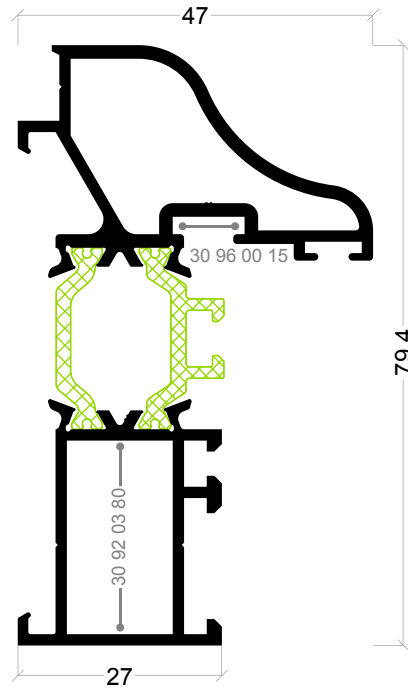
- Uw = 1.57 W/m²K

Coefficient d'atténuation acoustique pour fenêtre de 2 vantaux avec verre 4/14 (gaz Argon)/6:

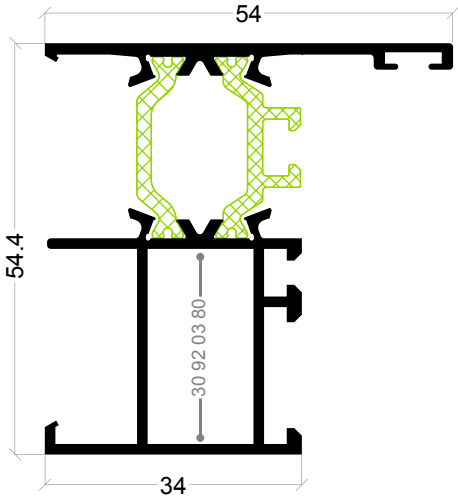
- Rw (C; Ctr) = 34 dB (-1; -4)



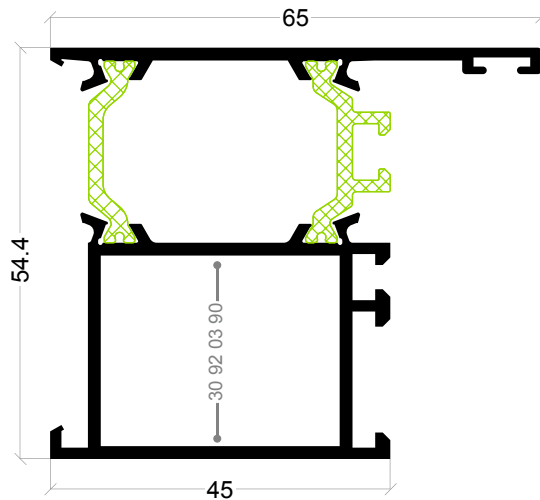
ATi-03
Dormant



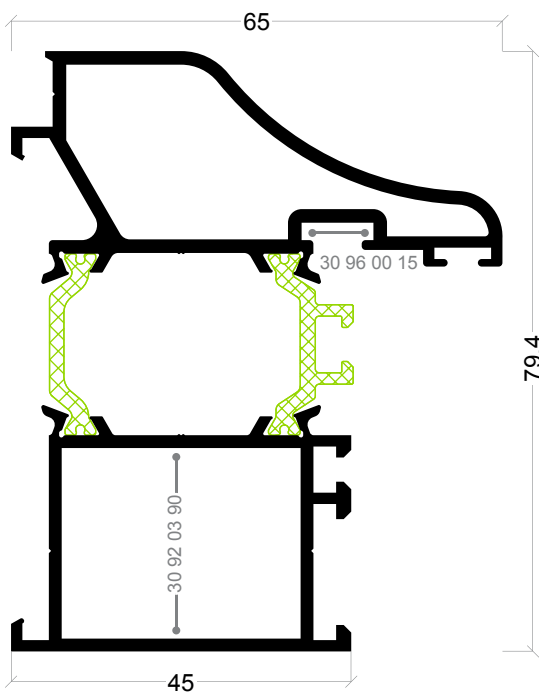
ATi-49
Dormant tradition



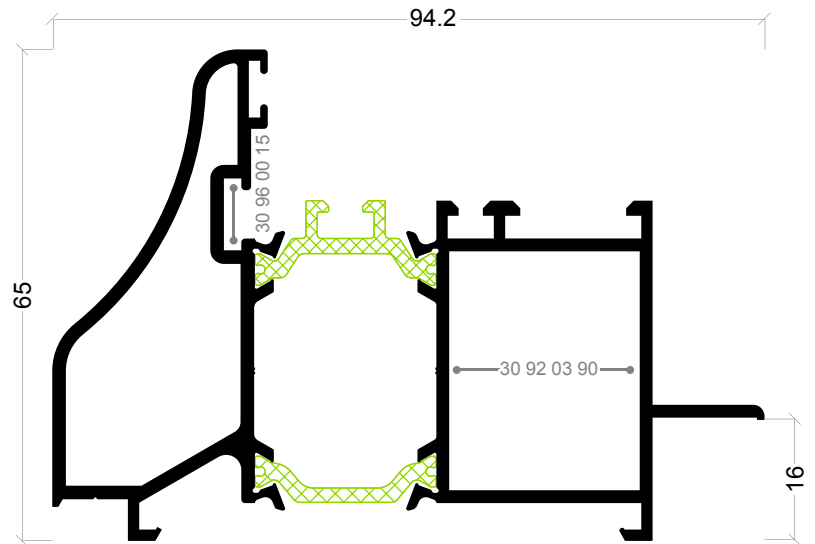
ATi-81
Dormant



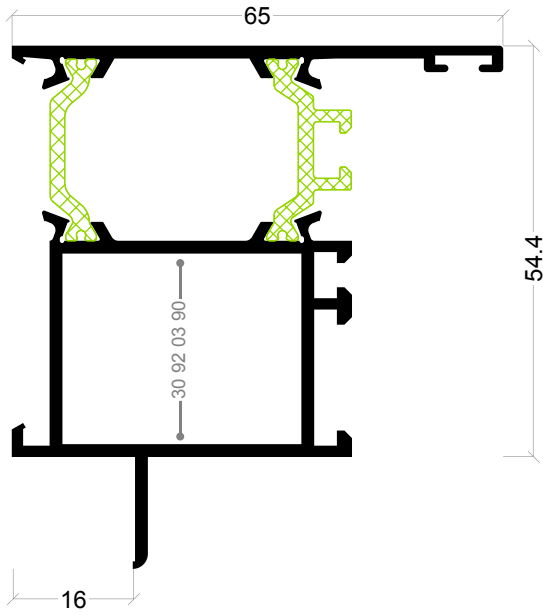
ATi-08
Dormant



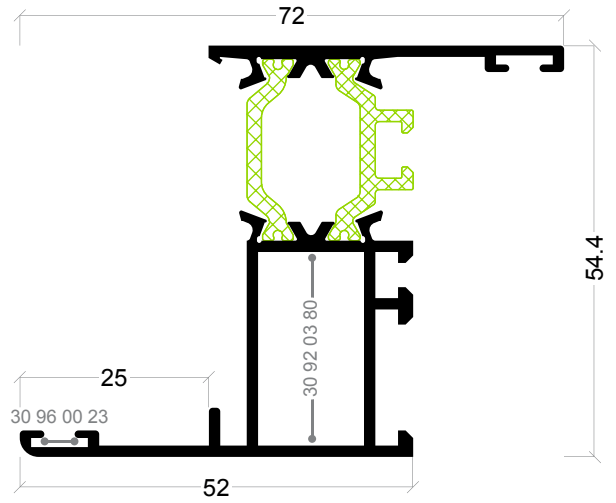
ATi-50
Dormant tradition



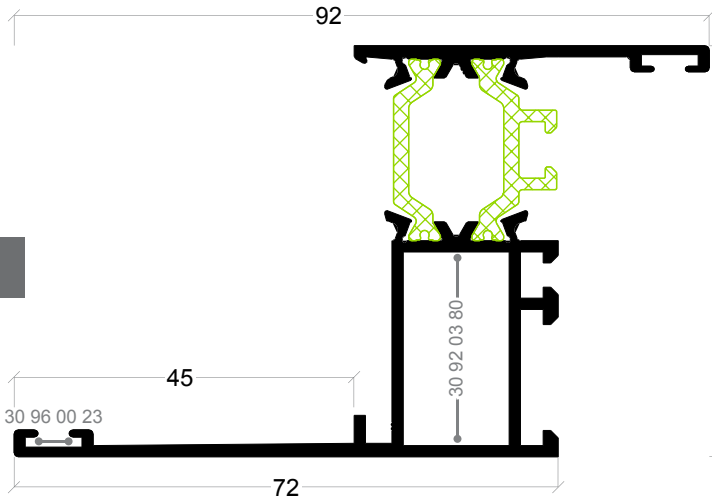
ATi-51
Dormant pour panneaux



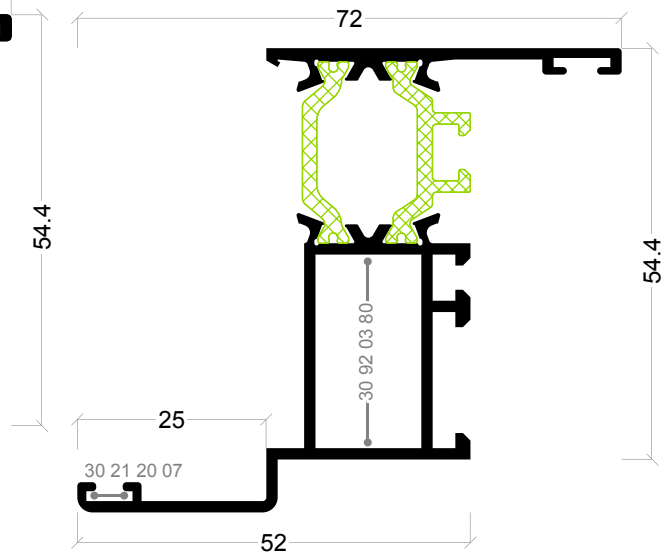
ATi-48
Dormant pour panneaux



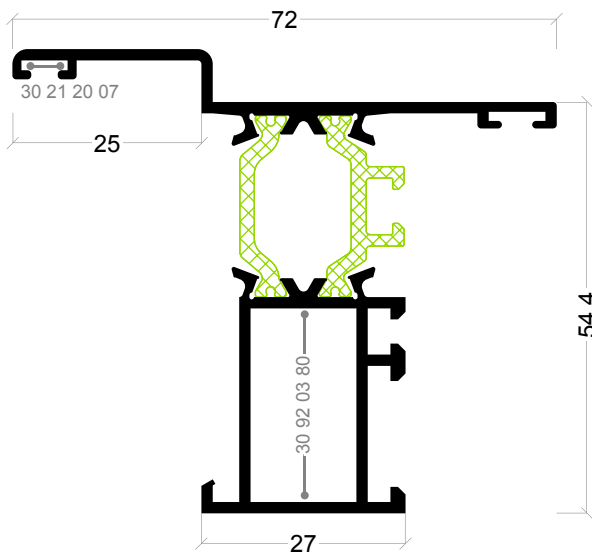
ATi-25
Dormant avec finition 25mm



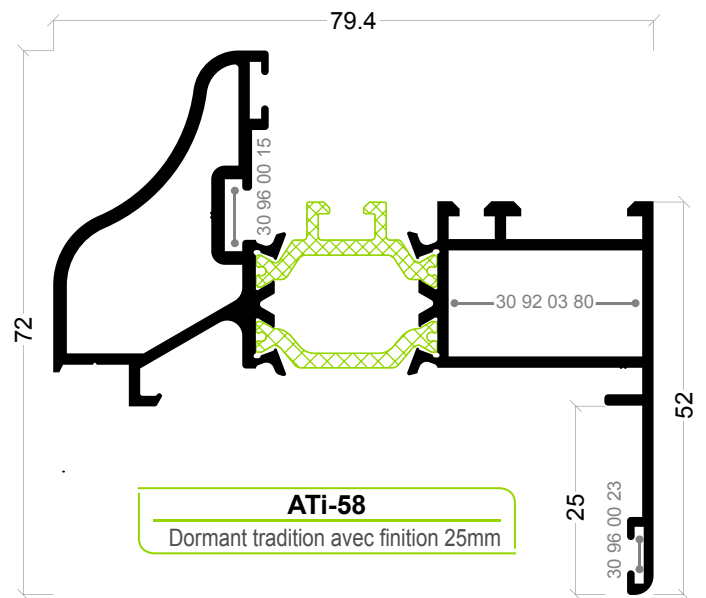
ATi-96
Dormant avec finition 45mm



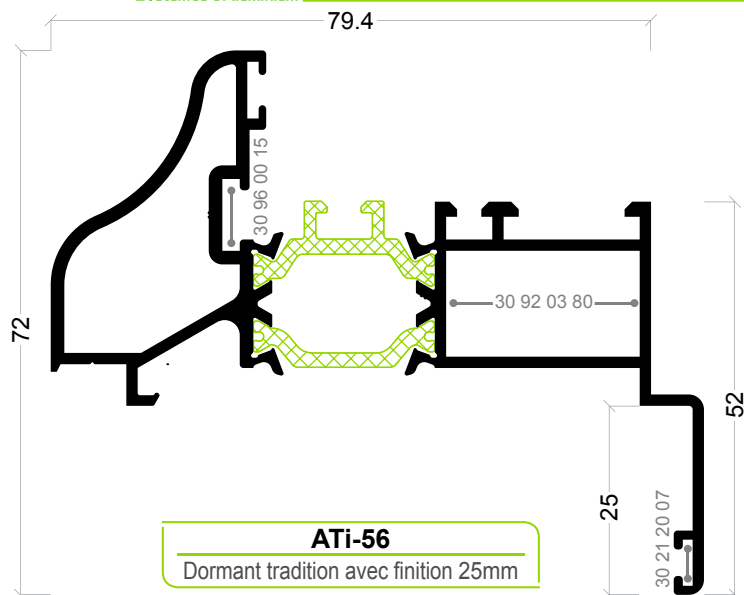
ATi-19
Dormant avec finition 25mm



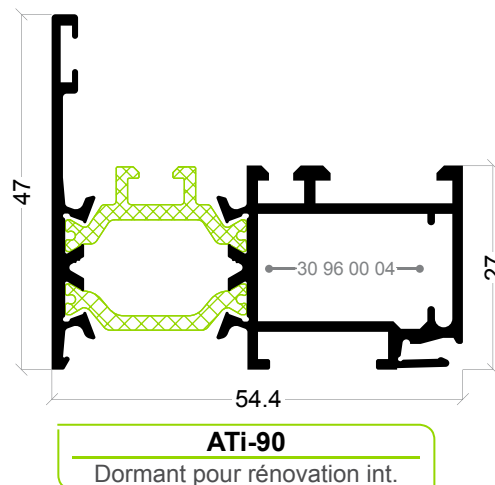
ATi-23
Dormant avec finition 25mm



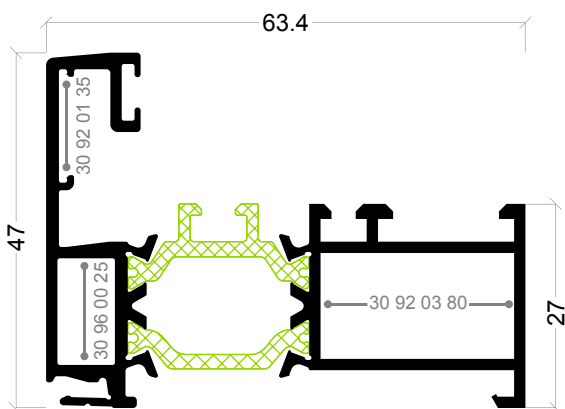
ATi-58
Dormant tradition avec finition 25mm



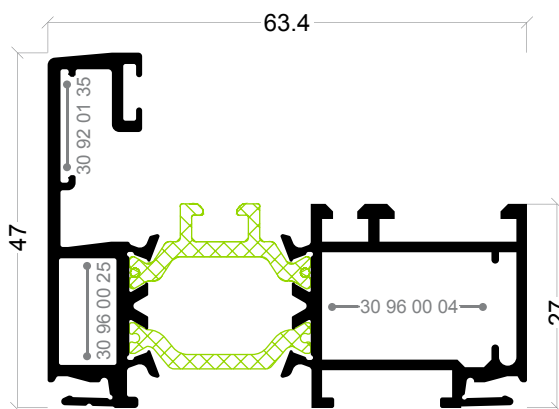
ATi-56
Dormant tradition avec finition 25mm



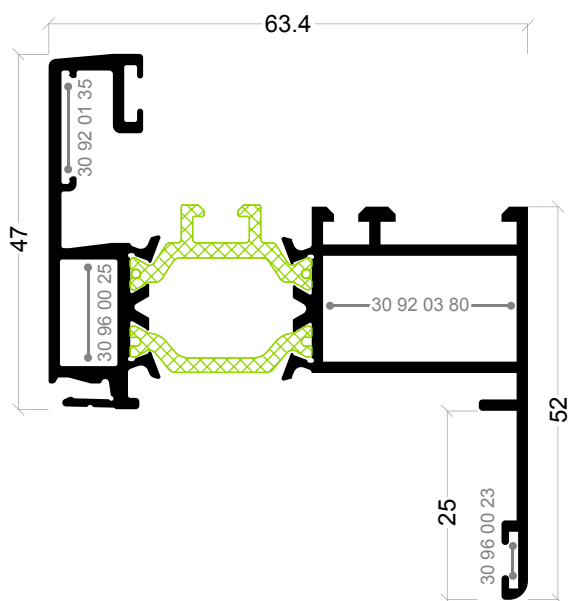
ATi-90
Dormant pour rénovation int.



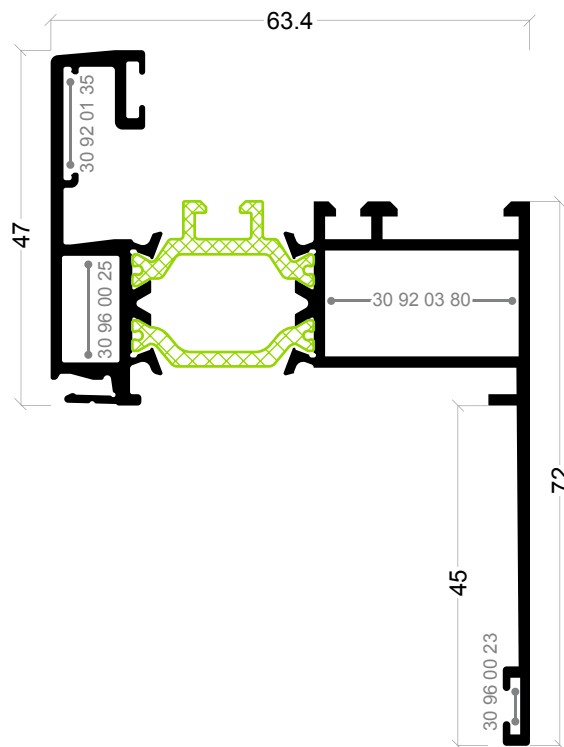
ATi-86
Dormant pour rénovation ext.



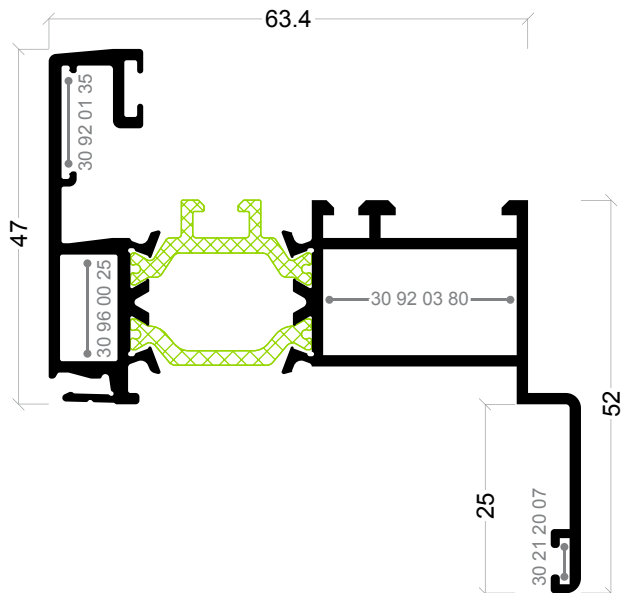
ATi-87
Dormant pour rénovation



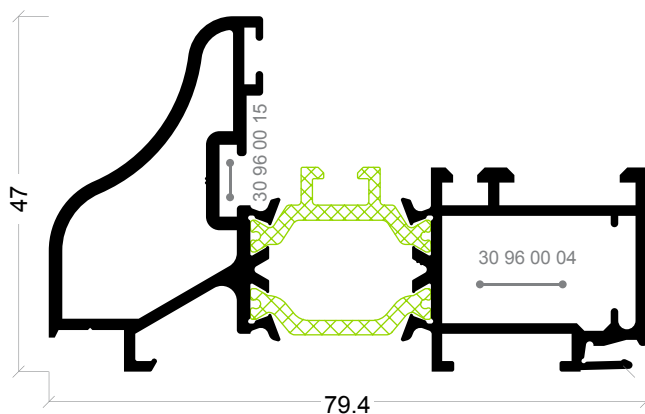
ATi-85
Dormant avec finition pour rénovation



ATi-82
Dormant avec finition pour rénovation

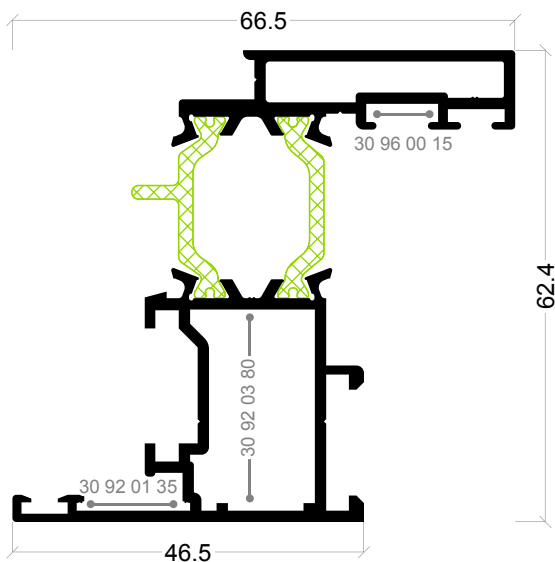


ATi-84
Dormant avec finition pour rénovation

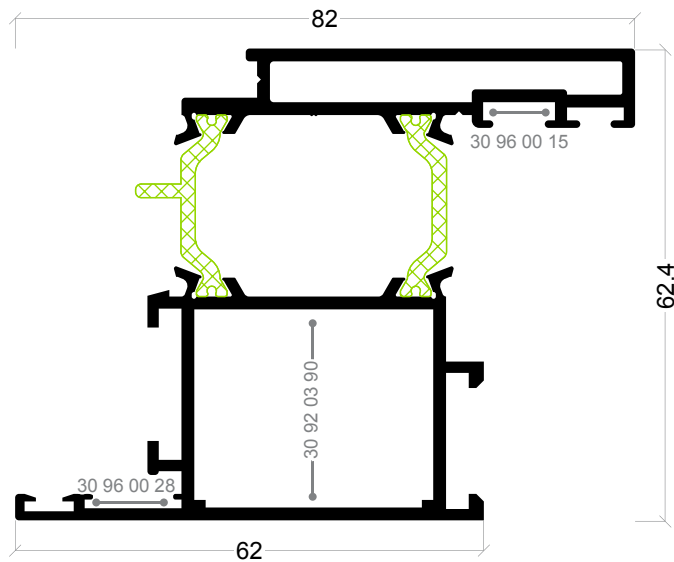


ATi-92
Dormant tradition pour rénovation int.

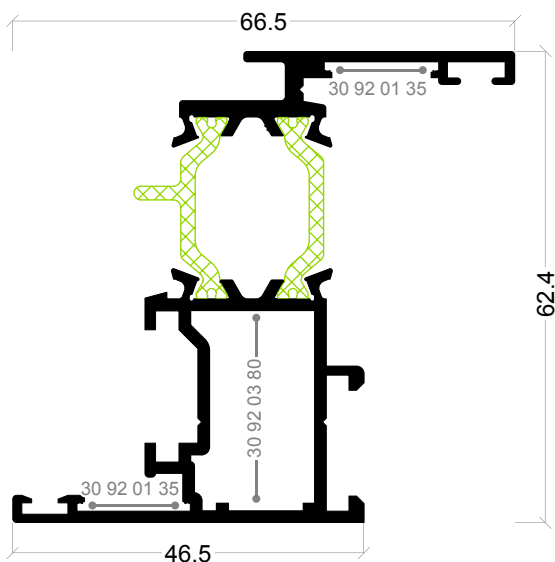
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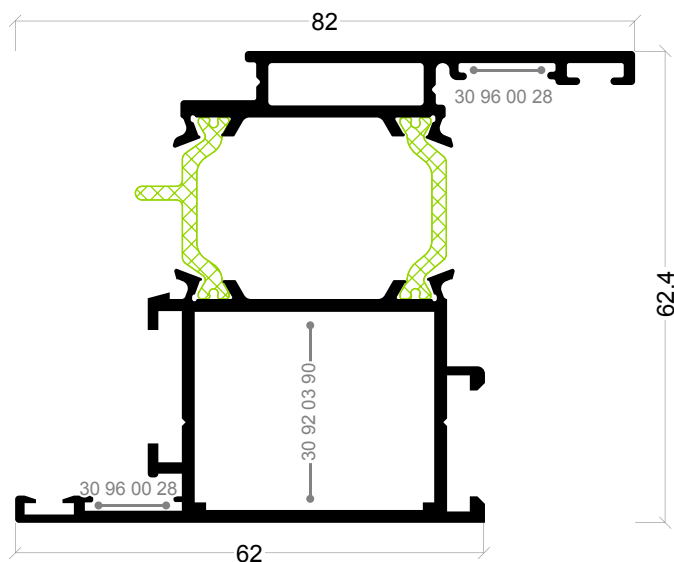
ATi-64
Ouvrant



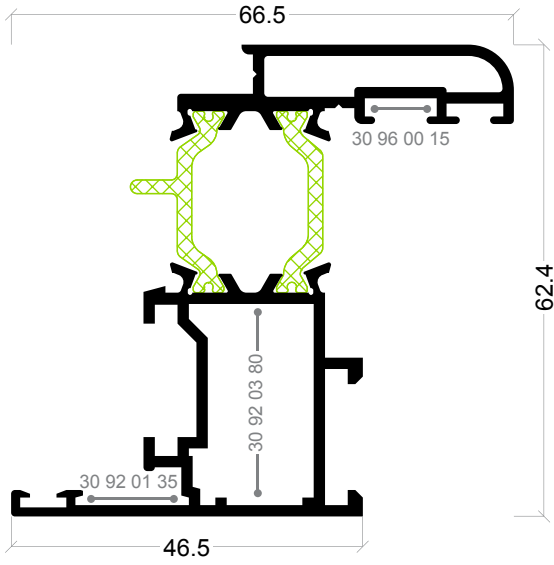
ATi-65
Ouvrant



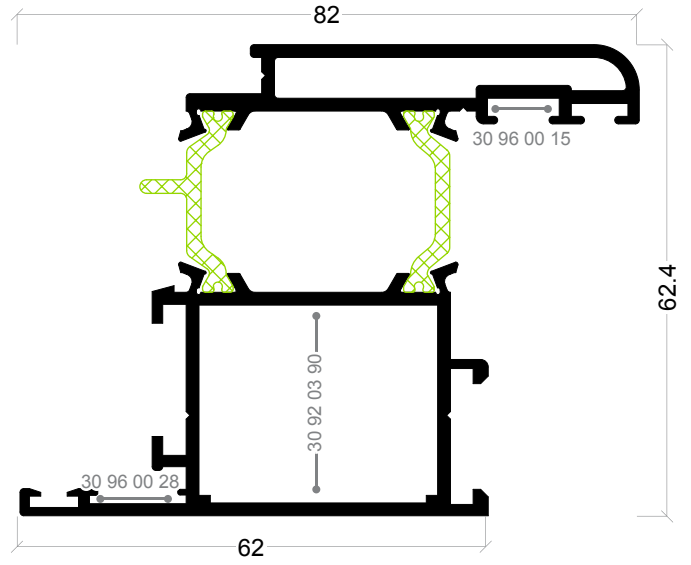
ATi-02
Ouvrant



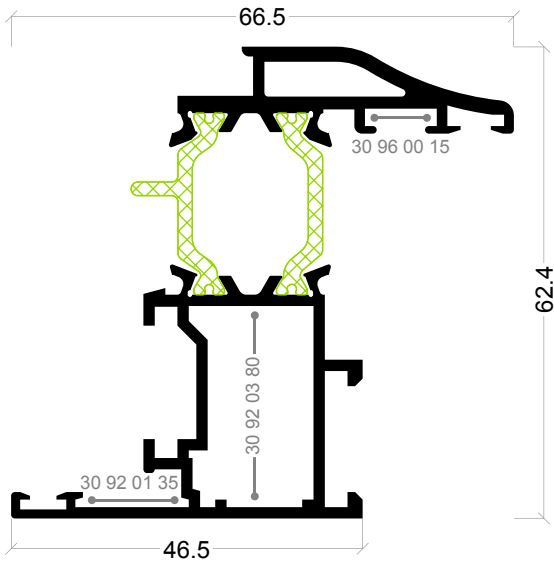
ATi-07
Ouvrant



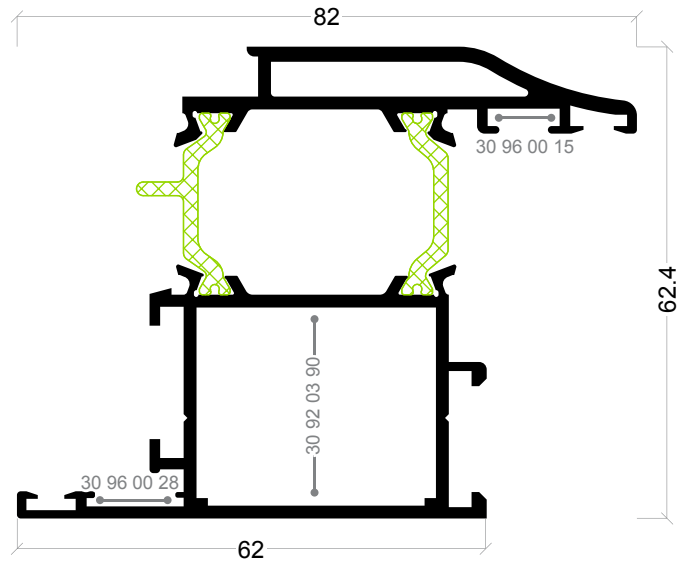
ATi-05
Ouvrant



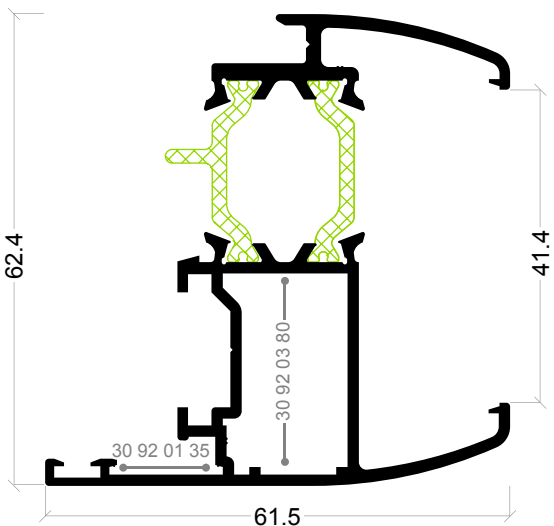
ATi-10
Ouvrant



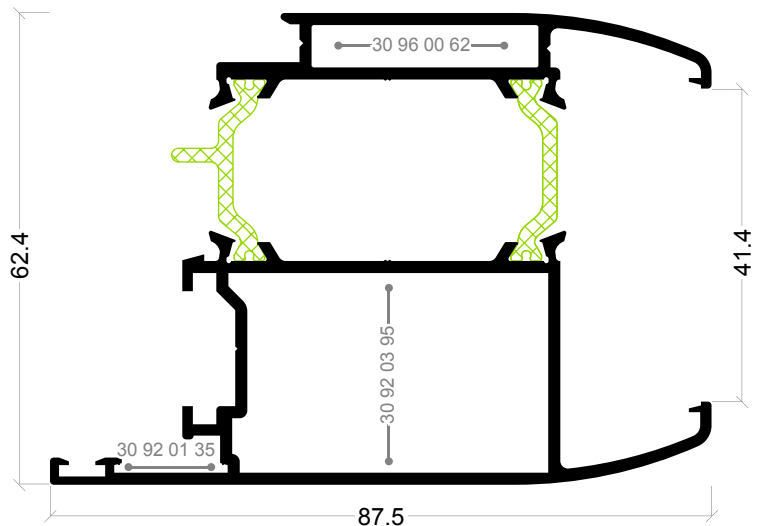
ATi-52
Ouvrant tradition



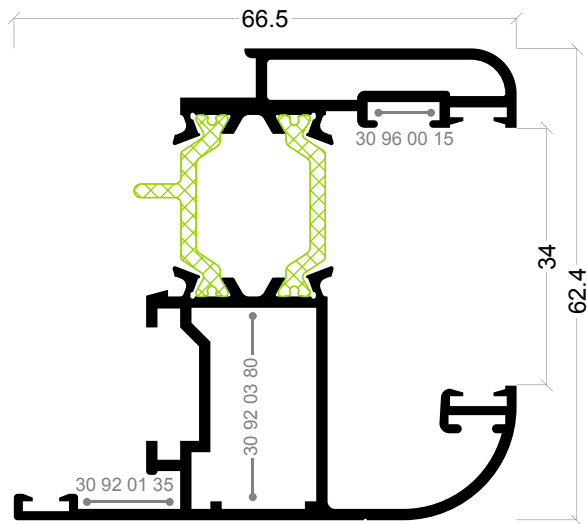
ATi-53
Ouvrant tradition



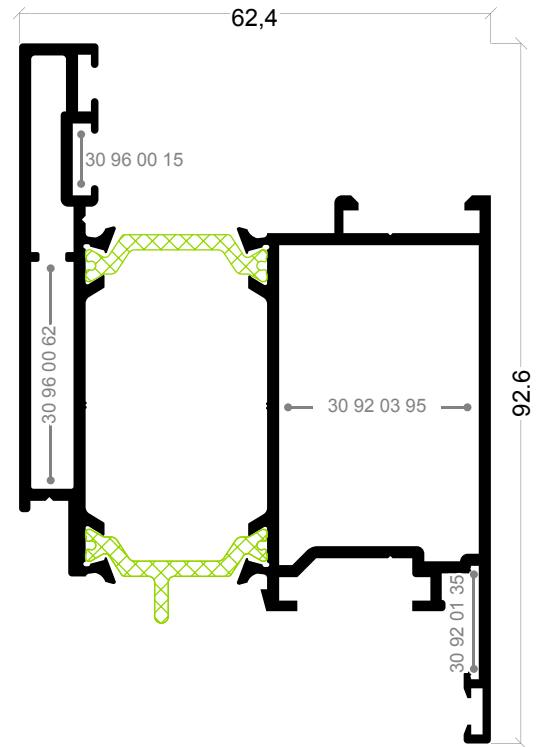
ATi-76
Ouvrant sans parclose



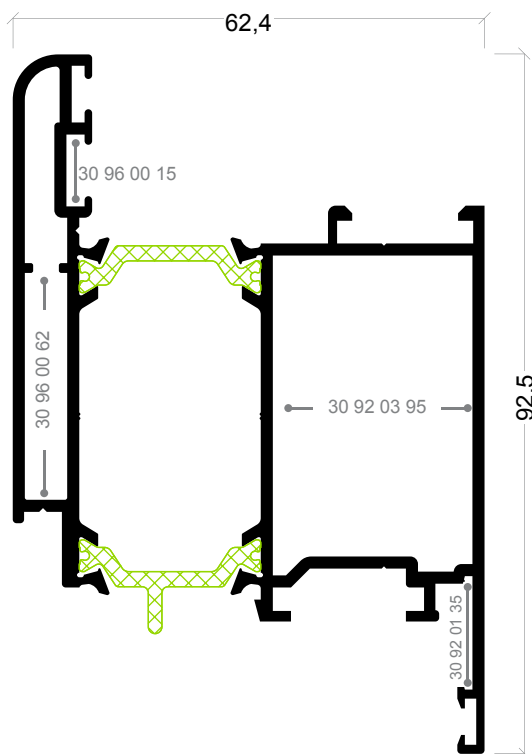
ATi-77
Ouvrant sans parclose



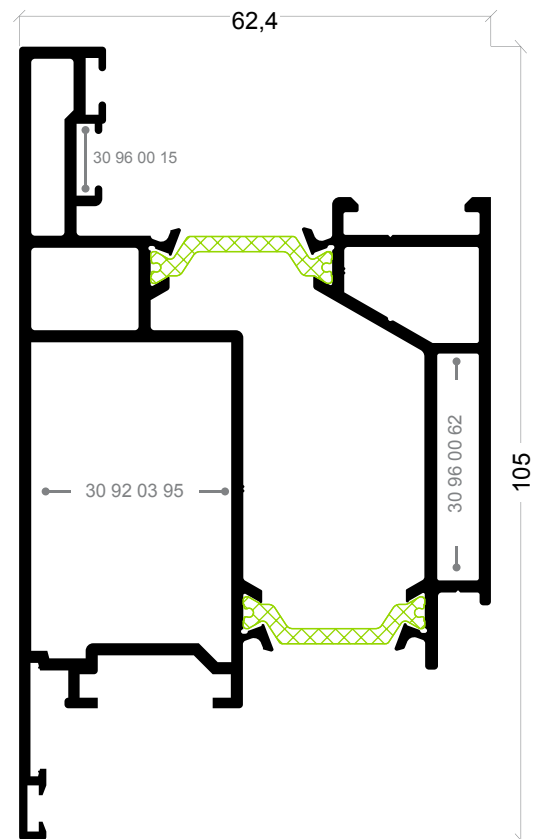
ATi-44
Ouvrant sans parclose



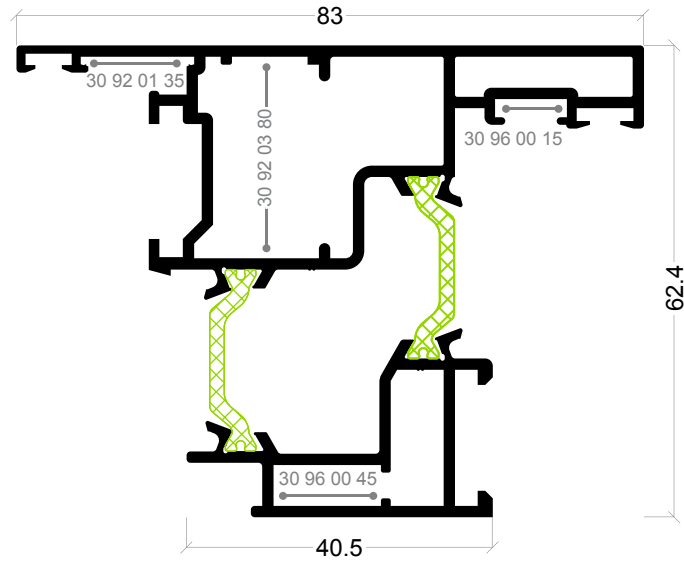
ATi-97
Ouvrant



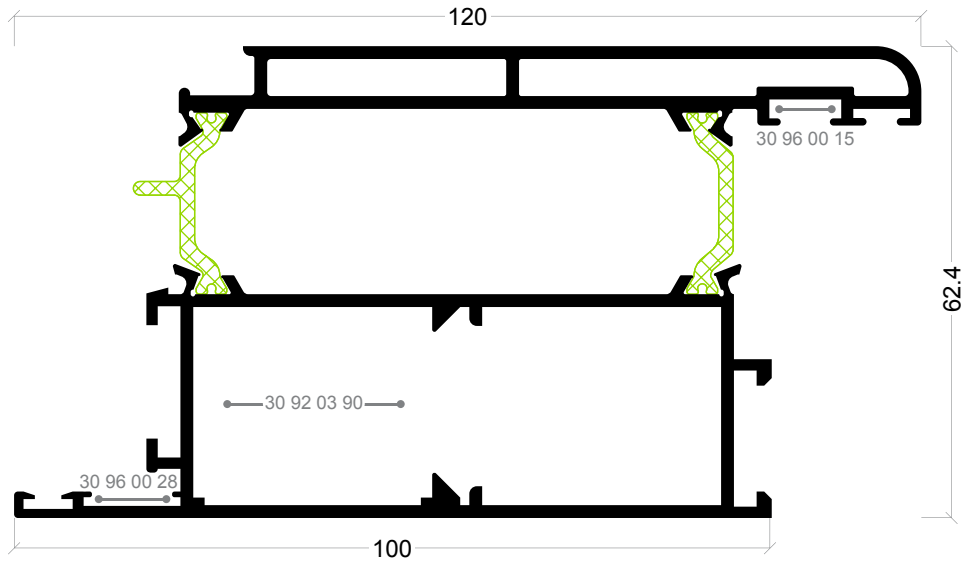
ATi-95
Ouvrant



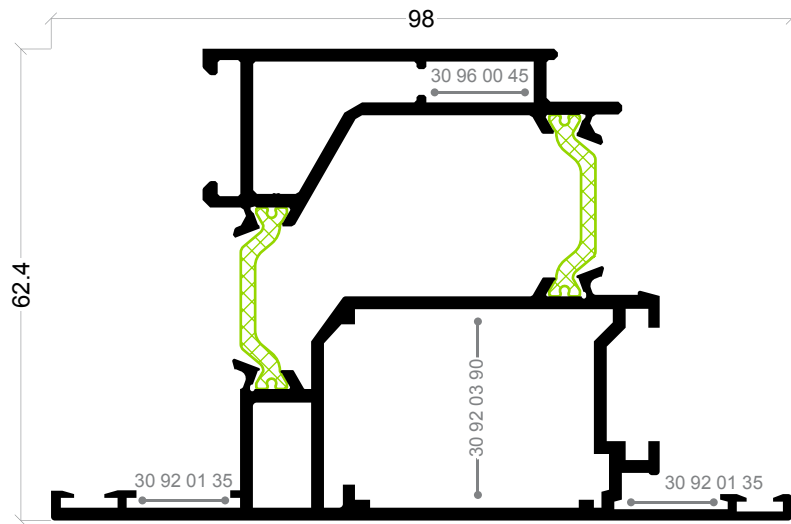
ATi-98
Ouvrant ouverture extérieur



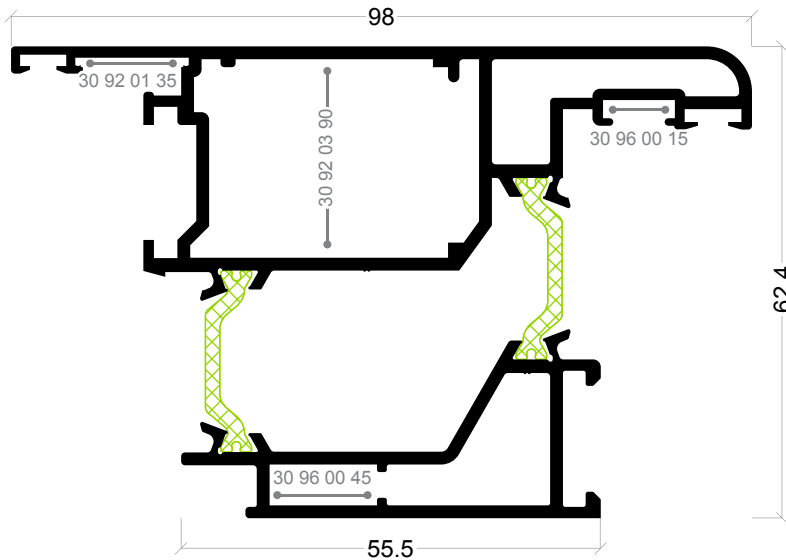
ATi-60
Ouvrant ouverture extérieure



ATi-66
Ouvrant



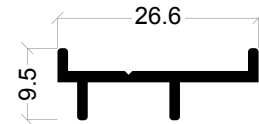
ATi-71
Ouvrant ouverture extérieure



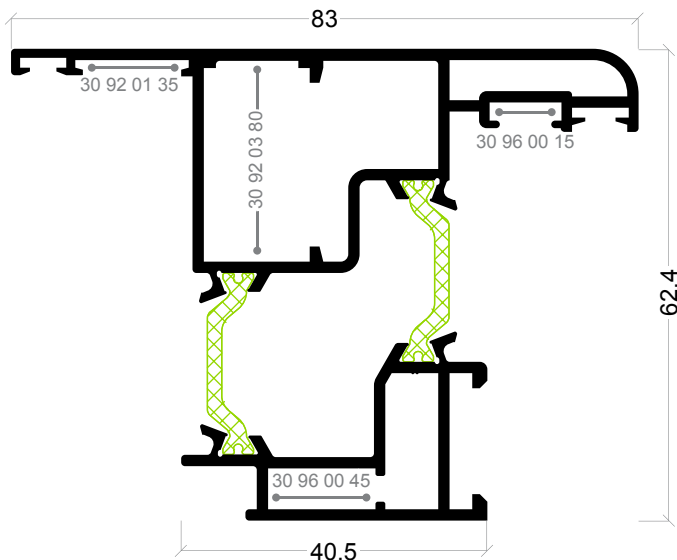
ATi-62
Ouvrant ouverture extérieur



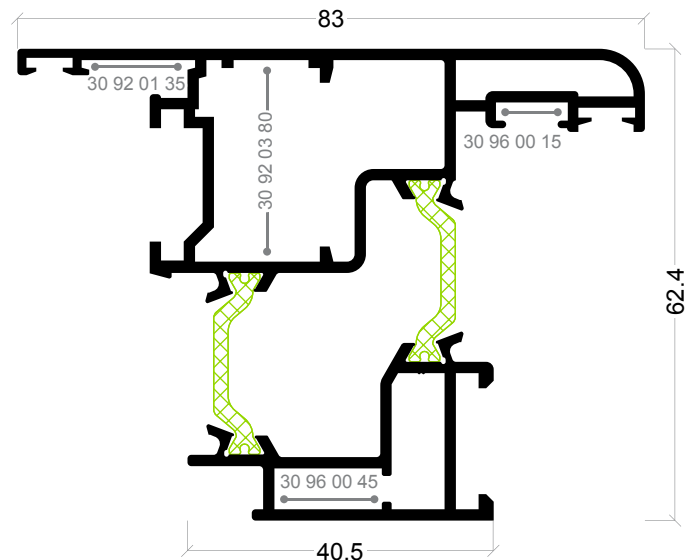
AXi-31
Guide ouverture à l'italienne



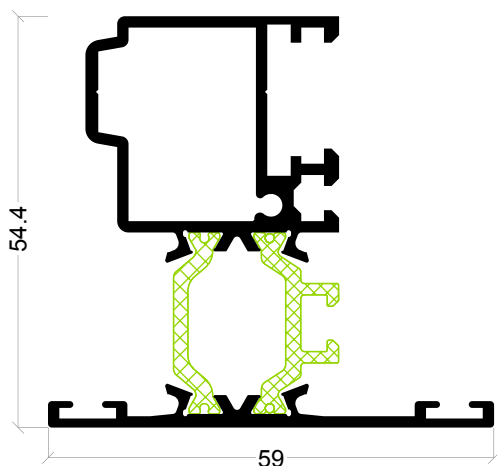
AXi-32
Complément d'ouverture à l'italienne



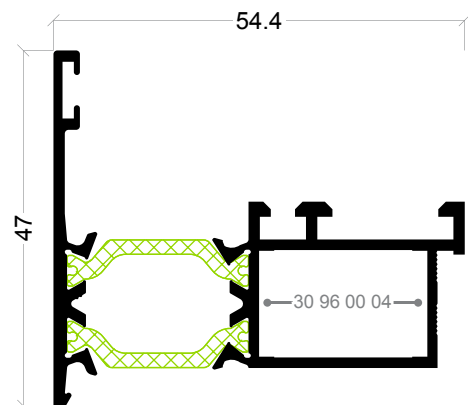
ATi-63
Ouvrant ouverture à l'italienne



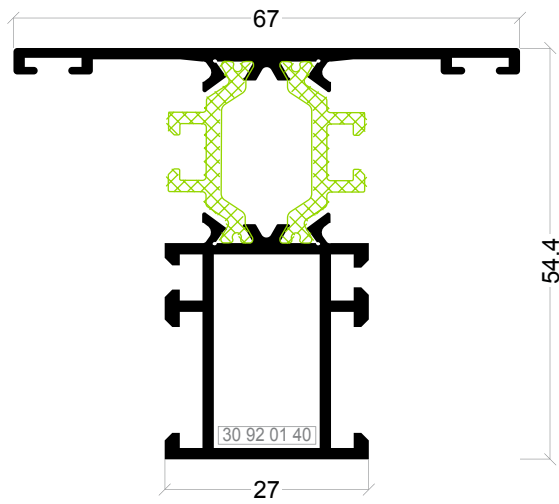
ATi-59
Ouvrant ouverture extérieur



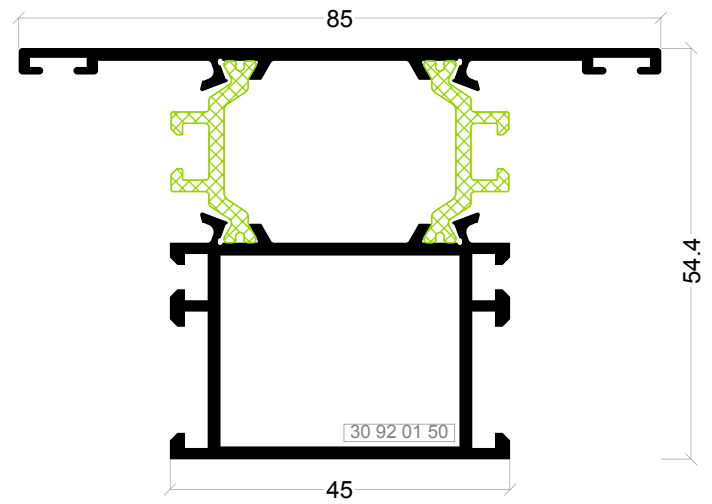
ATi-04
Battement



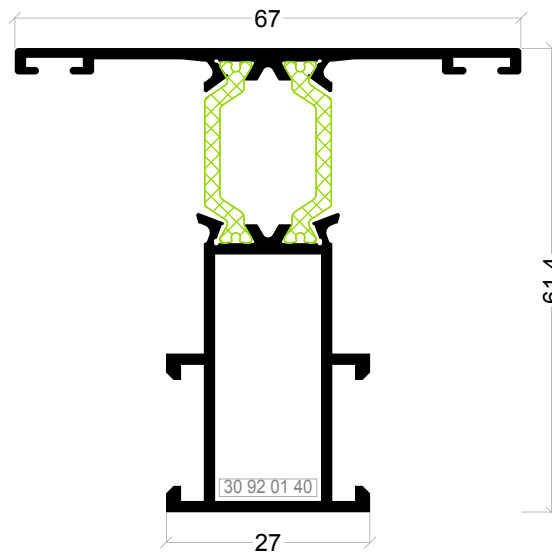
ATi-75
Battement ouverture extérieur



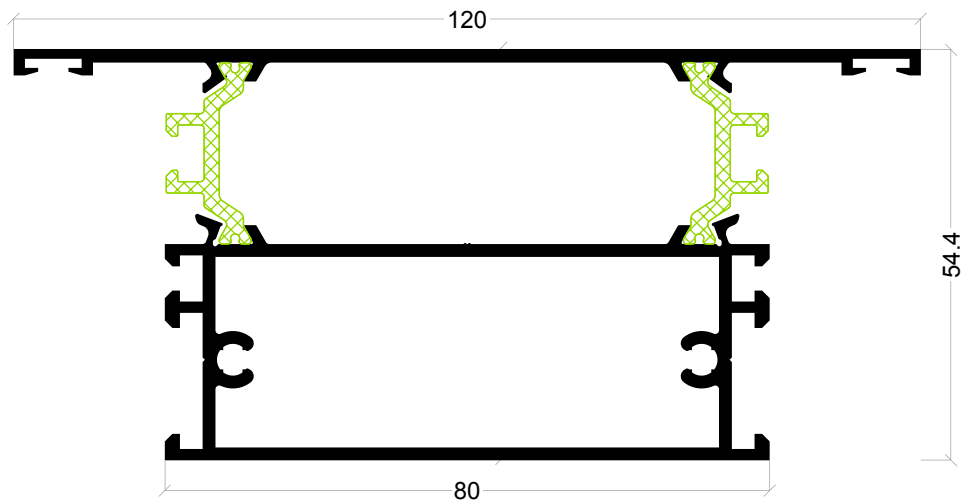
ATi-01
Traverse



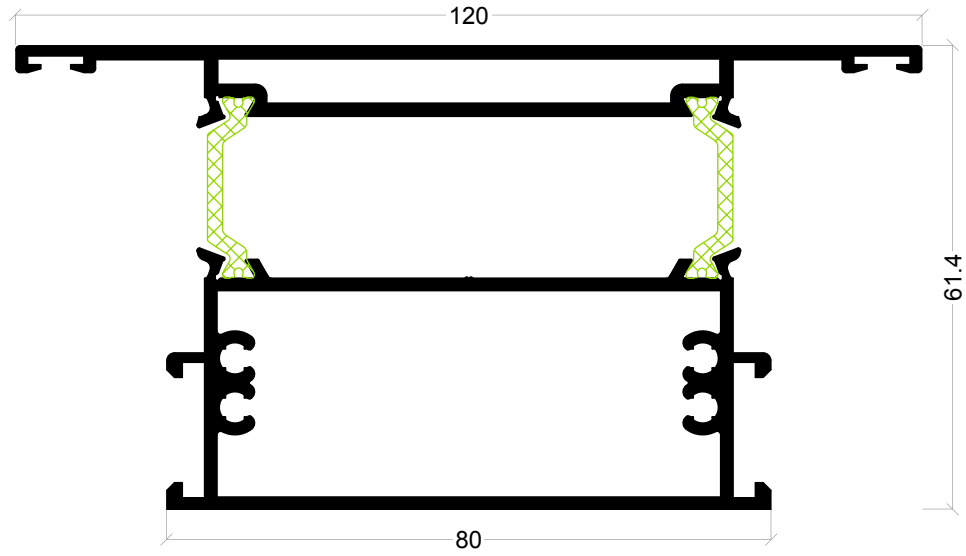
ATi-06
Traverse



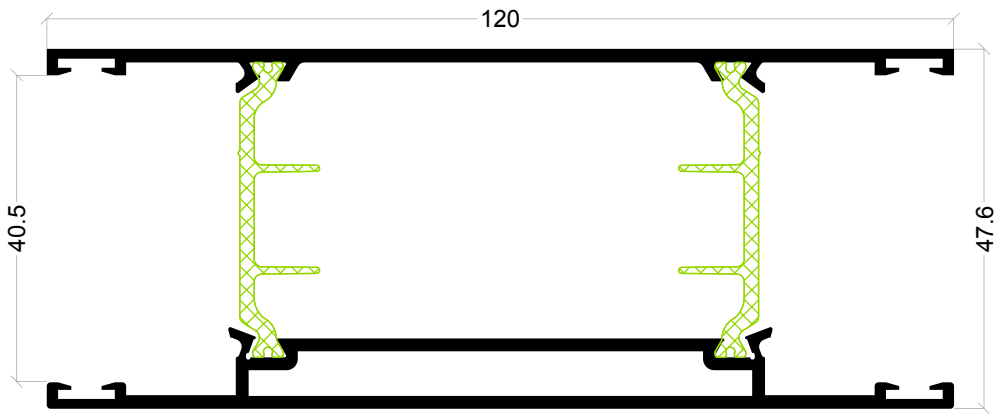
ATi-09
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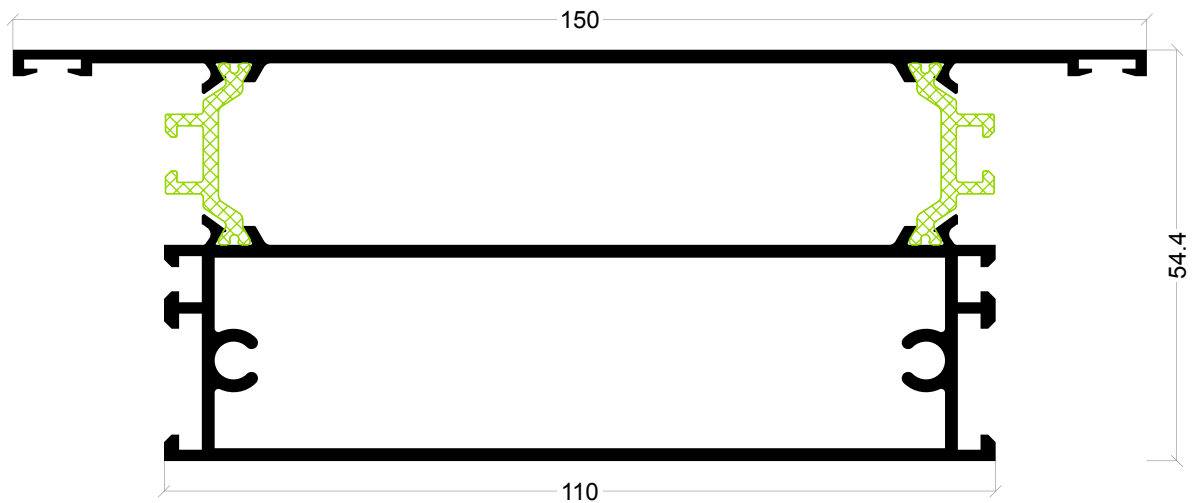
ATi-12
Traverse



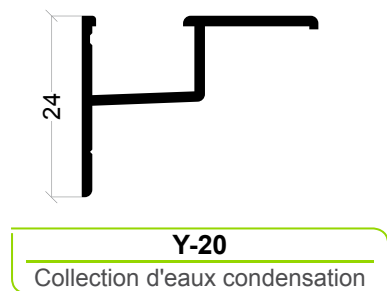
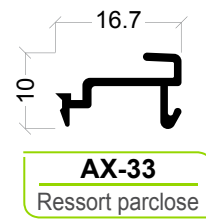
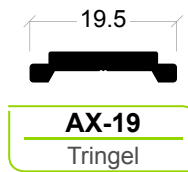
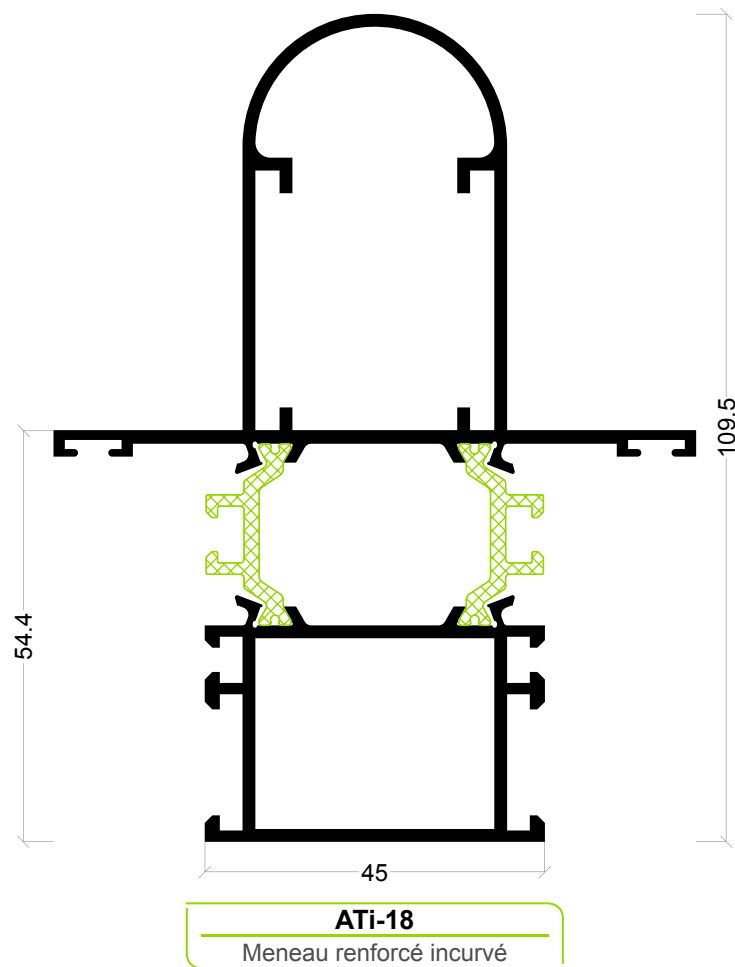
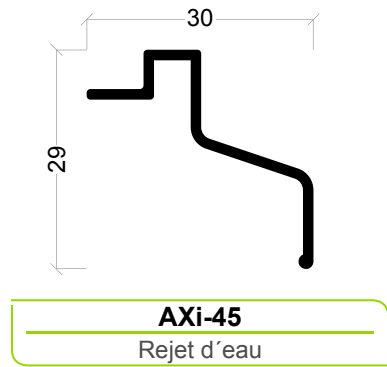
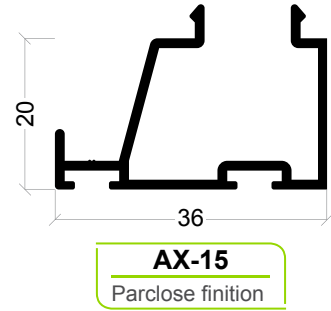
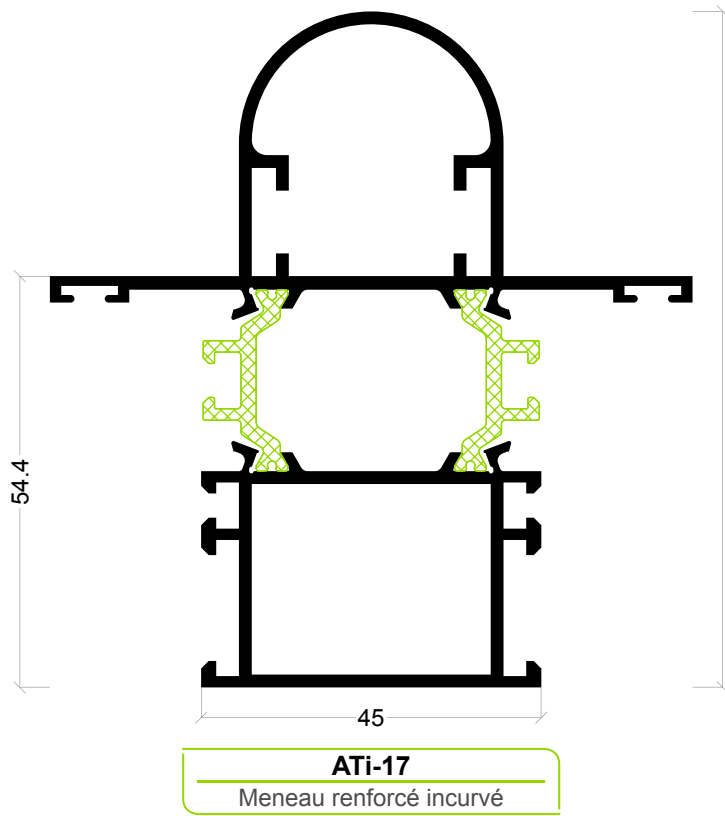
ATi-14
Traverse

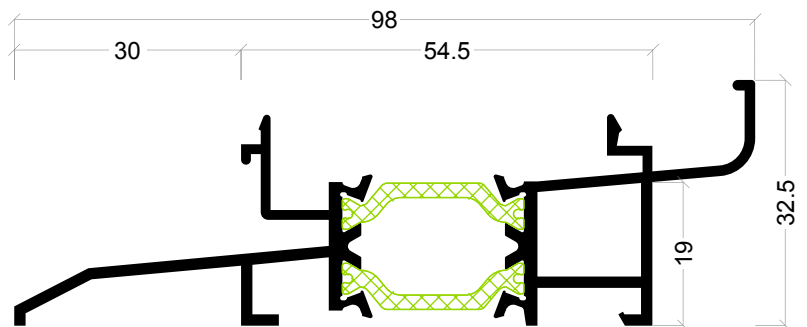
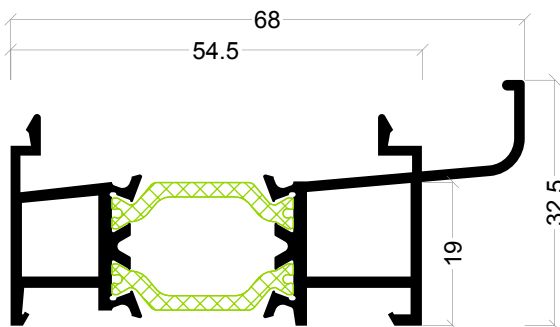
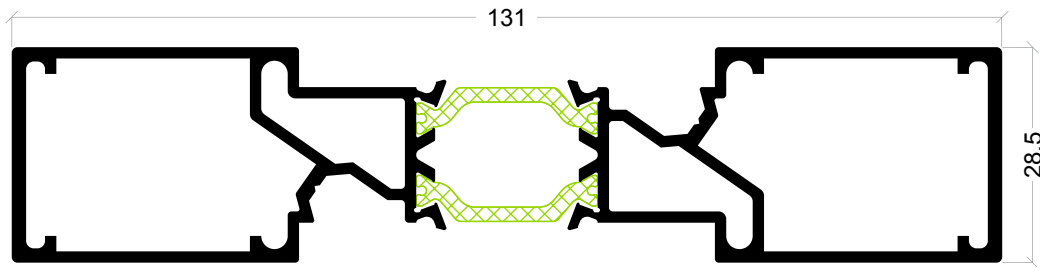
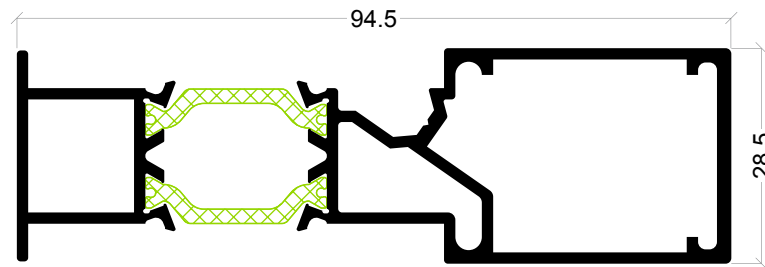
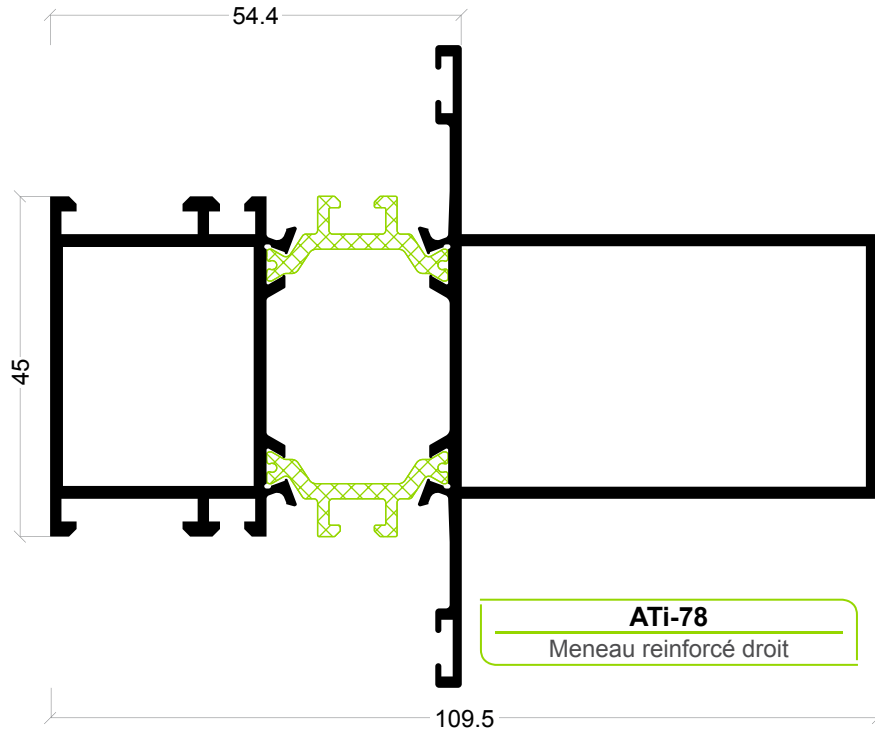


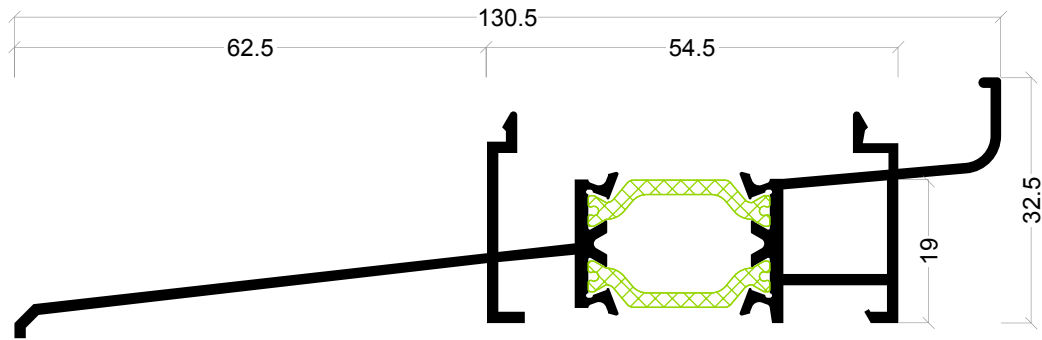
ATi-79
Traverse pour ATi-77



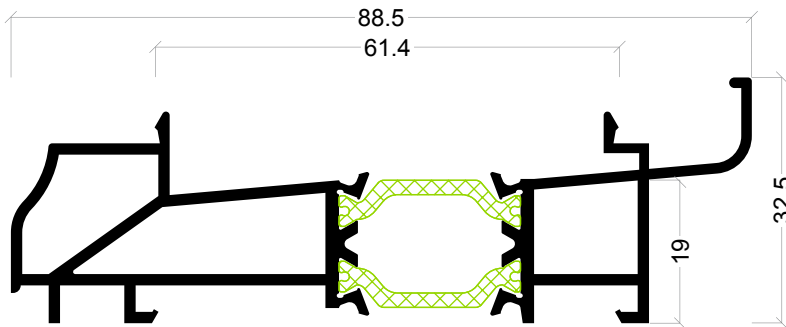
ATi-13
Traverse



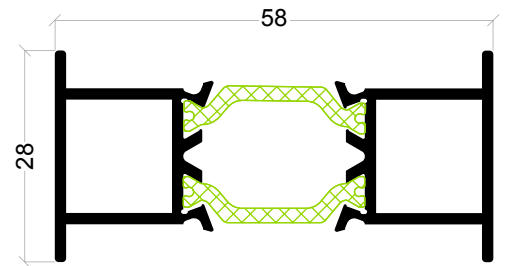




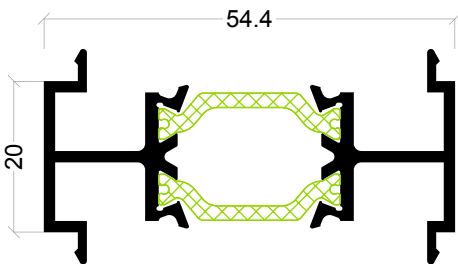
ATi-30
Sueil condensation



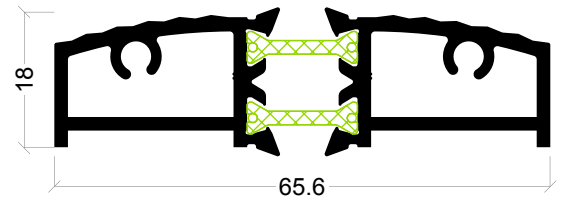
ATi-55
Sueil condensation



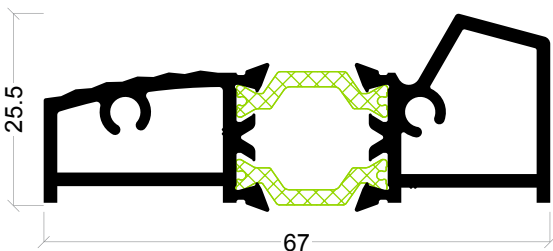
ATi-54
Union de dormants



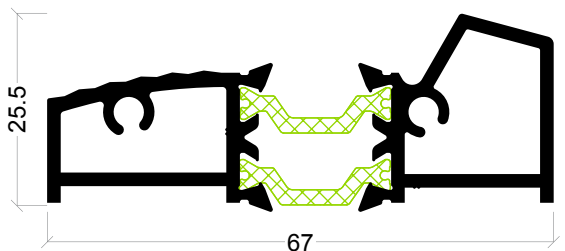
ATi-15
Union de dormants



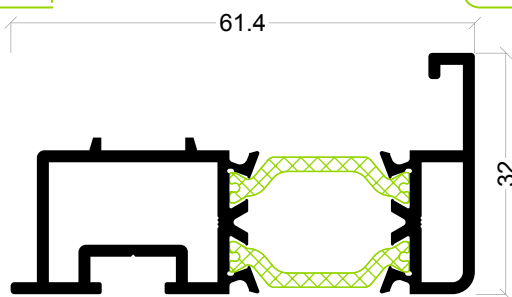
AXi-69
Finition inférieur porte



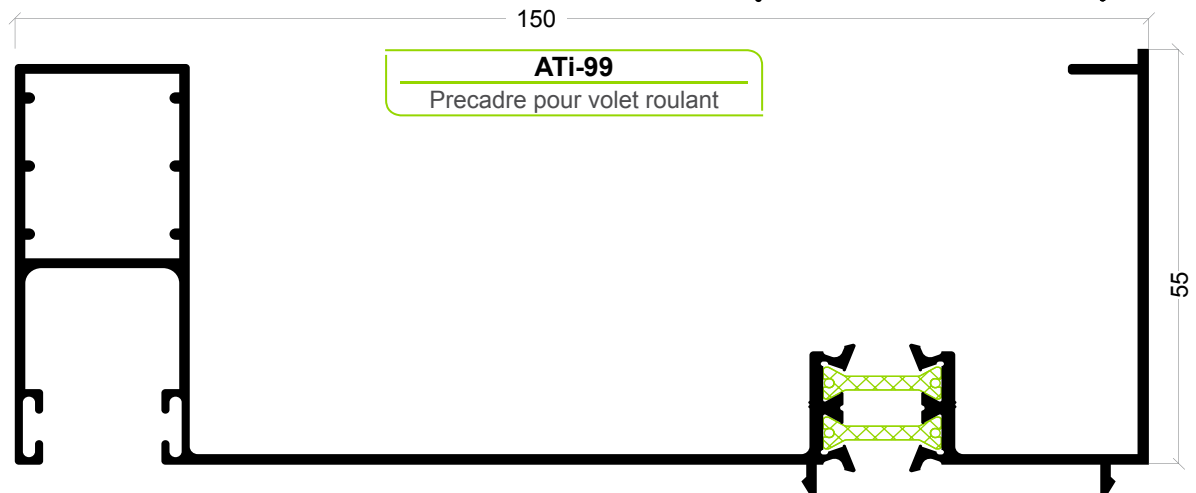
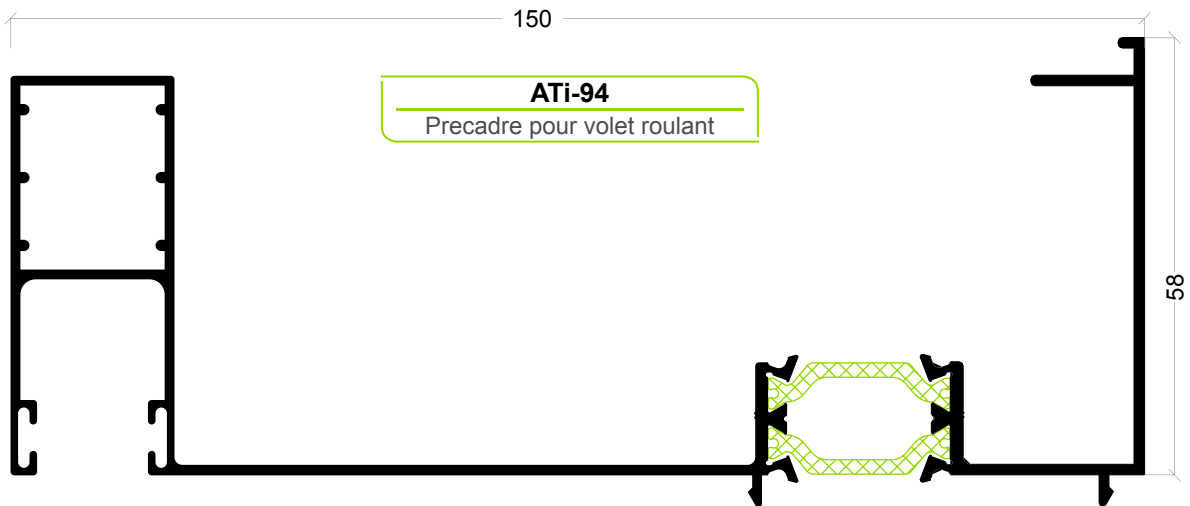
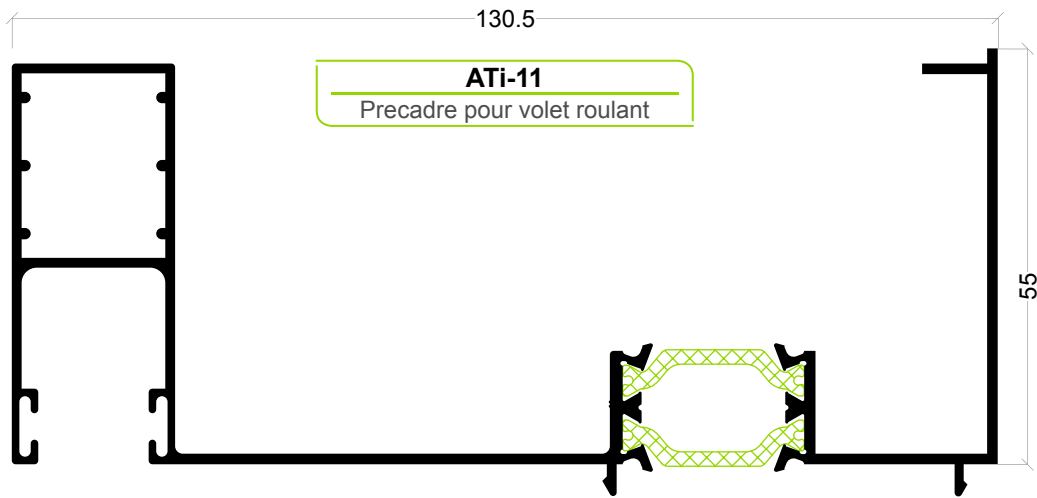
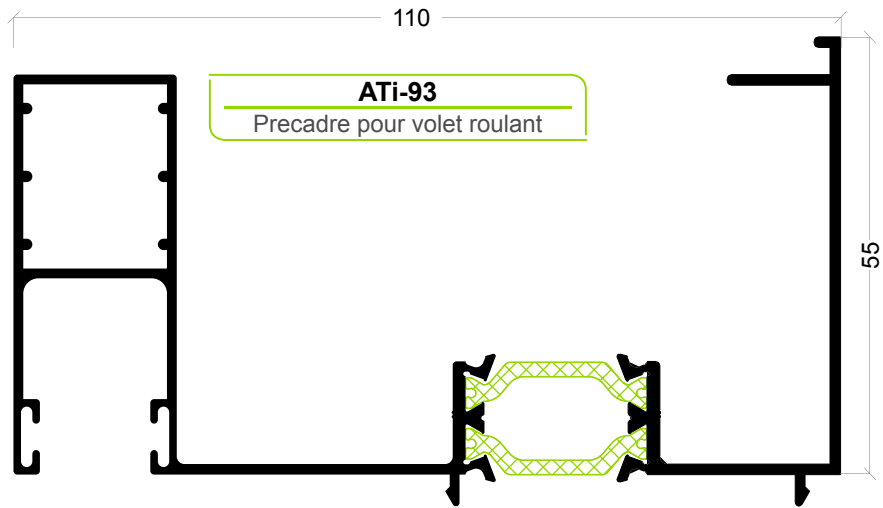
ATi-70
Finition inférieur porte

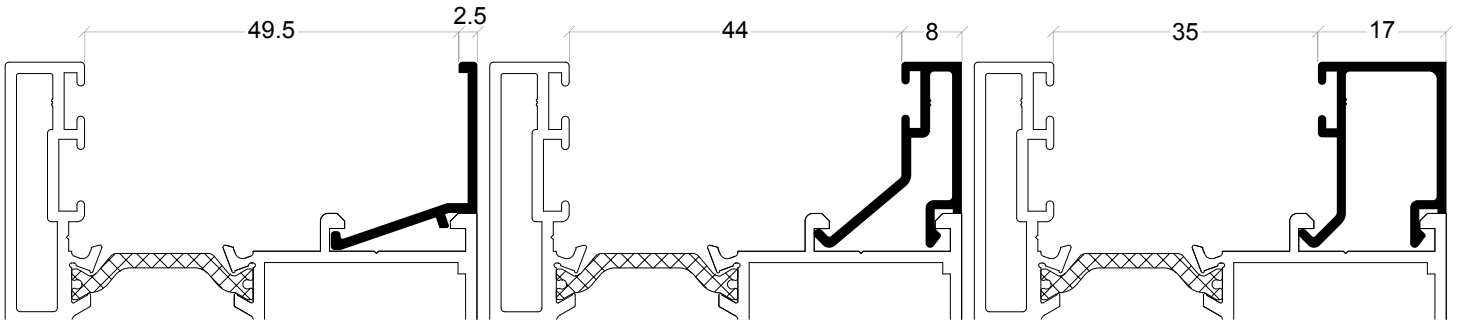


ATi-70 P.Inv.
Finition inférieur porte



ATi-42
Finition coussin

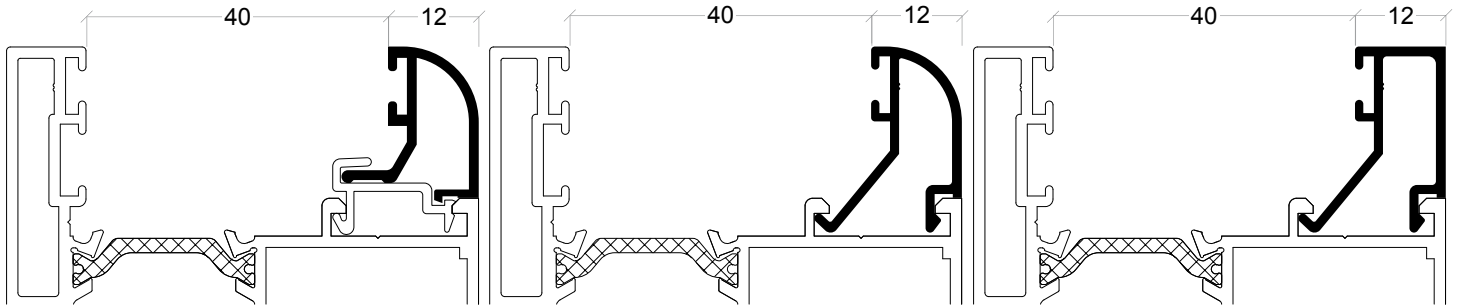




AX-69

AX-74

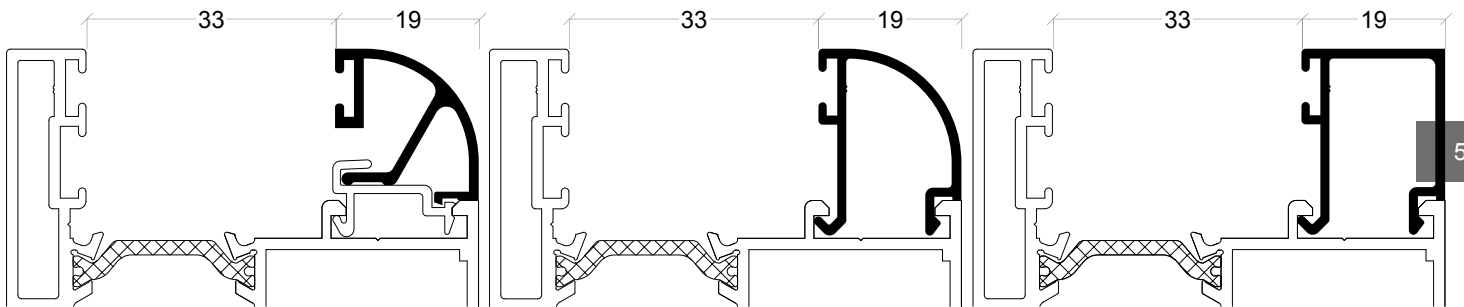
AX-46



AX-37

AZ-08

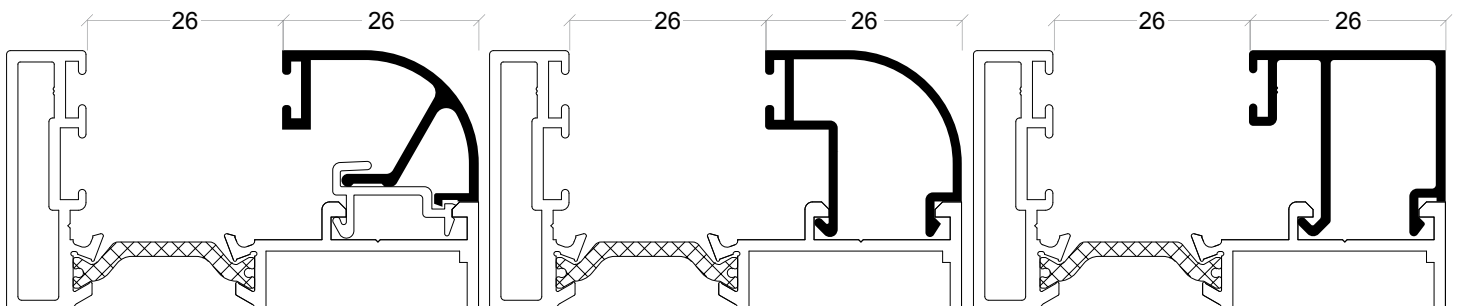
AX-36



AX-30

AZ-07

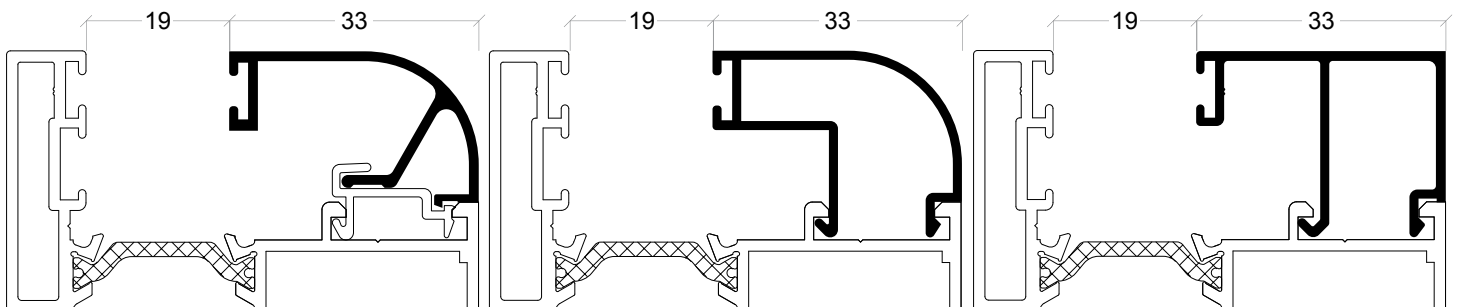
AX-35



AX-29

AZ-06

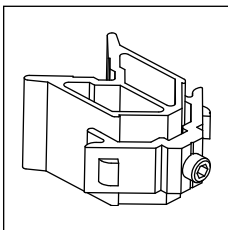
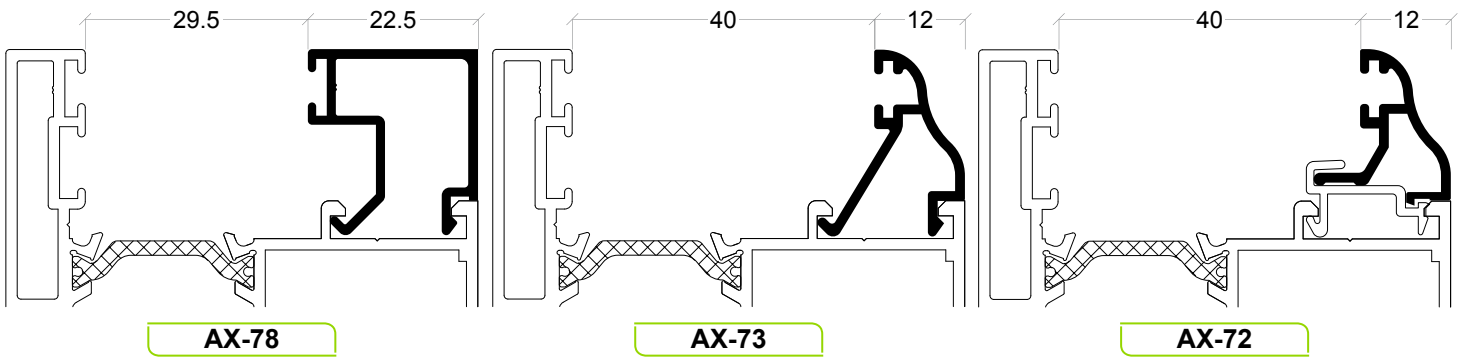
AX-31



AX-39

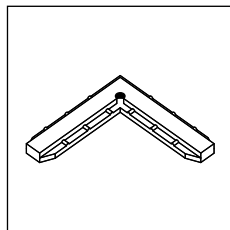
AZ-28

AX-34



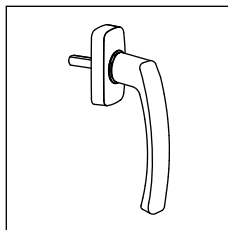
30 20 30 09

Equerre ouvrant pivotant



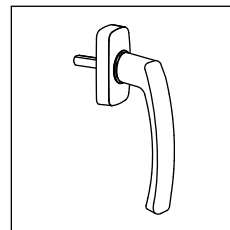
30 21 20 07

Equerre d'alignement



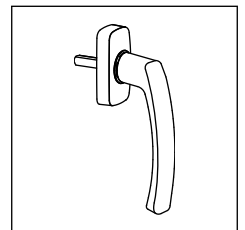
30 60 16 40/41

Poignée d'aluminium
blanc/noir



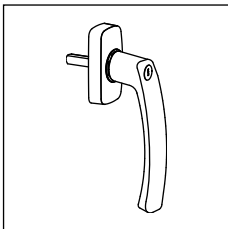
30 60 16 42/43

Poignée d'aluminium
2 ac/champ ac



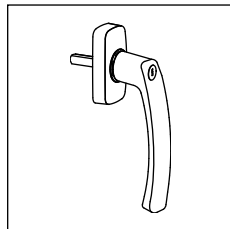
30 60 16 44

Poignée d'aluminium
inox ac



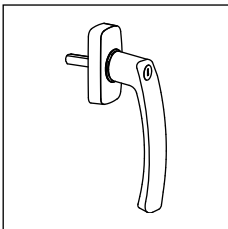
30 60 16 45/46

Poignée d'aluminium
avec clé blanc/noir



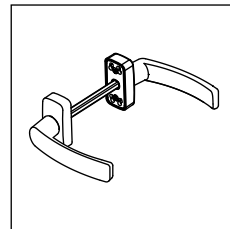
30 60 16 47/48

Poignée d'aluminium
avec clé 2 ac/champ ac



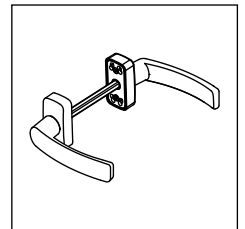
30 60 16 49

Poignée d'aluminium
avec clé inox ac



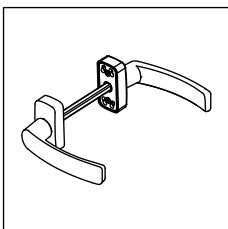
30 60 16 50/51

Double poignée
d'aluminium blanc/noir



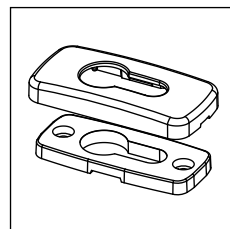
30 60 16 52/53

Double poignée
d'aluminium 2 ac/champ ac



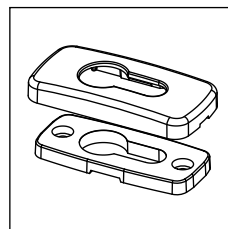
30 60 16 54

Double poignée
d'aluminium inox ac



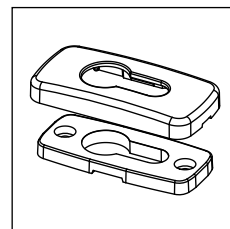
30 60 16 55/56

Miroir d'aluminium pour
cylindre blanc/noir



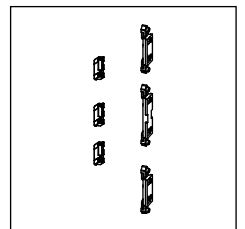
30 60 16 57/58

Miroir d'aluminium pour
cylindre 2 ac/champ ac



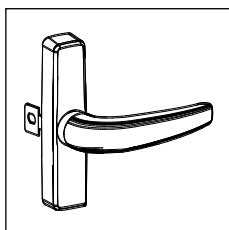
30 60 16 59

Miroir d'aluminium pour
cylindre inox ac



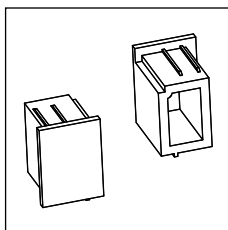
30 90 20 40

Transmission ouverture
extérieur



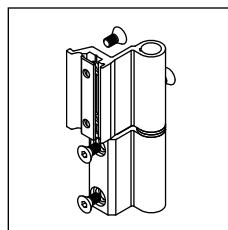
30 90 20 52/53

Poignée pour ouverture extérieur



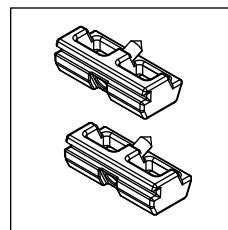
30 91 21 20

Jeu Jeu hautes condensation Y-20



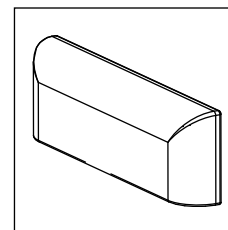
30 92 00 20/21

Charnière C.E. blanc/noir



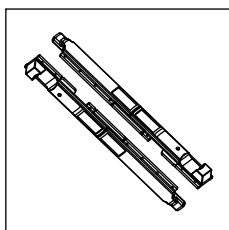
30 92 00 50

Complement fermeture



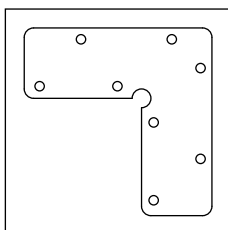
30 92 01 00/01

Goutières blanc/noir



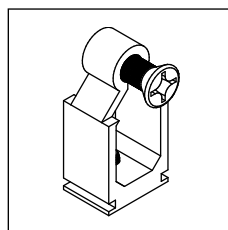
30 92 01 20

Jeu fermeture C.E.



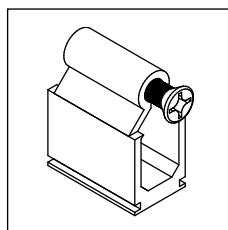
30 92 01 35

Equerre d'alignement



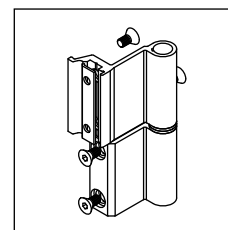
30 92 01 40

Union hautes fenêtre



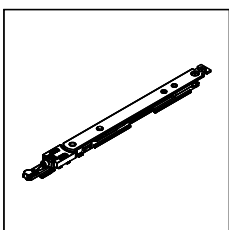
30 92 01 50

Union hautes porte



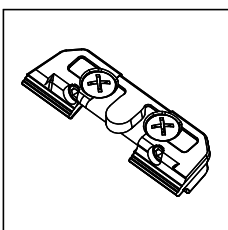
30 92 01 70/80

Charnière 3 vantaux blanc/noir



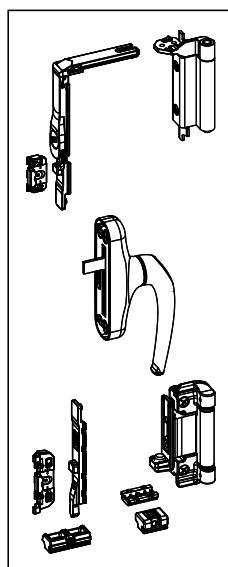
30 92 02 10/11/12

Compàs oscilo 300/400/500



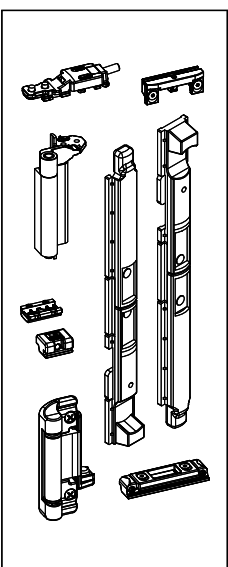
30 92 02 15

Fermeture pour micro-ventilation



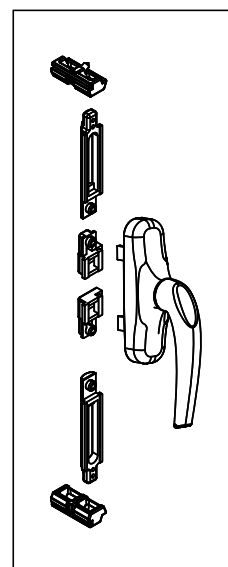
30 92 02 20/21

Kit oscillo-battant blanc/noir



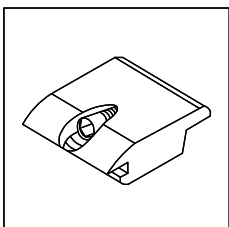
30 92 02 24/25

Kit 2^{ème} vantail oscillo-battant blanc/noir



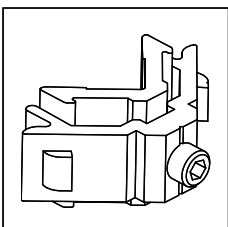
30 92 03 10/11

Kit poignée blanc/noir



30 92 02 60

Soutien de vantail



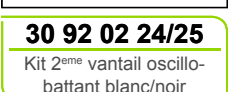
30 92 03 80

Equerre fenêtre



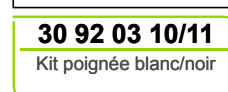
30 92 02 20/21

Kit oscillo-battant blanc/noir



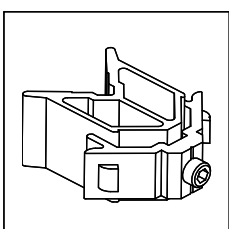
30 92 02 24/25

Kit 2^{ème} vantail oscillo-battant blanc/noir



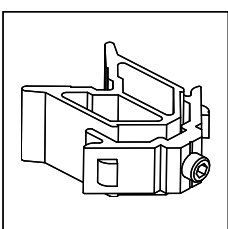
30 92 03 10/11

Kit poignée blanc/noir



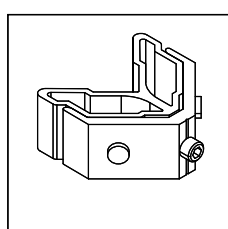
30 92 03 90

Equerre porte



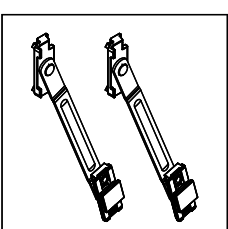
30 92 03 95

Equerre vantail porte



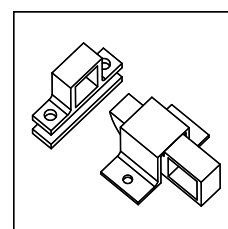
30 92 04 10

Equerre fenêtre ouverture extérieur



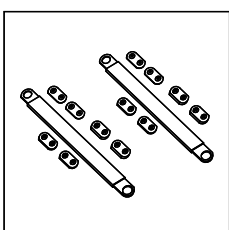
30 92 04 75

Jeu compàs à soufflet



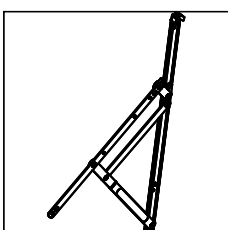
30 92 04 76/77

Fermeture clack (blanc/noir)



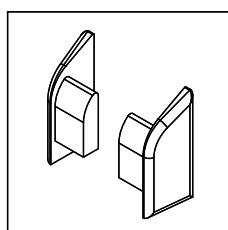
30 92 04 85

Jeu compàs



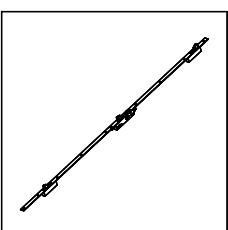
30 92 04 90

Compàs SEN-550 (jusqu'à 70kg /vantail)



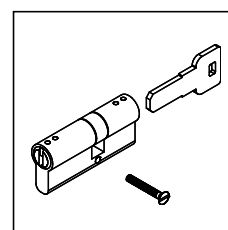
30 92 05 00

Jeu hautes



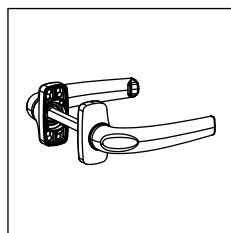
30 92 05 10

Serrure 3 points 35mm/30mm



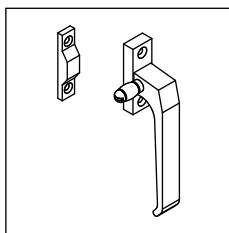
30 92 05 52

Cylindre sécurité



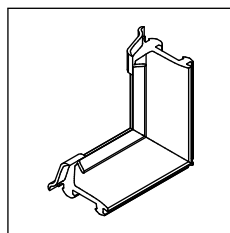
30 92 05 60/61

Double poignée blanc/
noir



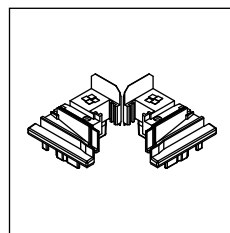
30 92 06 10/11

Poignée de langue blanc/
noir



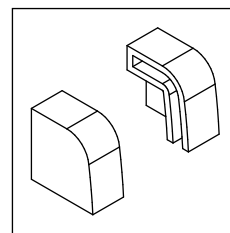
30 93 50 12

Coin vulcanisé ATi



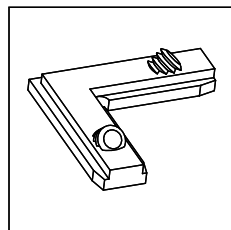
30 93 50 21

Ensemble hautes
battements avec trous ATi



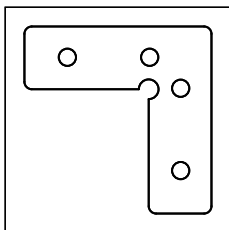
30 96 00 12

Jeu hautes condensation



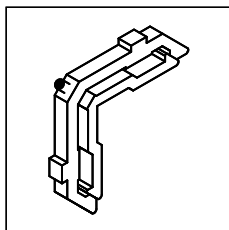
30 96 00 15

Equerre d'alignement



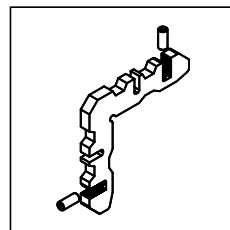
30 96 00 28

Equerre d'alignement spécial
ATi-07/10/53/65/66



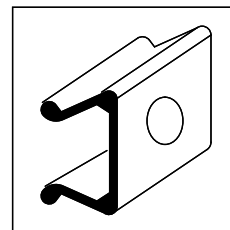
30 96 00 38

Equerre d'alignement
extérieur



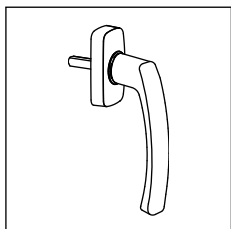
30 96 00 45

Equerre d'alignement
extérieur avec vis



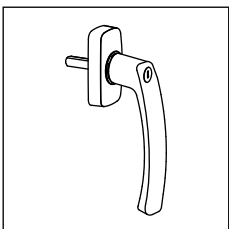
31 03 40 00

Ressort pour AZ-60



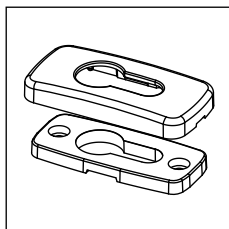
31 70 16 40

Poignée d'aluminium
en crud



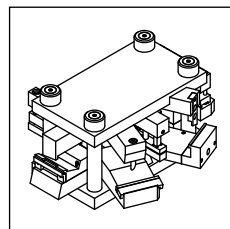
31 60 16 42

Poignée d'aluminium
avec clé en crud



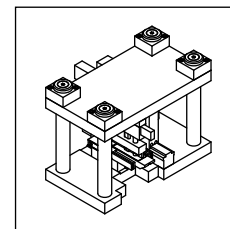
30 70 16 43

Miroir d'aluminium p/
cylindre en crud



33 96 79 99

Outil C.E.

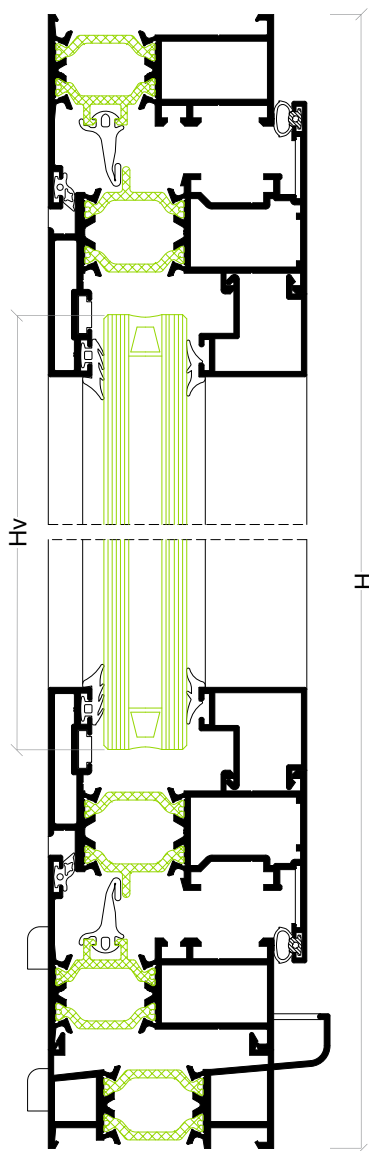
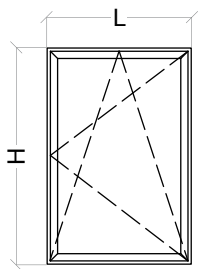


33 96 87 99

Outil equerres intérieur/
extérieur

Référence	Dessin	Description
30 00 95 15		Joint etanchéité inférieur
30 60 00 17		Joint extérieur verre plate 2 mm noir
30 92 04 70		Mousse d'isolation
30 93 00 60		Joint extérieur du verre (facultatif)
30 93 00 61		Joint etanchéité extérieur
30 93 00 62		Joint extérieur plate
30 93 00 65		Joint intérieur pour verre (5 mm)
30 93 00 66		Joint intérieur pour verre (4 mm)
30 93 00 67		Joint intérieur pour verre (2 mm)
30 93 00 68		Joint intérieur pour verre (6/7 mm)
30 93 00 69		Joint intérieur pour verre (8/9 mm)
30 93 00 70		Joint intérieur du verre (facultatif)
30 93 00 80		Joint etanchéité inférieur ATi-42
30 93 00 82		Joint etanchéité inférieur
30 93 00 90		Joint extérieur
30 93 01 20		Joint intérieur
30 93 01 30		Joint extérieur (ouverture extérieur/à l'italienne)
30 93 50 10		Joint central ATi
30 93 50 11		Joint central / Joints de couverture ATi
30 95 00 10		Pelouche 7x9 mm
30 95 00 40		Pelouche 7x5.5 mm

Fenêtre 1 vantail à frappe et oscilo-battant



Profils

Dessin	Ref	Description	Coupe	Quant	Mesure
	ATI-03	Dormant		2	L
				2	H-24 mm
	ATI-64	Ouvrant		2	L-42 mm
				2	H-66 mm
	ATI-57	Sueil condensation		1	L
	AX-19	Tringel		1+1	Apro. L+H
	---	Parclose		2	L-135 mm
				2	H-199 mm

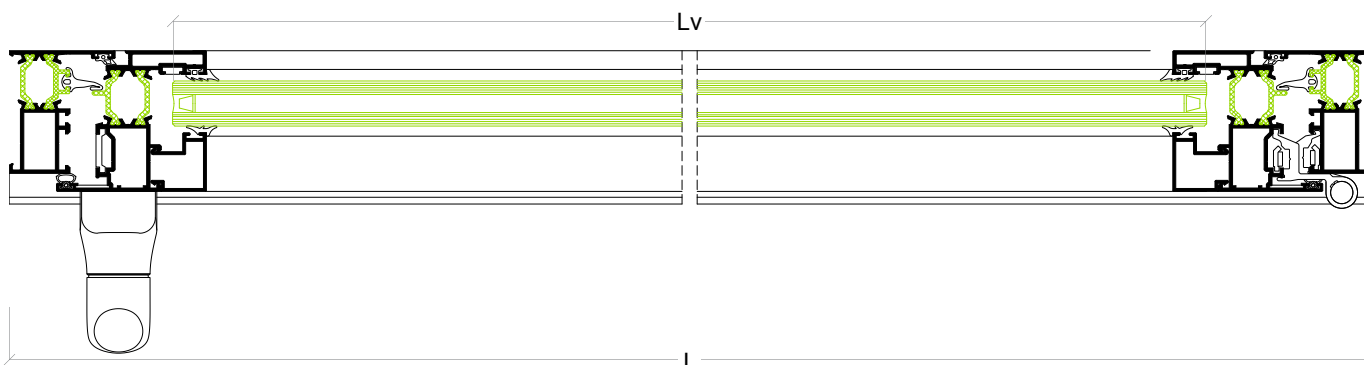
Accessoires et Joints

Référence	Description	Quantité	
		À frappe	Oscilo-battant
30 92 00 20	Charnières C.E.	2	---
30 92 01 00	Goutières	4	4
30 92 01 35	Equerre d'alignement Ouvrant	4	4
30 92 02 (xx)	Compás O.B.	---	1
30 92 02 20	Kit oscilo-battant	---	1
30 92 02 60	Soutien de vantail	1	---
30 92 03 10	Kit Poignée	1	---
30 92 03 80	Equerre fenêtre	8	8
30 96 00 12	Jeu hautes condensation	1	1
30 96 00 15	Equerre d'alignement ouvrant	4	4
30 92 04 70	Mousse d'isolation	L	L
30 93 00 90	Joint extérieur	2L+2H	
30 93 50 10	Joint central	2L+2H	
30 93 01 20	Joint intérieur	2L+2H	
---	Joint extérieur verre	2L+2H	
---	Joint intérieur verre	2L+2H	

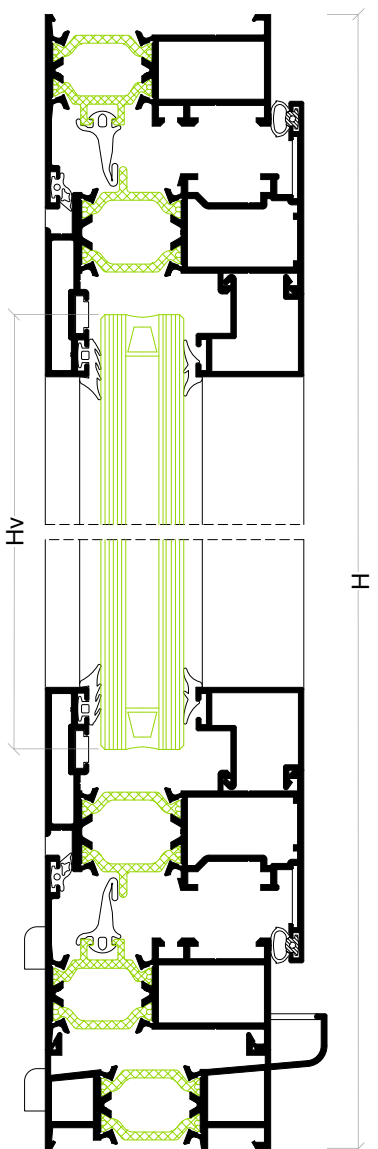
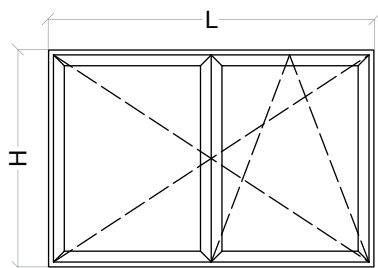
55

Verre

Hv = H-174 mm	Lv = L-149 mm
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Fenêtre 2 vantaux à frappe et oscilo-battant



Profils

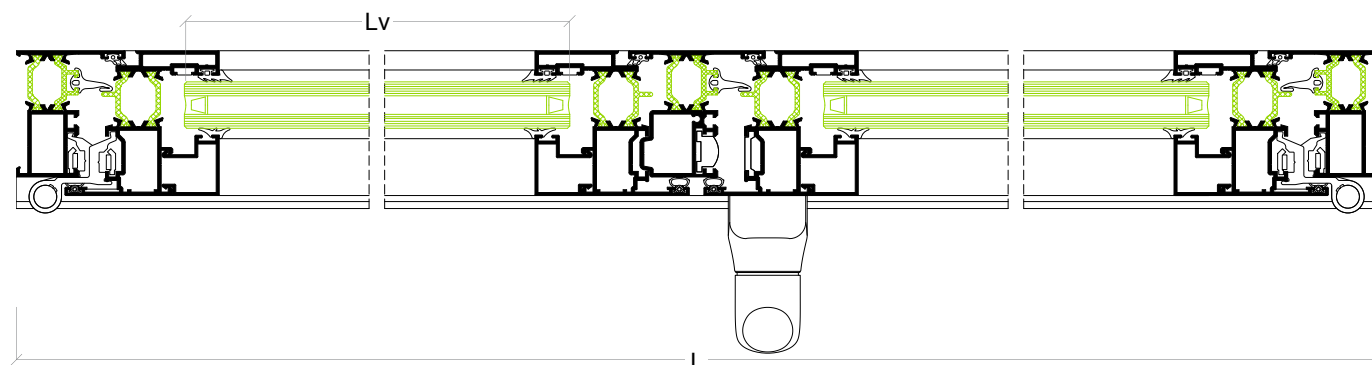
Dessin	Ref	Description	Coupe	Quant	Mesure
	ATI-03	Dormant		2	L
				2	H-24 mm
	ATI-64	Ouvrant		4	L/2-24 mm
				4	H-66 mm
	ATI-57	Sueil condensation		1	L
	AX-19	Tringel		1+1	Apro. L+H
	---	Parclose		4	L/2-117 mm
				4	H-199 mm
	ATI-04	Battement		1	H-134 mm

Accessoires et Joints

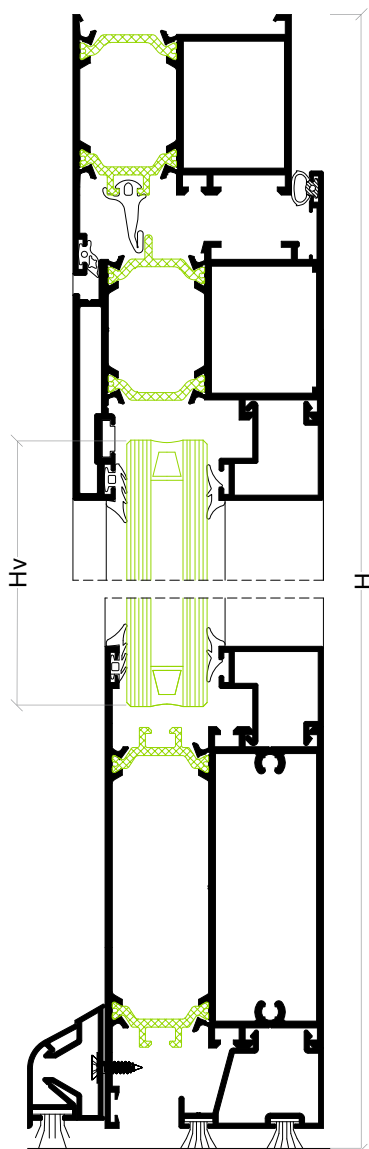
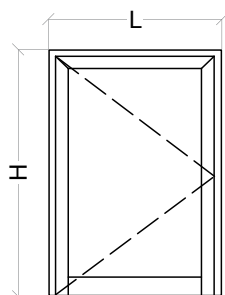
Référence	Description	Quantité	
		À frappe	Oscilo-battant
30 92 00 20	Charnières C.E.	4	---
30 92 01 00	Goutières	4	4
30 92 01 20	Jeu fermeture C.E.	1	---
30 92 01 35	Equerre d'alignement Ouvrant	8	8
30 92 02 (xx)	Compás O.B.	---	1
30 92 02 20	Kit oscilo-battant	---	1
30 92 02 24	Kit 2 ^{ème} vantaux oscilo-battant	---	1
30 92 02 60	Soutien de vantail	1	---
30 92 03 10	Kit Poignée	1	---
30 92 03 80	Equerre fenêtre	12	12
30 93 50 21	Hautes battement	1	1
30 96 00 12	Jeu hautes condensation	1	1
30 96 00 15	Equerre d'alignement ouvrant	8	8
30 92 04 70	Mousse d'isolation	L	L
30 93 00 90	Joint extérieur	2L+4H	
30 93 05 10	Joint central	2L+3H	
30 93 01 20	Joint intérieur	2L+4H	
---	Joint extérieur verre	2L+4H	
---	Joint intérieur verre	2L+4H	

Verre

Hv = H-174 mm	Lv = L/2-131 mm
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Porte 1 vantail



Profils

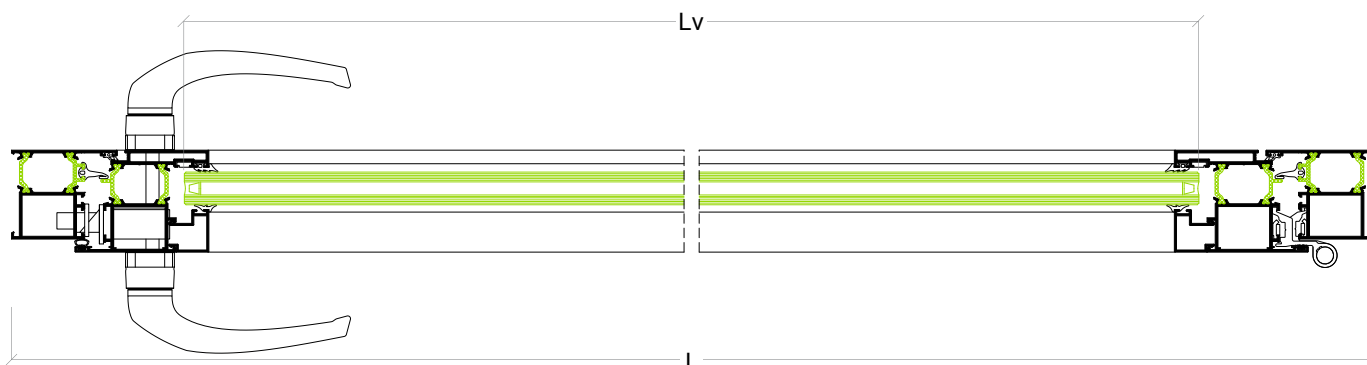
Dessin	Ref	Description	Coupe	Quant	Mesure
	ATI-08	Dormant		1	L
				2	H
	ATI-65	Ouvrant		1	L-78 mm
				2	H-44 mm
	ATI-12	Traverse		1	L-193 mm
	AX-15	Parclose finition		1	L-202 mm
	---	Parclose		2	L-202 mm
				2	H-246 mm
	AZ-60	Rejet d'eau		1	L-145 mm
	AZ-61	Clip Rejet d'eau		1	L-242 mm

Accessoires et Joints

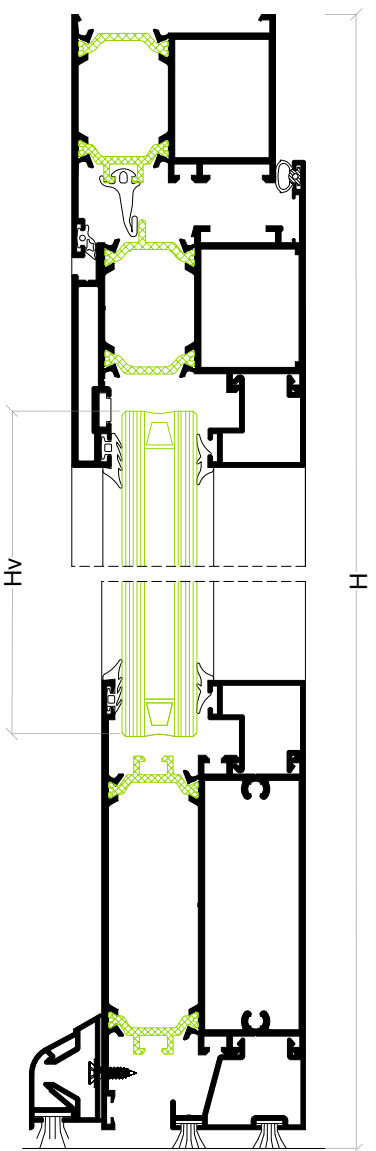
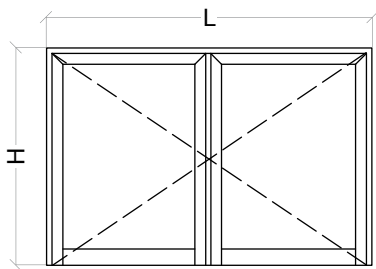
Référence	Description	Quantité
30 92 00 20	Charnières C.E.	3
30 92 03 90	Equerre porte	4
30 92 05 10	Serrure 3 points	1
30 92 05 52	Cylindre sécurité	1
30 92 05 60	Double poignée	1
30 96 00 15	Equerre d'alignement ouvrant	2
30 92 05 00	Jeu hautes	1
30 96 00 28	Equerre d'alignement	2
30 93 00 90	Joint extérieur	1L+2H
30 93 05 10	Joint central	1L+2H
30 93 01 20	Joint intérieur	1L+2H
30 95 00 10	Pelouche 7x9 mm	2L
---	Joint extérieur verre	2L+2H
---	Joint intérieur verre	2L+2H

Verre

Hv = H-220 mm	Lv = L-216 mm
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Porte 2 vantaux



Profils

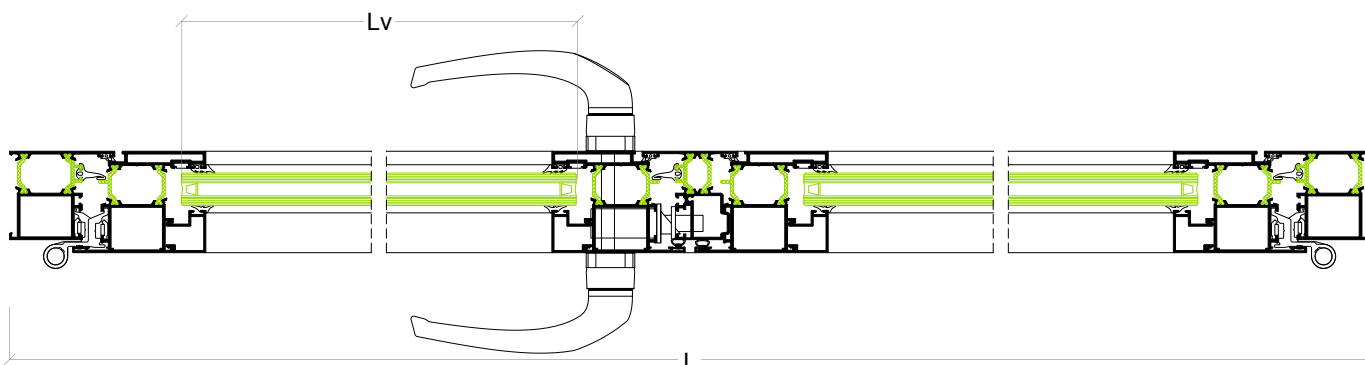
Dessin	Ref	Description	Coupe	Quant	Mesure
	ATi-08	Dormant		1	L
				4	H
	ATi-65	Ouvrant		2	L/2-42 mm
				4	H-44 mm
	ATi-04	Battement		1	H-78 mm
	ATi-12	Traverse		2	L/2-157 mm
	AX-15	Parclose finition		2	L/2-166 mm
	---	Parclose		4	L/2-166 mm
				4	H-246 mm
	AZ-60	Rejet d'eau		1	Aprox. L/2
				1	Aprox. L/2
	AZ-61	Clip Rejet d'eau		2	L/2-206 mm

Accessoires et Joints

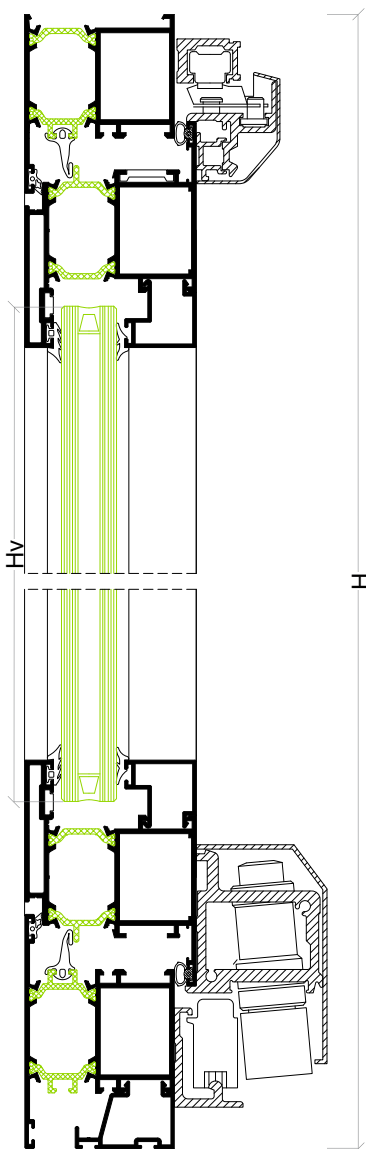
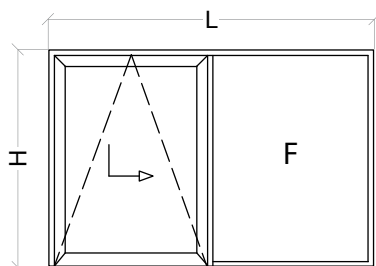
Référence	Description	Quantité
30 92 00 20	Charnières C.E.	6
30 92 01 12	Hautes battement	1
30 92 01 20	Jeu fermeture C.E.	1
30 92 03 90	Equerre porte	6
30 92 05 10	Serrure 3 points	1
30 92 05 52	Cylindre sécurité	1
30 92 05 60	Double poignée	1
30 96 00 15	Equerre d'alignement ouvrant	4
30 92 05 00	Jeu hautes	1
30 96 00 28	Equerre d'alignement	2
30 93 00 90	Joint extérieur	1L+4H
30 93 05 10	Joint central	1L+3H
30 93 01 20	Joint intérieur	L+4H
30 95 00 10	Pelouche 7x9 mm	2L
---	Joint extérieur verre	2L+2H
---	Joint intérieur verre	2L+2H

Verre

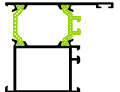


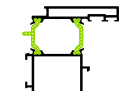


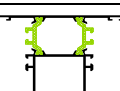












Hv = H-220 mm	Lv = L-180 mm
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Porte oscilo-parallèle avec fixe latéral



Profils

Dessin	Ref	Description	Coupe	Quant	Mesure
	ATi-08	Dormant		1	L
				2	H
	ATi-65	Ouvrant		2	L1-56 mm
				2	H-98 mm
	ATi-06	Traverse		1	L-81 mm
				1	H-101mm
	AX-15	Parclose finition		1	L-90 mm
	AX-19	Tringel		1+1	Apro. L+H
	---	Parclose (vantail)		2	L1-180 mm
				2	H-262 mm
	---	Parclose (fixe)		2	L2-67.5 mm
				2	H-150 mm

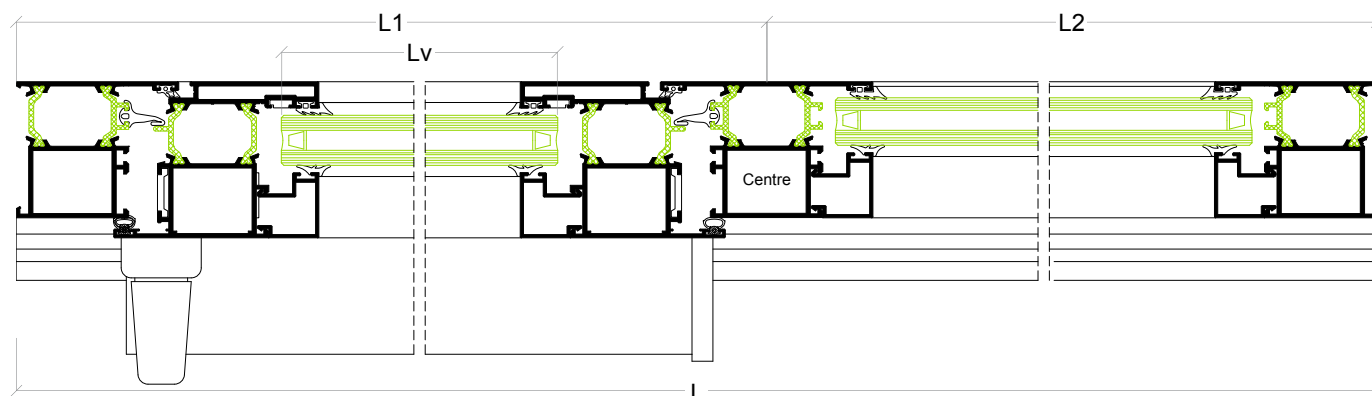
Accessoires et Joints

Référence	Description	Quantité
30 92 01 00	Goutières	4
30 92 01 50	Union bouchon porte	2
30 92 03 90	Equerre porte	6
30 96 00 15	Equerre d'alignement ouvrant	4
---	Kit oscilo-parallèle	1
30 96 00 28	Equerre d'alignement	4
30 93 00 90	Joint extérieur	2L1+2H
30 93 05 10	Joint central	2L1+2H
30 93 01 20	Joint intérieur	2L1+2H
---	Joint extérieur verre	2L+2H
---	Joint intérieur verre	2L+2H

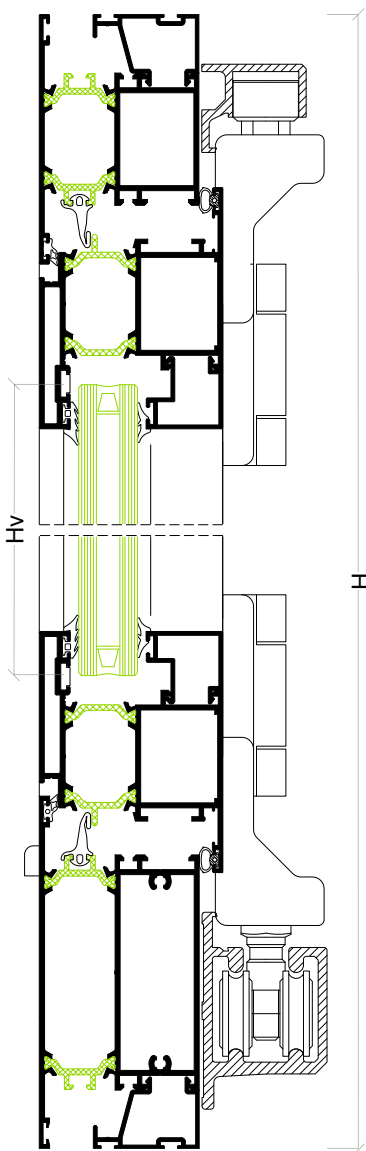
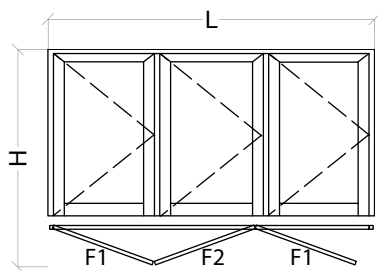
	Minimum	Maximum
Largeur vantail	700 mm	1650 mm
Hauteur vantail	850 mm	2400 mm
Maximum poids par vantail 150 kg		

Verre

Hv vantail = H-236 mm	Lv vantail = L1-193 mm
Hv fixe = H-124 mm	Lv fixe = L2-81 mm



Porte 3 vantaux harmonium



Profils

Dessin	Ref	Description	Coupe	Quant	Mesure
	ATI-08	Dormant		2	H
	ATI-06	Traverse		1	L-81 mm
	AXi-12	Traverse		1	L-81
	ATi-65	Ouvrant		6	(consulter)
				6	(consulter)
	ATi-04	Battement		2	(consulter)
	AX-15	Parclose finition		2	L-90 mm
	AX-19	Tringel		2	2H
	---	Parclose		6	(consulter)
				6	(consulter)

Accessoires et Joints

Référence	Description	Quantité
30 92 01 50	Union bouchon porte	2
30 92 01 00	Gouttières	6
30 93 50 21	Hauts battement	2
30 92 03 90	Equerre porte	12
---	Kit harmonium (3+0)	1
30 92 01 20	Jeu fermeture C.E.	1
30 96 00 28	Equerre d'alignement	12
30 96 00 15	Equerre ouvrant extérieur	12
30 93 00 90	Joint extérieur	2L+6H
30 93 05 10	Joint central	2L+4H
30 93 01 20	Joint intérieur	2L+6H
---	Joint extérieur verre	2L+6H
---	Joint intérieur verre	2L+6H

	Minimum	Maximum
Largeur vantail	600 mm	900 mm
Hauteur vantail	850 mm	2400 mm
Maximum poids par vantail 80 kg		

Verre

Hv = consulter	Lv F1 = consulter
	Lv F2 = consulter

