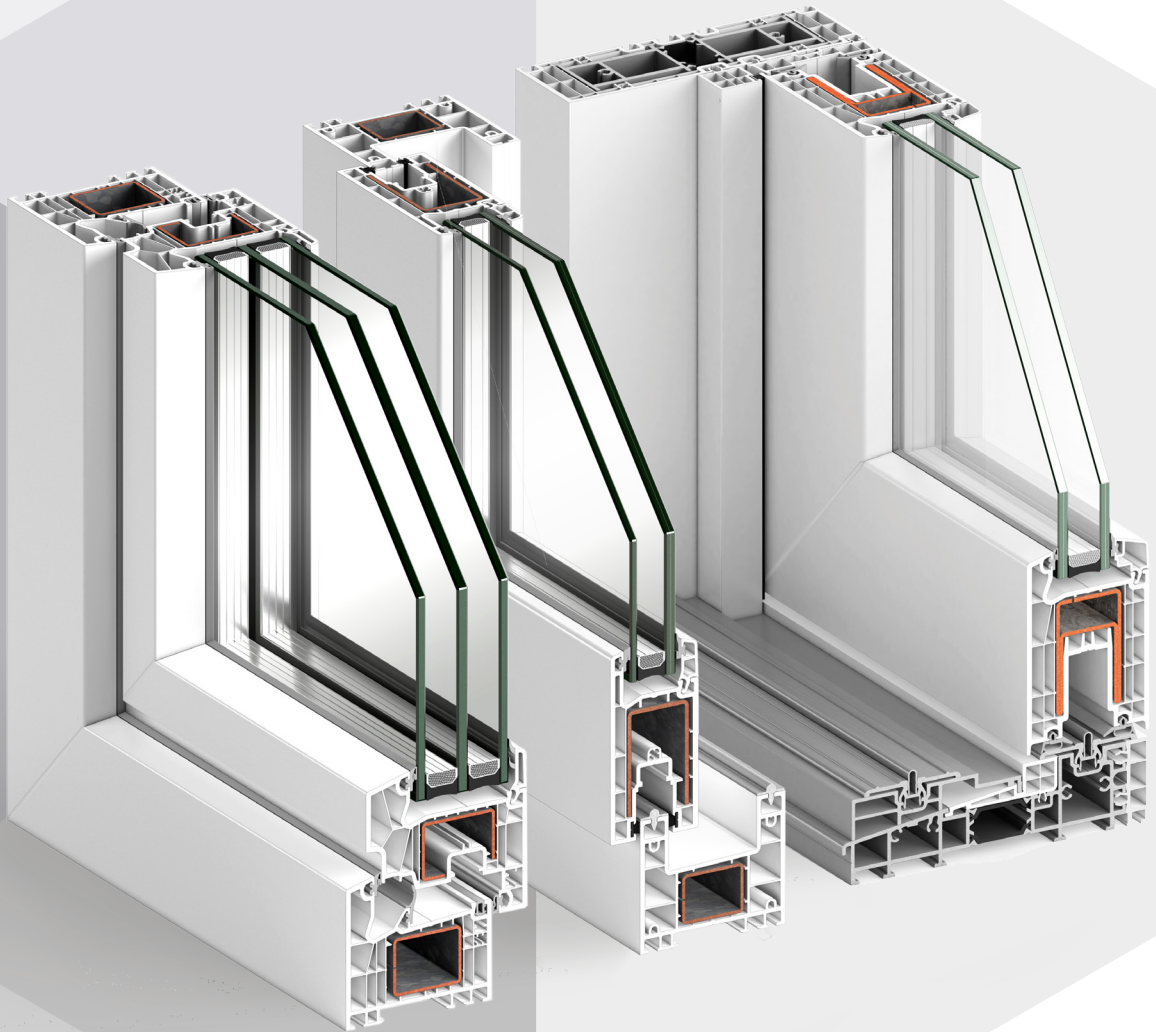


SISTEMAS DE VENTANAS DE PVC

SISTEMAS JANELAS DE PVC
SYSTÈMES FENÊTRES EN PVC
PVC WINDOW SYSTEMS



STRUGAL



AENOR

GlobalEPD
A VERIFIED ENVIRONMENTAL DECLARATION

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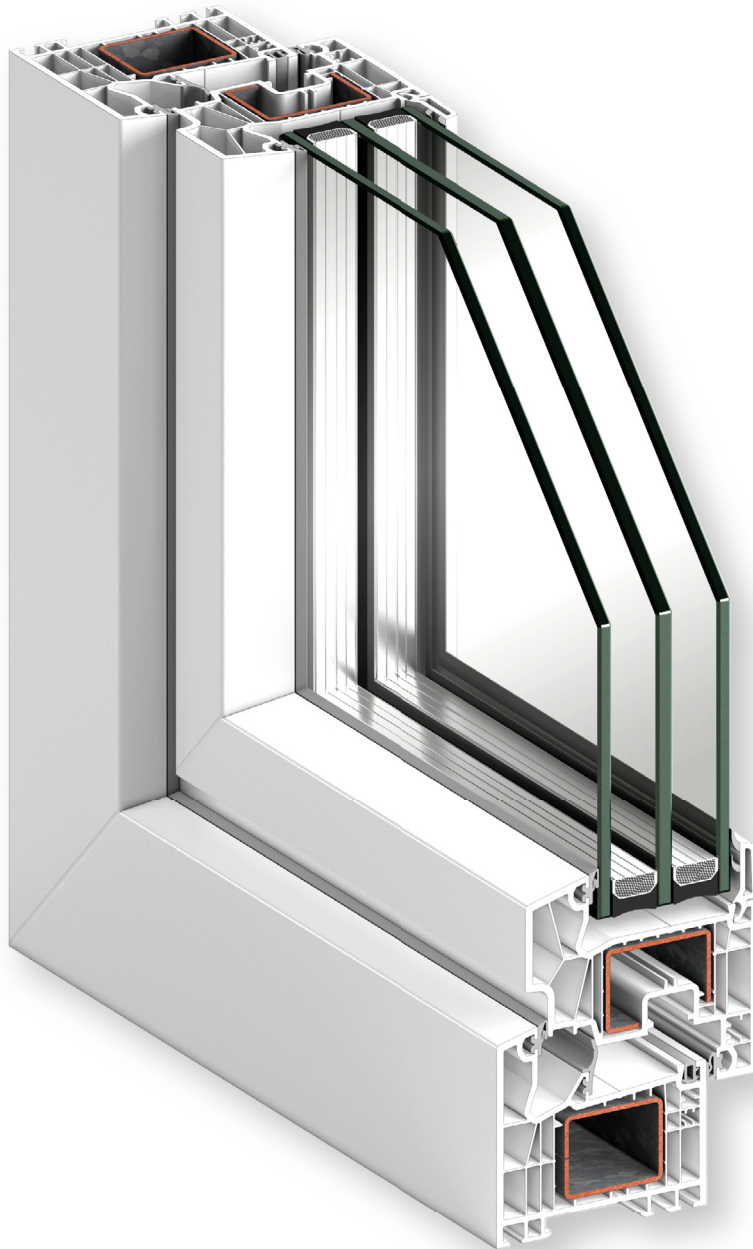
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Fenêtres et portes à charnières alliant efficacité et design

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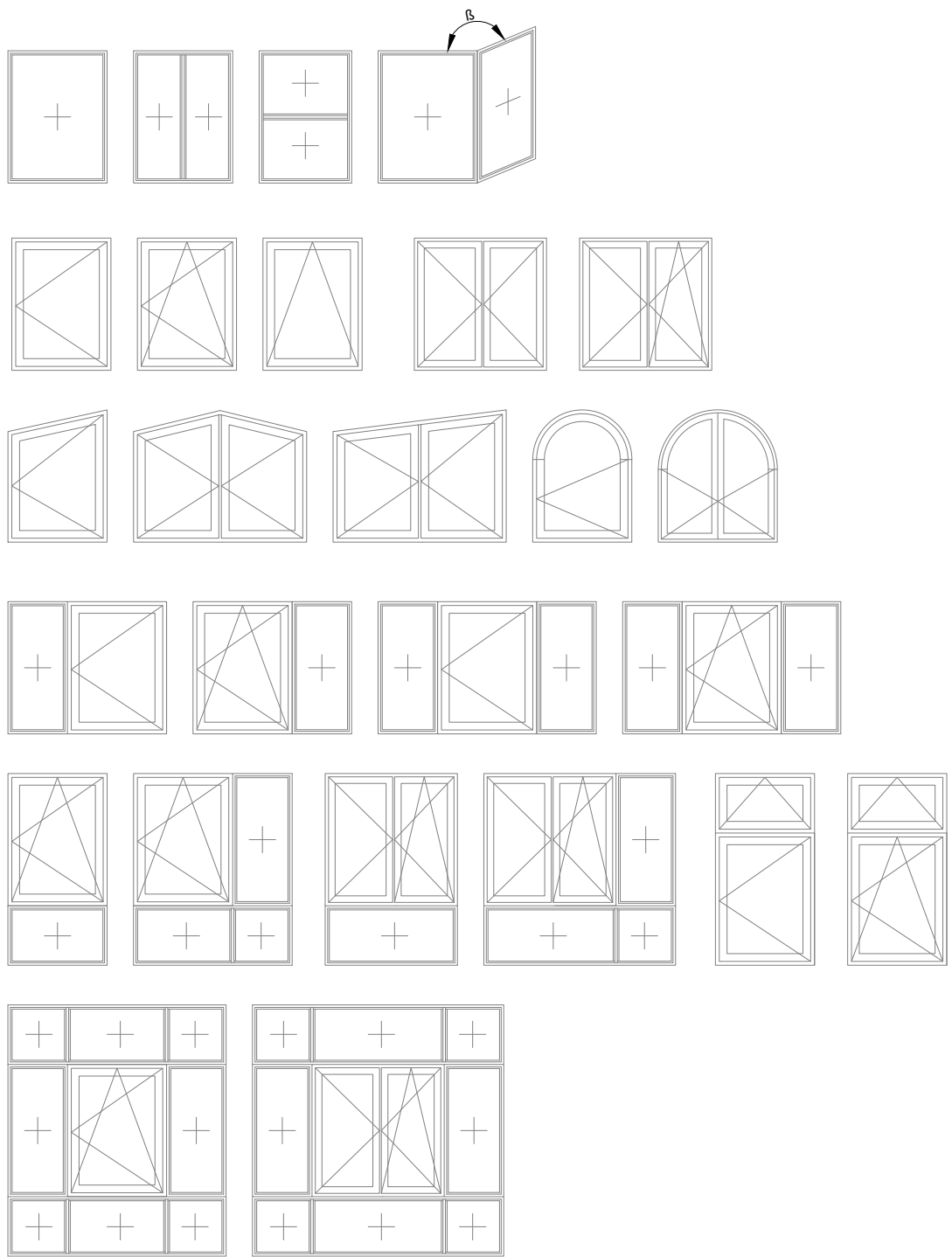
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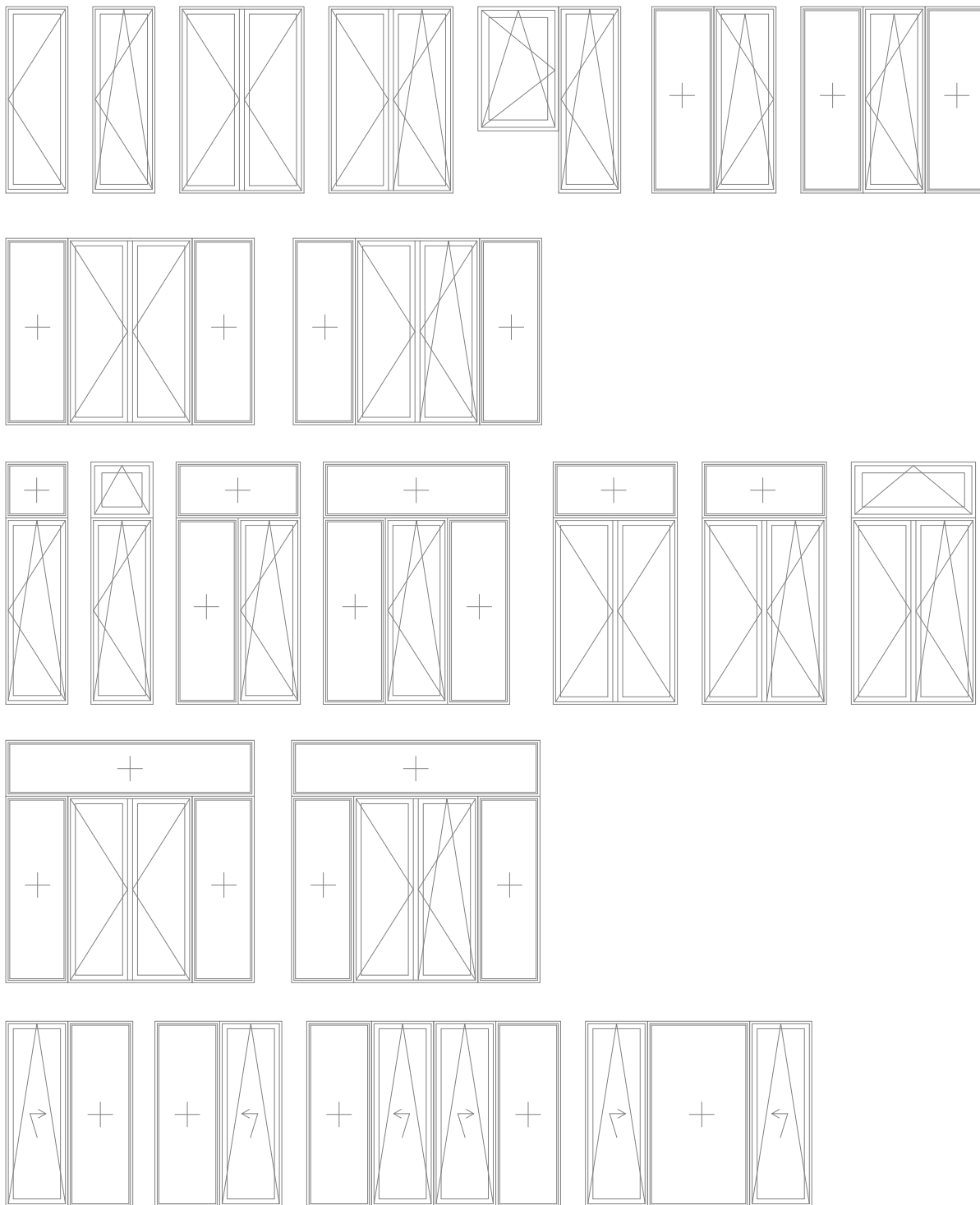
CARACTERÍSTICAS TÉCNICAS

Características técnicas
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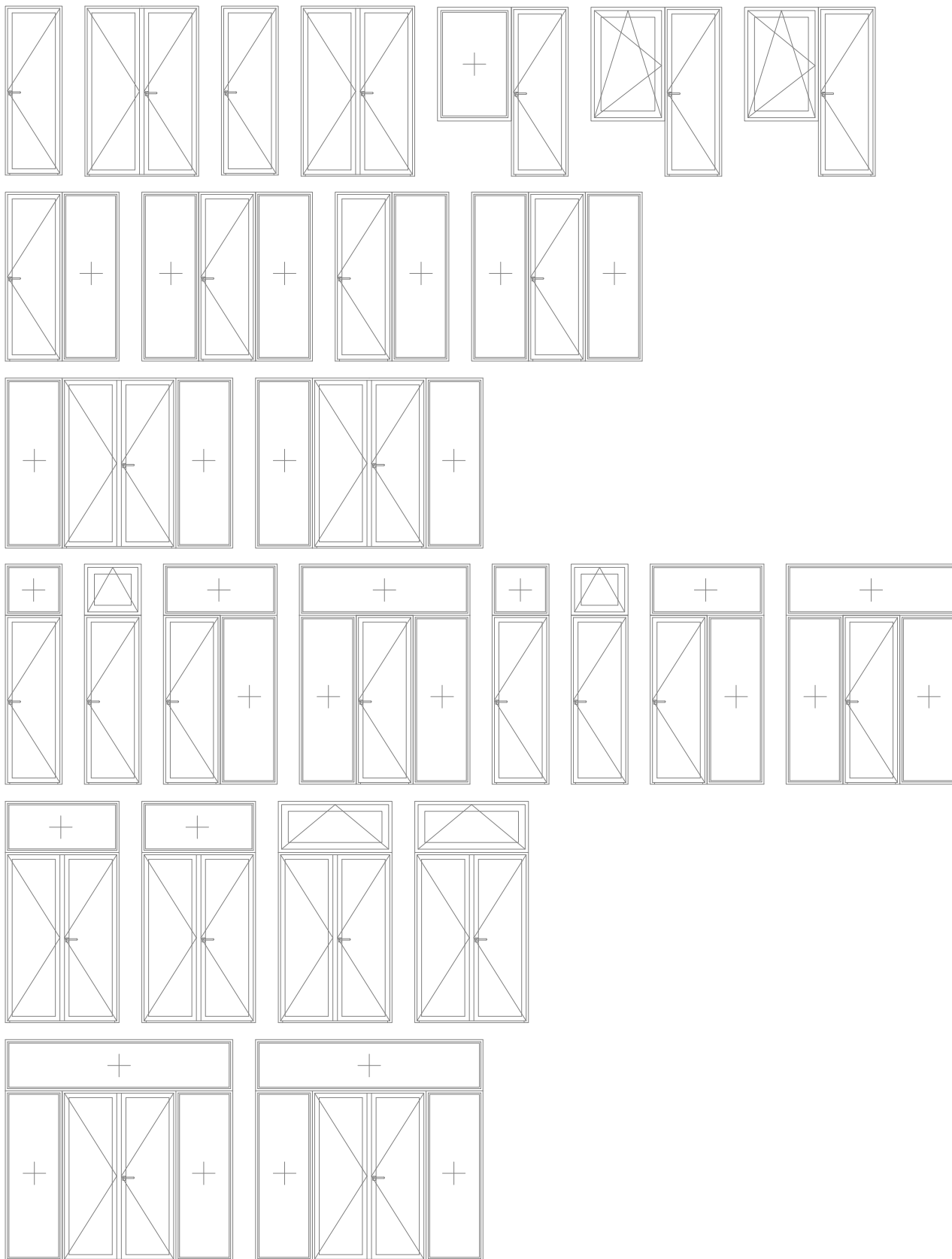
Posibles aperturas en ventana | Possíveis aberturas em janela | Ouvertures possibles pour fenêtres | Possible window openings



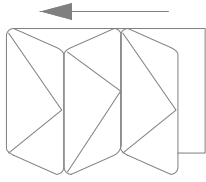
Posibles aperturas en balconera | Possíveis aberturas em sacada | Ouvertures possibles pour portes-fenêtres | Possible balcony door openings



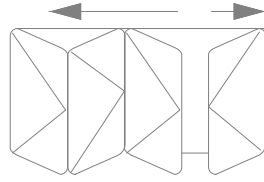
Posibles aperturas en puerta | Possíveis aberturas em porta | Ouvertures possibles pour portes | Possible door openings



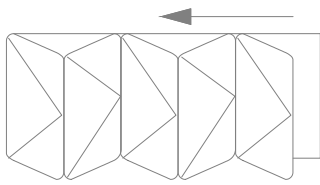
Posibles aperturas en puerta plegable | Possíveis aberturas em porta de fole | Ouvertures possibles pour portes repliables | Possible folding door openings



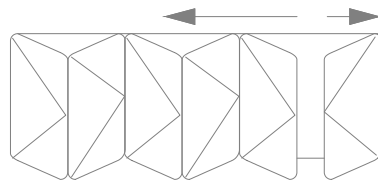
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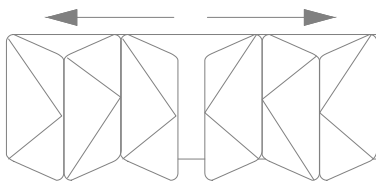
431



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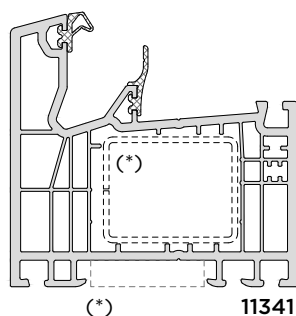
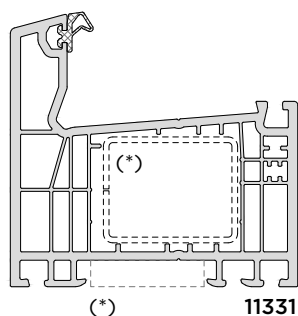
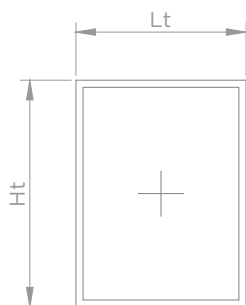


651



633

Dimensiones límite para ventanas fijas | Dimensões limite para janelas fixas | Dimensions limites pour châssis fixes | Limit dimensions for fixed windows



(*) Refuerzos. Ver tablas
 (*) Reforços. Ver tabelas
 (*) Renforts. Voir tableaux
 (*) Reinforcements. See tables



(*) En la transmisión de cargas a la obra es recomendable calzar en la vertical de posición de los asientos del vidrio.
 (*) Na transmissão de cargas à obra é recomendável calçar na vertical de posição dos apoios do vidro.
 (*) Dans la transmission des charges à la maçonnerie, il est recommandé de caler sur la verticale de position des appuis du vitrage.
 (*) When transmitting loads to the building structure, it is recommended to place shims vertically aligned with the glass setting blocks.

	LxH máx.	L máx.	H máx.
Perfiles en Blanco Perfis em branco	6,5 m ²	4.000	2.500
Perfiles de Color Perfis em cor	5,5 m ²	3.500	2.500

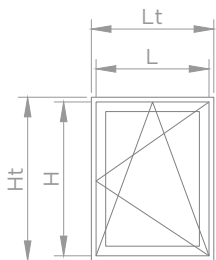
Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1689		1,5 < 160 kg
////	1686		1,5 < 120 kg

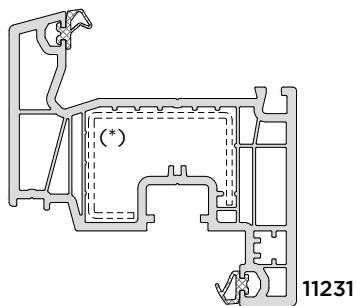
Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1689		1,5 < 160 kg
////	1686		1,5 < 120 kg

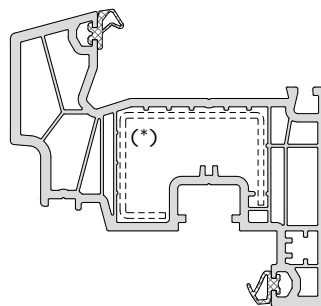
Dimensiones límite para ventana apertura interior 1 hoja | Dimensões limite para janela abertura interior 1 folha | Dimensions limites pour fenêtre ouverture intérieure 1 vantail | Limit dimensions for 1-sash inward opening window



L_{min.} = 360 mm



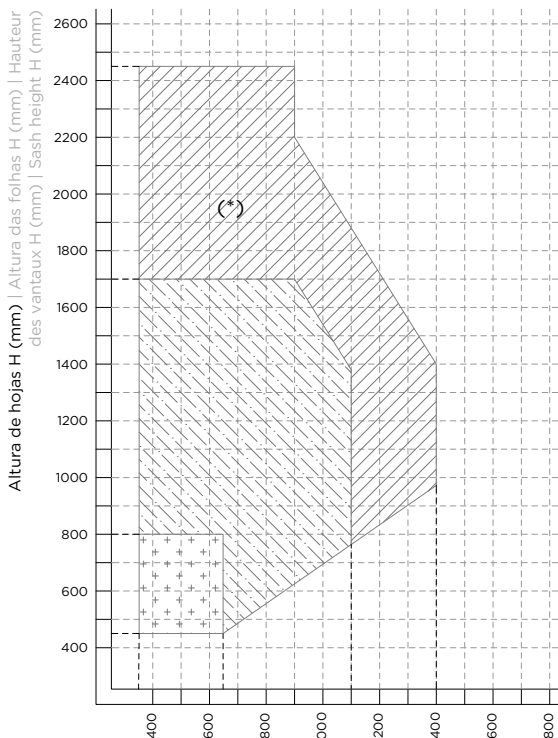
11231



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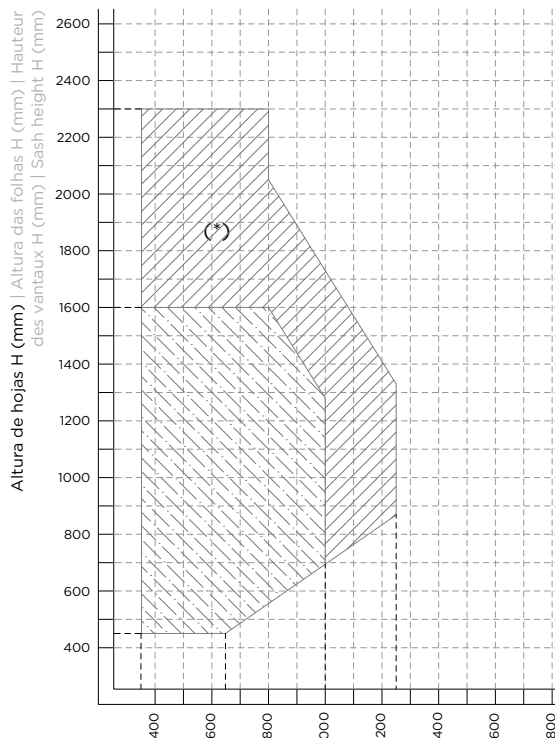
(*) Refuerzos. Ver tablas
 (*) Reforços. Ver tabelas
 (*) Renforts. Voir tableaux
 (*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

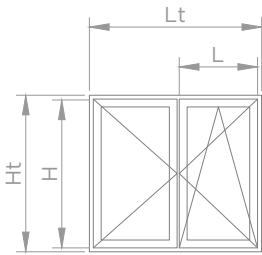


Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

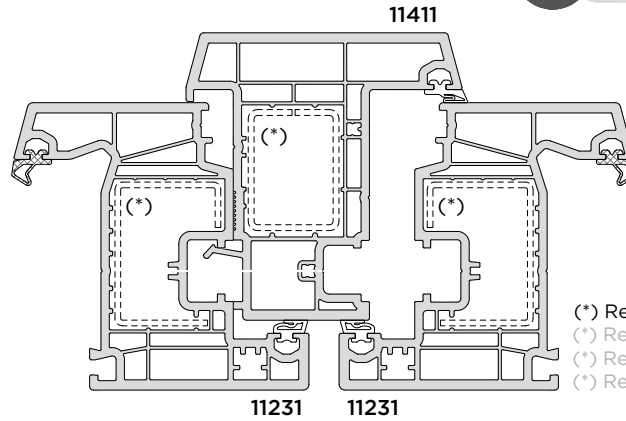
Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	< 55 kg
////	1690	1,5	< 100 kg
////	1668	PH1.0 1,5	< 100 kg
////	(*) 1690 ó 1668 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 ó 1668 + Aplicação de um cordão de colagem de vidro à folha.		< 130 kg (*)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	< 55 kg
////	1690	1,5	< 100 kg
////	1668	PH1.0 1,5	< 100 kg
////	(*) 1690 ó 1668 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 ó 1668 + Aplicação de um cordão de colagem de vidro à folha.		< 130 kg (*)

Dimensiones límite para ventana apertura interior 2 hojas | Dimensões limite para janela abertura interior 2 folhas | Dimensions limites pour fenêtre ouverture intérieure 2 vantaux | Limit dimensions for 2-sash inward opening window

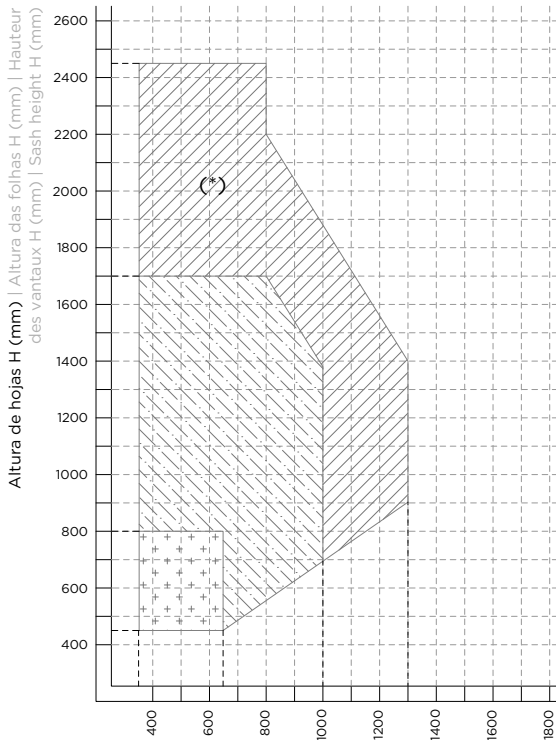


L_{min.} = 360 mm



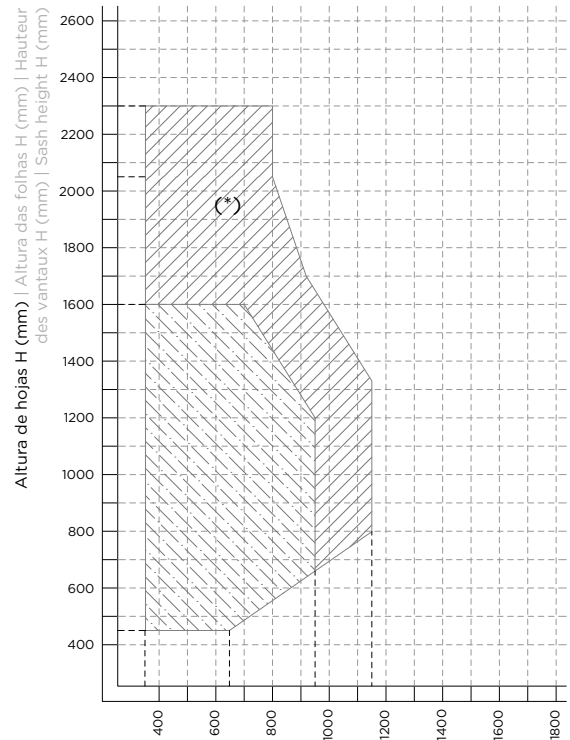
(*) Refuerzos. Ver tablas
 (*) Reforços. Ver tabelas
 (*) Renforts. Voir tableaux
 (*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

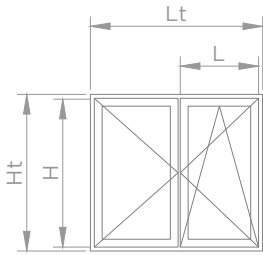


Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF. X	X	< 55 kg
////	1690	1,5	< 100 kg
////	(*) 1690 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 + Aplicação de um cordão de colagem de vidro à folha.		< 130 kg (*)
////	1396	1,5	< 130 kg

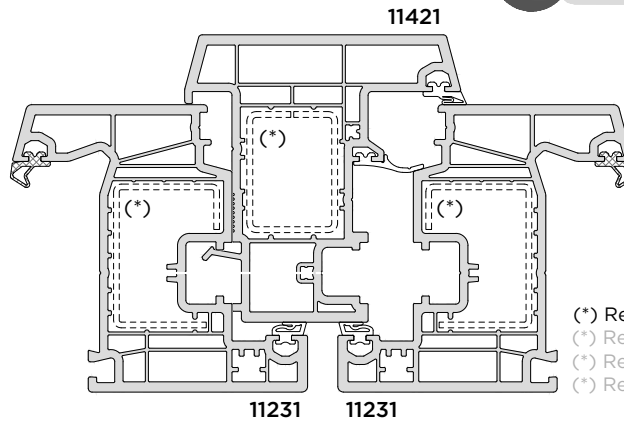
Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF. X	X	< 55 kg
////	1690	1,5	< 100 kg
////	(*) 1690 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 + Aplicação de um cordão de colagem de vidro à folha.		< 130 kg (*)
////	1396	1,5	< 130 kg

Dimensiones límite para ventana apertura interior 2 hojas - triple junta | Dimensões limite para janela abertura interior 2 folhas - junta tripla | Dimensions limites pour fenêtre ouverture intérieure 2 vantaux - triple joint | Limit dimensions for 2-sash inward opening window - triple gasket



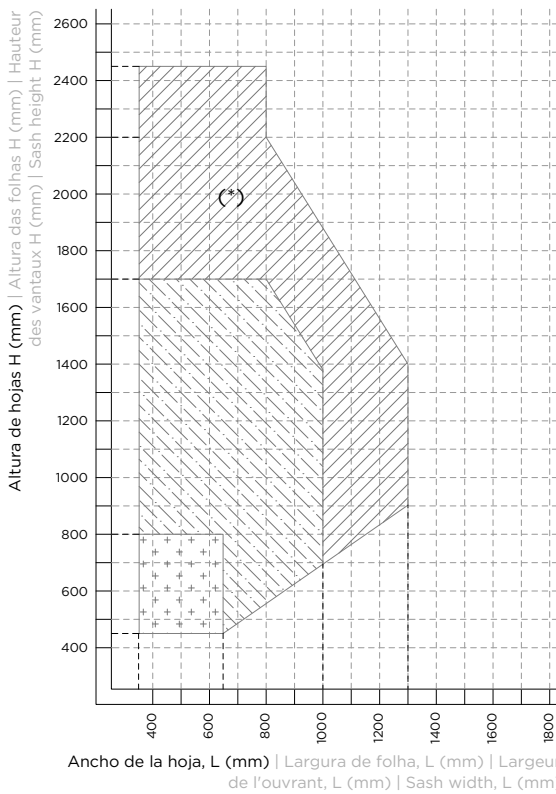
MAX 130 kg

L_{min.} = 360 mm

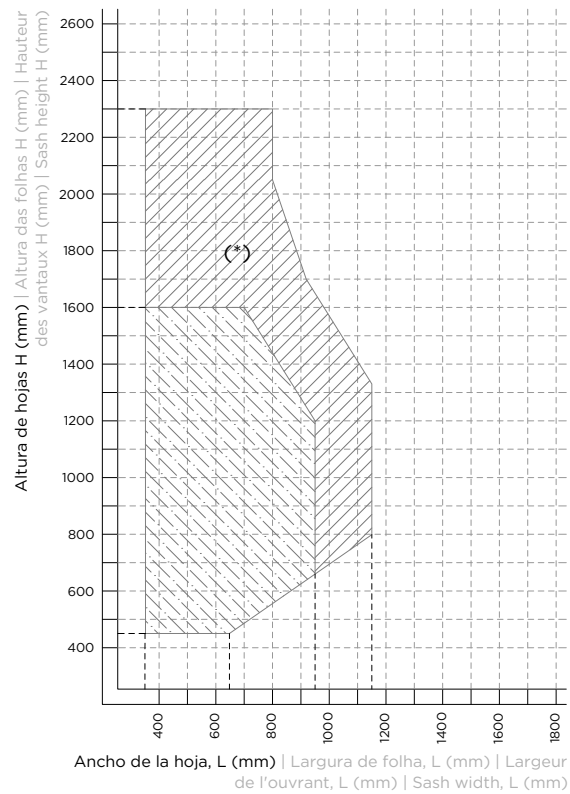


(*) Refuerzos. Ver tablas
 (*) Reforços. Ver tabelas
 (*) Renforts. Voir tableaux
 (*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



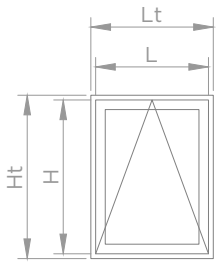
Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles



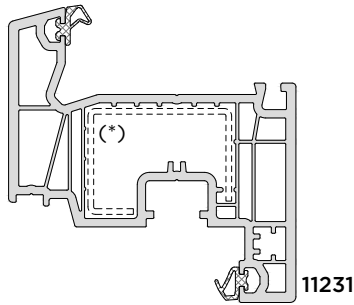
Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	< 55 kg
////	1690	1,5	< 100 kg
////	1668	PH1.0 1,5	< 100 kg
////	(*) 1690 ó 1668 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 ó 1668 + Aplicação de um cordão de colagem de vidro à folha.		< 130 kg
////	1396	1,5	< 130 kg

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	< 55 kg
////	1690	1,5	< 100 kg
////	1668	PH1.0 1,5	< 100 kg
////	(*) 1690 ó 1668 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 ó 1668 + Aplicação de um cordão de colagem de vidro à folha.		< 130 kg
////	1396	1,5	< 130 kg

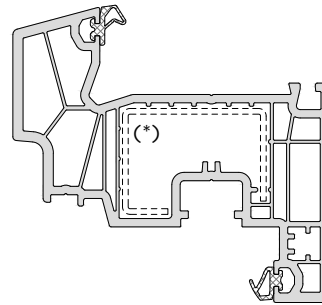
Dimensiones límite para ventana abatible 1 hoja | Dimensões limite para janela batente 1 folha | Dimensions limites pour fenêtre abattante 1 vantail | Limit dimensions for 1-sash bottom-hung (projected) window



L_{min.} = 360 mm



11231

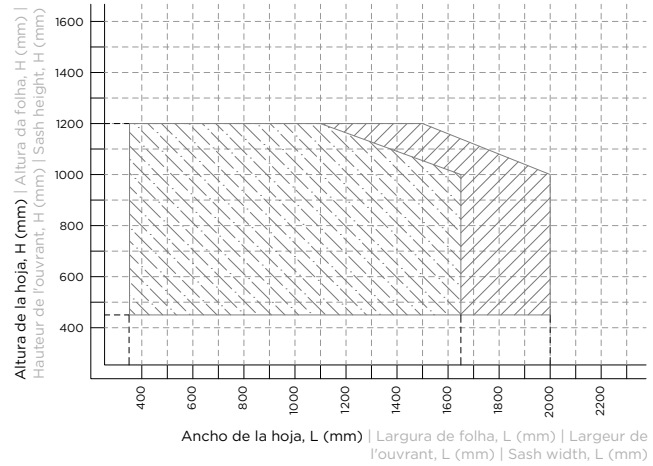
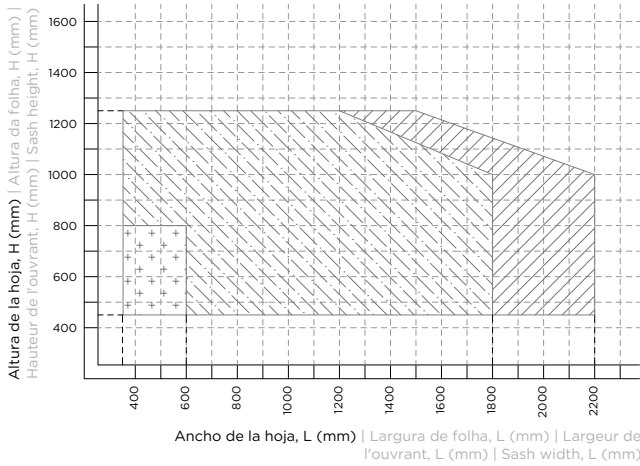


11241

(*) Refuerzos. Ver tablas
 (*) Reforços. Ver tabelas
 (*) Renforts. Voir tableaux
 (*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profils en blanc | White profiles

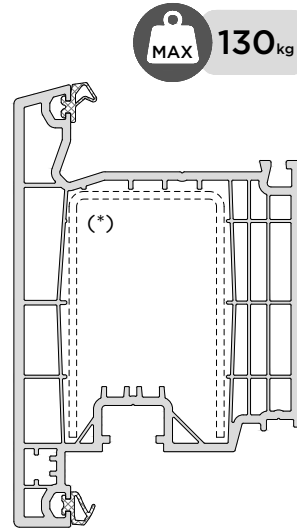
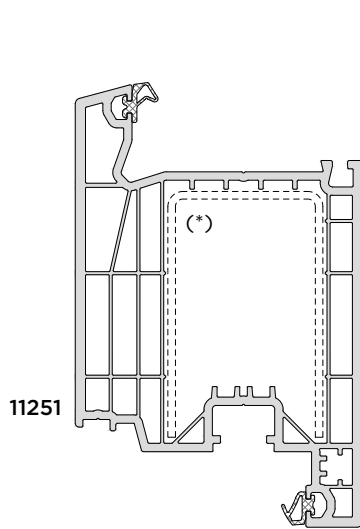
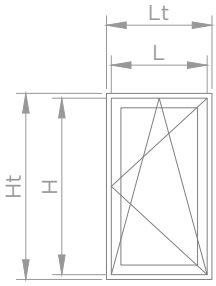
Perfiles en color | Perfis em cor | Profils en couleur | Colored profiles



Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+	SIN REF. SEM REF.	X	< 55 kg
+	1690	1,5	< 70 kg
+	1668	1,5	< 70 kg
+	(*) 1690 ó 1668 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 ó 1668 + Aplicação de um cordão de colagem de vidro à folha.		< 80 kg

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+	SIN REF. SEM REF.	X	< 55 kg
+	1690	1,5	< 70 kg
+	1668	1,5	< 70 kg
+	(*) 1690 ó 1668 + Aplicación de un cordón de pegado de vidrio a la hoja. (*) 1690 ó 1668 + Aplicação de um cordão de colagem de vidro à folha.		< 80 kg

Dimensiones límite para balconera apertura interior y exterior 1 hoja | Dimensões limite para sacada abertura interior e exterior 1 folha | Dimensions limites pour porte-fenêtre ouverture intérieure et extérieure 1 vantail | Limit dimensions for 1-sash inward and outward opening balcony door



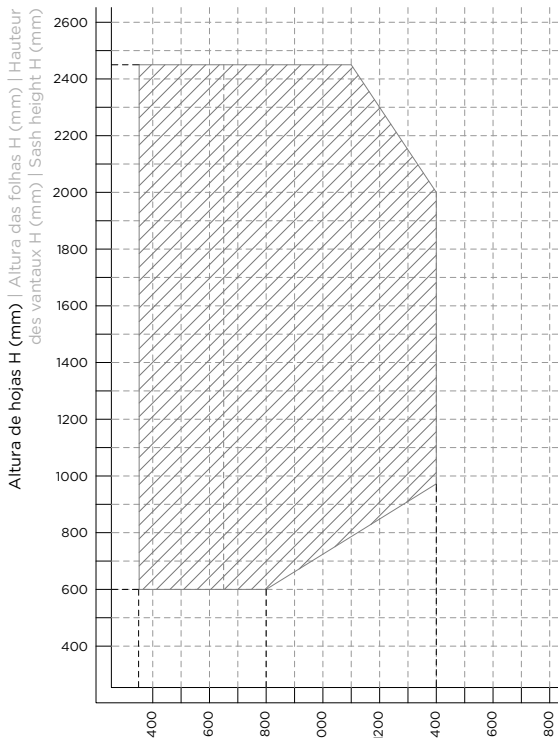
MAX 130 kg



$L_{min.} = 360 \text{ mm}$

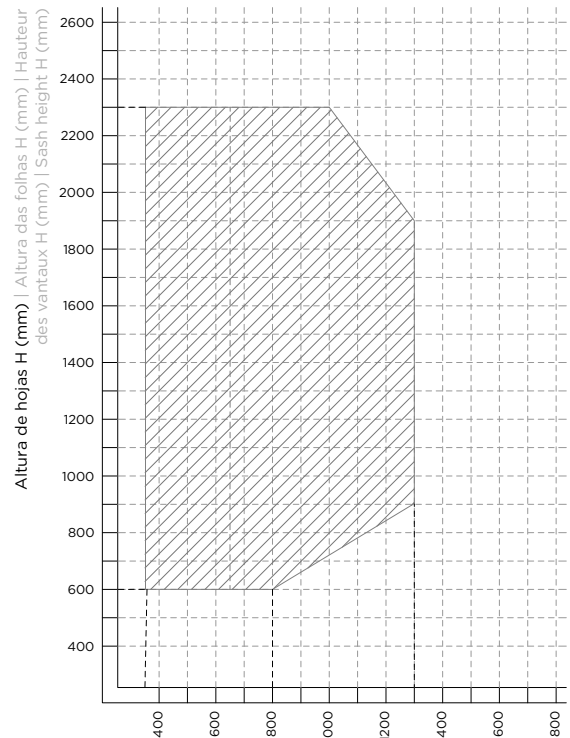
(*) Refuerzos. Ver tablas
 (*) Reforços. Ver tabelas
 (*) Renforts. Voir tableaux
 (*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

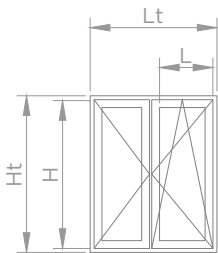


Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 130 kg

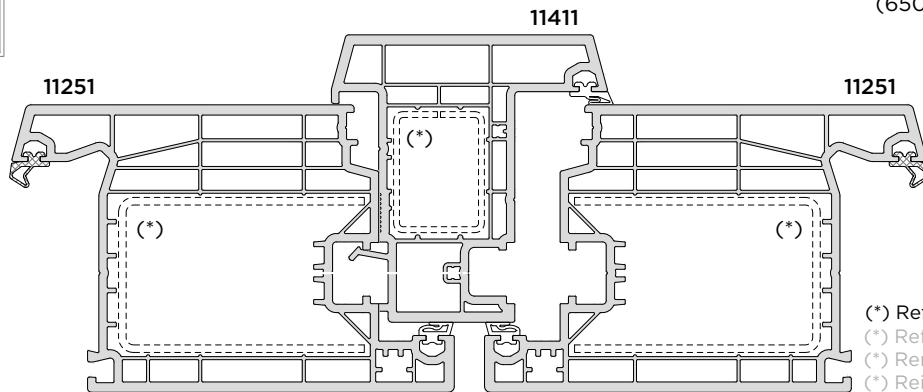
Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 130 kg

Dimensiones límite para balconera apertura interior y exterior 2 hojas | Dimensões limite para sacada abertura interior e exterior 2 folhas | Dimensions limites pour porte-fenêtre ouverture intérieure et extérieure 2 vantaux | Limit dimensions for 2-sash inward and outward opening balcony door



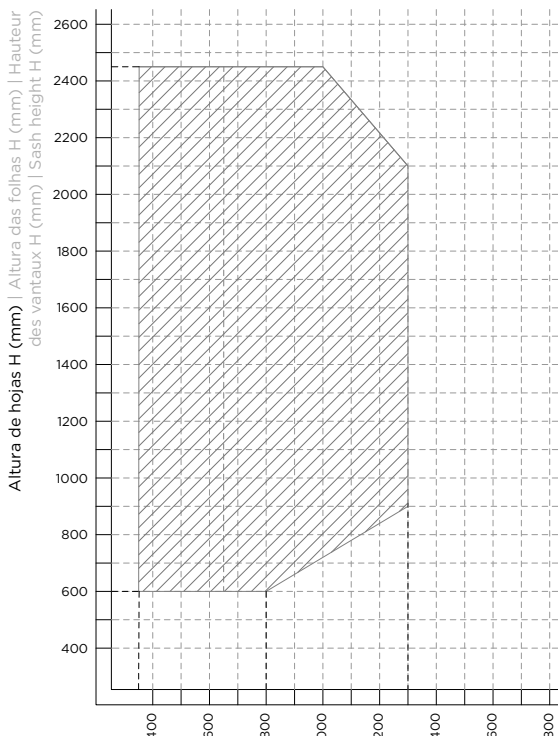
L_{min.} = 360 mm

(650 mm - hoja paso)
(650 mm - folha passo)



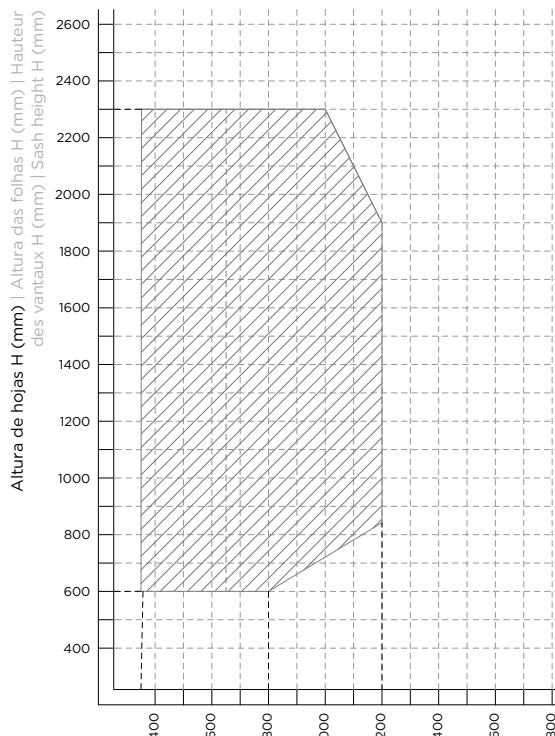
(*) Refuerzos. Ver tablas
(*) Reforços. Ver tabelas
(*) Renforts. Voir tableaux
(*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

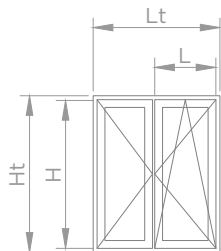


Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

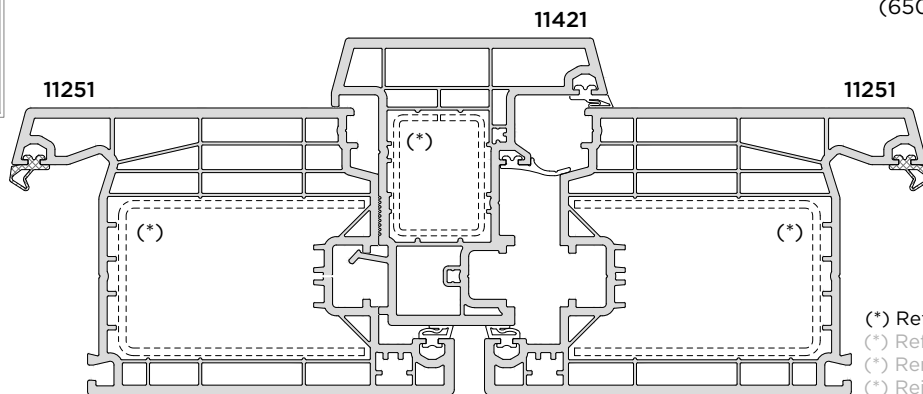
Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 130 kg
////	1396	1,5	< 130 kg

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 130 kg
////	1396	1,5	< 130 kg

Dimensiones límite para balconera apertura interior y exterior 2 hojas - triple junta | Dimensões limite para sacada abertura interior e exterior 2 folhas - junta tripla | Dimensions limites pour porte-fenêtre ouverture intérieure et extérieure 2 vantaux - triple joint | Limit dimensions for 2-sash inward and outward opening balcony door - triple gasket

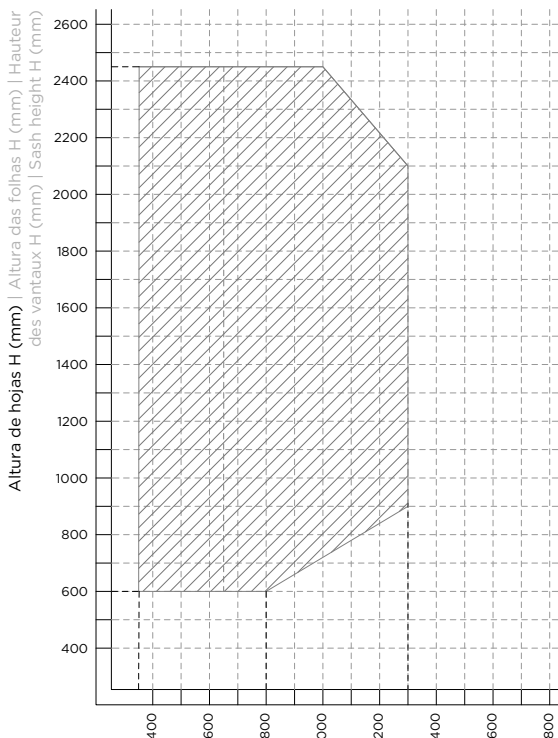


$L_{min.} = 360 \text{ mm}$
(650 mm - hoja paso)
(650 mm - folha passo)



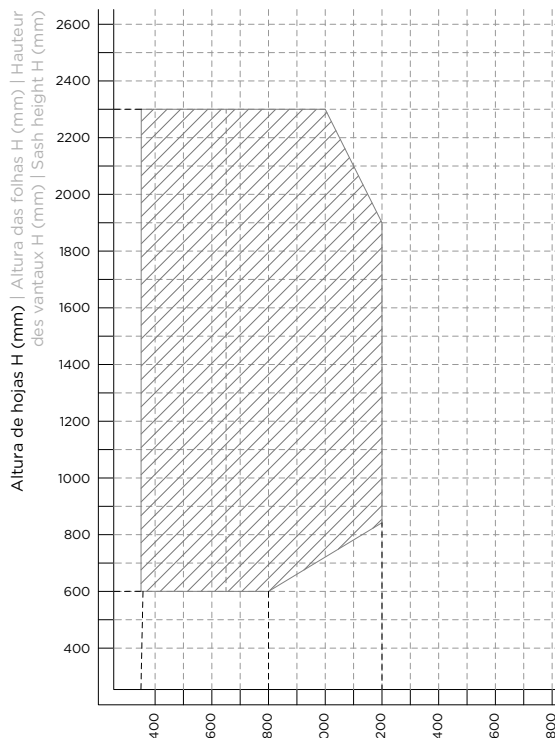
(*) Refuerzos. Ver tablas
(*) Reforços. Ver tabelas
(*) Renforts. Voir tableaux
(*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

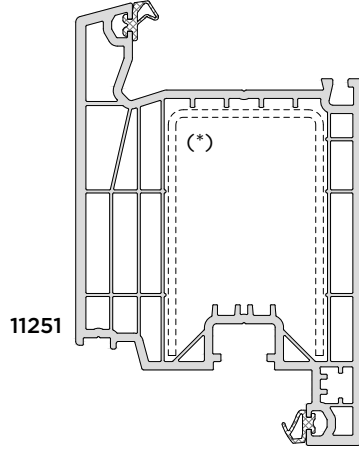
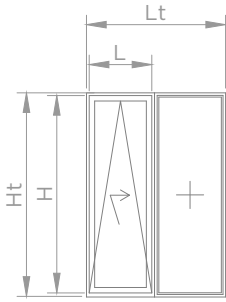


Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 130 kg
////	1396	1,5	< 130 kg

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 130 kg
////	1396	1,5	< 130 kg

Dimensiones límite para balconera apertura osciloparalela 1 hoja | Dimensões limite para sacada abertura oscilo-paralela 1 folha | Dimensions limites pour porte-fenêtre coulissante à frappe (oscillo-parallèle) 1 vantail | Limit dimensions for 1-sash tilt-and-slide balcony door



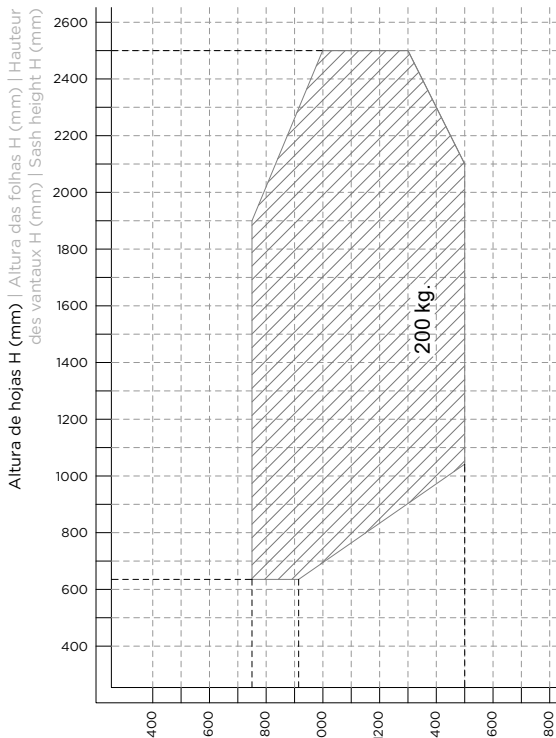
MAX
160 kg
200 kg



$L_{min.} = 760 \text{ mm}$
 $L : H < 2,5:1$

(*) Refuerzos. Ver tablas
(*) Reforços. Ver tabelas
(*) Renforts. Voir tableaux
(*) Reinforcements. See tables

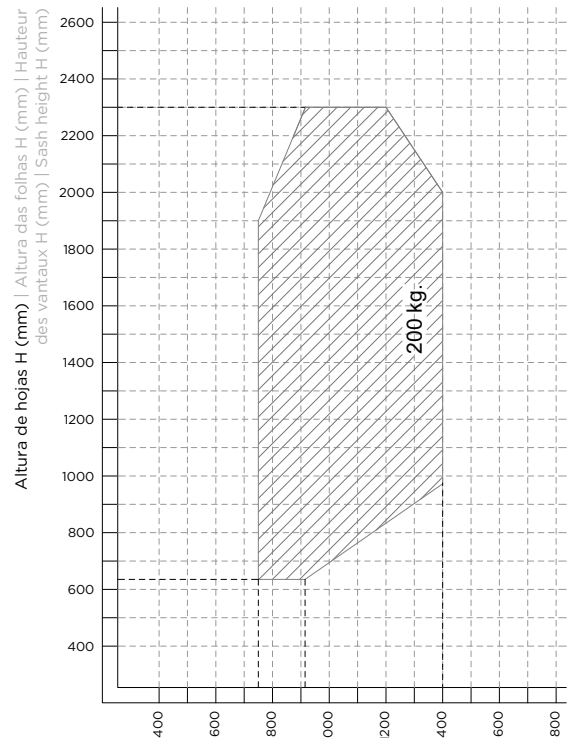
Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 200 kg

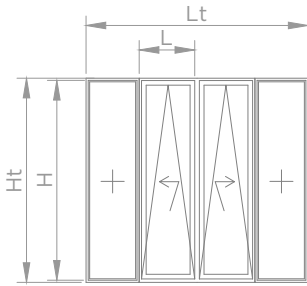
Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 200 kg

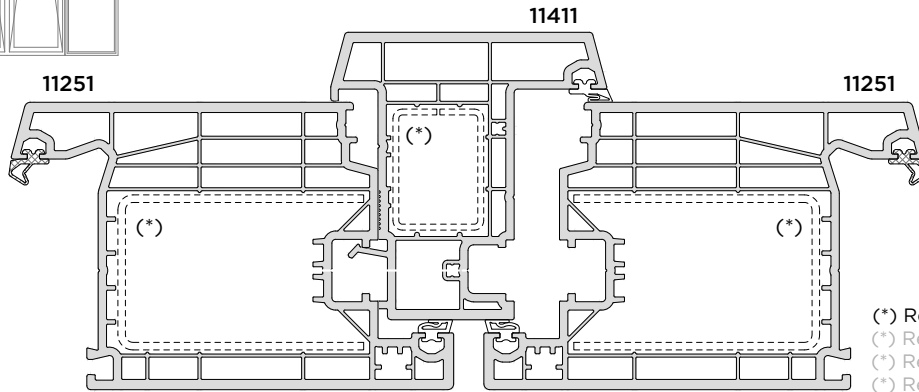
Dimensiones límite para balconera apertura osciloparalela 2 hojas | Dimensões limite para sacada abertura oscilo-paralela 2 folhas | Dimensions limites pour porte-fenêtre coulissante à frappe (oscillo-parallèle) 2 vantaux | Limit dimensions for 2-sash tilt-and-slide balcony door



MAX 160 kg
MAX 200 kg

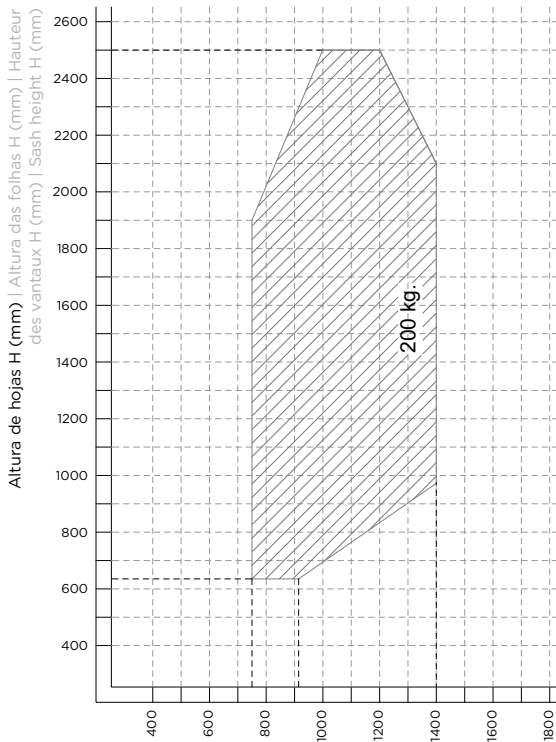


$L_{min.} = 760 \text{ mm}$
(800 mm - hoja pasiva)
(800 mm - folha passiva)
 $L : H < 2,5:1$



(* Refuerzos. Ver tablas
(* Reforços. Ver tabelas
(* Renforts. Voir tableaux
(* Reinforcements. See tables

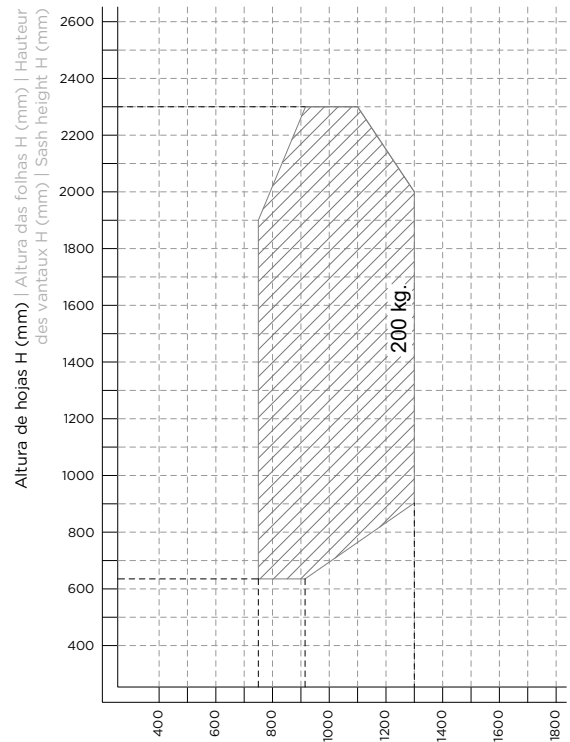
Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 200 kg
////	1396	1,5	< 200 kg

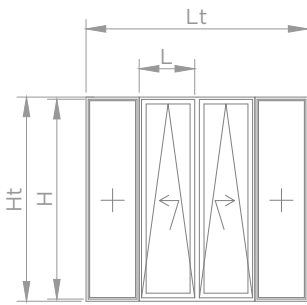
Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 200 kg
////	1396	1,5	< 200 kg

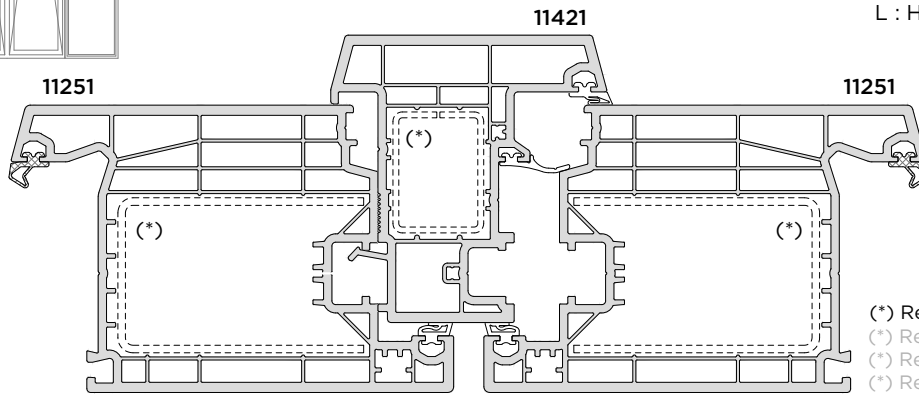
Dimensiones límite para balconera apertura osciloparalela 2 hojas - triple junta | Dimensões limite para sacada abertura oscilo-paralela 2 folhas - junta tripla | Dimensions limites pour porte-fenêtre coulissante à frappe (oscillo-parallèle) 2 vantaux - triple joint | Limit dimensions for 2-sash tilt-and-slide balcony door - triple gasket



MAX 160 kg
200 kg

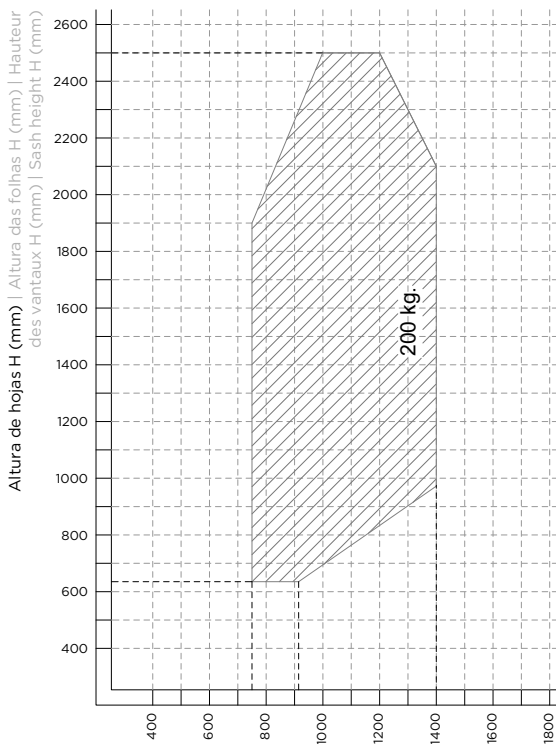


$L_{min.} = 760 \text{ mm}$
(800 mm - hoja pasiva)
(800 mm - folha passiva)
 $L : H < 2,5:1$



(* Refuerzos. Ver tablas
(* Reforços. Ver tabelas
(* Renforts. Voir tableaux
(* Reinforcements. See tables

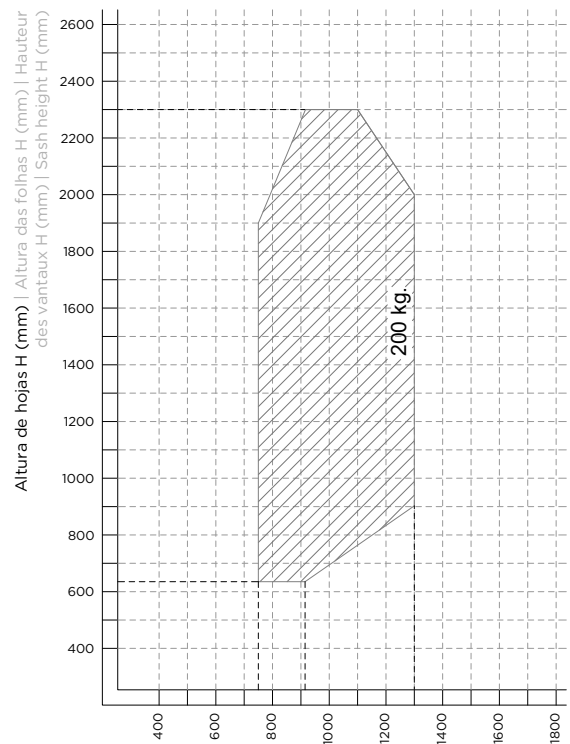
Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espeor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 200 kg
////	1396	1,5	< 200 kg

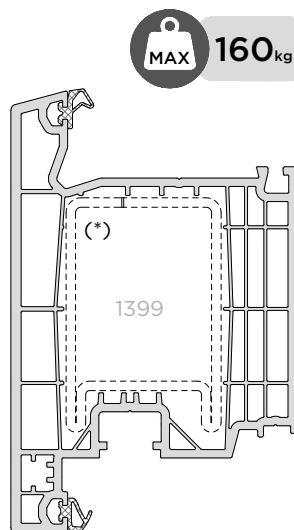
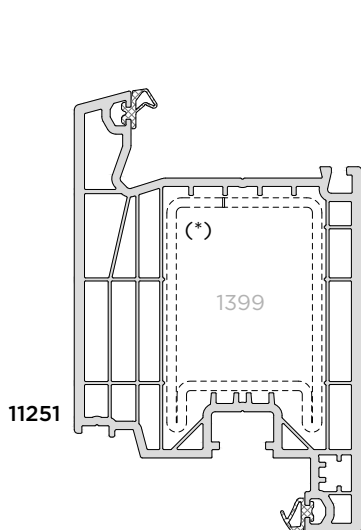
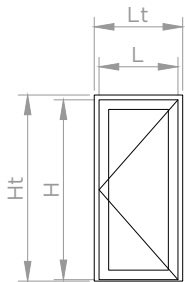
Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espeor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1676	2,0	< 200 kg
////	1396	1,5	< 200 kg

Dimensiones límite para puertas apertura interior y exterior 1 hoja | Dimensões limite para portas abertura interior e exterior 1 folha | Dimensions limites pour portes ouverture intérieure et extérieure 1 vantail | Limit dimensions for 1-sash inward and outward opening door



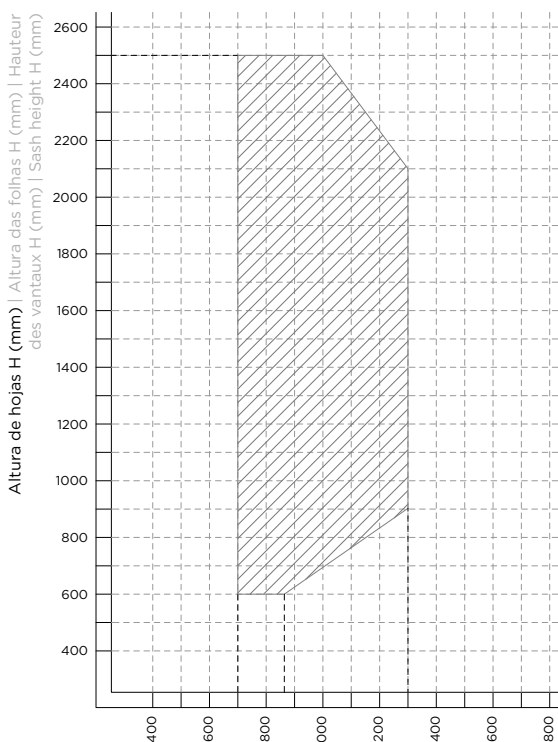
MAX 160 kg



$L_{min.} = 700 \text{ mm}$

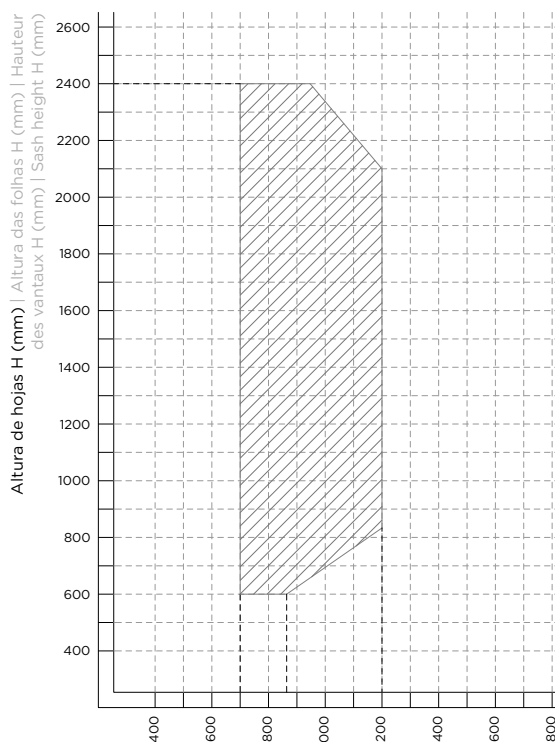
(*) Refuerzos. Ver tablas
 (*) Reforços. Ver tabelas
 (*) Renforts. Voir tableaux
 (*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

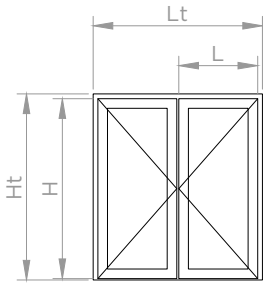


Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

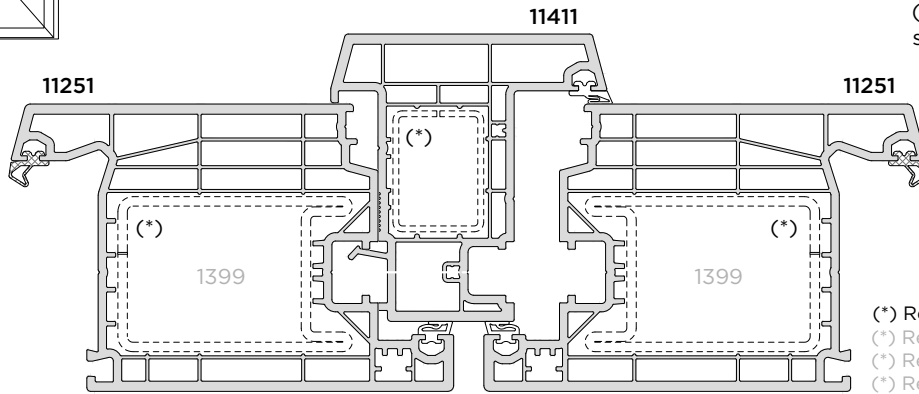
Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1399	2,5	< 160 kg

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1399	2,5	< 160 kg

Dimensiones límite para puertas apertura interior y exterior 2 hojas | Dimensões limite para portas abertura interior e exterior 2 folhas | Dimensions limites pour portes ouverture intérieure et extérieure 2 vantaux | Limit dimensions for 2-sash inward and outward opening doors

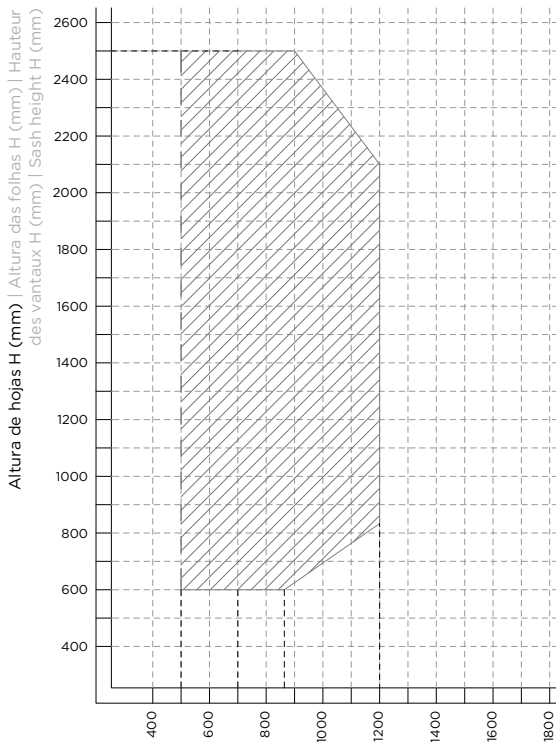


$L_{min.} = 700 \text{ mm}$
(500 mm - hoja secundaria)
(500 mm - folha secundária)



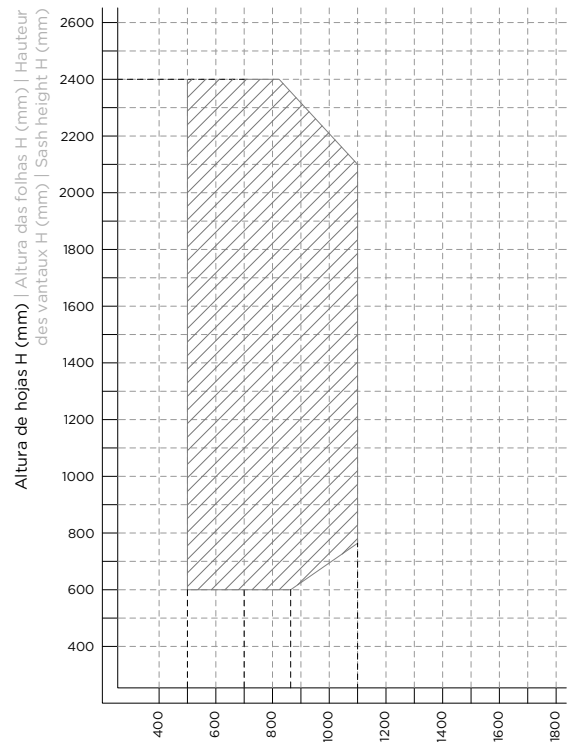
(*) Refuerzos. Ver tablas
(*) Reforços. Ver tabelas
(*) Renforts. Voir tableaux
(*) Reinforcements. See tables

Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles

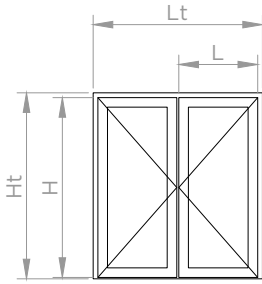


Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

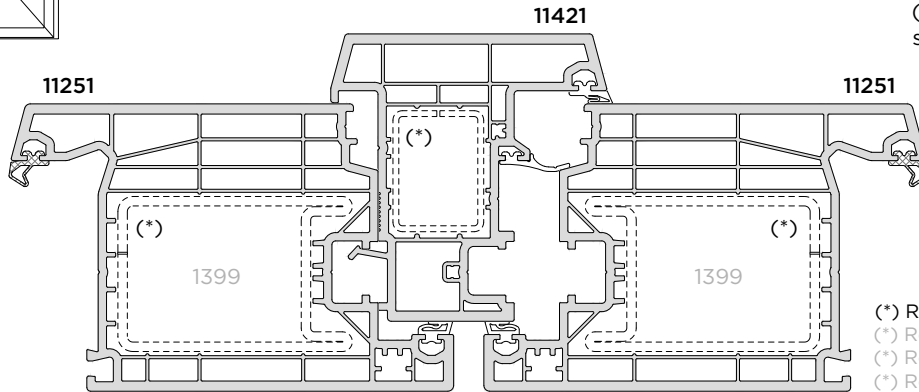
Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1399	2,5	< 160 kg
////	1396	1,5	< 160 kg

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1399	2,5	< 160 kg
////	1396	1,5	< 160 kg

Dimensiones límite para puertas apertura interior y exterior 2 hojas - triple junta | Dimensões limite para portas abertura interior e exterior 2 folhas - junta tripla | Dimensions limites pour portes ouverture intérieure et extérieure 2 vantaux - triple joint | Limit dimensions for 2-sash inward and outward opening doors - triple gasket

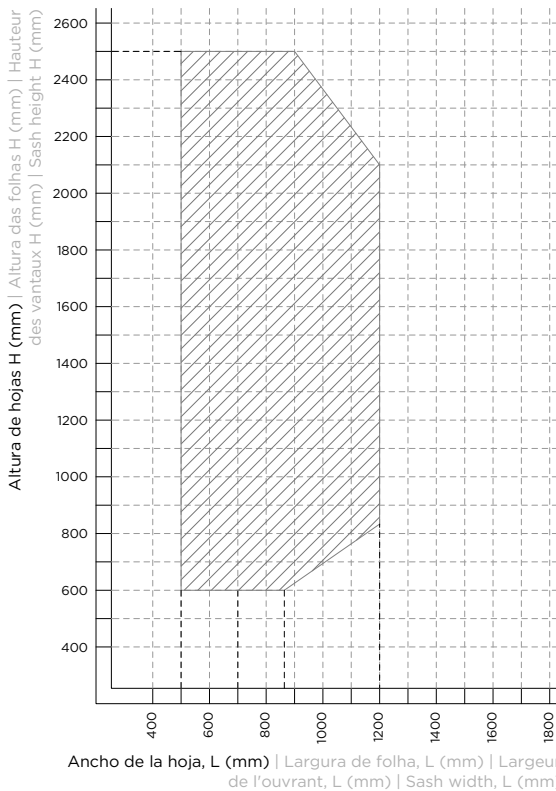


$L_{\min.} = 700 \text{ mm}$
(500 mm - hoja secundaria)
(500 mm - folha secundária)



(*) Refuerzos. Ver tablas
(*) Reforços. Ver tabelas
(*) Renforts. Voir tableaux
(*) Reinforcements. See tables

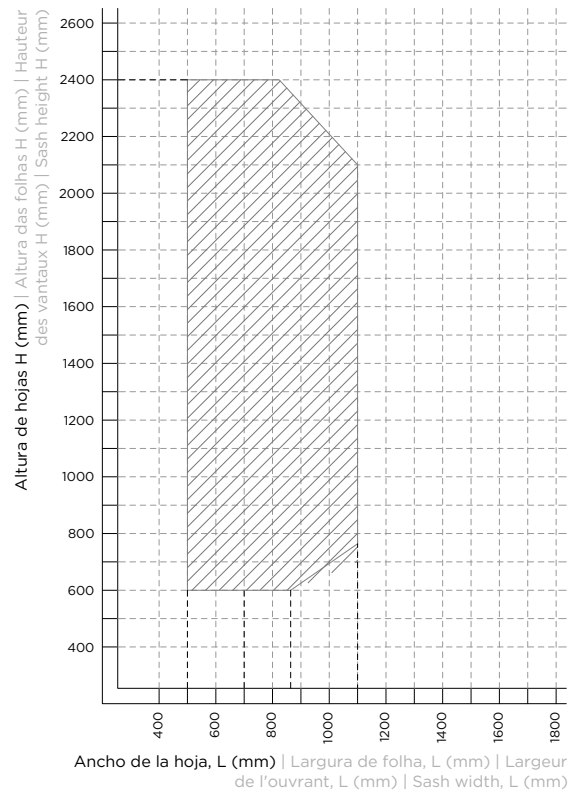
Perfiles en blanco | Perfis em branco | Profilés en blanc | White profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1399	2,5	< 160 kg
////	1396	1,5	< 160 kg

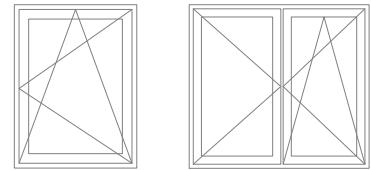
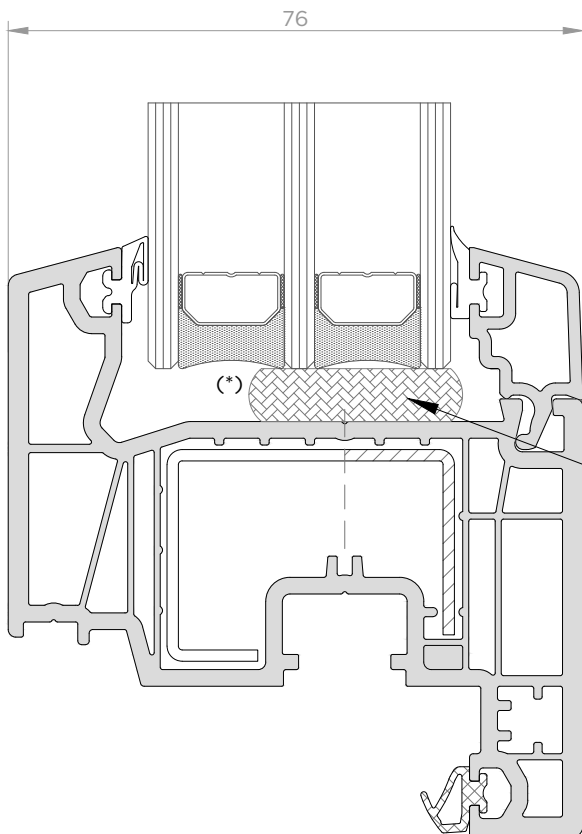
Perfiles en color | Perfis em cor | Profilés en couleur | Colored profiles



Ancho de la hoja, L (mm) | Largura de folha, L (mm) | Largeur de l'ouvrant, L (mm) | Sash width, L (mm)

Refuerzo Reforço Renfort Reinforcement		Espesor Espessura Épaisseur Thickness	Peso fijo Peso fixo Poids fixe Fixed weight
+++++	SIN REF. SEM REF.	X	X
////	1399	2,5	< 160 kg
////	1396	1,5	< 160 kg

Aplicación de pegado a vidrio | Aplicação de colagem ao vidro | Application de collage au vitrage | Glass bonding application



(*) **Cordón de pegado de vidrio a la hoja** | Cordão de colagem do vidro à folha | Cordon de collage du vitrage à l'ouvrant | Glass-to-sash bonding bead



CORDÓN DE SILICONA
 imprimación sobre PVC-U
 activador sobre vidrio
 Compatibilidad con cordón de sellado de las lunas del vidrio.

CORDÃO DE SILICONE
 primário sobre PVC-U
 ativador sobre vidro
 Compatibilidade com o cordão de vedação dos vidros.

CORDON DE SILICONE
 primaire sur PVC-U
 activateur sur verre
 Compatibilité avec le cordon d'étanchéité des vitrages.

SILICONE BEAD
 primer on PVC-U
 activator on glass
 Compatibility with the glass sealing bead.

SILICONA DE PEGADO: VIDRIO - PVC-U.

- SFI 600P (color negro)
- DOWSIL 993 (color negro o blanco), o DOWSIL 3441 (color negro o blanco) o DOWSIL 3552 (color gris).
- SIKASIL WT470, WT480 o WT485 (color negro)
- SOUDABOND DG-2K (color negro)
- Silirub WS (Soudal)

Notas: Bi-componente; tiempo de curado corto (10÷30 min.). Compatible con sellantes de doble acristalamiento. Resistencia UV.

Limpiador: DOWSIL R40. SIKASIL CLEANER 205 (con activador)

Primer: DOWSIL 1200 OS Primer.

SILICONE DE COLAGEM: VIDRO - PVC-U.

- SFI 600P (cor preta)
- DOWSIL 993 (cor preta ou branca), ou DOWSIL 3441 (cor preta ou branca) ou DOWSIL 3552 (cor cinzenta).
- SIKASIL WT470, WT480 ou WT485 (cor preta)
- SOUDABOND DG-2K (cor preta)
- Silirub WS (Soudal)

Notas: Bicomponente; tempo de cura curto (10÷30 min.). Compatível com selantes de vidro duplo. Resistência UV.

Limpiador: DOWSIL R40. SIKASIL CLEANER 205 (com ativador)

Primário: DOWSIL 1200 OS Primer.

SILICONE DE COLLAGE: VERRE - PVC-U.

- SFI 600P (couleur noire)
- DOWSIL 993 (couleur noire ou blanche), ou DOWSIL 3441 (couleur noire ou blanche) ou DOWSIL 3552 (couleur grise)
- SIKASIL WT470, WT480 ou WT485 (couleur noire)
- SOUDABOND DG-2K (couleur noire)
- Silirub WS (Soudal)

Notes: Bicomposant; temps de polymérisation court (10÷30 min.). Compatible avec les mastics de double vitrage. Résistance UV.

Nettoyant: DOWSIL R40. SIKASIL CLEANER 205 (avec activateur)

Primaire: DOWSIL 1200 OS Primer.

BONDING SILICONE: GLASS - PVC-U.

- SFI 600P (black)
- DOWSIL 993 (black or white), or DOWSIL 3441 (black or white) or DOWSIL 3552 (grey)
- SIKASIL WT470, WT480 or WT485 (black)
- SOUDABOND DG-2K (black)
- Silirub WS (Soudal)

Notes: Two-component; short curing time (10÷30 min). Compatible with insulating glass sealants. UV resistance.

Cleaner: DOWSIL R40. SIKASIL CLEANER 205 (with activator)

Primer: DOWSIL 1200 OS Primer.

Aplicación de pegado a vidrio | Aplicação de colagem ao vidro | Application de collage au vitrage | Glass bonding application

Notas:

- Para su aplicación las superficies deberán estar en un rango de temperaturas de +5° y 35° C.
 - Proceso:
 - limpieza de superficies y preparación con la aplicación de la imprimación y/o del activador.
 - colocación del vidrio y colocación de calces para centrado del vidrio.
 - aplicación del cordón de silicona o adhesivo.
 - cierre con los junquillos.
 - Los sellados deben quedar aplicados fuera de la posición de las cunas y calces de acristalar y de los taladros para drenajes y aireaciones.
 - Los vidrios para pegado deberán ir desprovistos de cinta perimetral con contenido en silicona.
- En algunos vidrios podría ser requerida una prueba de adherencia en el pegado.

Notas:

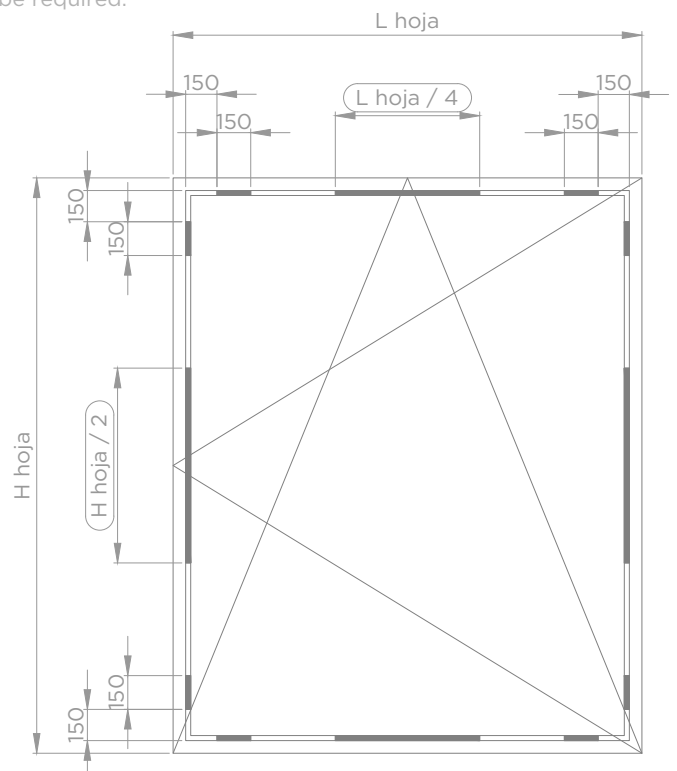
- Para a sua aplicação, as superfícies devem estar num intervalo de temperaturas entre +5° e 35° C.
 - Processo:
 - limpeza das superfícies e preparação com a aplicação do primário e/ou do ativador.
 - colocação do vidro e posicionamento dos calços para o centramento do vidro.
 - aplicação do cordão de silicone ou adesivo.
 - fecho com os junquinhos.
 - As selagens devem ser aplicadas fora da posição das bases e calços de envidraçamento e dos furos de drenagem e ventilação.
 - Os vidros destinados à colagem devem estar isentos de fita perimetral com conteúdo de silicone.
- Em alguns vidros poderá ser necessário realizar um ensaio de aderência da colagem.

Notes :

- Pour son application, les surfaces doivent être dans une plage de températures comprise entre +5° et 35° C.
 - Procédé :
 - nettoyage des surfaces et préparation par application du primaire et/ou de l'activateur.
 - mise en place du vitrage et positionnement des cales pour le centrage du verre.
 - application du cordon de silicone ou de l'adhésif.
 - fermeture avec les parcloles.
 - Les joints doivent être appliqués en dehors de la position des supports et cales de vitrage ainsi que des perçages de drainage et d'aération.
 - Les vitrages destinés au collage doivent être dépourvus de ruban périphérique contenant du silicone.
- Pour certains vitrages, un essai d'adhérence du collage peut être requis.

Notes:

- For application, surfaces must be within a temperature range of +5° to 35° C.
 - Process:
 - cleaning of surfaces and preparation by applying primer and/or activator.
 - positioning of the glass and installation of setting blocks to centre the glass.
 - application of the silicone or adhesive bead.
 - closing with glazing beads.
 - Sealants must be applied outside the position of glazing supports and setting blocks, as well as drainage and ventilation holes.
 - Glass intended for bonding must be free of perimeter tape containing silicone.
- For some types of glass, an adhesion test of the bonding may be required.



STRUGAL

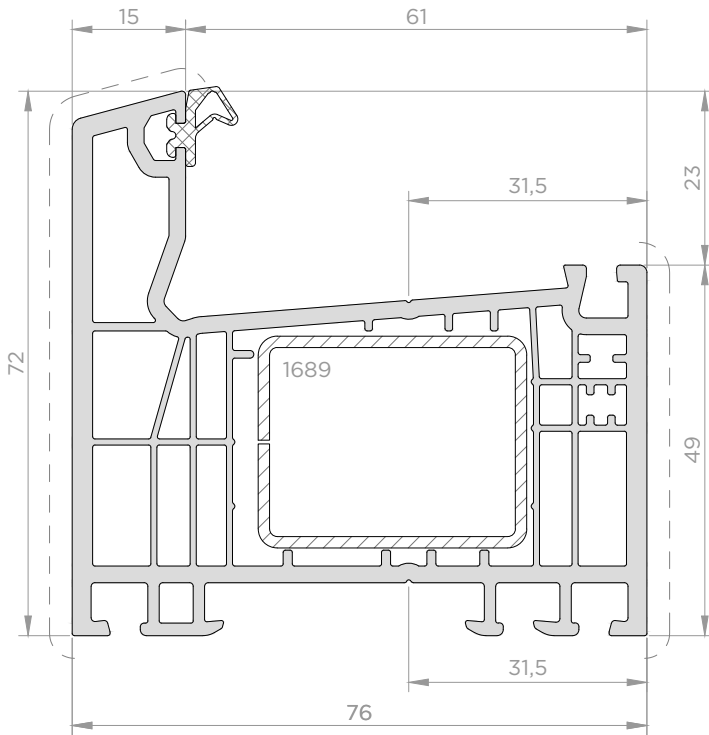
STRUGAL PLANIA

RELACIÓN DE PERFILES

Relação de perfis

Liste de profilés

List of profiles



11331	Marco Marco Dormant Frame		
Material Material	PVC de co-extrusión PVC de coextrusão		
Reforços		1689	
Juntas Juntas		361301 /02 371303	
		331221 /22 (PVC)	
Asiento vidrio Assento vidro		311073	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

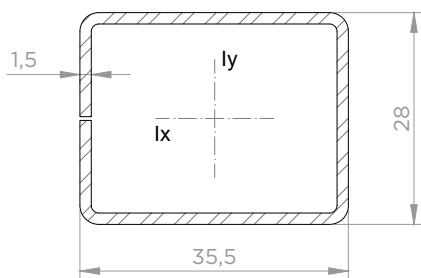
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

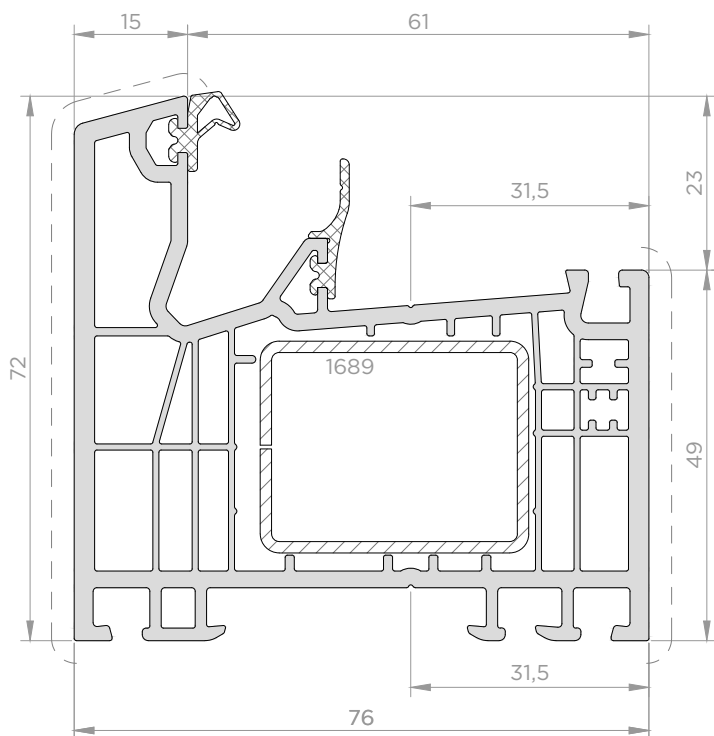
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1689	Refuerzo de 35,5x28 mm Reforço de 35,5x28 mm Renfort de 35,5x28 mm 35,5x28 mm Reinforcement			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.383,00			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	2,18	Iyy	3,13



11341	Marco con junta central Marco com junta central Dormant avec joint central Frame with central gasket		
Material Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1689	
		1686	
Juntas Juntas		361301 ■ /02 ■	
		371303 □	
Asiento vidrio Assento Vidro		311221 ■ /22 ■ (PVC)	
		311243	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

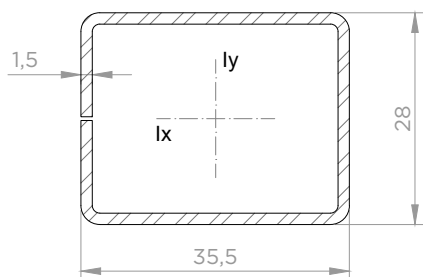
■ BL M C
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

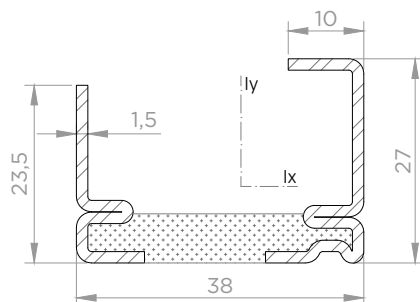
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

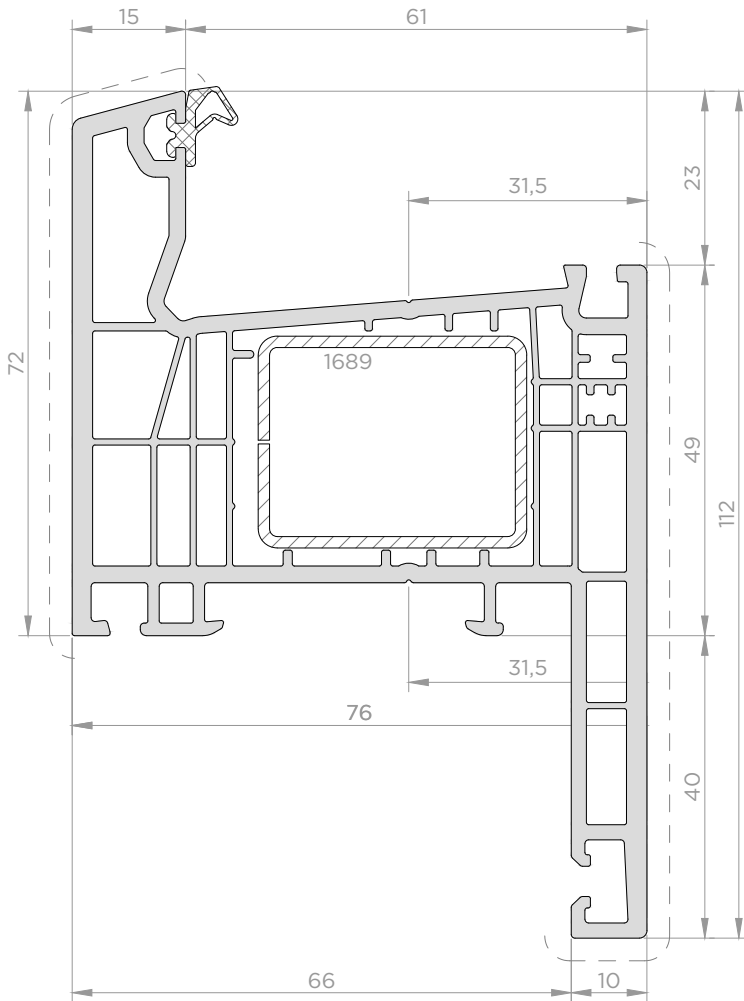
Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1689	Refuerzo de 35,5x28 mm Reforço de 35,5x28 mm Renfort de 35,5x28 mm 35.5x28 mm reinforcement			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.383,00			
Inercia (cm ⁴) Inercia (cm ⁴)	lxx	2,18	lyy	3,13



1686	Refuerzo RPT de 38x27 mm Reforço RPT de 38x27 mm Renfort (RPT) de 38x27 mm 38x27 mm reinforcement (TBR)			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.400,00			
Inercia (cm ⁴) Inercia (cm ⁴)	lxx	1,10	lyy	4,16



11351	Marco con Solape de 40 mm Marco com aba de 40 mm Dormant avec recouvrement de 40 mm Frame with 40 mm overlap		
Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos		1689	
Juntas		361301 /02	
		371303	
Asiento vidrio		331221 /22	(PVC)
Assento vidro		311073	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

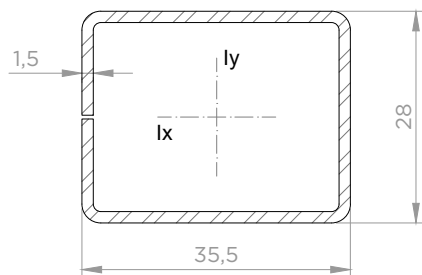
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

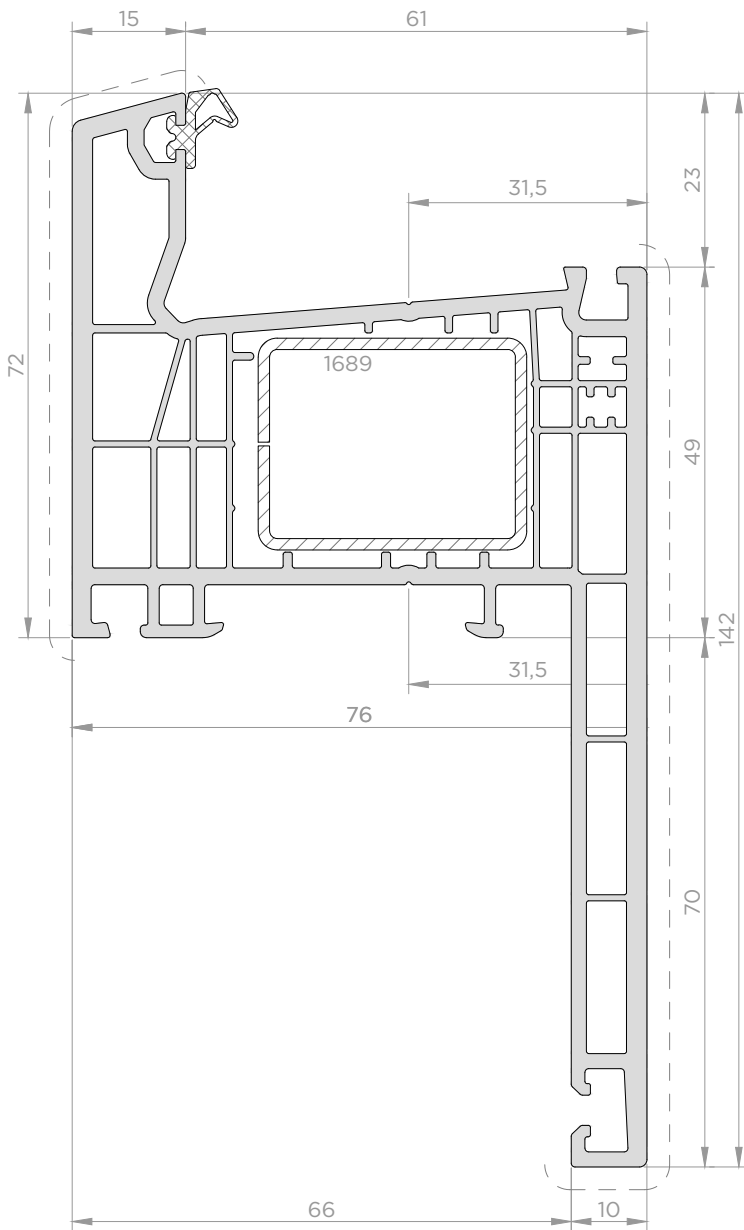
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note:
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramelo pour les profils à base caramelo.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1689	Refuerzo de 35,5x28 mm Reforço de 35,5x28 mm Renfort de 35,5x28 mm 35,5x28 mm reinforcement		
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140		
Peso (gr/m)	1.383,00		
Inercia (cm ⁴)	Ixx	2,18	Iyy 3,13
Inercia (cm ⁴)			



11361	Marco con Solape de 70 mm Marco com aba de 70 mm Dormant avec recouvrement de 70 mm Frame with 70 mm overlap		
Material Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1689	
Juntas Juntas		361301 /02	
		371303	
		331221 /22 (PVC)	
Asiento vidrio Assento vidro		311073	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

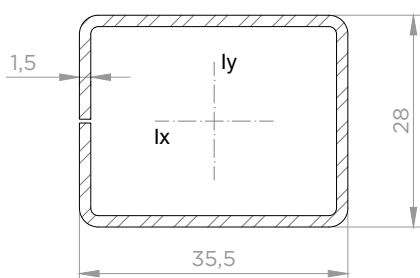
Negro
 Blanco
 Marrón
 Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

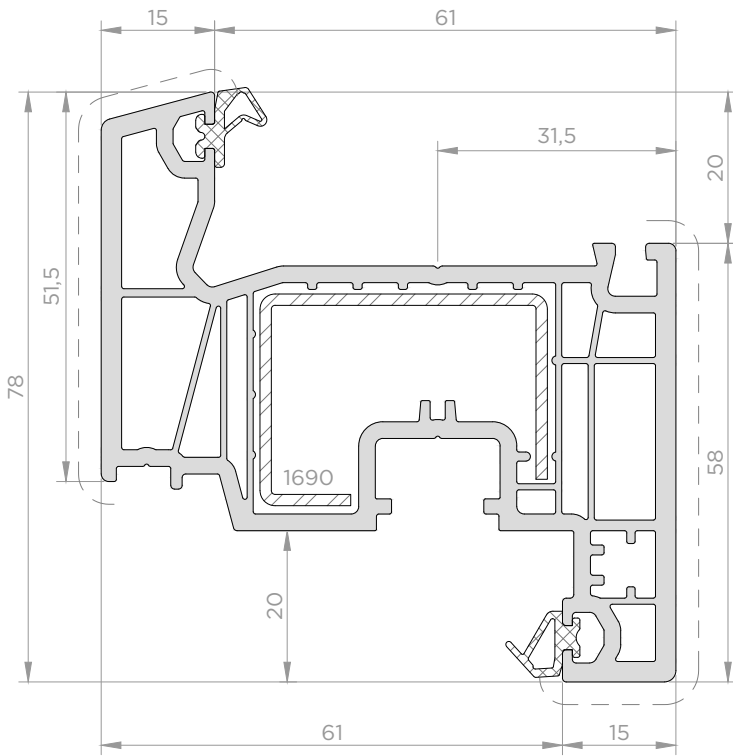
Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramelo pour les profils à base caramelo.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1689	Refuerzo de 35,5x28 mm Reforço de 35,5x28 mm Renfort de 35,5x28 mm reinforcement			
Material Material	Acero galvanizado DX51D - Z140 Aço galvanizado DX51D - Z140			
Peso (gr/m) Peso (gr/m)	1.383,00			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	2,18	Iyy	3,13

RELACIÓN DE PERFILES | Lista de perfis | Liste des profils | Profile list



11231	Hoja de ventana Folha de janela Ouvrant de fenêtre Window sash		
Material Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1690	
		1686	
		1668	
Juntas Juntas		361301 /02	
		371303	
Asiento vidrio Assento vidro		351211 /12 /13	
		311063	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

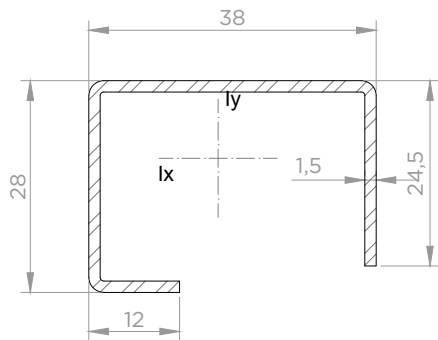
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro.

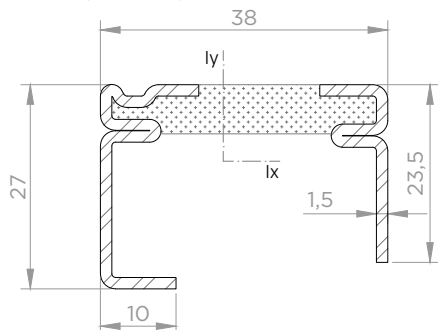
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta.

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramelo pour les profils à base caramelo.
Joint de couleur noire pour les profils à base marron et noire.

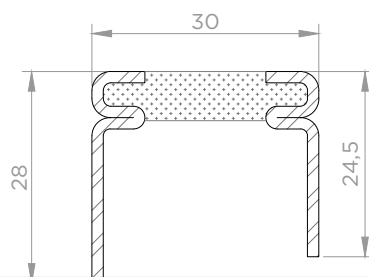
Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1690	Refuerzo U de 25x38x28 mm Reforço U de 25x38x28 mm Renfort en U de 25x38x28 mm 25x38x28 mm U-reinforcement			
Material Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.135,00			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	1,42	Iyy	3,28

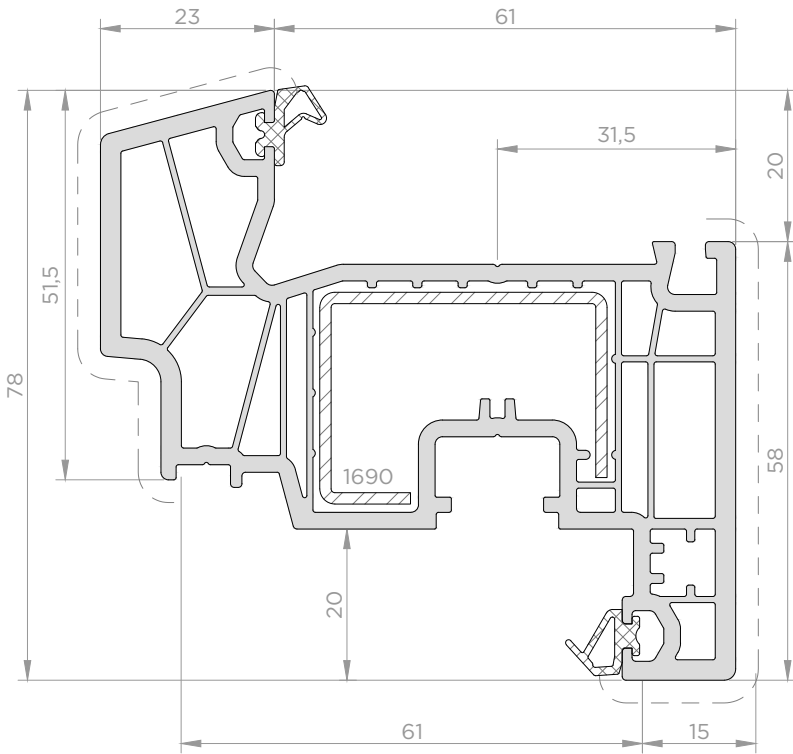


1686	Refuerzo RPT de 38x27 mm Reforço RPT de 38x27 mm Renfort (RPT) de 38x27 mm 38x27 mm reinforcement (TBR)			
Material Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.400,00			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	1,10	Iyy	4,16



1668	Refuerzo RPT de 30x28 mm Reforço RPT de 30x28 mm Renfort (RPT) de 30x28 mm 30x28 mm reinforcement (TBR)			
Material Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.140,00			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	0,70	Iyy	2,02

RELACIÓN DE PERFILES | Lista de perfis | Liste des profils | Profile list



11241	Hoja ventana semienrasada Folha de janela semi-faceada Ouvrant de fenêtre semi-affleurant Semi-flush window sash		
Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1690	
		1686	
		1668	
Juntas Juntas		361301 /02	
		371303	
Asiento vidrio Assento vidro		351211 /12 /13	
		311063	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

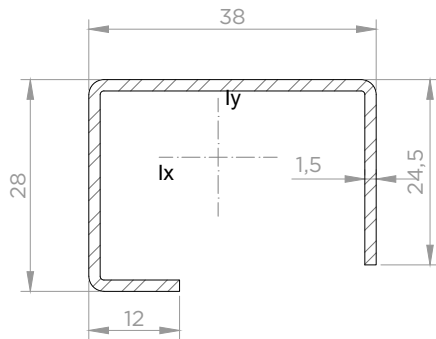
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

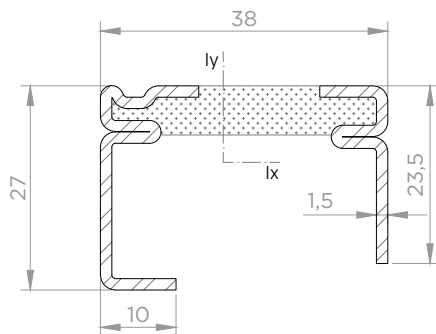
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note:
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramél.
Joint de couleur noire pour les profils à base marron et noire

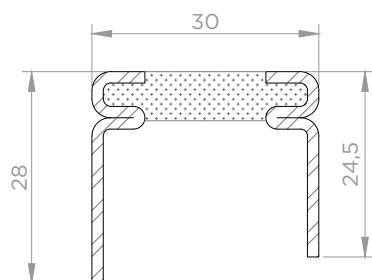
Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



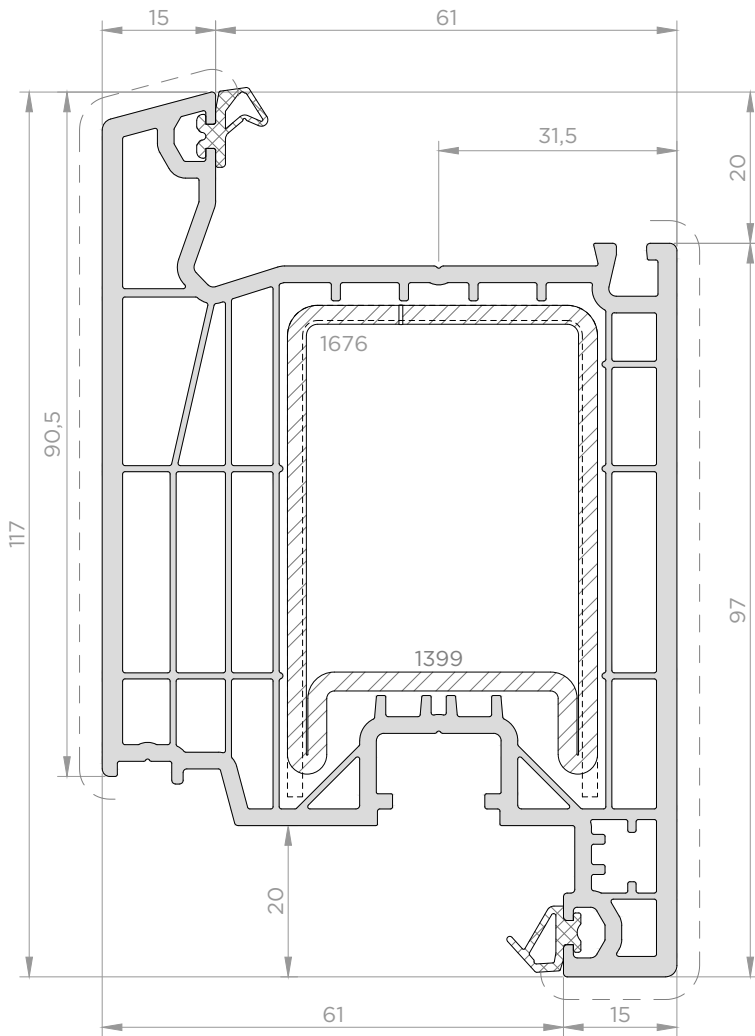
1690	Refuerzo U de 25x38x28 mm Reforço U de 25x38x28 mm Renfort en U de 25x38x28 mm 25x38x28 mm U-reinforcement			
Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	1.135,00			
Inercia (cm ⁴)	Ixx	1,42	Iyy	3,28



1686	Refuerzo RPT de 38x27 mm Reforço RPT de 38x27 mm Renfort (RPT) de 38x27 mm 38x27 mm reinforcement (TBR)			
Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	1.400,00			
Inercia (cm ⁴)	Ixx	1,10	Iyy	4,16



1668	Refuerzo RPT de 30x28 mm Reforço RPT de 30x28 mm Renfort (RPT) de 30x28 mm 30x28 mm reinforcement (TBR)			
Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	1.140,00			
Inercia (cm ⁴)	Ixx	0,70	Iyy	2,02



11251	Hoja de puerta ap. interior Folha de porta abert. interior Ouvrant de porte ouvrant vers l'intérieur Inward opening door sash		
Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1676	
		1399	
Juntas Juntas		361301	■ /02 ■
		371303	□
Asiento vidrio Assento vidro		351211	■ /12 ■ /13 □
		311063	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

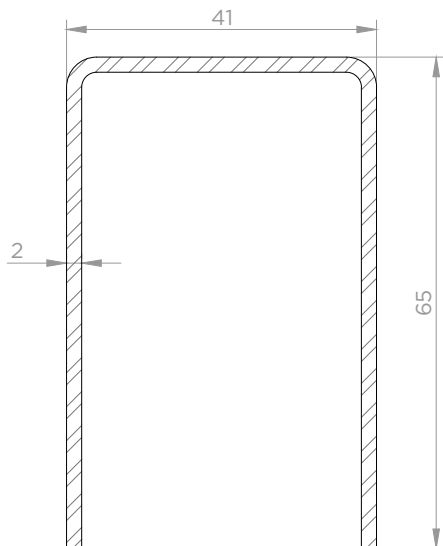
■ BL M C
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro.

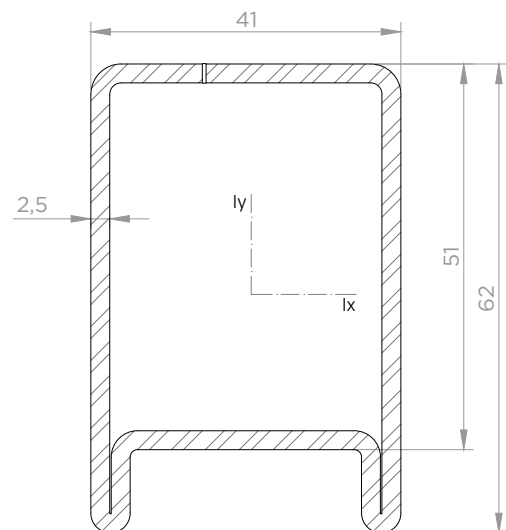
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta.

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire.

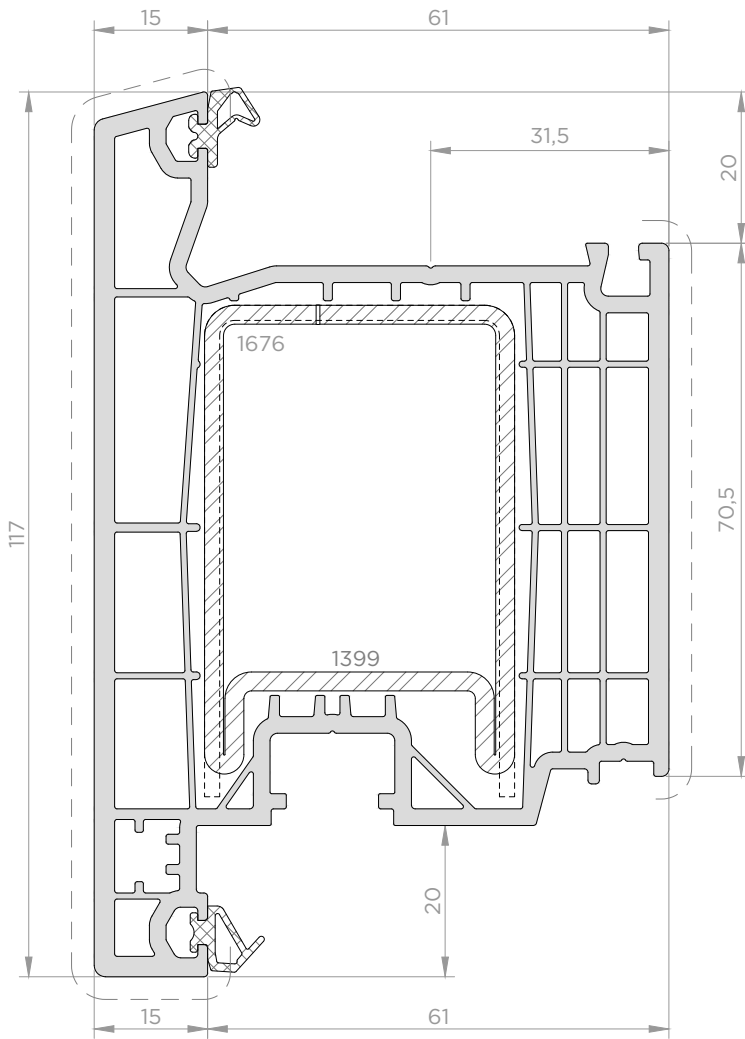
Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1676	Refuerzo de 65x41 mm Reforço de 65x41 mm Renfort de 65x41 mm 65x41 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	2.581,50			
Inercia (cm ⁴)	Ixx	14,54	Iyy	10,53



1399	Refuerzo de 62x41 mm Reforço de 62x41 mm Renfort de 62x41 mm 62x41 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	4.146,60			
Inercia (cm ⁴)	Ixx	23,47	Iyy	14,39



11261	Hoja de puerta ap. exterior Folha de porta abert. exterior Ouvrant de porte ouvrant vers l'extérieur Outward opening door sash		
Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1676	
		1399	
Juntas Juntas		361301	■ /02 ■
		371303	□
Asiento vidrio Assento vidro		351211	■ /12 ■ /13 □
		311063	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

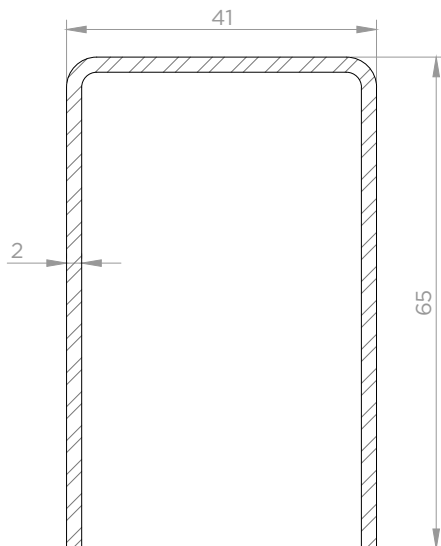
■ BL M C
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

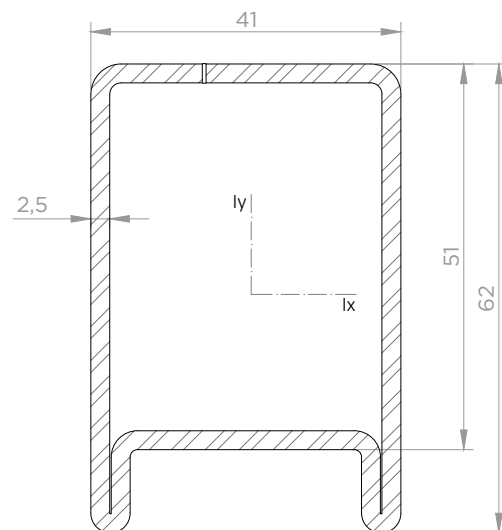
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

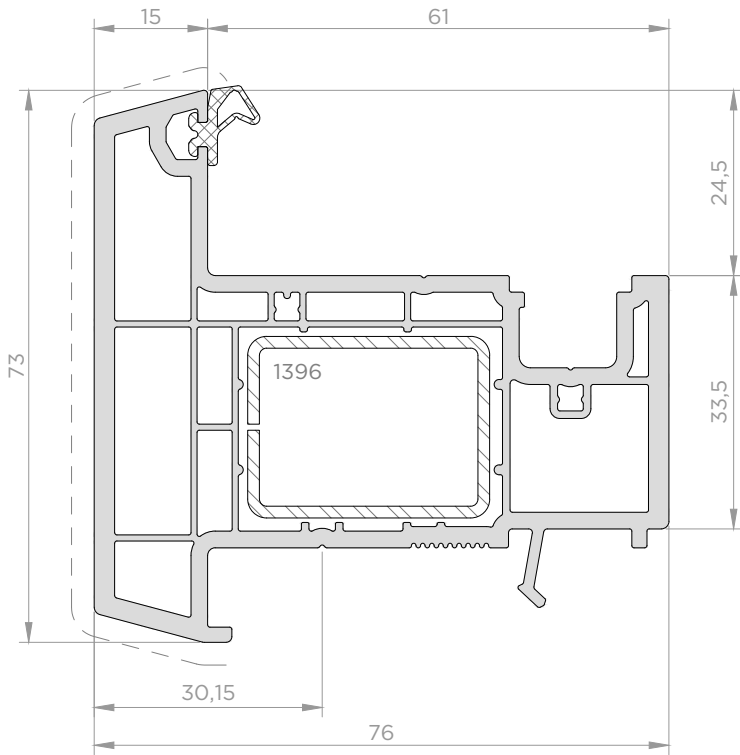
Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1676	Refuerzo de 65x41 mm Reforço de 65x41 mm Renfort de 65x41 mm 65x41 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	2.581,50			
Inercia (cm ⁴)	Ixx	14,54	Iyy	10,53



1399	Refuerzo de 62x41 mm Reforço de 62x41 mm Renfort de 62x41 mm 62x41 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	4.146,60			
Inercia (cm ⁴)	Ixx	23,47	Iyy	14,39



11411	Inversor Inversor Inverseur Inverter		
Material Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1396	
Juntas Juntas		361301 /02 371303	
Tapas int. Tampas int.	311141 /42 /44 /43		
Tapas ext. Tampas ext.	311121 /22 /24 /23		

Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

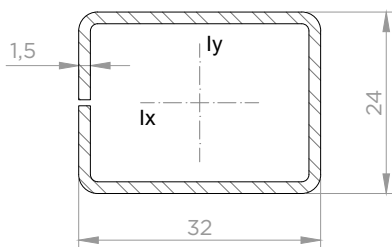
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

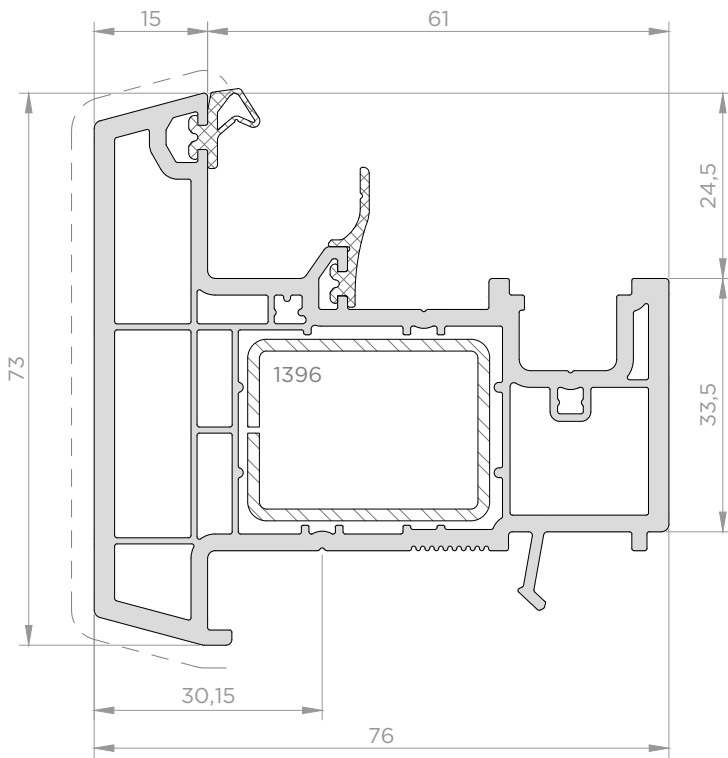
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramelle pour les profils à base caramelle.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1396	Refuerzo de 32x24 mm Reforço de 32x24 mm Renfort de 32x24 mm 32x24 mm reinforcement			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.201,00			
Inercia (cm ⁴) Inercia (cm ⁴)	lxx	1,39	lyy	2,14



11421	Inversor con junta central Inversor com junta central Inverseur avec joint central Meeting stile with central gasket		
Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1396	
Juntas Juntas		361301 /02 371303	
Tapas int. Tampas int.	311131 /32 /34 /33		
Tapas ext. Tampas ext.	311121 /22 /24 /23		

Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

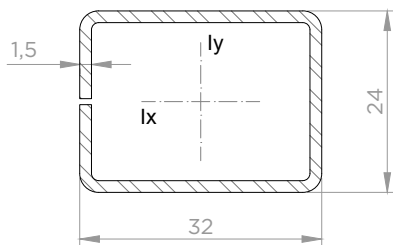
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

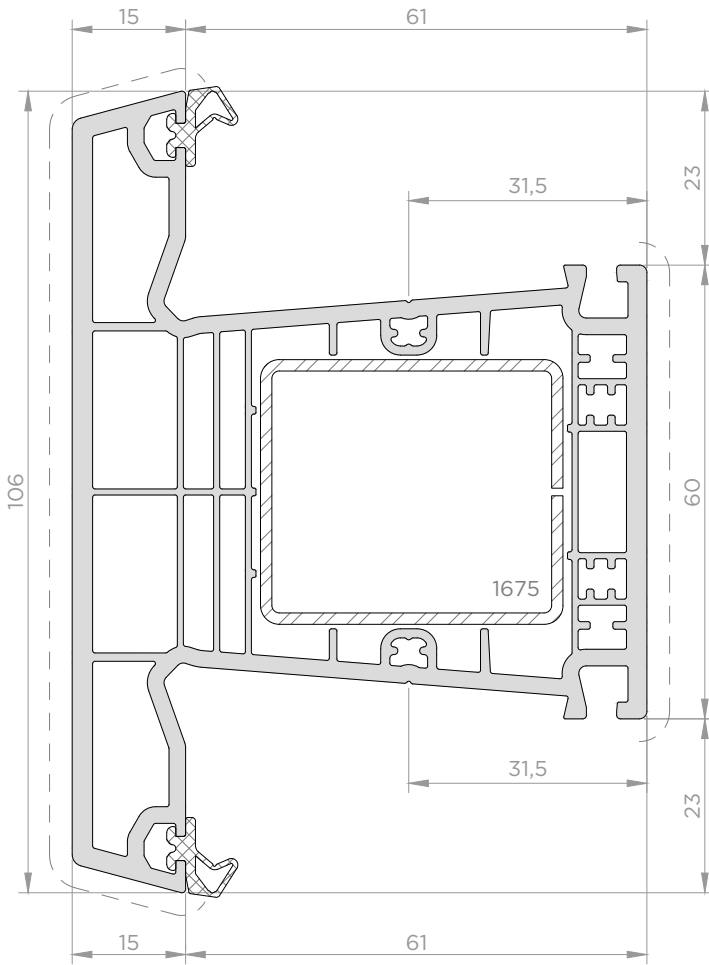
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfiles com base branca.
Junta de cor caramelo para perfiles com base caramelo.
Junta de cor preta para perfiles com base castanha e preta

Note:
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1396	Refuerzo de 32x24 mm Reforço de 32x24 mm Renfort de 32x24 mm 32x24 mm reinforcement		
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140		
Peso (gr/m)	1.201,00		
Inercia (cm ⁴)	Ixx	Iyy	
Inercia (cm ⁴)	1,39	2,14	



11551	Travesaño Travessa Traverse Transom		
Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1675	
Juntas Juntas		361301 /02	
		371303	
Asiento vidrio Assento vidro		331221 /22 (PVC)	
		311073	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

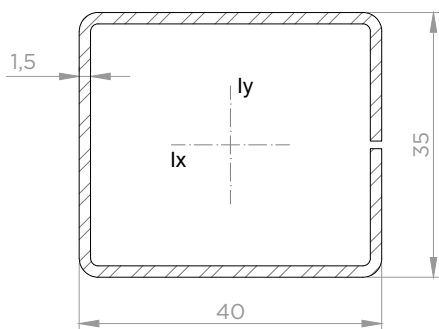
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

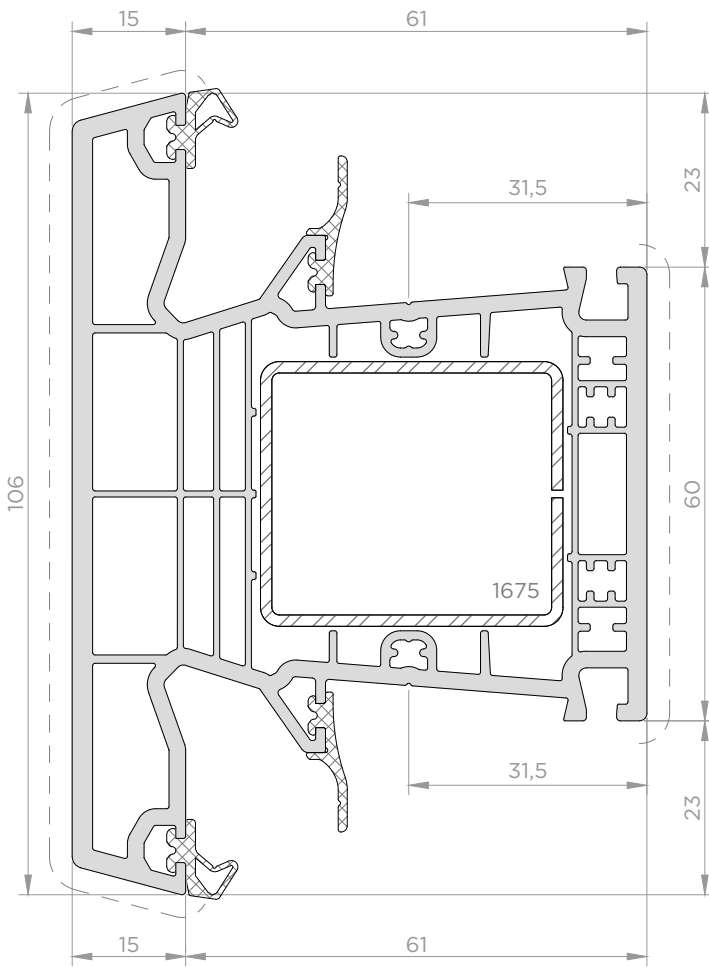
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note:
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1675	Refuerzo de 40x35 mm Reforço de 40x35 mm Renfort de 40x35 mm 40x35 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	1.135,00			
Inercia (cm ⁴)	Ixx	1,42	Iyy	3,28



11561	Travesaño con junta central Traversa com junta central Traverse avec joint central Transom with central gasket		
Material Material	PVC de co-extrusión PVC de coextrusão		
Refuerzos Reforços		1675	
Juntas Juntas		361301 /02	
		371303	
Asiento vidrio Assento vidro		331221 /22 (PVC)	
		311153	
		311243	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

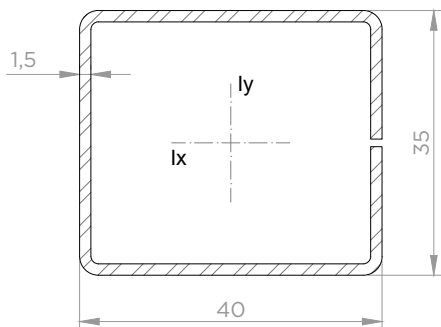
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

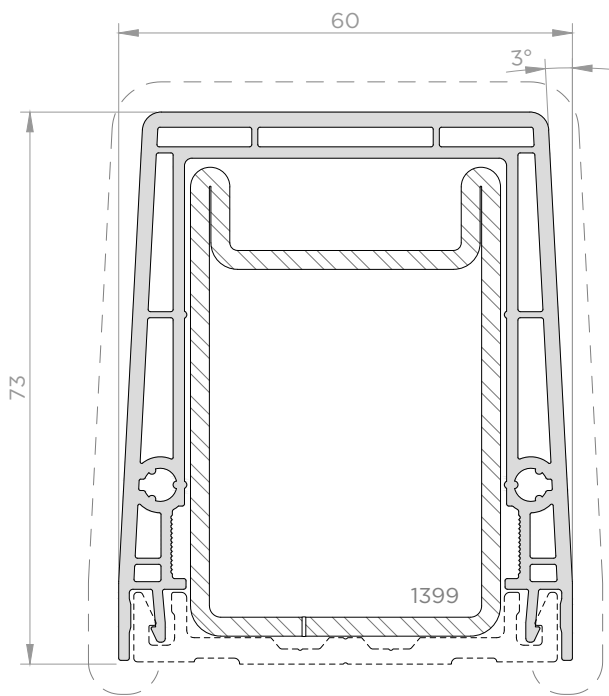
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1675	Reforzo de 40x35 mm Reforço de 40x35 mm Renfort de 40x35 mm 40x35 mm reinforcement			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.135,00			
Inercia (cm ⁴) Inercia (cm ⁴)	lxx	1,42	lyy	3,28



12181	Cobertor refuerzo travesaño Cobertor de reforço de travessa Couvre-renfort de traverse Transom reinforcement cover	
Material	PVC	
Refuerzos		1675
		1399
Tapas	351240 /41 /42 /43	

--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

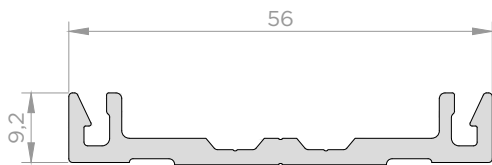
Negro Blanco Marrón Caramelo

Nota:
 El perfil viene con juntas soldables.
 Junta en color gris para perfiles con base en blanco.
 Junta en color caramelo para perfiles con base en caramelo.
 Junta en color negro para perfiles con base en marrón y negro

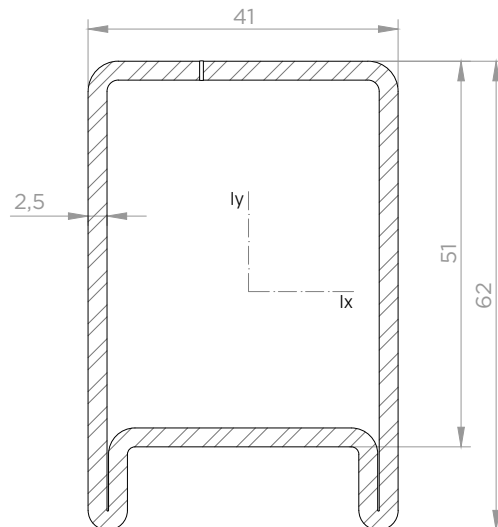
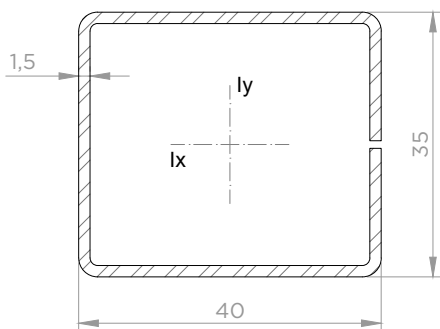
Nota:
 O perfil é fornecido com juntas soldáveis.
 Junta de cor cinzenta para perfis com base branca.
 Junta de cor caramelo para perfis com base caramelo.
 Junta de cor preta para perfis com base castanha e preta

Note:
 Le profil est fourni avec des joints soudables.
 Joint de couleur grise pour les profils à base blanche.
 Joint de couleur caramelle pour les profils à base caramelle.
 Joint de couleur noire pour les profils à base marron et noire

Note:
 The profile is supplied with weldable gaskets.
 Grey gasket for profiles with white base.
 Caramel gasket for profiles with caramel base.
 Black gasket for profiles with brown and black base.

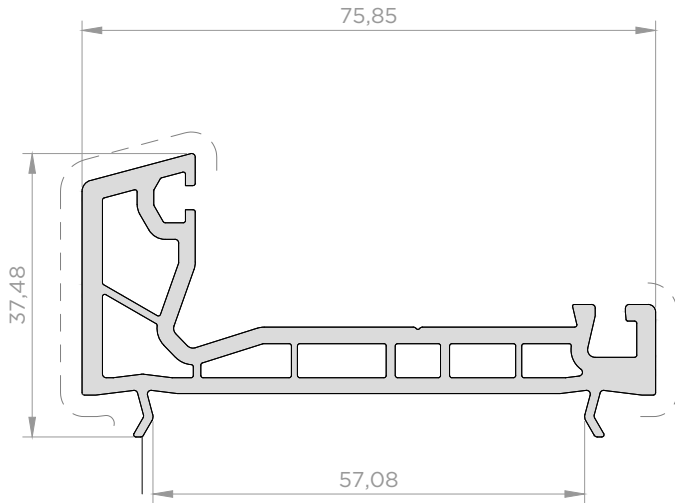


12191	Base cobertor refuerzo travesaño Base de cobertor de reforço de travessa Base de couvre-renfort de traverse Transom reinforcement cover base	
Material	PVC	







1675	Refuerzo de 40x35 mm Reforço de 40x35 mm Renfort de 40x35 mm 40x35 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	1.135,00			
Inercia (cm ⁴)	lxx	1,42	lyy	3,28

1399	Refuerzo de 62x41 mm Reforço de 62x41 mm Renfort de 62x41 mm 62x41 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m)	4.146,60			
Inercia (cm ⁴)	lxx	23,47	lyy	14,39



11461	Marco para fijo (cajón catalán) Marco para fijo (caixilho catalão) Dormant pour châssis fixe (cadre catalan) Fixed frame (Catalan type frame)		
Material Material	PVC PVC		
Juntas Juntas		361301  /02 	
Asiento vidrio Assento vidro		371303 	361400

--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

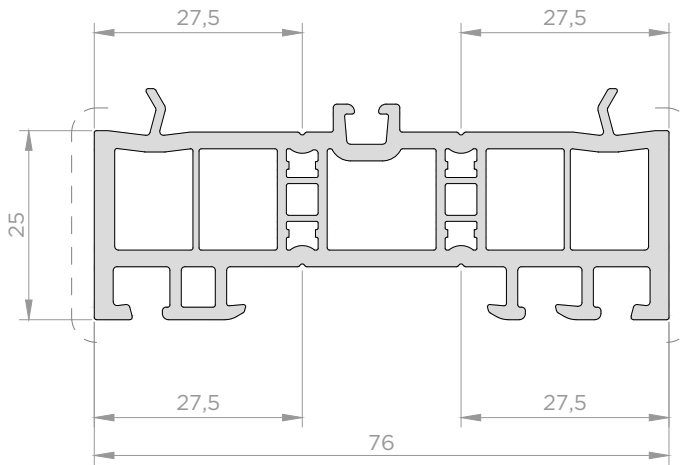
   
 Negro Blanco Marrón Caramelo

Nota:
 El perfil viene con juntas soldables.
 Junta en color gris para perfiles con base en blanco.
 Junta en color caramelo para perfiles con base en caramelo.
 Junta en color negro para perfiles con base en marrón y negro

Nota:
 O perfil é fornecido com juntas soldáveis.
 Junta de cor cinzenta para perfis com base branca.
 Junta de cor caramelo para perfis com base caramelo.
 Junta de cor preta para perfis com base castanha e preta

Note :
 Le profil est fourni avec des joints soudables.
 Joint de couleur grise pour les profils à base blanche.
 Joint de couleur caramelo pour les profils à base caramelo.
 Joint de couleur noire pour les profils à base marron et noire

Note:
 The profile is supplied with weldable gaskets.
 Grey gasket for profiles with white base.
 Caramel gasket for profiles with caramel base.
 Black gasket for profiles with brown and black base.

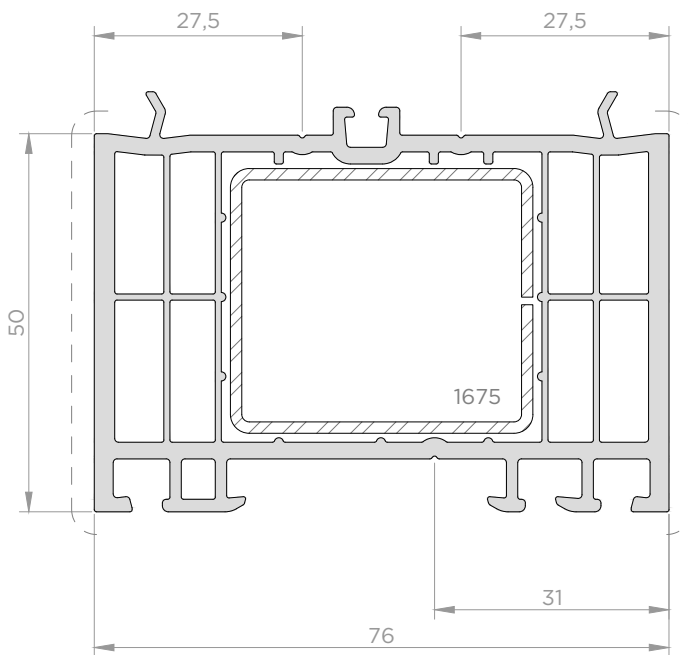






11681	Ensanche marcos 25 mm Alargamento de marco 25 mm Tapée d'isolation (élargisseur) 25 mm 25 mm frame extension		
Material Material	PVC		
Juntas Juntas		351201	 /02 

--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

 Negro
 Gris

Nota:
 Junta en PVC+NBR.
 Junta em PVC+NBR.

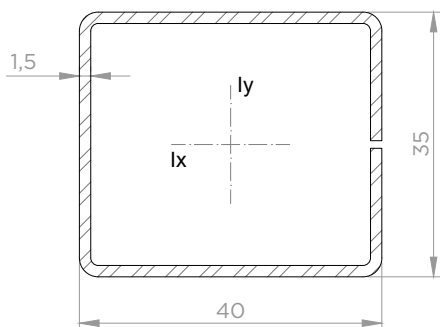


11691	Ensanche marcos 50 mm Alargamento de marco 50 mm Tapée d'isolation (élargisseur) 25 mm 50 mm frame extension		
Material Material	PVC		
Refuerzos Reforços		1675	
Juntas Juntas		351201	 /02 

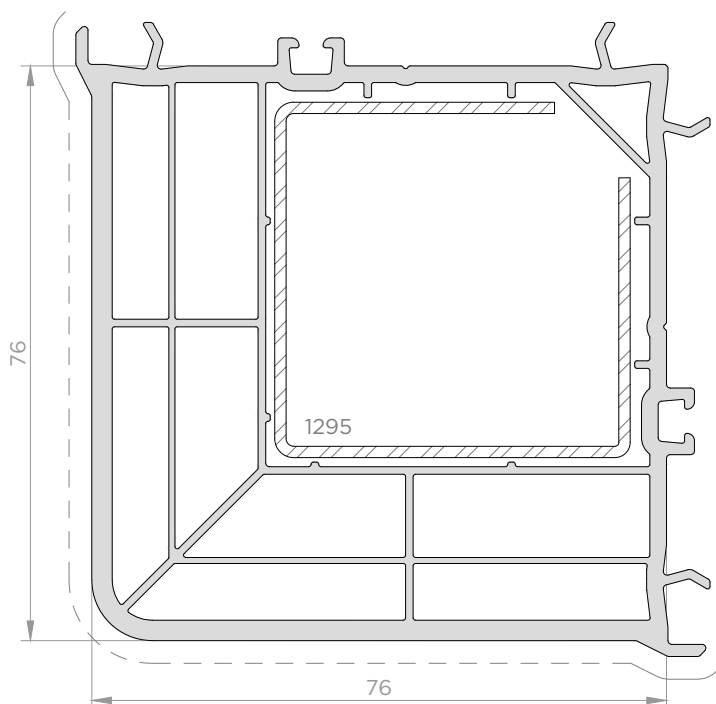
--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

 Negro
 Gris

Nota:
 Junta en PVC+NBR.
 Junta em PVC+NBR.



1675	Refuerzo de 40x35 mm Reforço de 40x35 mm Renfort de 40x35 mm 40x35 mm reinforcement			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.135,00			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	1,42	Iyy	3,28

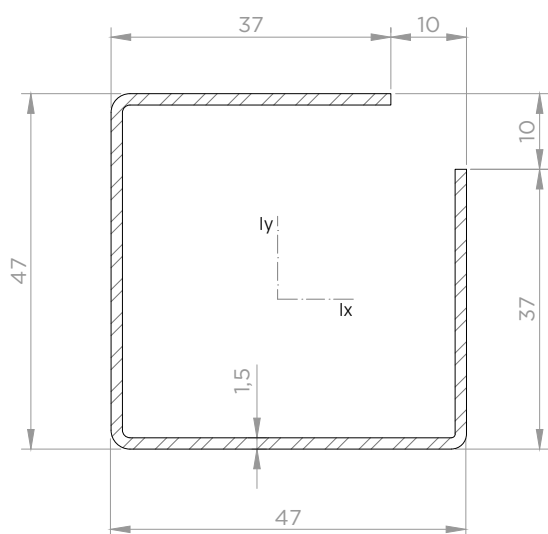


11661	Esquinero recto Canto reto Cornière d'angle droite Square corner profile	
Material	PVC	
Refuerzos Reforços		1295
Juntas Juntas		351201

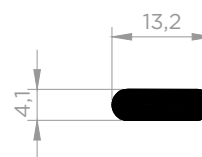
--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

Negro
 Gris

Nota:
 Junta en PVC+NBR.
 Junta em PVC+NBR.

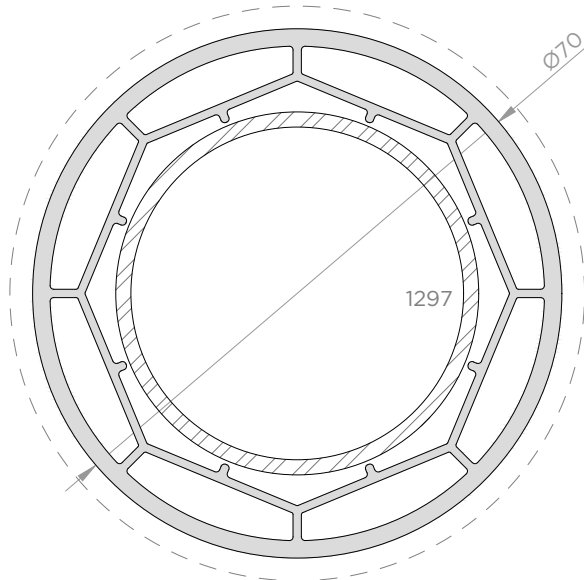


1295	Refuerzo de 47x47 mm Reforço de 47x47 mm Renfort de 47x47 mm 47x47 mm reinforcement			
Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.898,70			
Inercia (cm ⁴) Inercia (cm ⁴)	lxx	7,94	lyy	7,94



14891	Pletina 14x4 mm Platina 14x4 mm Plat 14x4 mm 14x4 mm flat bar
Material	PVC

Nota: Conexión para unión de marcos oculta. Perfil sin caras vistas | Nota: Conexão oculta para união de marcos. Perfil sem faces à vista | Note : Connexion pour assemblage de dormants cachée. Profilé sans faces vues | Note: Concealed frame joint connection. Profile without visible faces

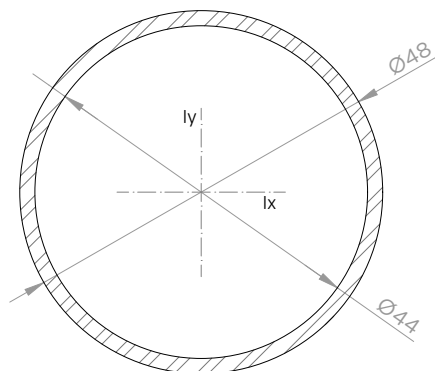


12521	Esquinero regulable Canto regulável Cornière d'angle réglable Adjustable corner profile		
Material Material	PVC		
Refuerzos Reforços	○	1297	

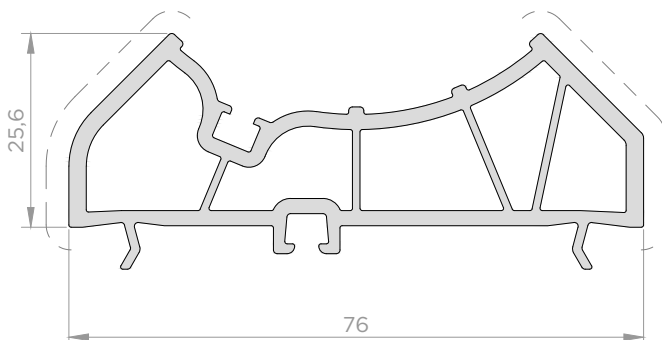
--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped






Nota:
Junta en PVC+NBR.
Junta em PVC+NBR.



1297	Refuerzo de Ø48 mm Reforço de Ø48 mm Renfort de Ø48 mm Ø48 mm reinforcement			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	2.270,00			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	7,66	Iyy	7,66

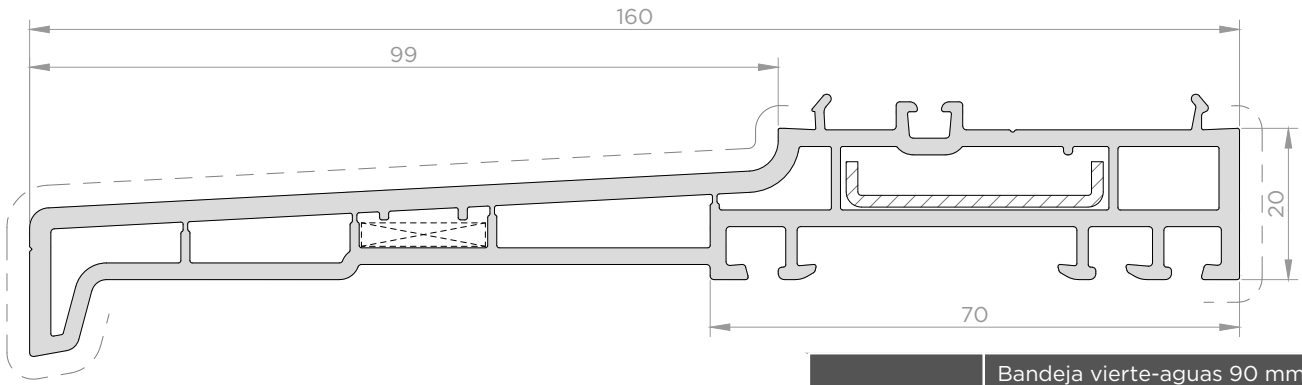


11671	Acople esquinero regulable Acoplamento de canto regulável Raccord pour cornière d'angle réglable Adjustable corner coupler		
Material Material	PVC		
Juntas Juntas		351201  /02 	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



Nota:
Junta en PVC+NBR.
Junta em PVC+NBR.

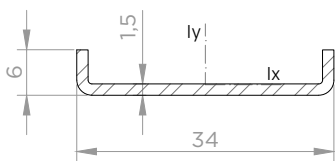
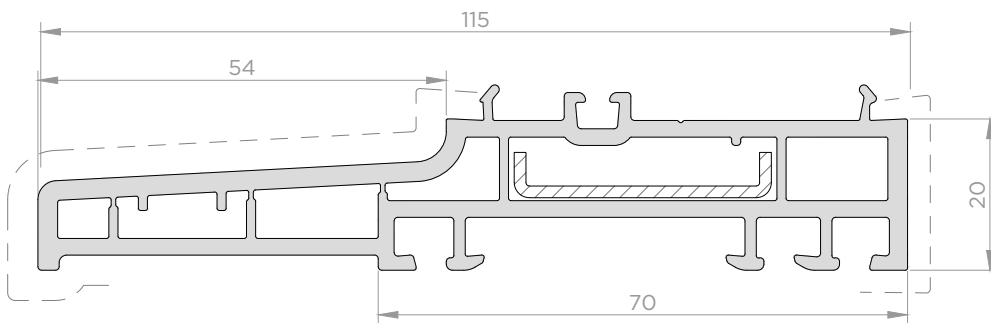


12711	Bandeja vierte-aguas 90 mm Pingadeira 90 mm Rejet d'eau (appui de fenêtre) 90 mm 90 mm sill		
Material Material	PVC		
Refuerzos Reforços		1292	
Escuadra Esquadro	207004		
Tapas Tampas	351280 /81 /82 /83		
Juntas Juntas		351201 /02	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

Negro Blanco Marrón Caramelo

Nota: Junta en PVC+NBR.
Junta em PVC+NBR.



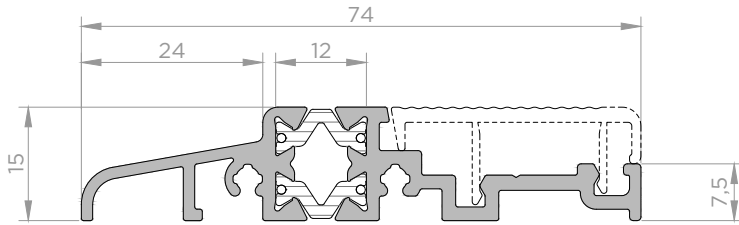
1292	Refuerzo U de 34x6 mm Reforço em U de 34x6 mm Renfort en U de 34x6 mm 34x6 mm U-shaped reinforcement			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	488,60			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	0,01	Iyy	0,79

12721	Bandeja vierte-aguas 45 mm Pingadeira 45 mm Rejet d'eau (appui de fenêtre) 45 mm 45 mm sill		
Material Material	PVC		
Refuerzos Reforços		1292	
Escuadra Esquadro	207004		
Tapas Tampas	351285 /86 /87 /88		
Juntas Juntas		351201 /02	

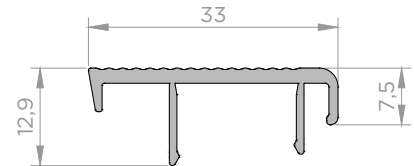
--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

Negro Blanco Marrón Caramelo

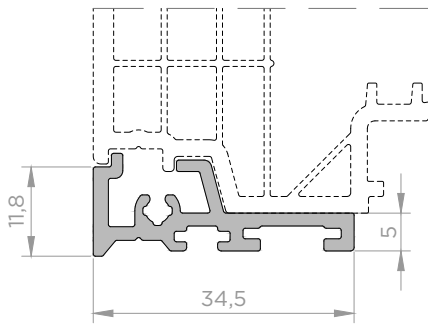
Nota: Junta en PVC+NBR.
Junta em PVC+NBR.



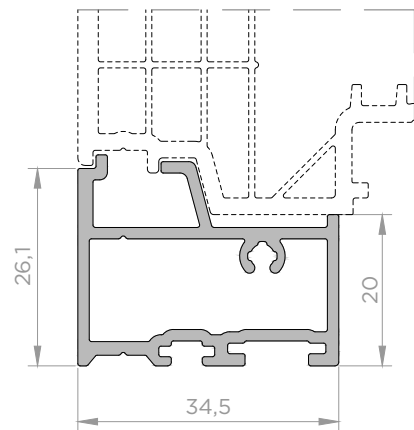
9600	Solera RPT 74x15 mm Soleira RPT 74x15 mm Seuil (RPT) 74x15 mm 74x15 mm (TB) threshold
Material	Anodizado natural Anodização natural
Juntas	NZN311203
Tapas	NZN311183/93



7472	Tapeta solera RPT Remate de soleira RPT Tapée (cache-seuil) pour seuil RPT (TB) threshold
Material	Anodizado natural Anodização natural

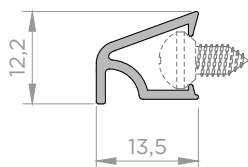


7473	Remate inferior. Hoja con solera Remate inferior. Folha com soleira Rempart inférieur. Ouvrant avec seuil Bottom trim. Sash with threshold
Material	Anodizado natural Anodização natural
Juntas	JU88E 307600
Felpas	FP79F 207003
Tapas	NZN311211
Tapas	NZN311231

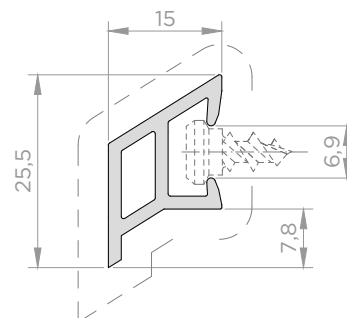


7474	Remate inferior. Hoja paso abierto Remate inferior. Folha de passagem livre Battement inférieur. Ouvrant à passage libre Bottom trim. Low-threshold sash
Material	Aluminio Alumínio
Juntas	JU88E 307600
Felpas	FP79F 207003
Tapas	NZN311221

Negro BL Blanco M Marrón C Caramelo



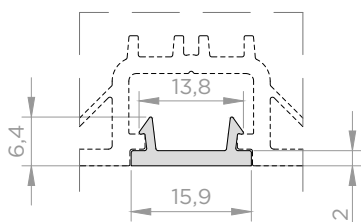
8296	Goterón hoja puerta Pingadeira para folha de porta Jet d'eau pour ouvrant de porte Door sash drip bar
Material Material	Aluminio Aluminio
Tornillo Parafuso	238297
Tapas Tampas	258206 ■ /16 BL



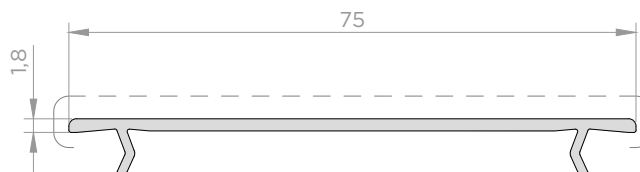
12151	Vierteaguas Pingadeira Rejet d'eau Window sill
Material Material	PVC
Tornillo Parafuso	331250
Tapas Tampas	361240 BL /41 M /42 C /43 ■

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

■ Negro BL Blanco M Marrón C Caramelo

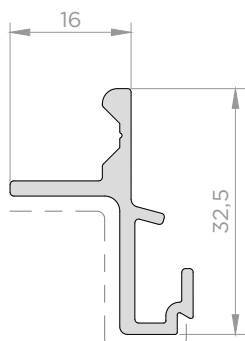


13161	Tapa canal 16 Tapa de C16 Cache rainure C16 Groove cover C16
Material Material	PVC



1116	Tapa jardín Tapa de jardim Profilé de finition Garden trim profile
Material Material	Aluminio Aluminio

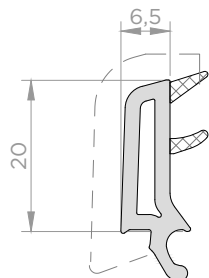
--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



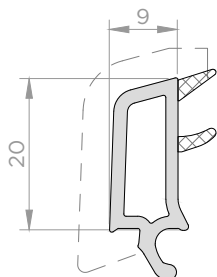
1141	Perfil batiente plegable Perfil batente dobrável Profilé battant de porte-accordéon Folding door meeting profile
Material Material	Aluminio Aluminio

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

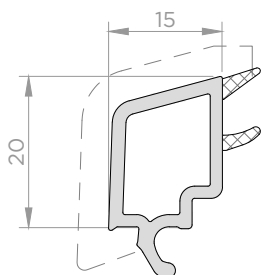
■ Negro BL Blanco M Marrón C Caramelo



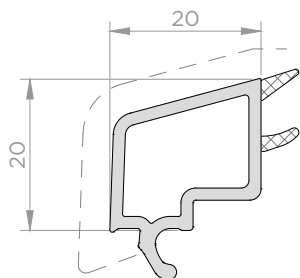
16001	Junquillo de 6,5 mm Bago de 6,5 mm Parclose de 6,5 mm 6.5 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



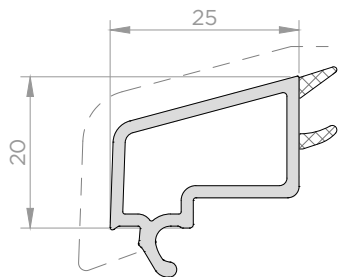
16011	Junquillo de 9 mm Bago de 9 mm Parclose de 9 mm 9 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



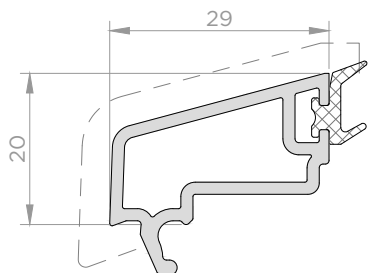
16021	Junquillo de 15 mm Bago de 15 mm Parclose de 15 mm 15 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



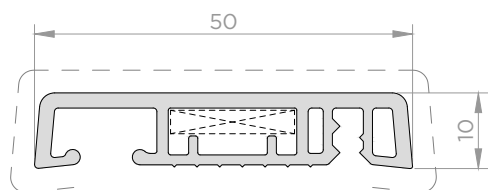
16031	Junquillo de 20 mm Bago de 20 mm Parclose de 20 mm 20 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



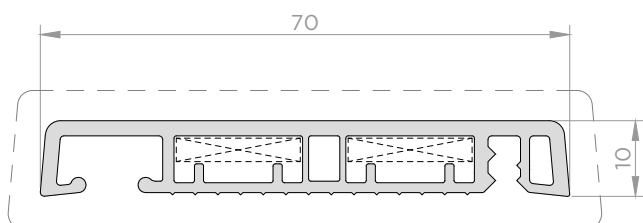
16041	Junquillo de 25 mm Bago de 25 mm Parclose de 25 mm 25 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



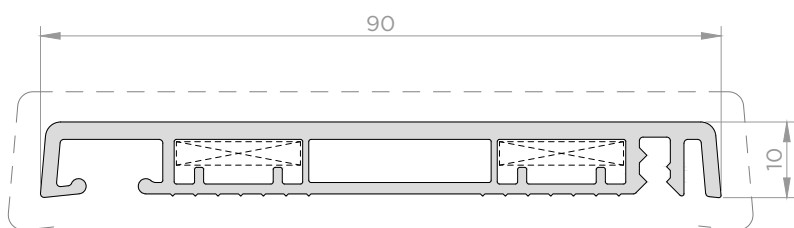
12051	Junquillo de 29 mm Bago de 29 mm Parclose de 29 mm 29 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



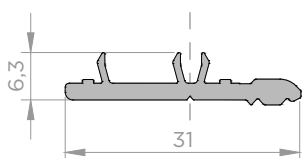
12351	Solape de 50 mm Aba de 50 mm Recouvrement de 50 mm 50 mm overlap
Material Material	PVC
Escuadra Esquadro	207004
Tornillo Parafuso	331250



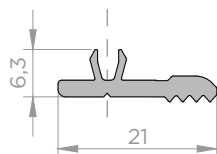
12371	Solape de 70 mm Aba de 70 mm Recouvrement de 70 mm 70 mm overlap
Material Material	PVC
Escuadra Esquadro	207004
Tornillo Parafuso	331250



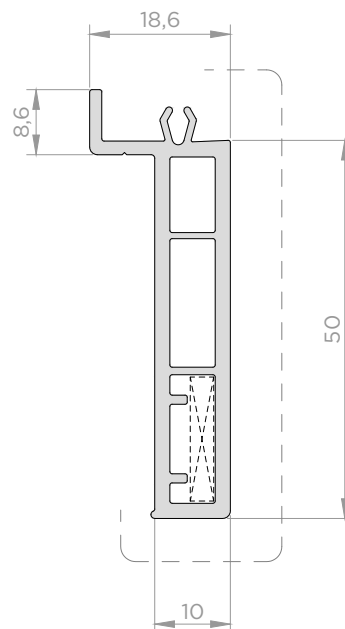
12391	Solape de 90 mm Aba de 90 mm Recouvrement de 90 mm 90 mm overlap
Material Material	PVC
Escuadra Esquadro	207004
Tornillo Parafuso	331250



1236	Grapa solape Grampo de aba Clip de recouvrement Overlap clip
Material Material	Aluminio Alumínio
Escuadra Esquadro	361236 (corte 50 mm)
Tornillo Parafuso	341121

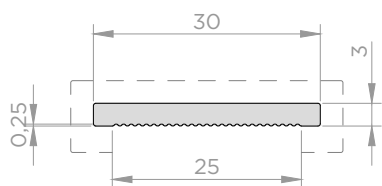


1234	Grapa solape ap. exterior Grampo de aba abert. exterior Clip de recouvrement ouvrant extérieur Outward opening overlap clip
Material Material	Aluminio Alumínio
Escuadra Esquadro	361236 (corte 50 mm)
Tornillo Parafuso	341121

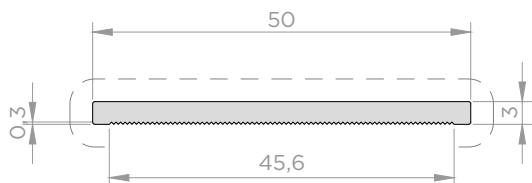


12201	Solape enrasado de 50 mm Aba nivelada de 50 mm Recouvrement affleurant de 50 mm 50 mm flush overlap
Material Material	PVC
Escuadra Esquadro	207004

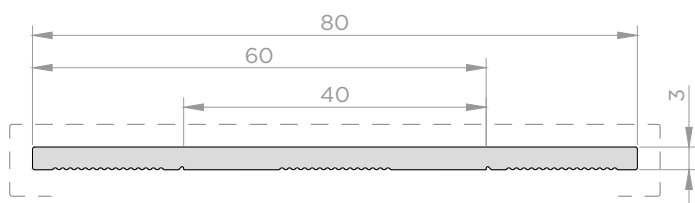
--- Caras para ser foliadas | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



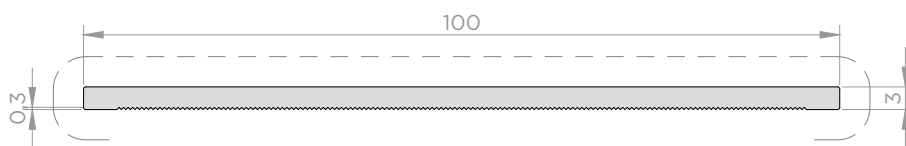
12231	Pletina 30x3 mm Barra chata 30x3 mm Plat 30x3 mm 30x3 mm Flat bar
Material Material	PVC



12251	Pletina 50x3 mm Barra chata 50x3 mm Plat 50x3 mm 50x3 mm Flat bar
Material Material	PVC



12221	Pletina 80x3 mm Barra chata 80x3 mm Plat 80x3 mm 80x3 mm Flat bar
Material Material	PVC



12271	Pletina 100 mm Barra chata 100 mm Plat 100 mm 100 mm Flat bar
Material Material	PVC

--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

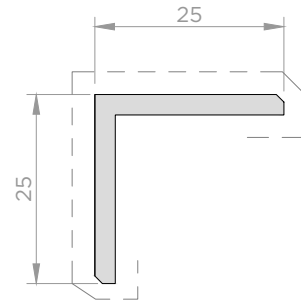


12281	Pletina 150 mm Barra chata 150 mm Plat 150 mm 150 mm Flat bar
Material Material	PVC

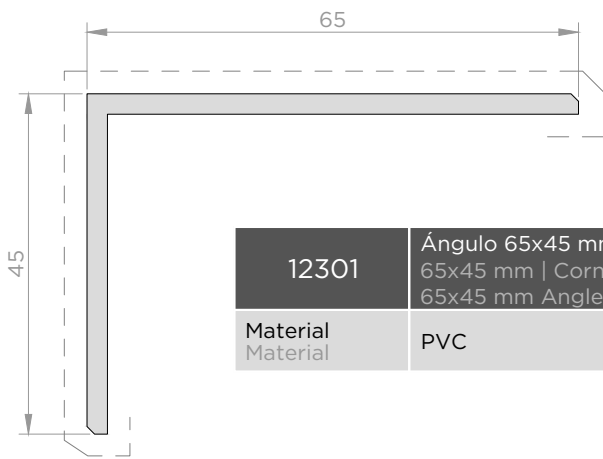
--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



12291	Ángulo 85x45 mm Cantoneira 85x45 mm Cornière 85x45 mm 85x45 mm Angle profile
Material	PVC



12211	Ángulo 25x25 mm Cantoneira 25x25 mm Cornière 25x25 mm 25x25 mm Angle profile
Material	PVC

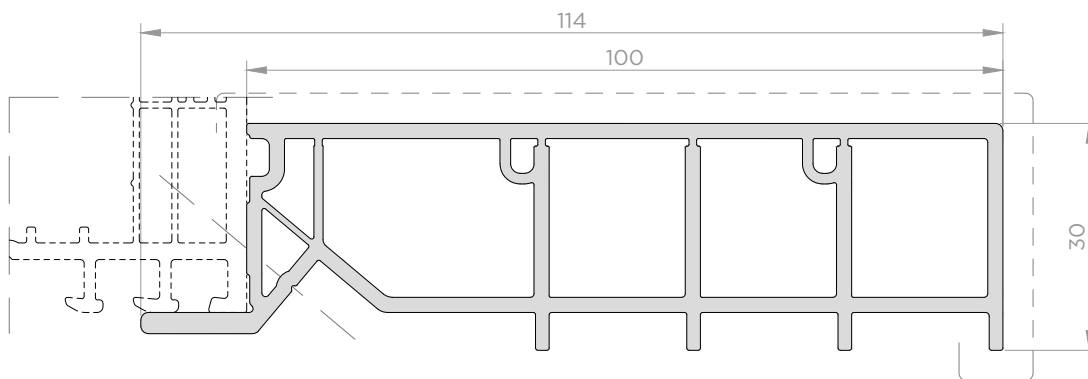


12301	Ángulo 65x45 mm Cantoneira 65x45 mm Cornière 65x45 mm 65x45 mm Angle profile
Material	PVC

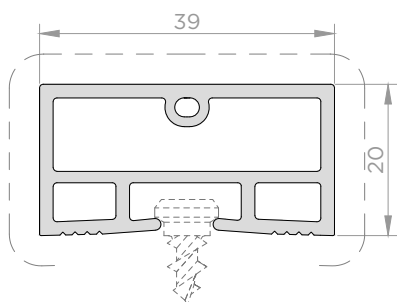


12331	Ángulo 100x60 mm Cantoneira 65x45 mm Cornière 100x60 mm 100x60 mm Angle profile
Material	PVC

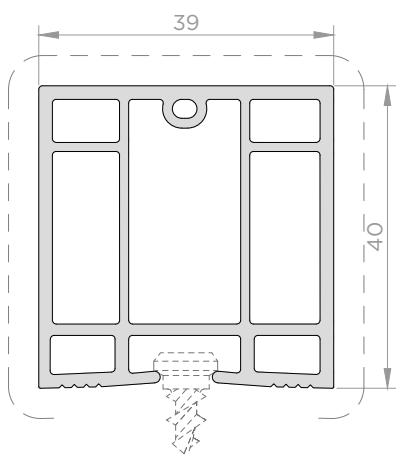
--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



13741	Recercado de marcos 100 mm Moldura de aros 100 mm Habillage d'encadrement 100 mm 100 mm Frame surround
Material	PVC

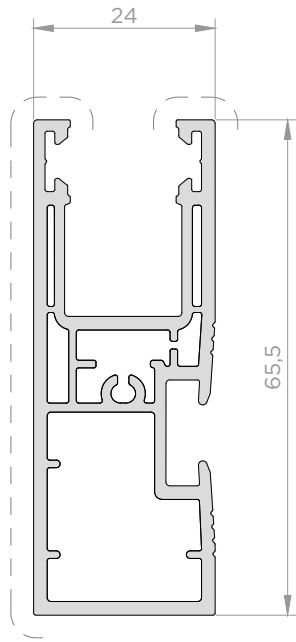


1285	Ampliación guía 20 mm Ampliação de guia 20 mm Extension de rail 20 mm 20 mm Guide extension
Material	PVC



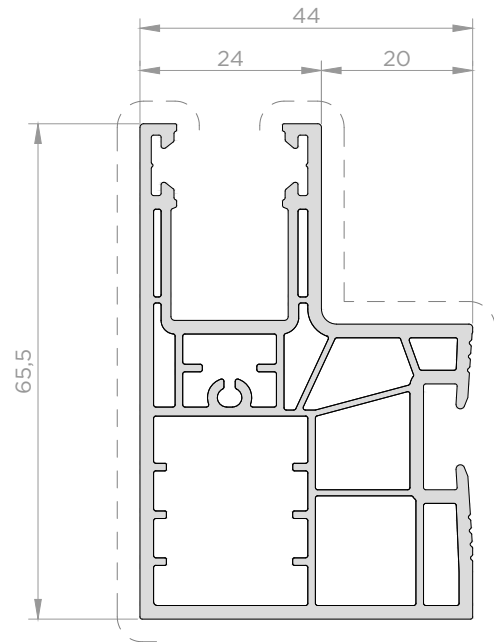
1286	Ampliación guía 40 mm Ampliação de guia 40 mm Extension de rail 40 mm 40 mm Guide extension
Material	PVC

RELACIÓN DE PERFILES | Lista de perfis | Liste des profils | Profile list



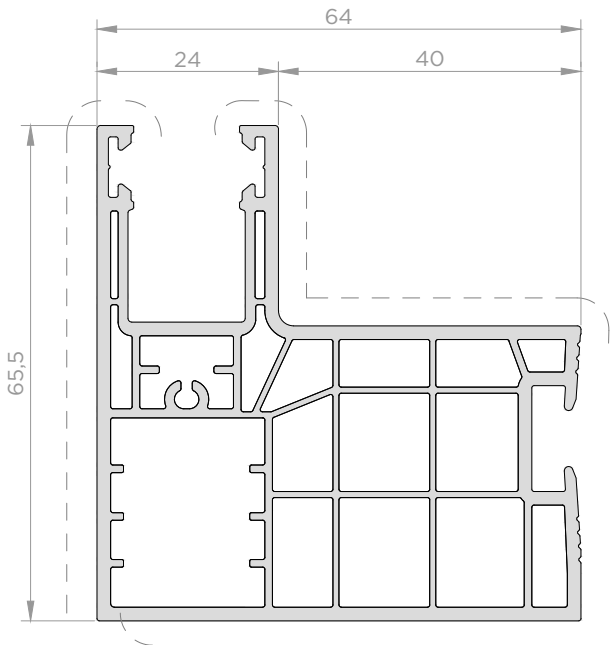
11871	Guía persiana de 24 mm Guia de estore de 24 mm Coulisse de volet roulant de 24 mm 24 mm Shutter guide rail
Material Material	PVC

----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



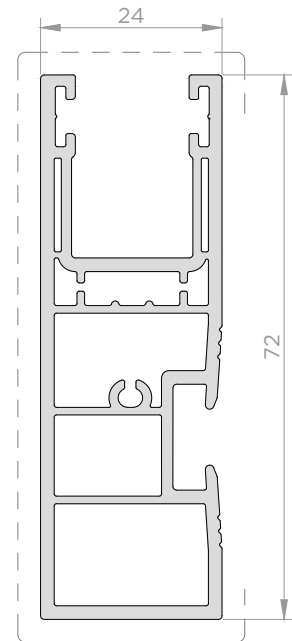
11441	Guía persiana de 44 mm Guia de estore de 44 mm Coulisse de volet roulant de 44 mm 44 mm Shutter guide rail
Material Material	PVC

----- Caras para ser foliadas
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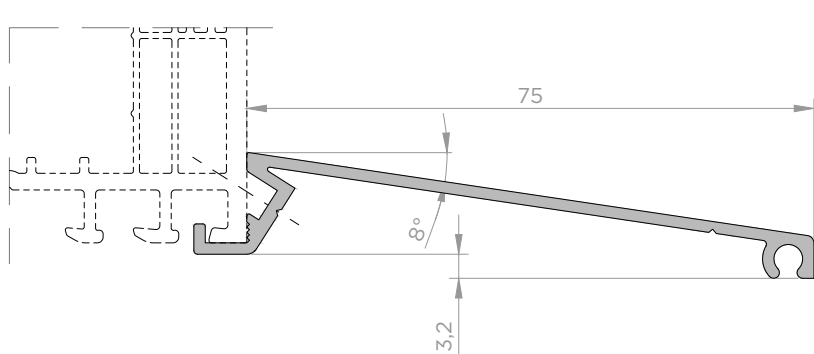
11641	Guía persiana de 64 mm Guia de estore de 64 mm Coulisse de volet roulant de 64 mm 64 mm Shutter guide rail
Material Material	PVC

----- Caras para ser foliadas
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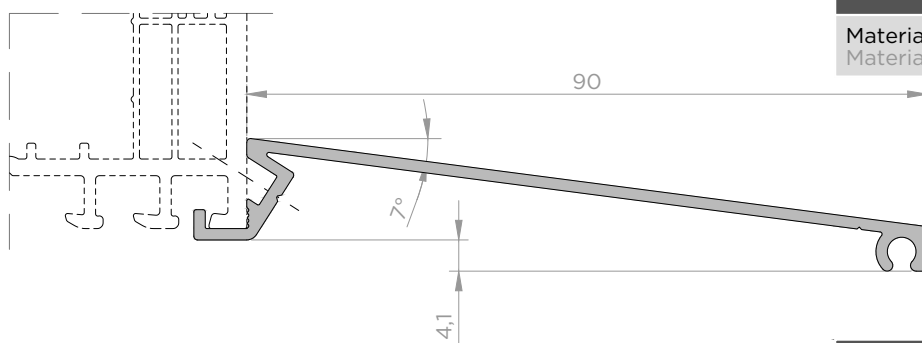
11431	Guía persiana cajón catalán Guia de estore para caixa catalã Coulisse de volet roulant pour coffre tunnel (type catalan) Shutter guide for "Catalan" style box
Material Material	PVC

----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



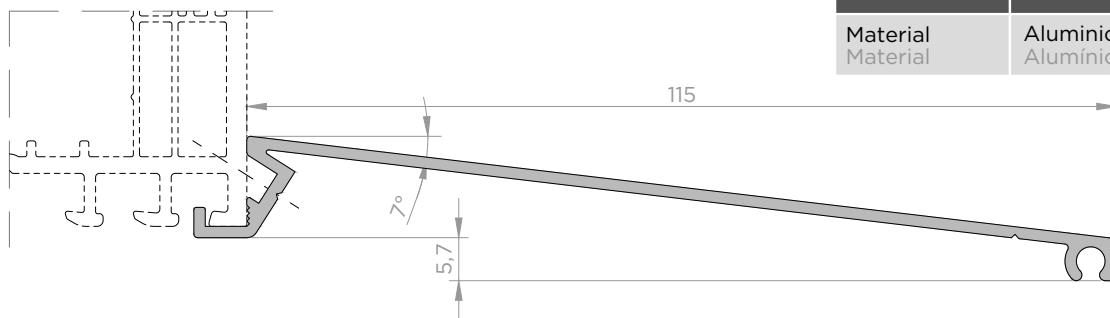
1275	Alargadera de 75 mm Alargadeira de 75 mm Rallonge (élargisseur) de 75 mm 75 mm Extension profile
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Material	Aluminio
Material	Aluminio



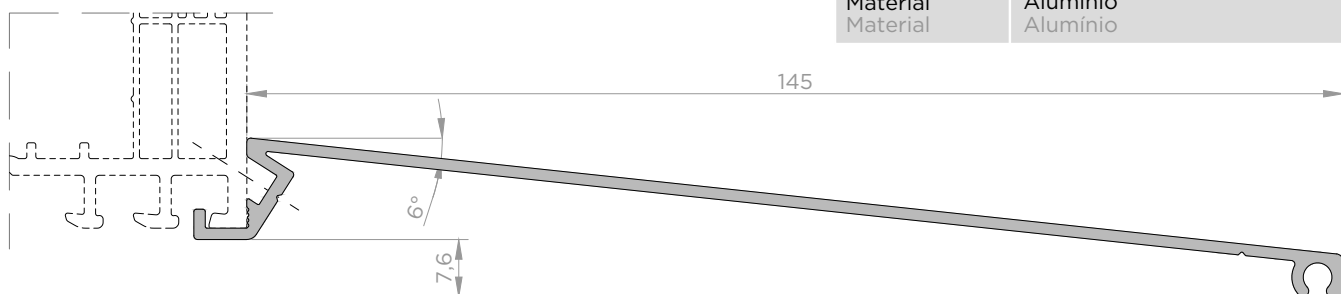
1274	Alargadera de 90 mm Alargadeira de 90 mm Rallonge (élargisseur) de 90 mm 90 mm Extension profile
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Material	Aluminio
Material	Aluminio



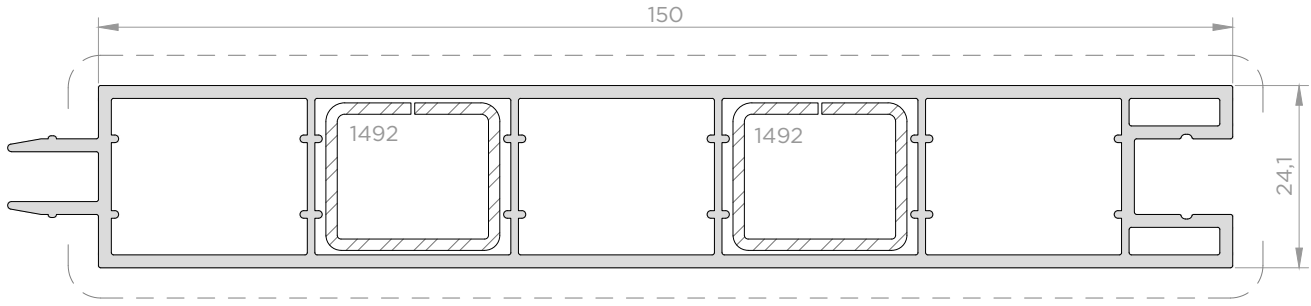
1276	Alargadera de 115 mm Alargadeira de 115 mm Rallonge (élargisseur) de 115 mm 115 mm Extension profile
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Material	Aluminio
Material	Aluminio

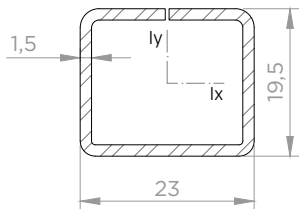


1278	Alargadera de 145 mm Alargadeira de 145 mm Rallonge (élargisseur) de 145 mm 145 mm Extension profile
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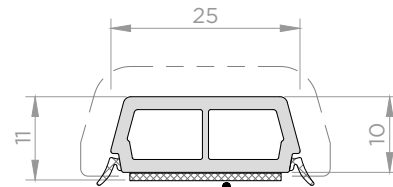
Material	Aluminio
Material	Aluminio



13801	Lama machihembrada de 150 mm Régua macho-fêmea de 150 mm Lame emboitable de 150 mm 150 mm Tongue and groove slat
Material Material	PVC
Refuerzo Reforços	 1492

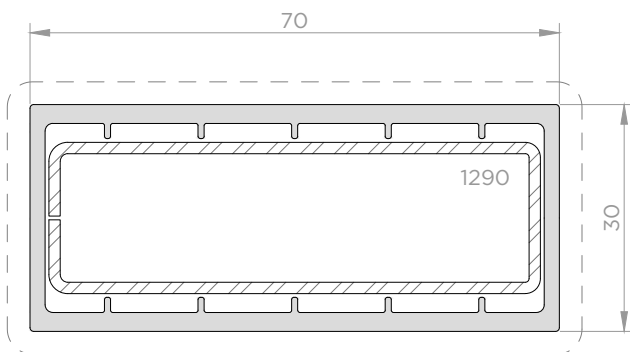



1492	Refuerzo de 23x19,5 mm Reforço de 23x19,5 mm Renfort de 23x19,5 mm 23x19.5 mm Steel reinforcement
Material Material	Acero galvanizado DX51D - Z140 Aço galvanizado DX51D - Z140
Peso (gr/m) Peso (gr/m)	883,10
Inercia (cm ⁴) Inércia (cm ⁴)	lxx 0,62 lyy 0,82

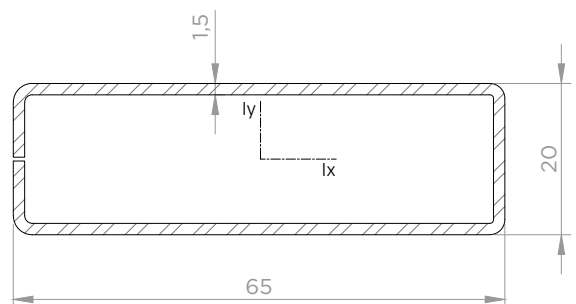


Cinta adhesiva 19x1mm (adhesivo doble cara)
Fita adesiva 19x1mm (adesivo nas duas faces)

13751	Barrotillo divisor 25 mm Barrotilho divisor 25 mm Petit-bois de 25 mm 25 mm Muntin bar
Material Material	PVC



12551	Tubo 70x30 mm Tubo 70x30 mm Tube 70x30 mm 70x30 mm Rectangular tube
Material Material	PVC
Refuerzo Reforços	 1290



1290	Refuerzo de 65x20 mm Reforço de 65x20 mm Renfort de 65x20 mm 65x20 mm Steel reinforcement
Material Material	Acero galvanizado DX51D - Z140 Aço galvanizado DX51D - Z140
Peso (gr/m) Peso (gr/m)	1.883,90
Inercia (cm ⁴) Inércia (cm ⁴)	lxx 1,75 lyy 11,39

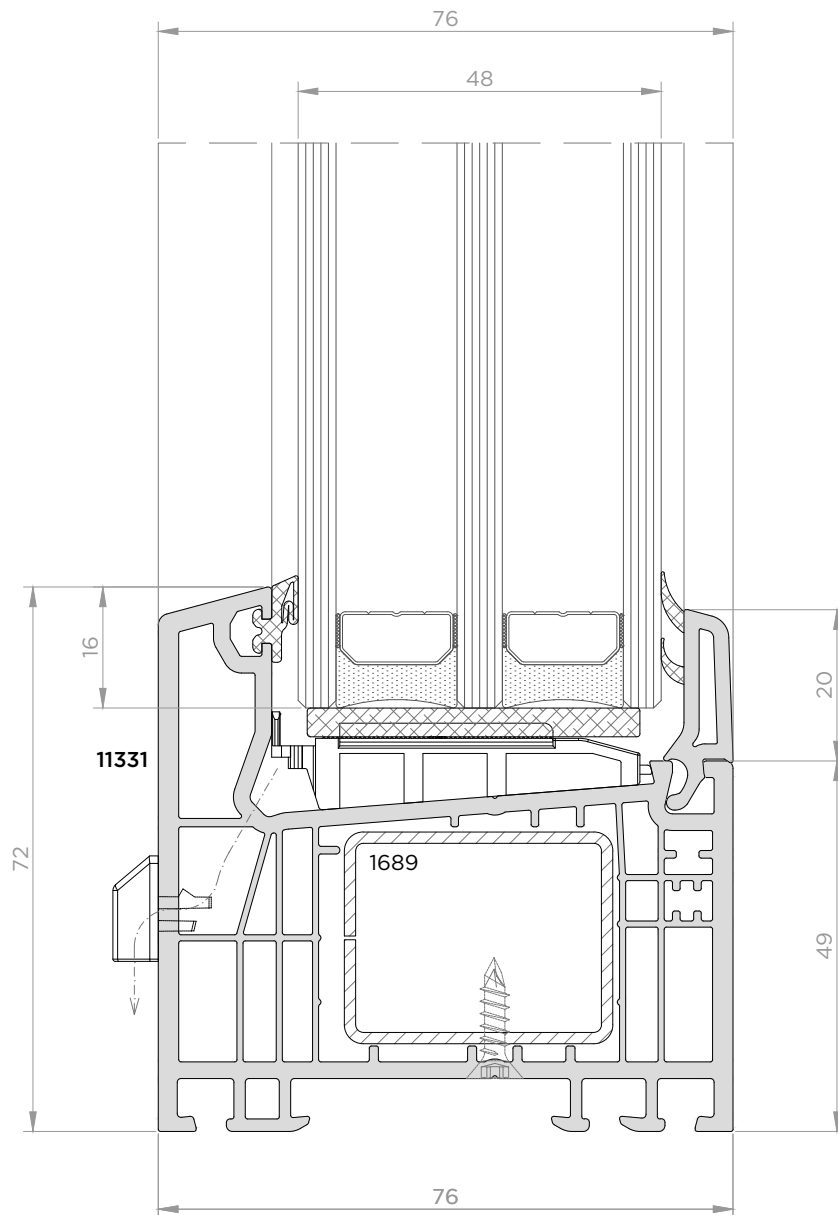
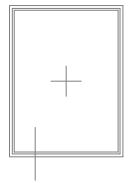
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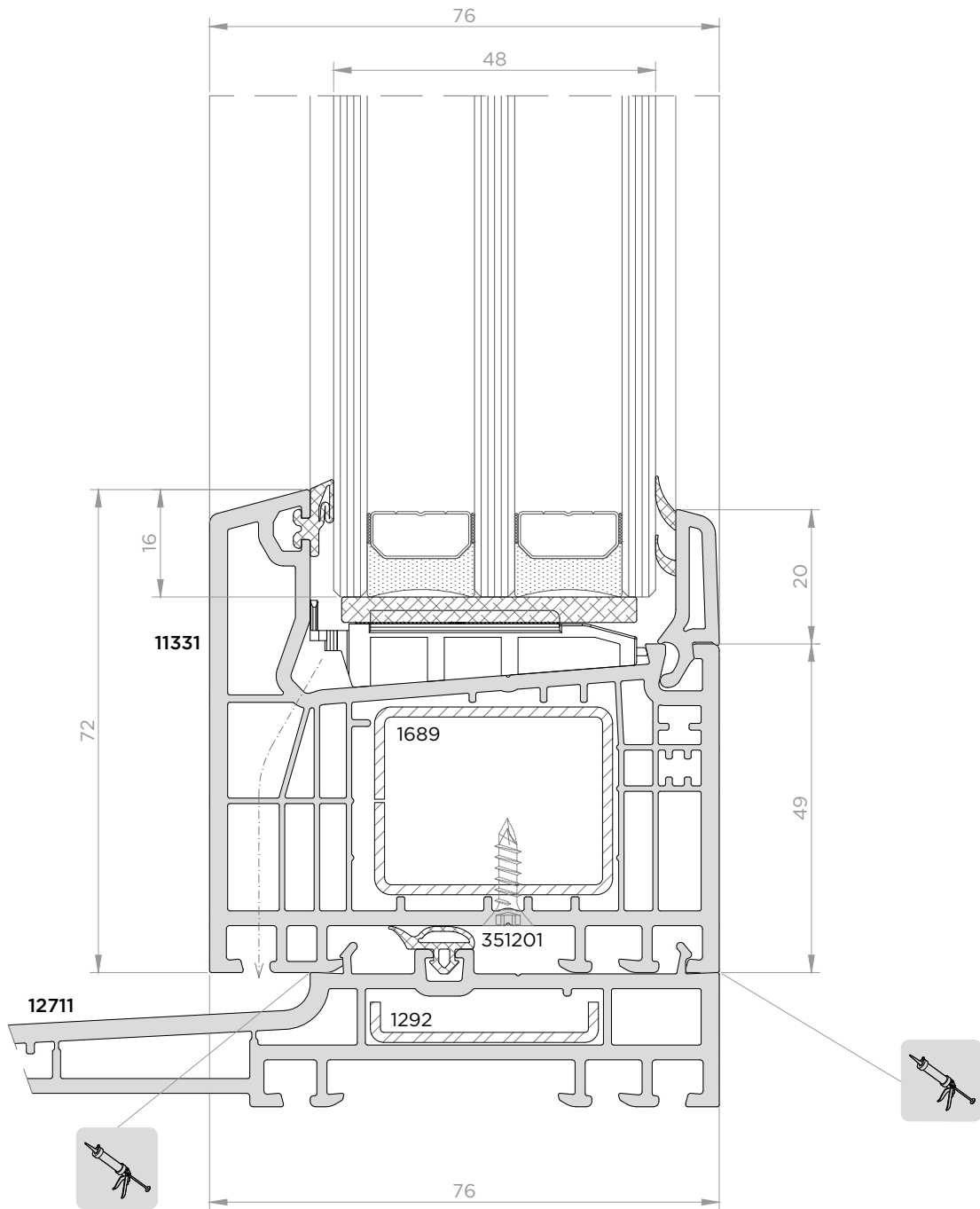
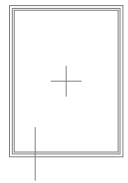
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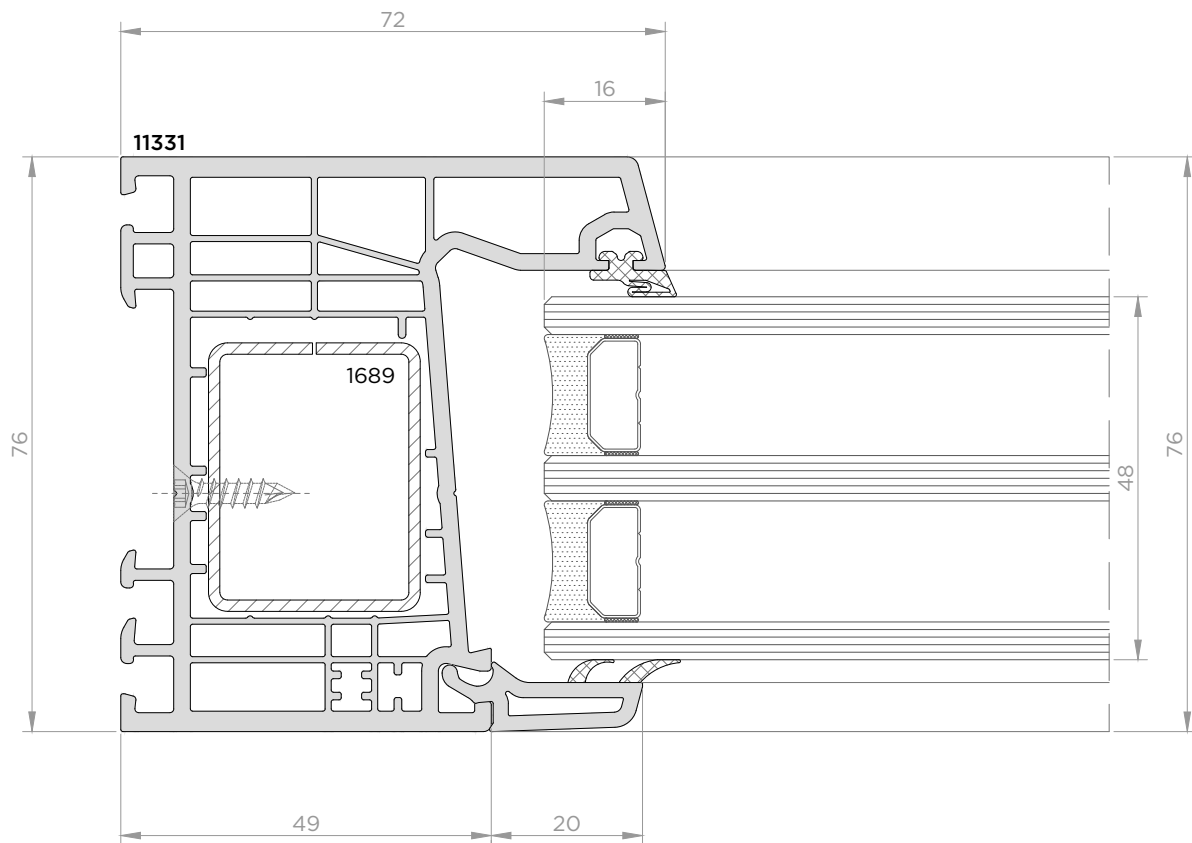
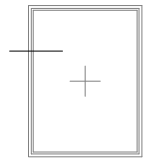
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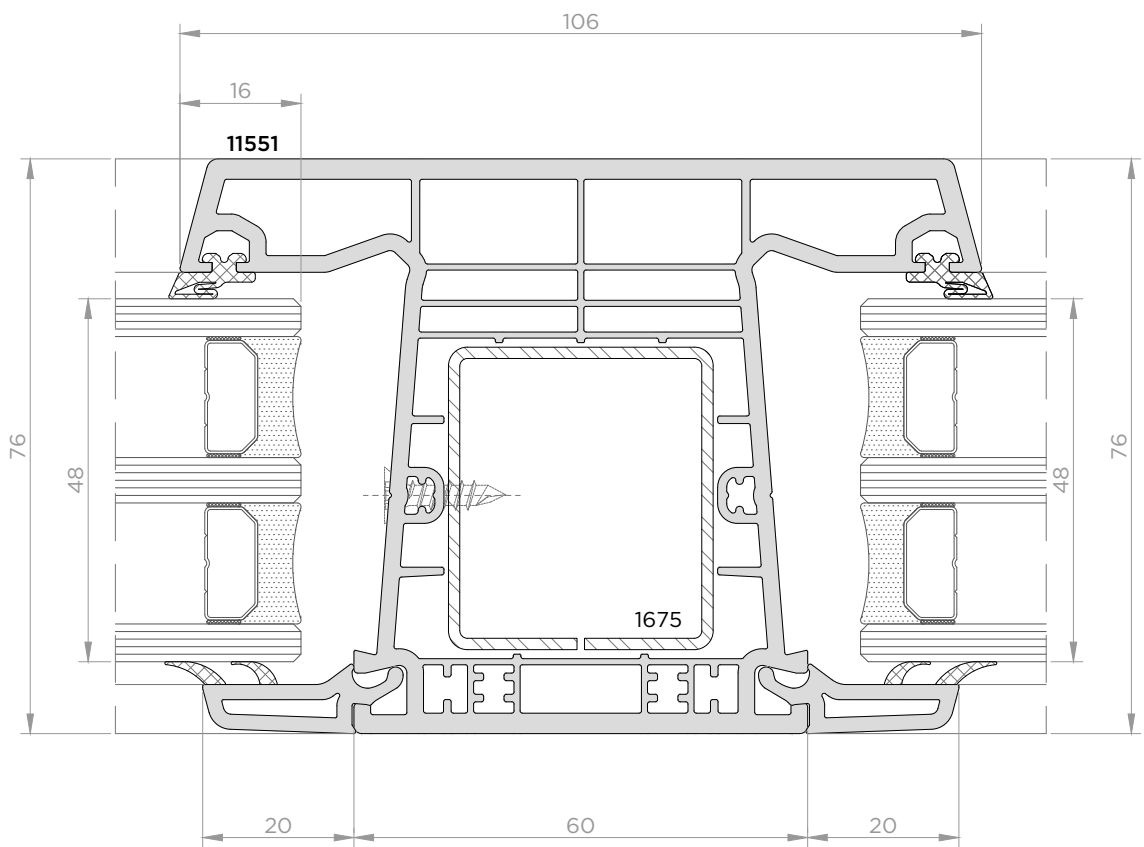
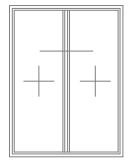
Componentes e secções | Composants et sections | Components and sections

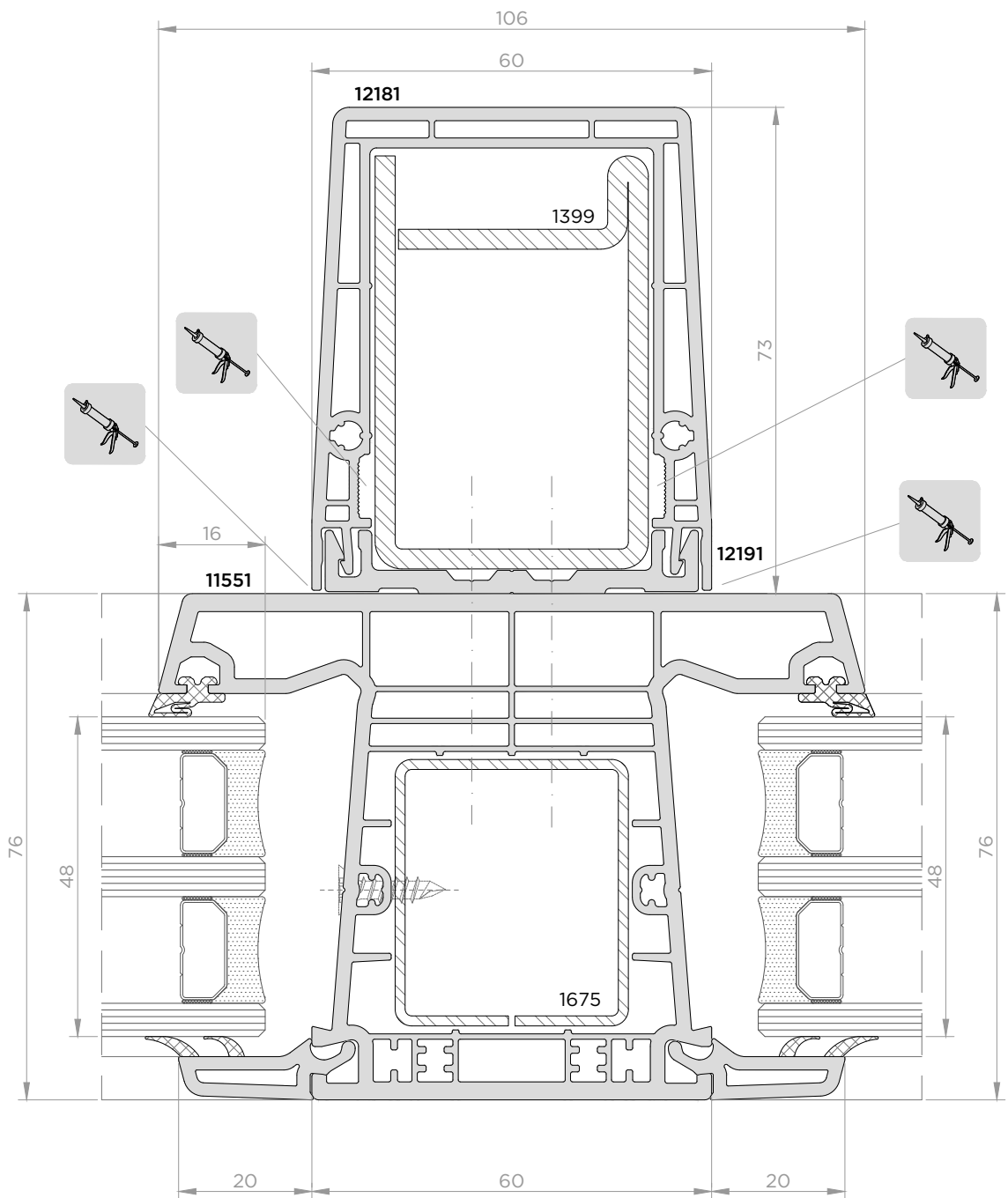
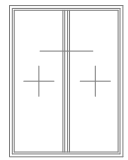
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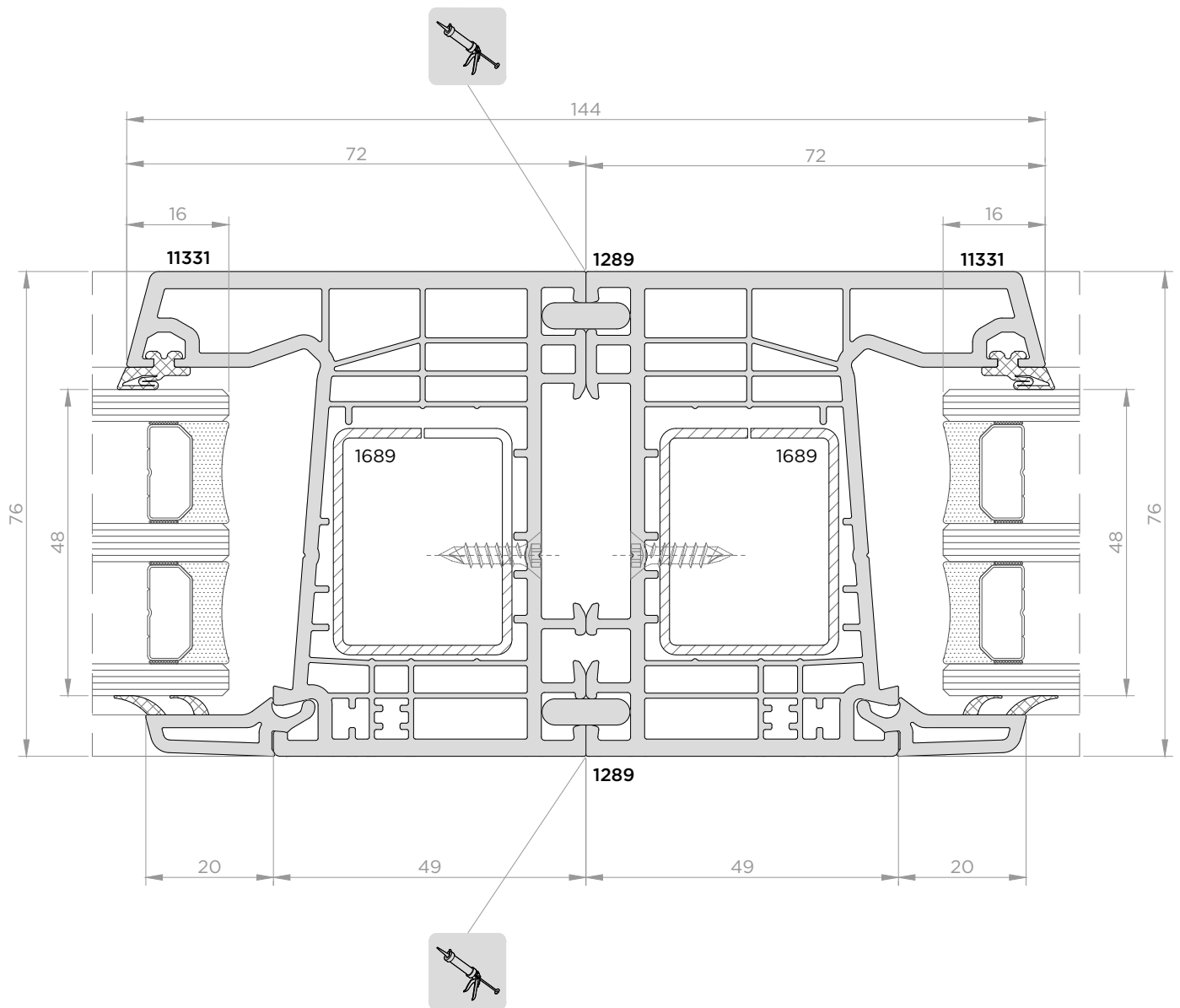
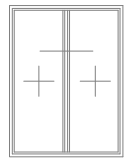


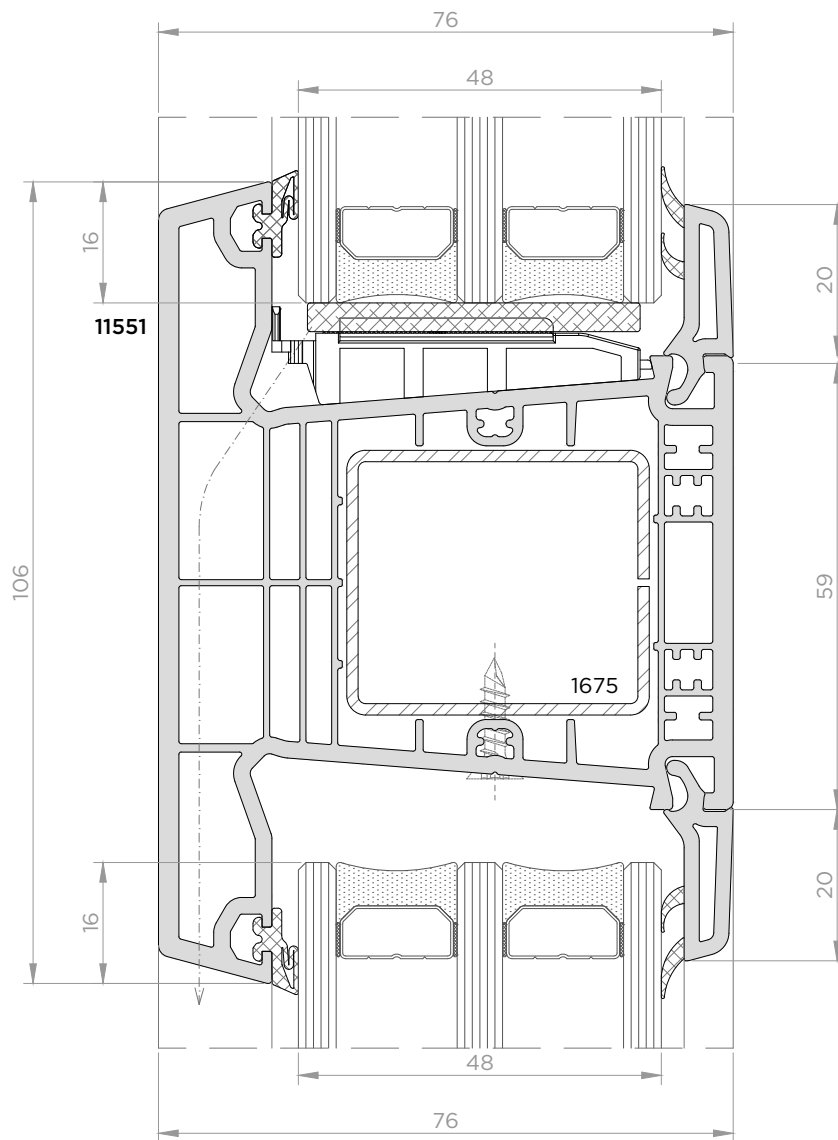
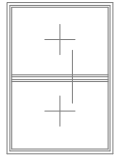


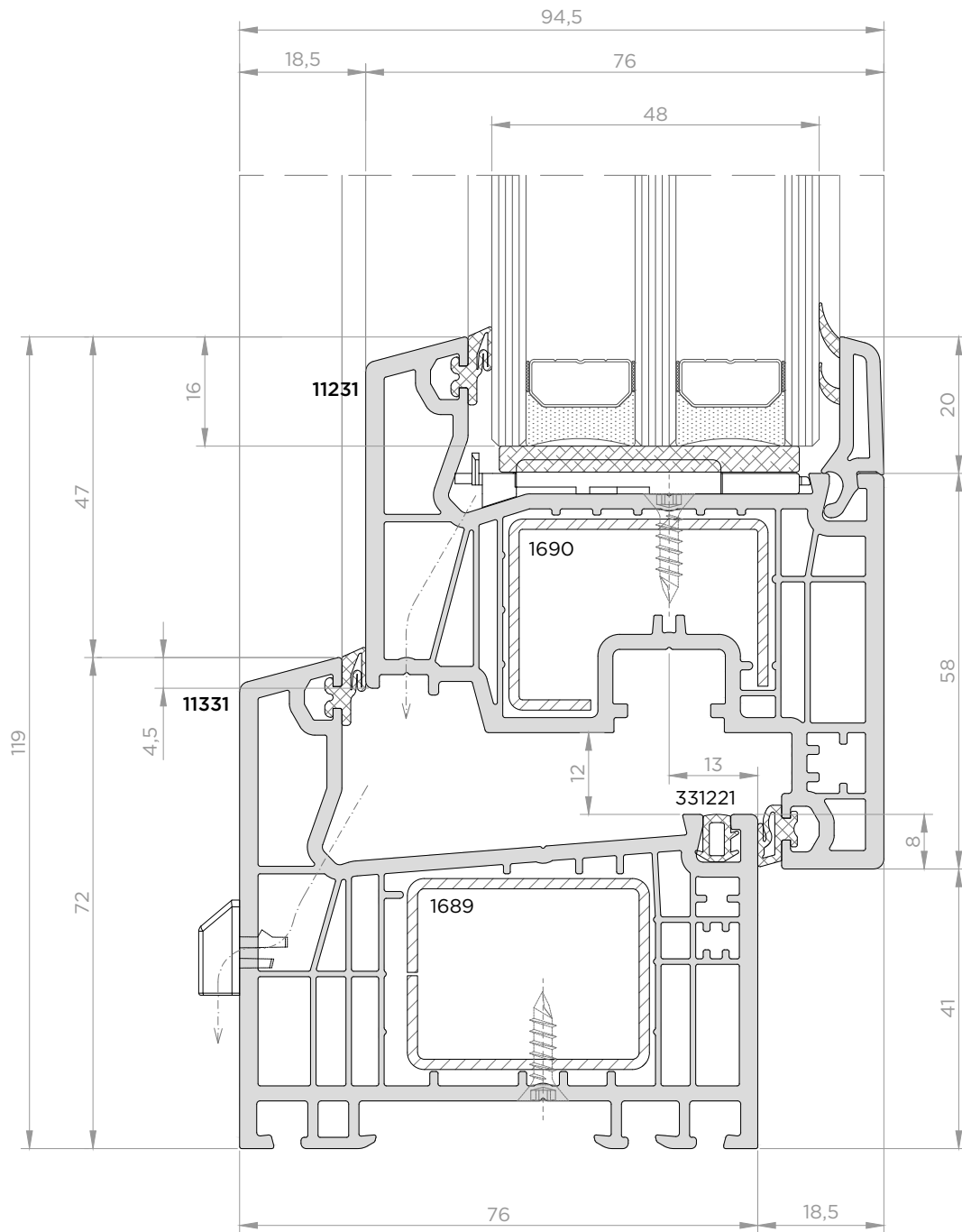
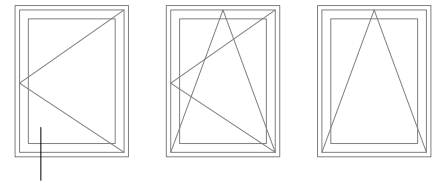


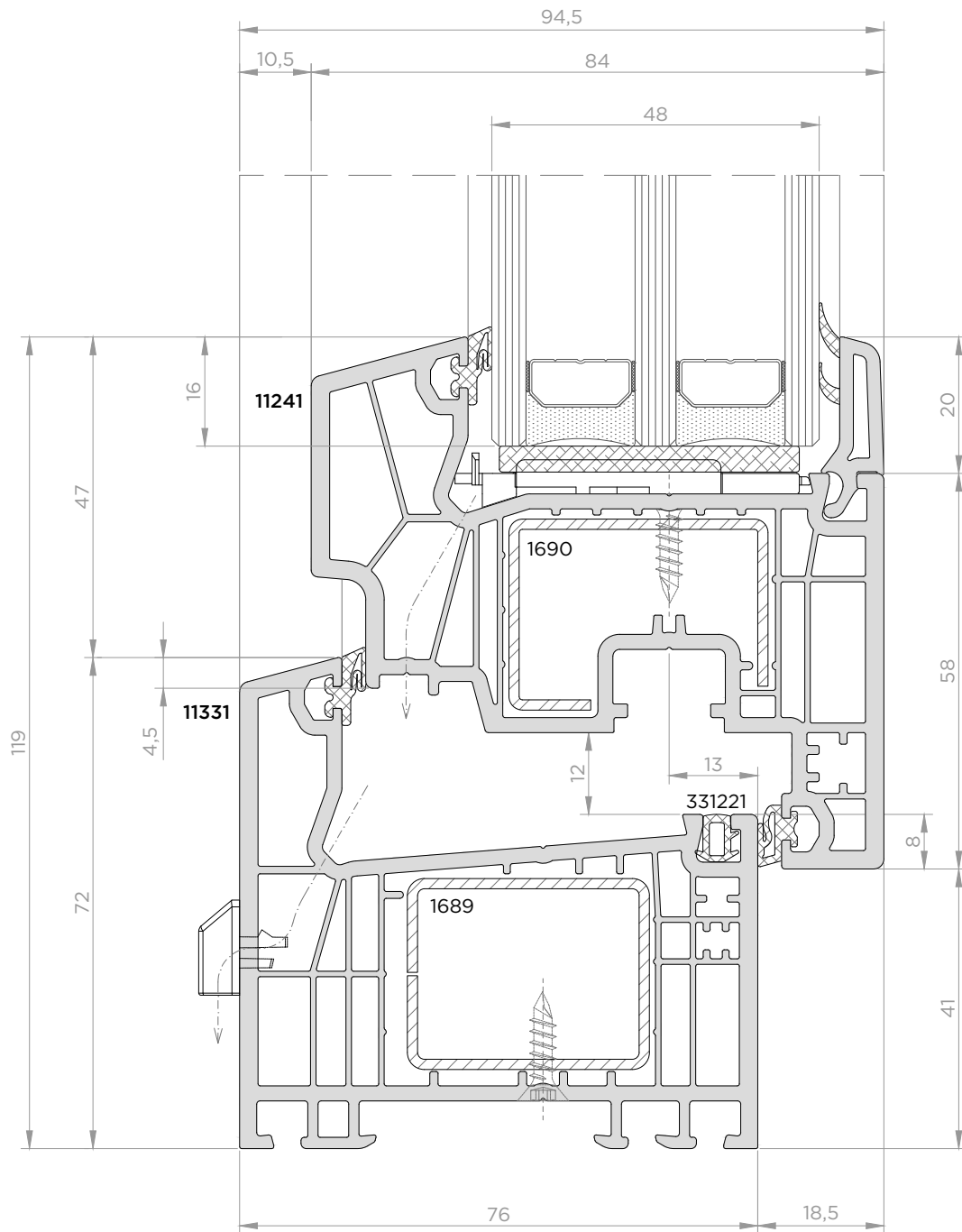
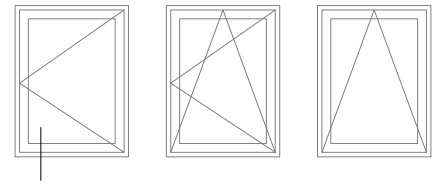


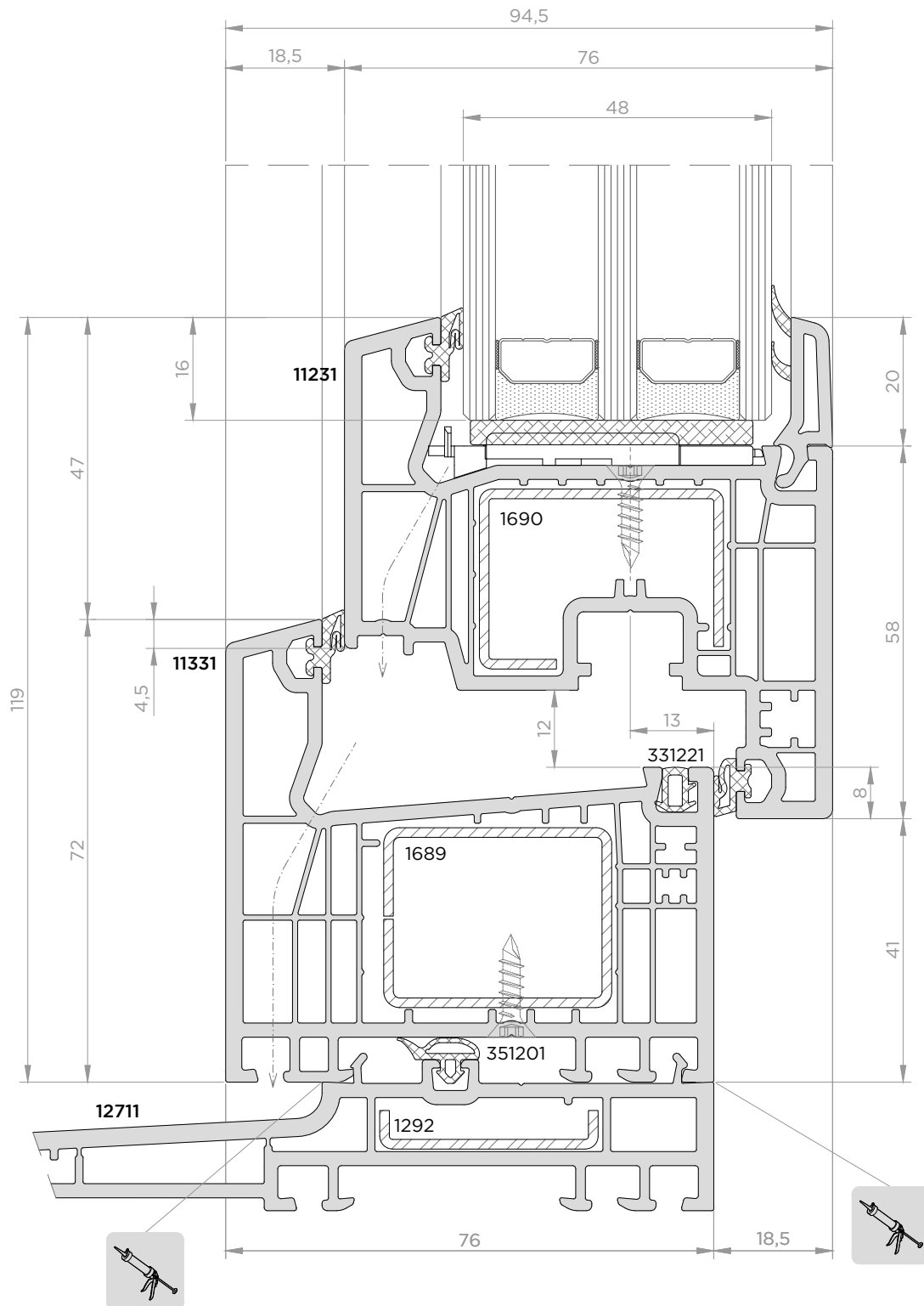
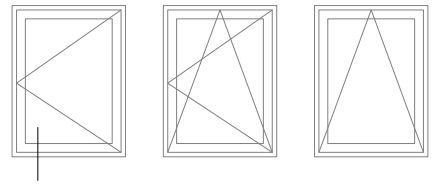


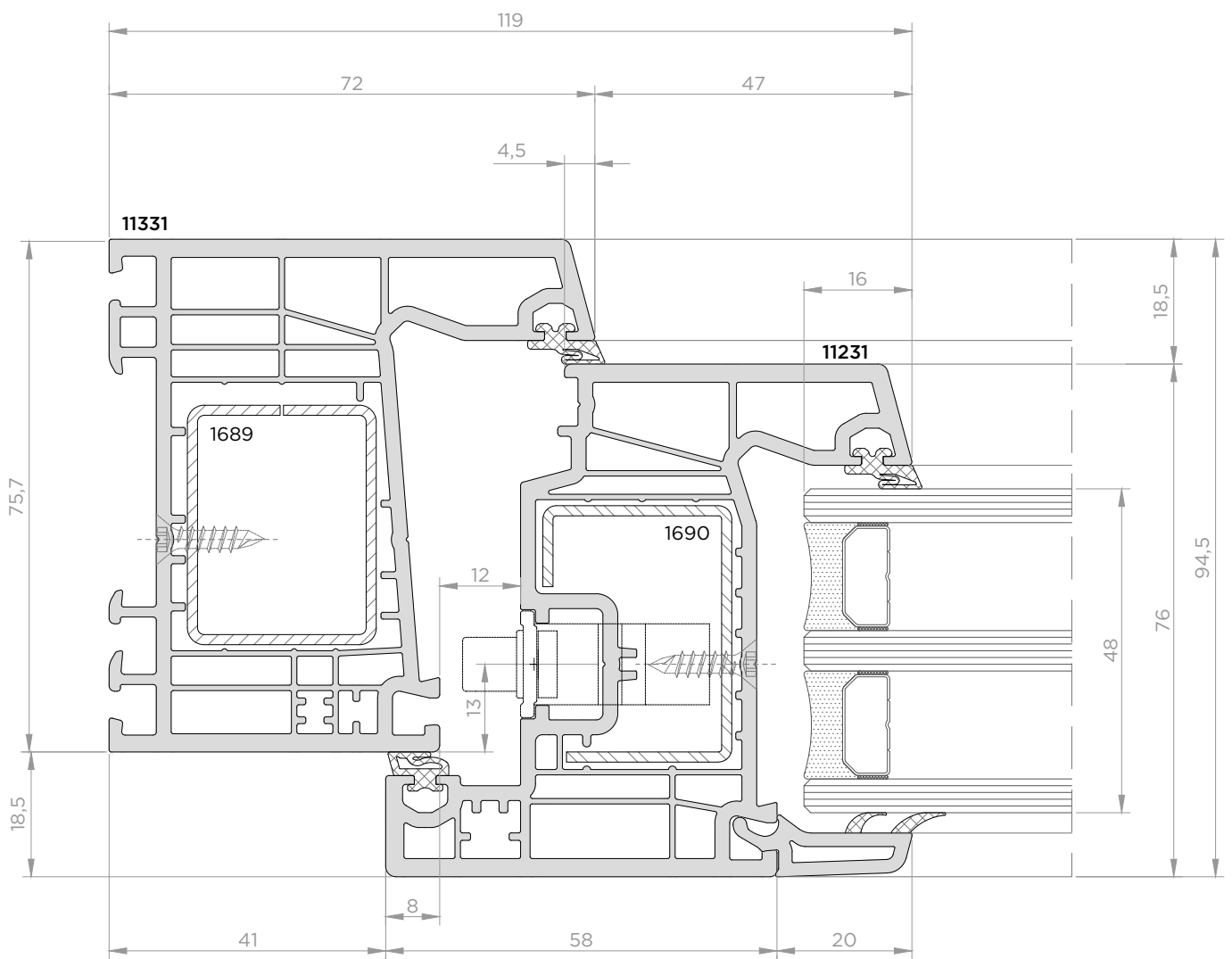
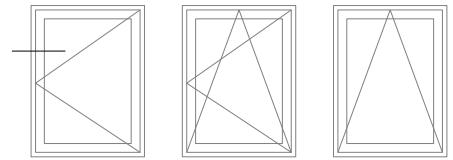


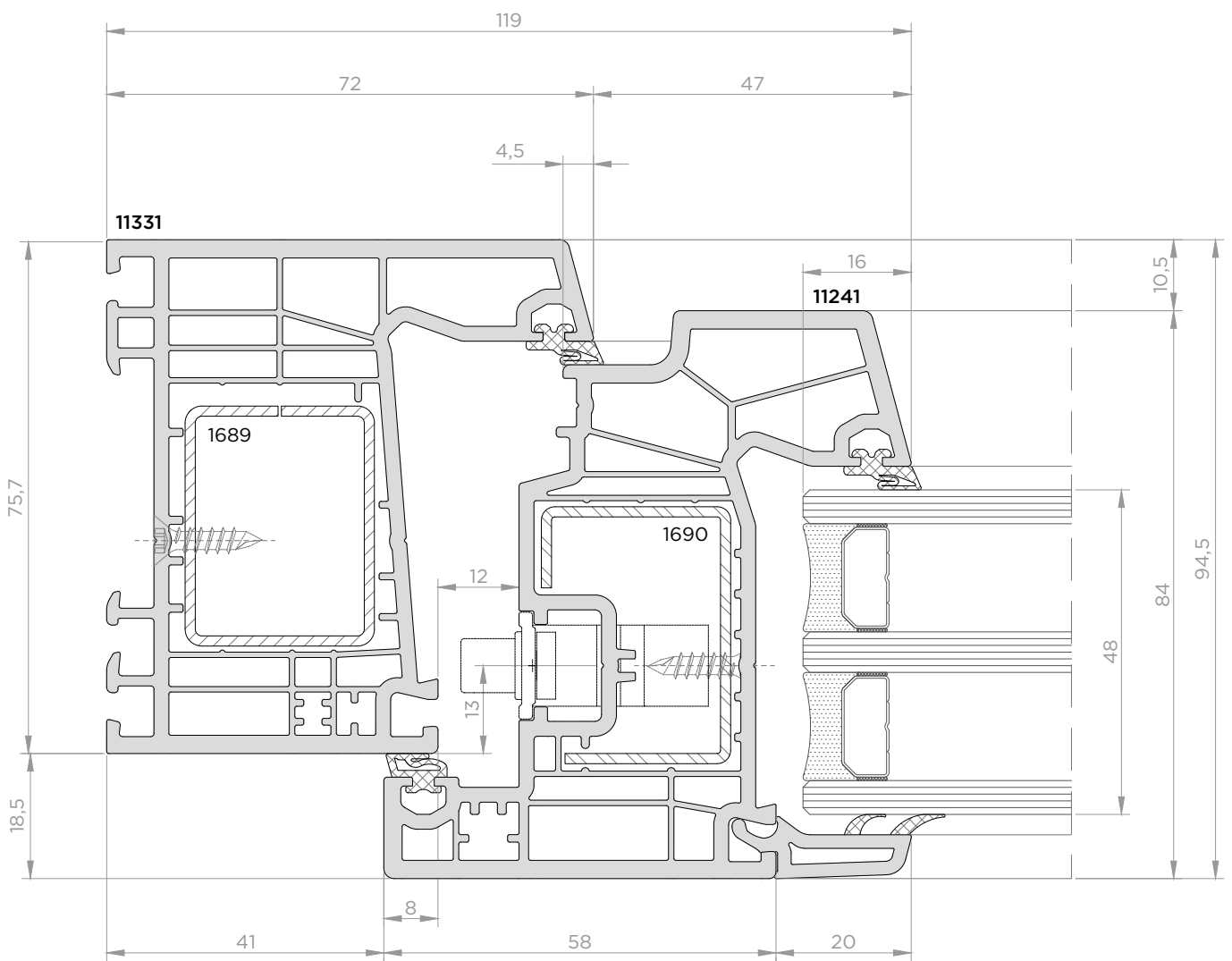
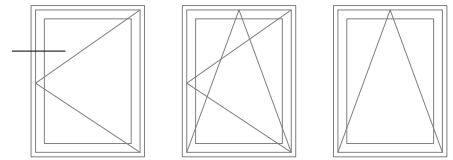


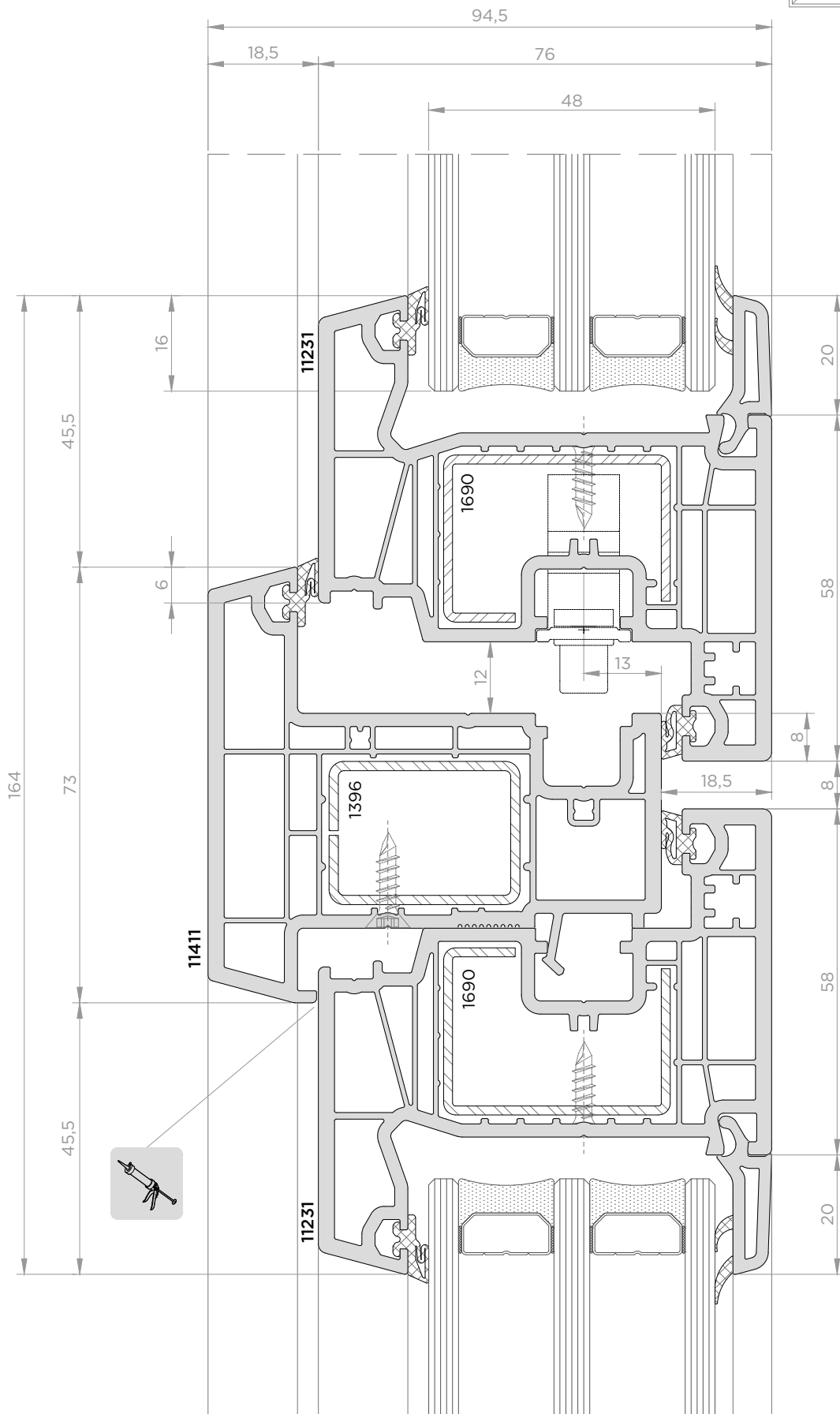
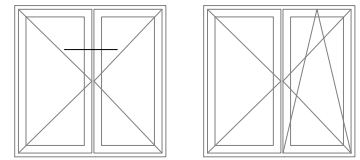


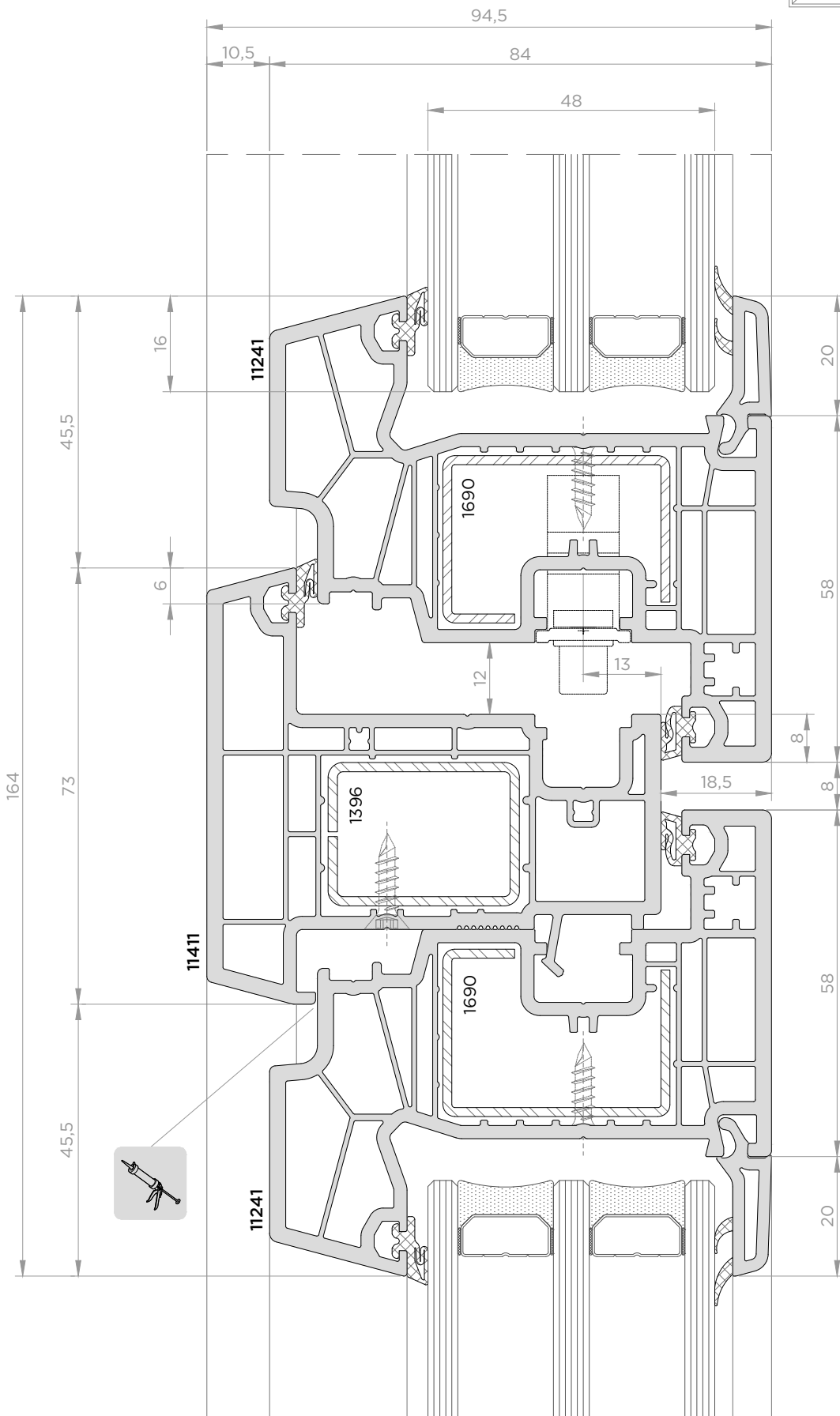
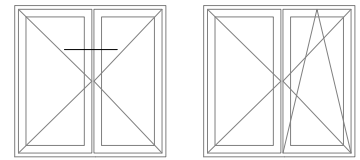


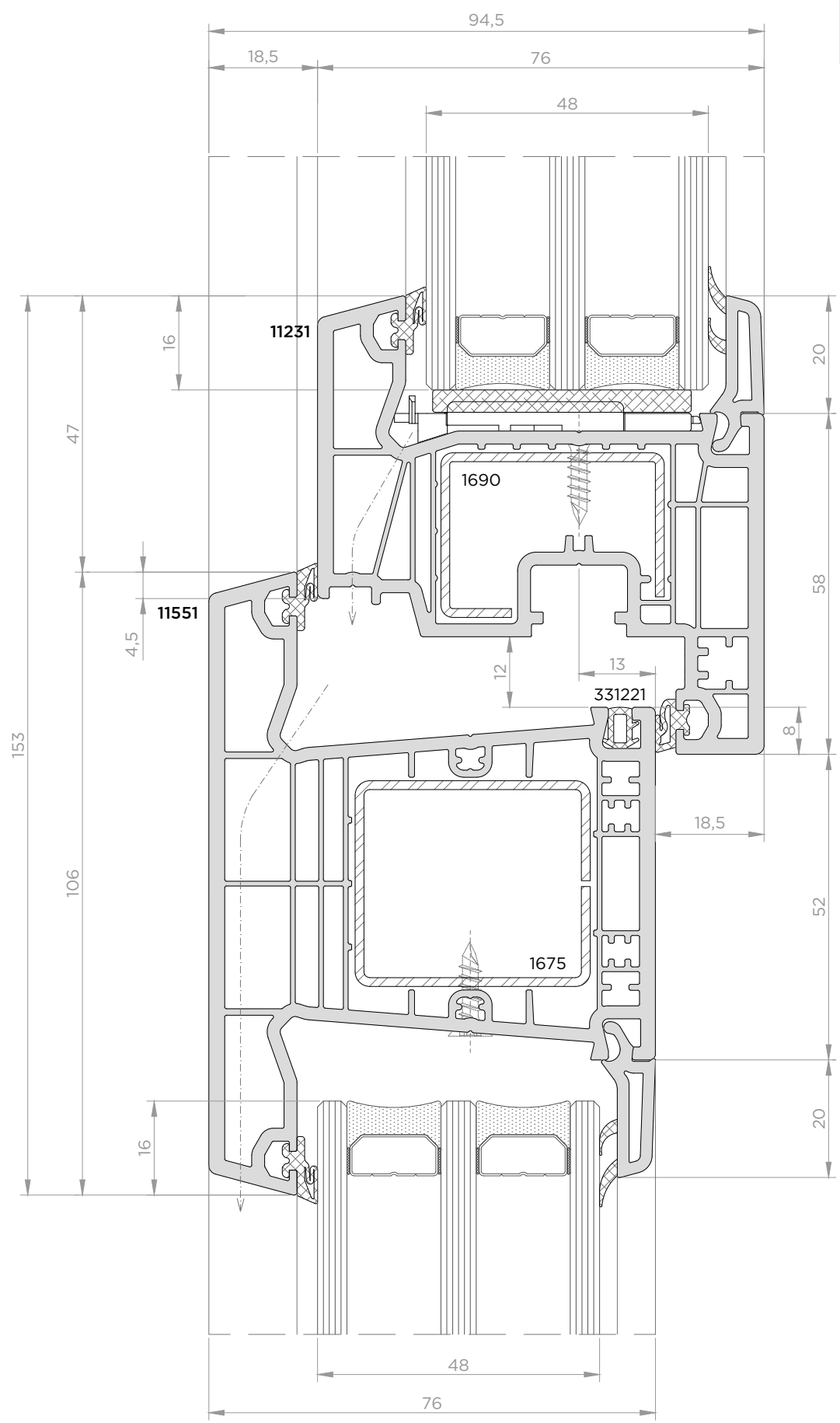
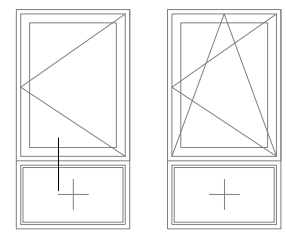


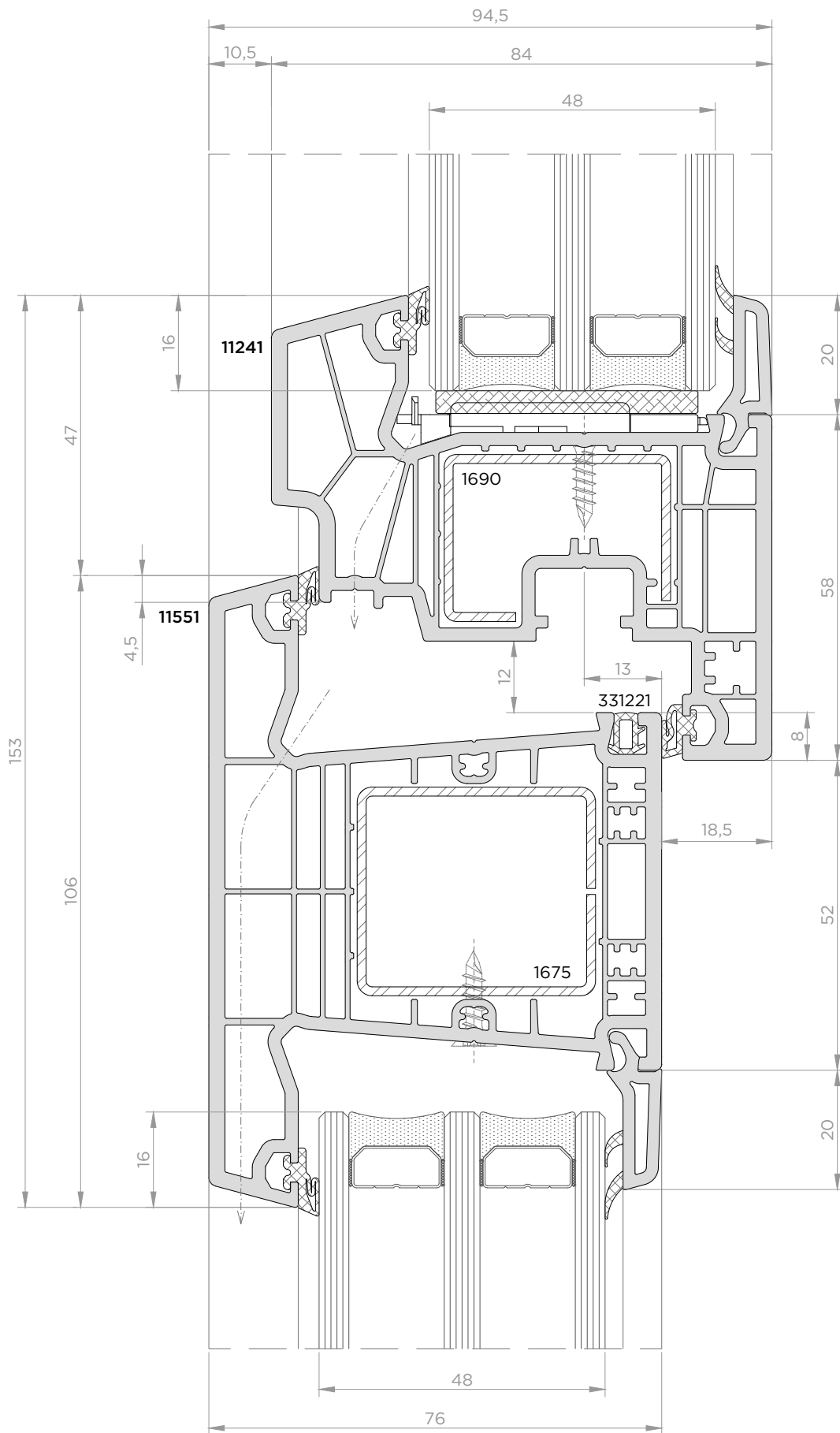
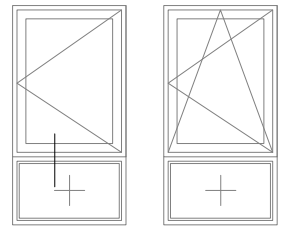


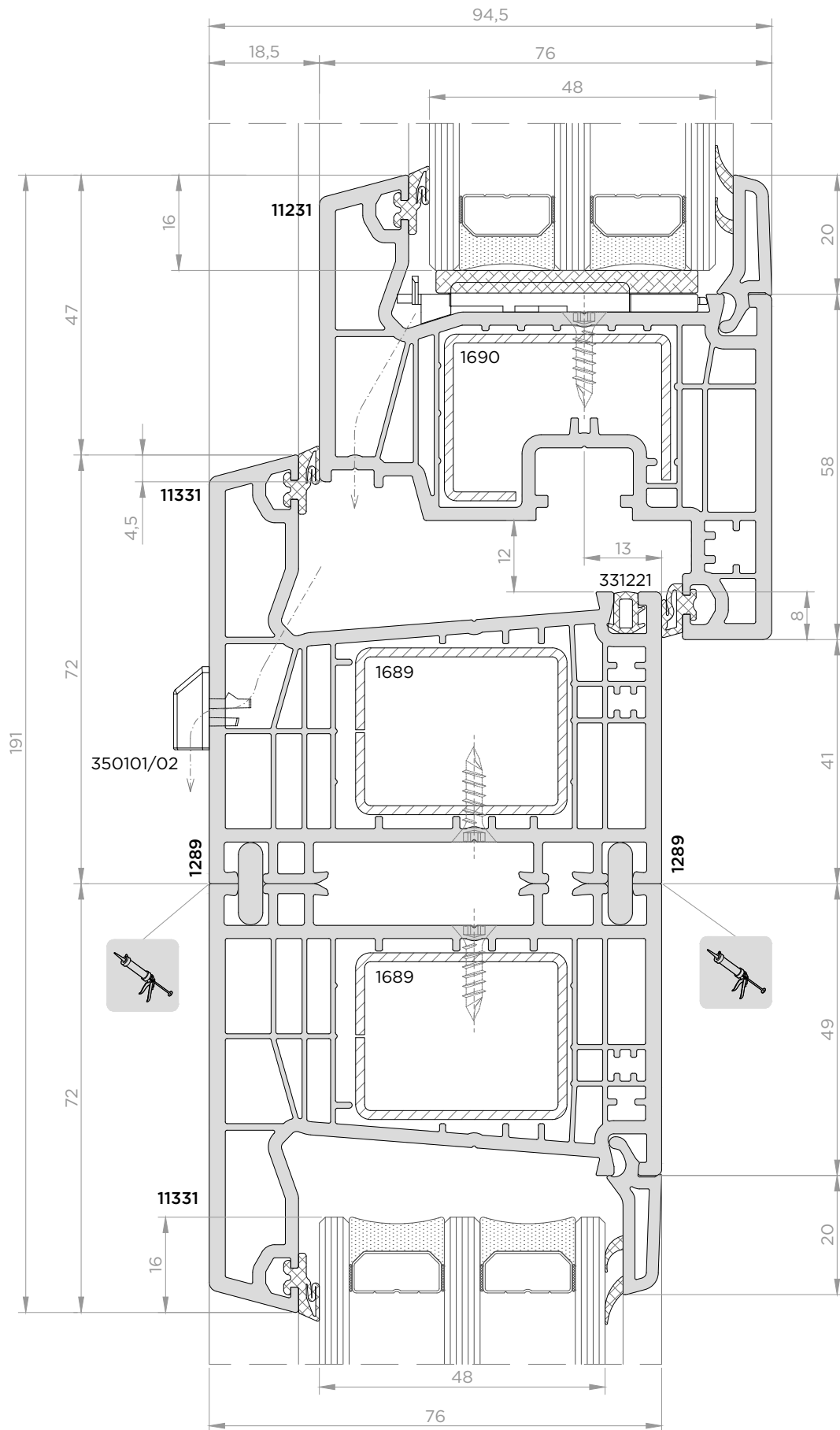
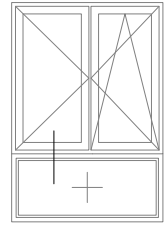


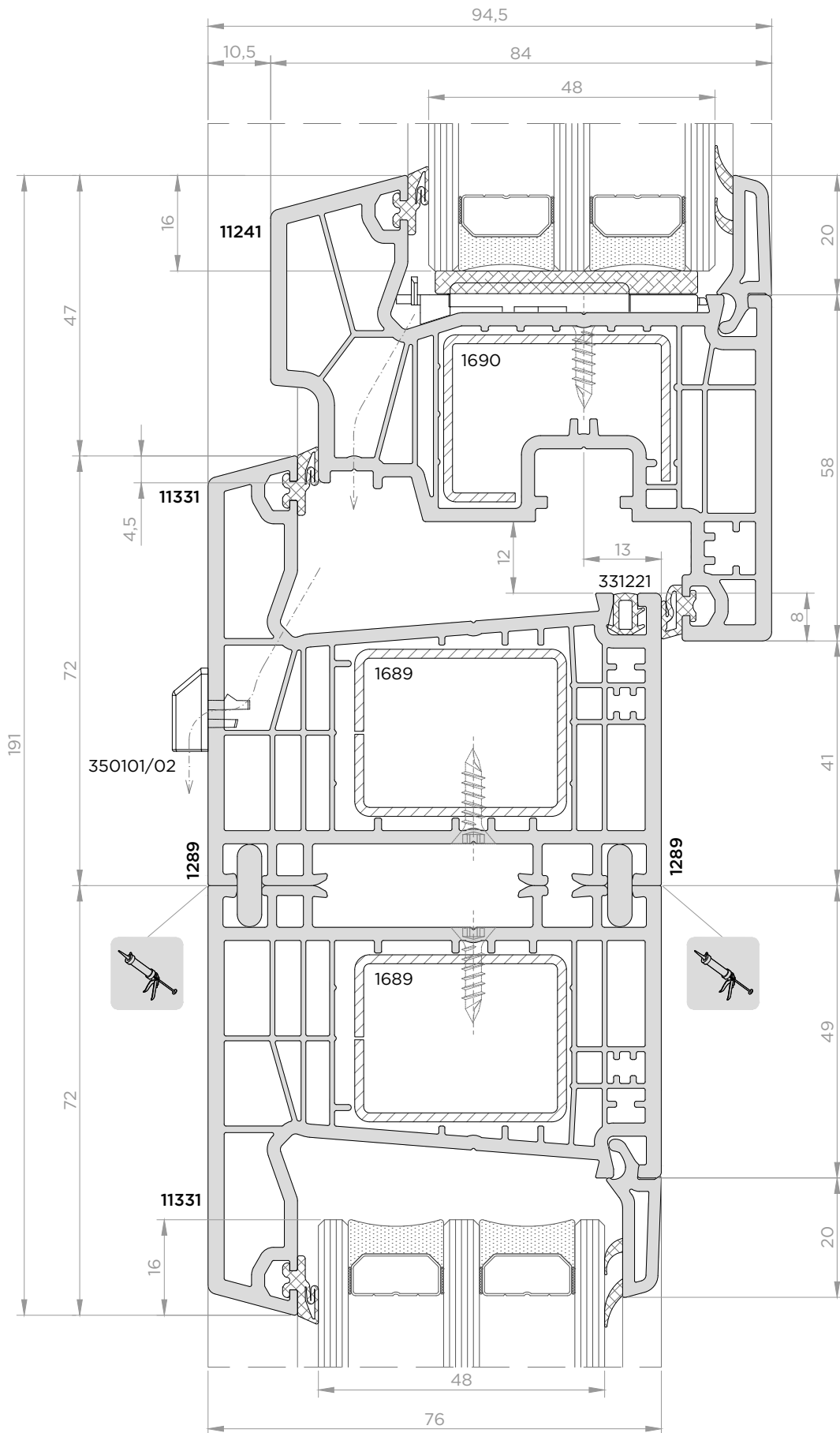
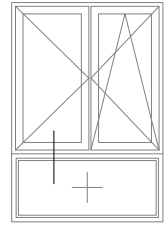


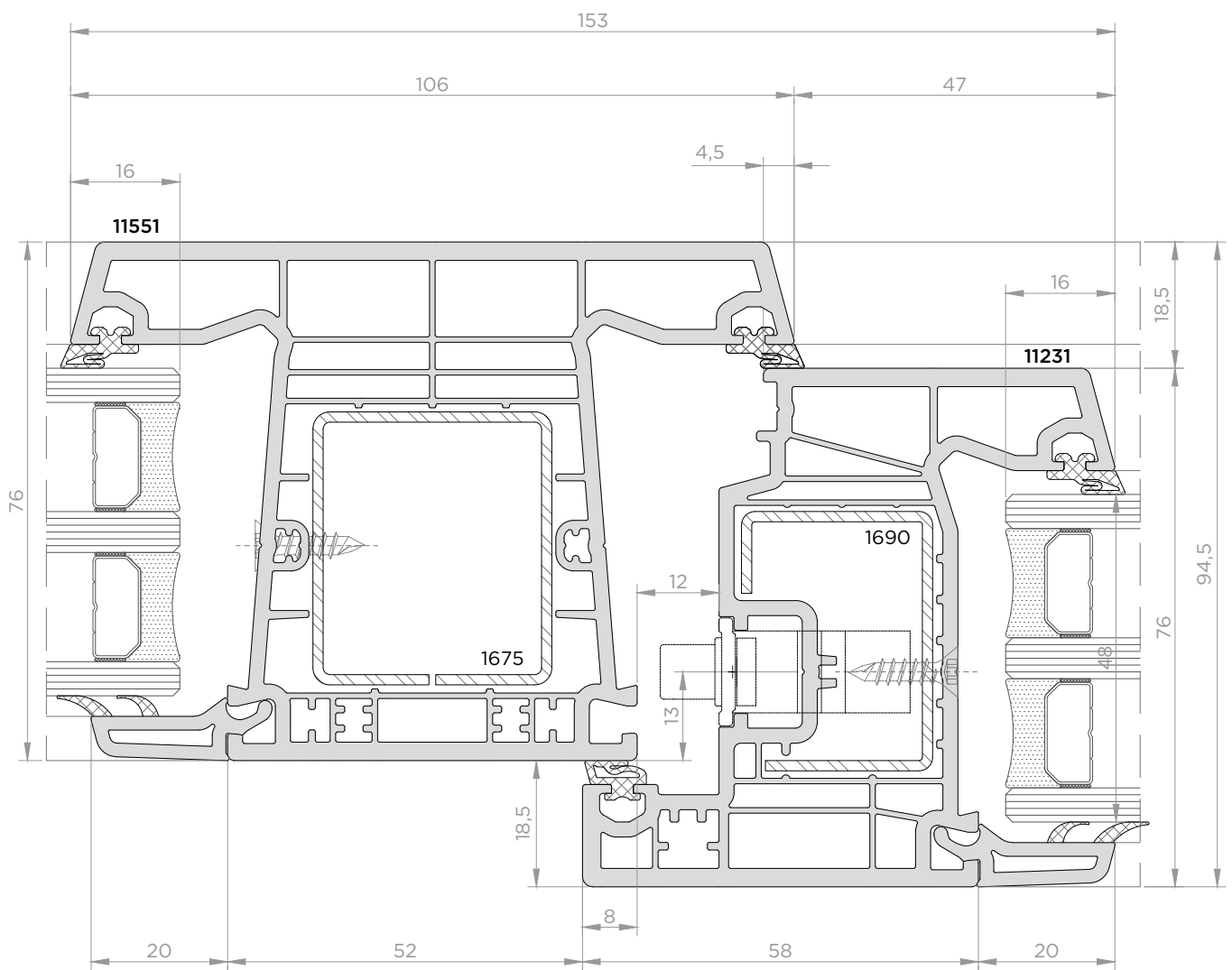
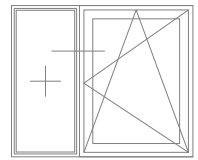


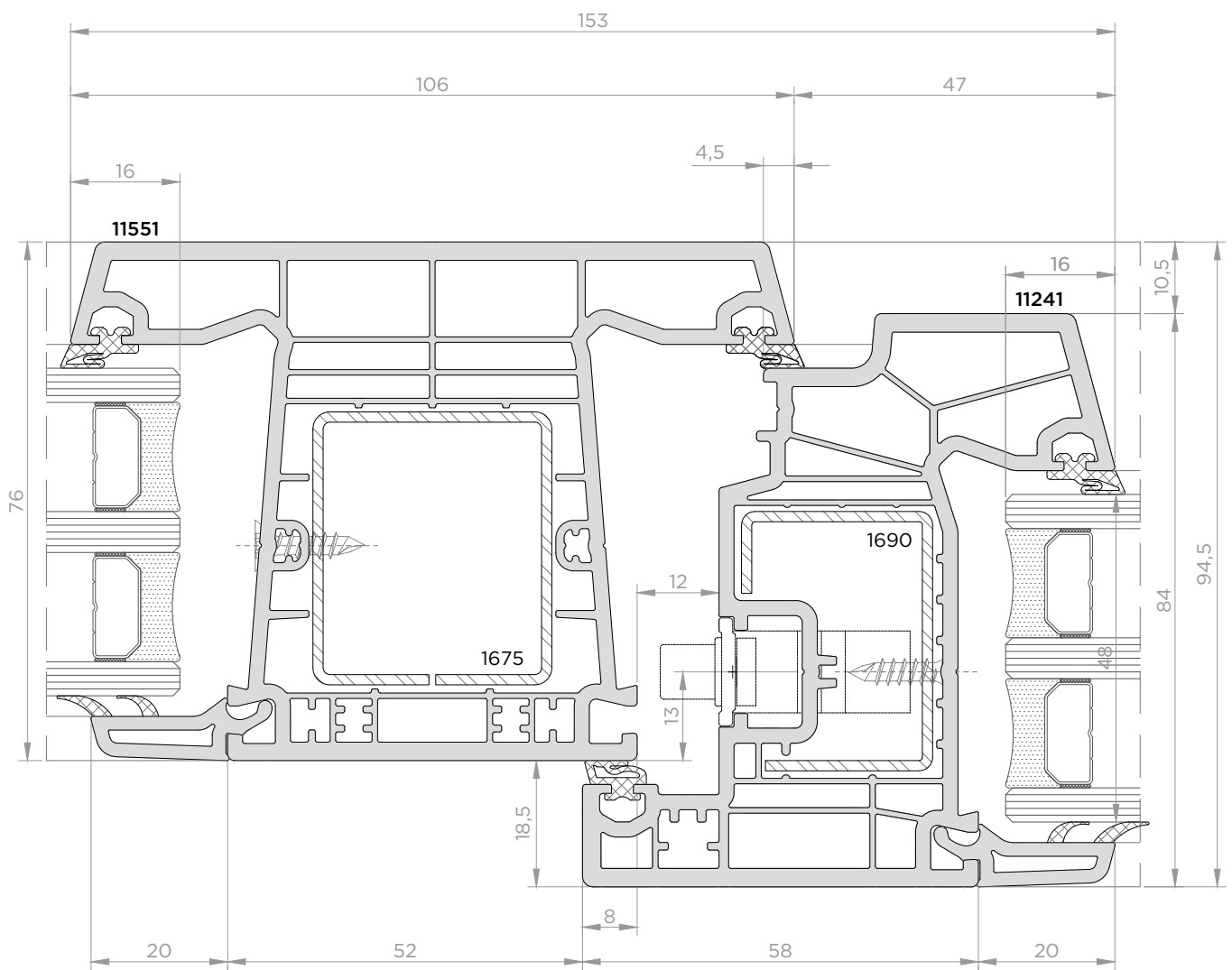
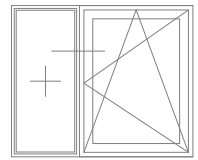


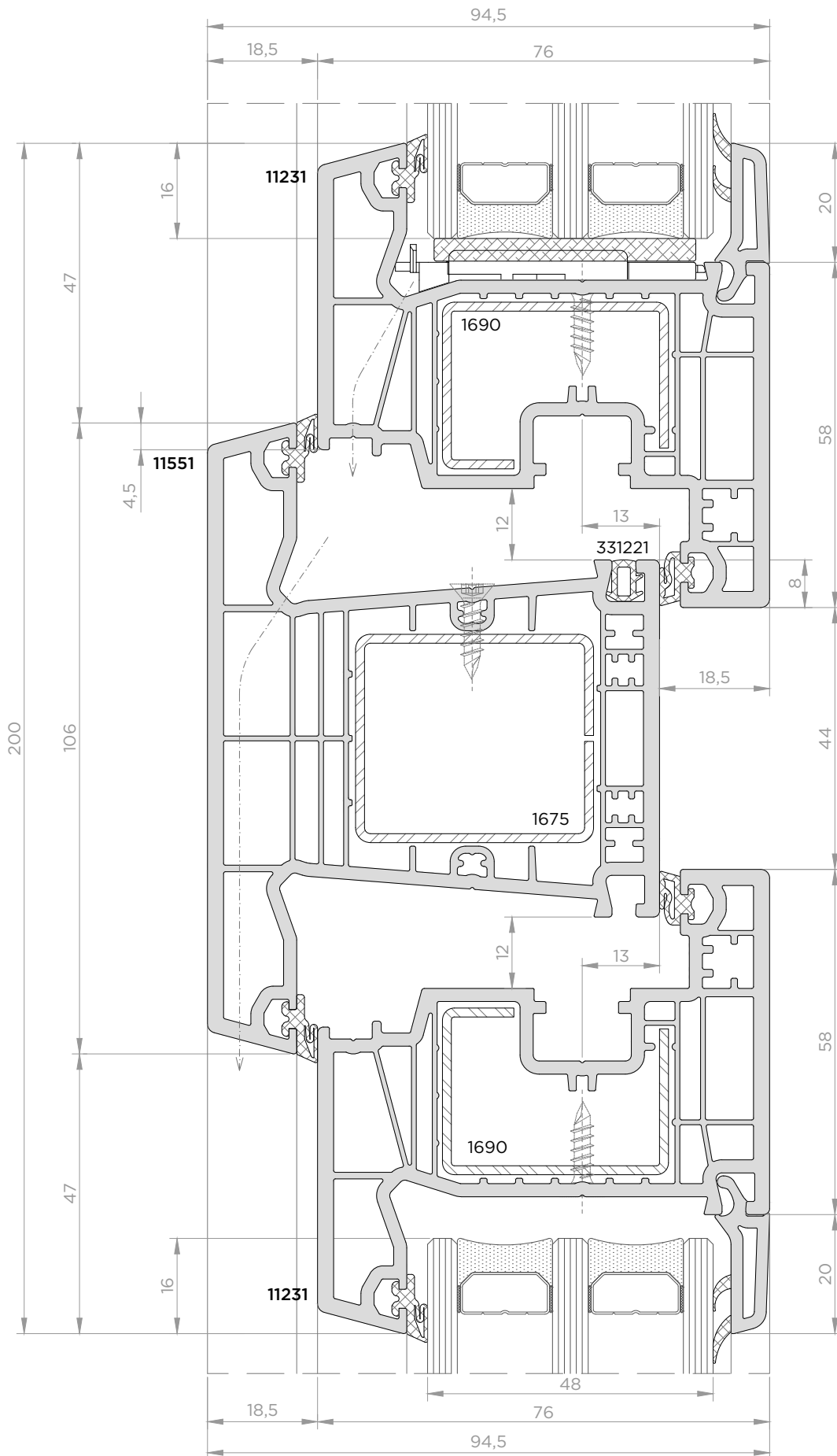
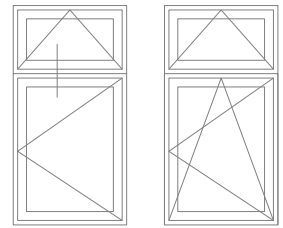


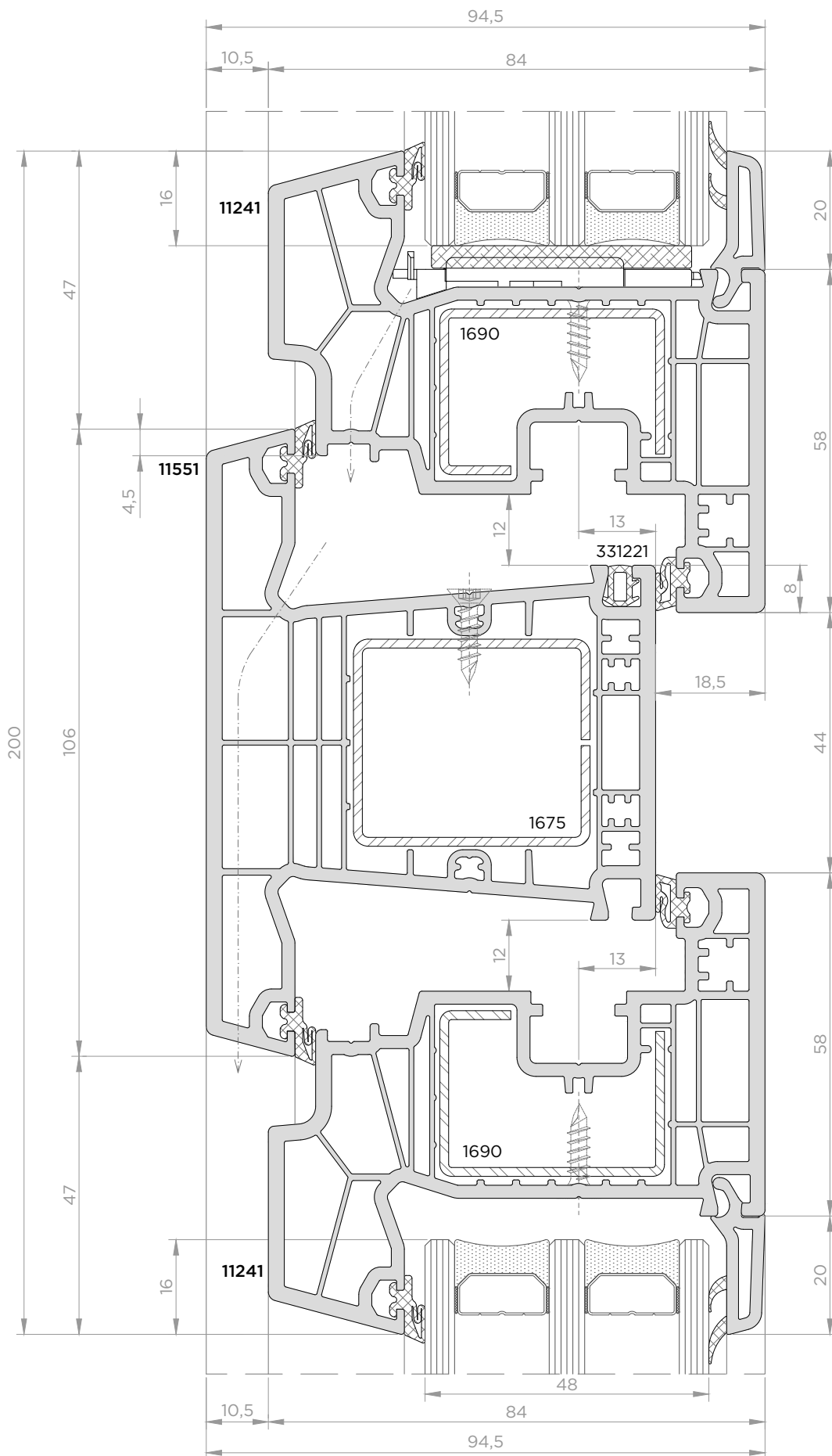
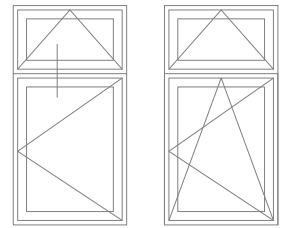


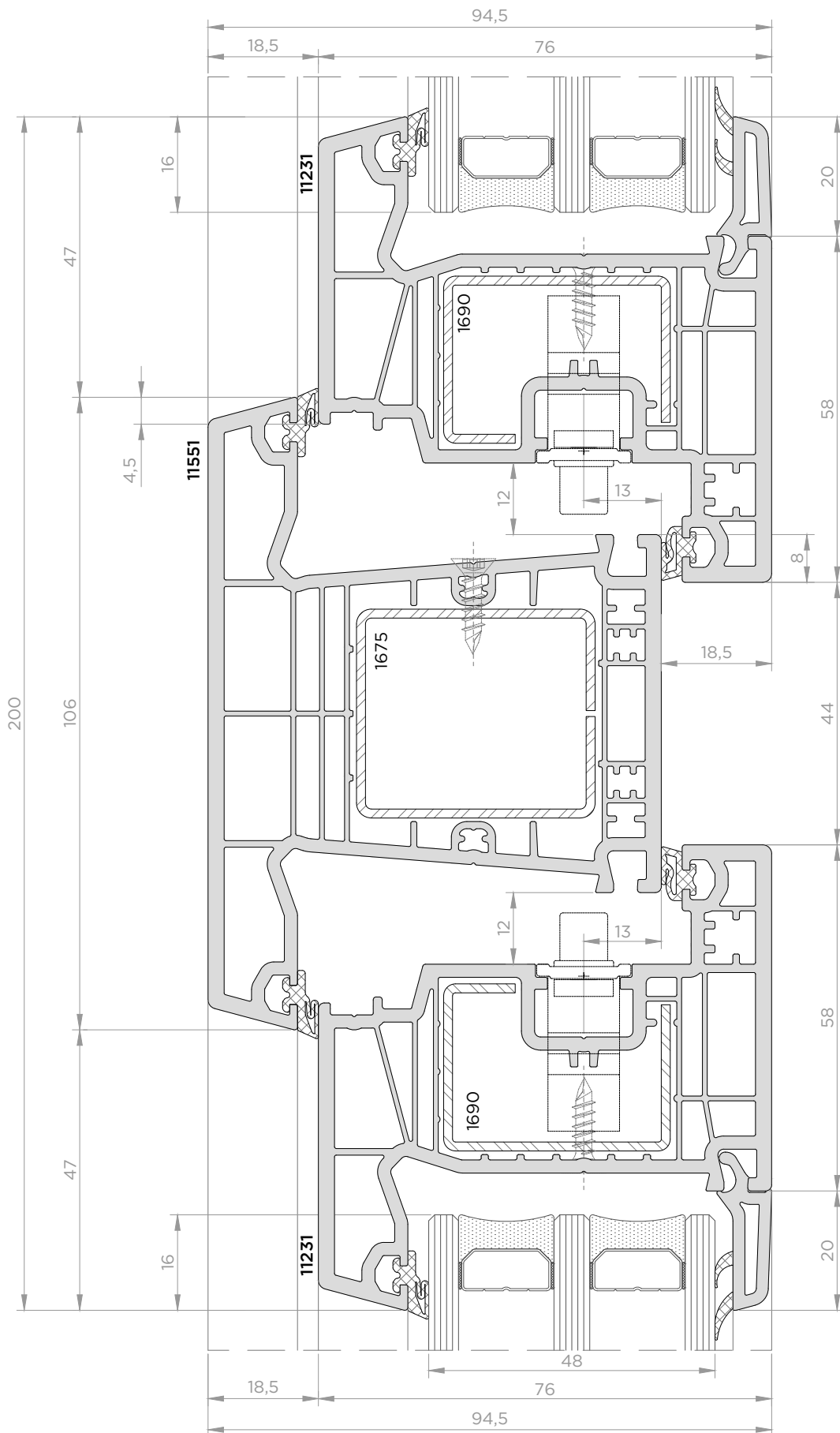
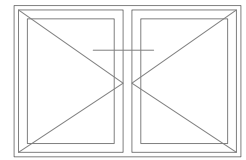


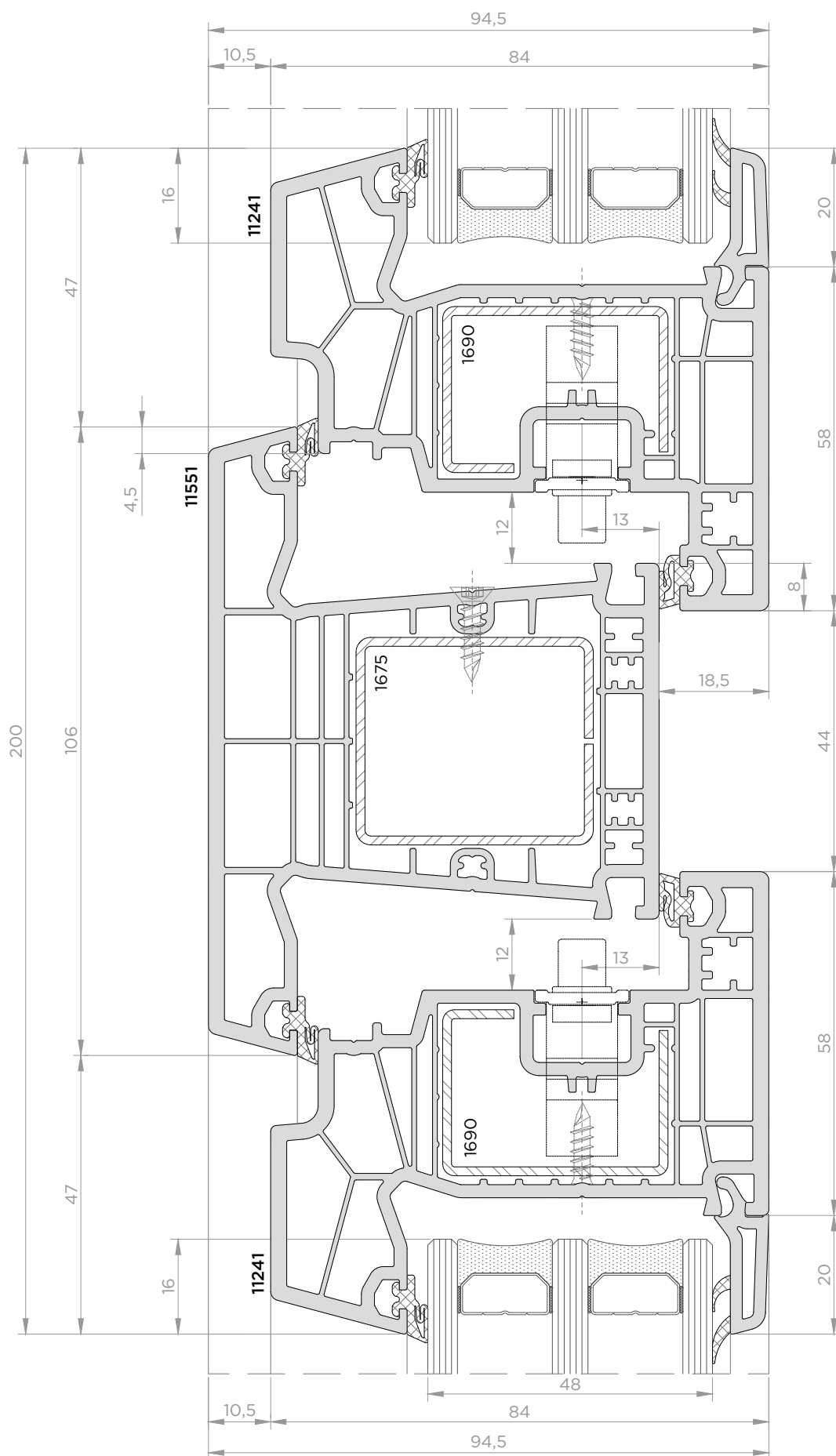
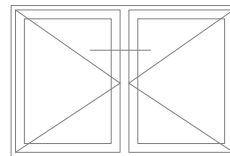


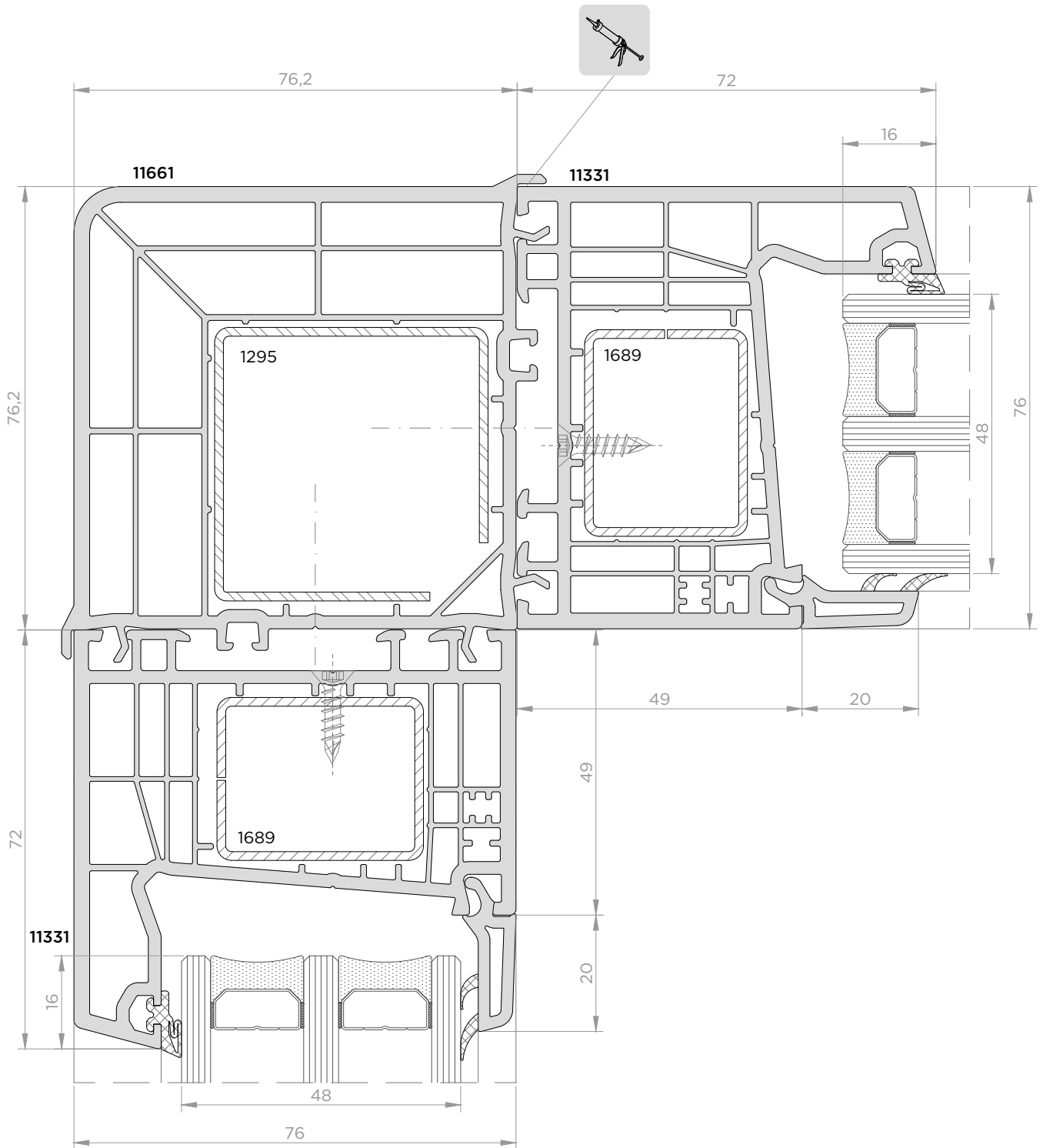
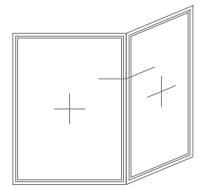


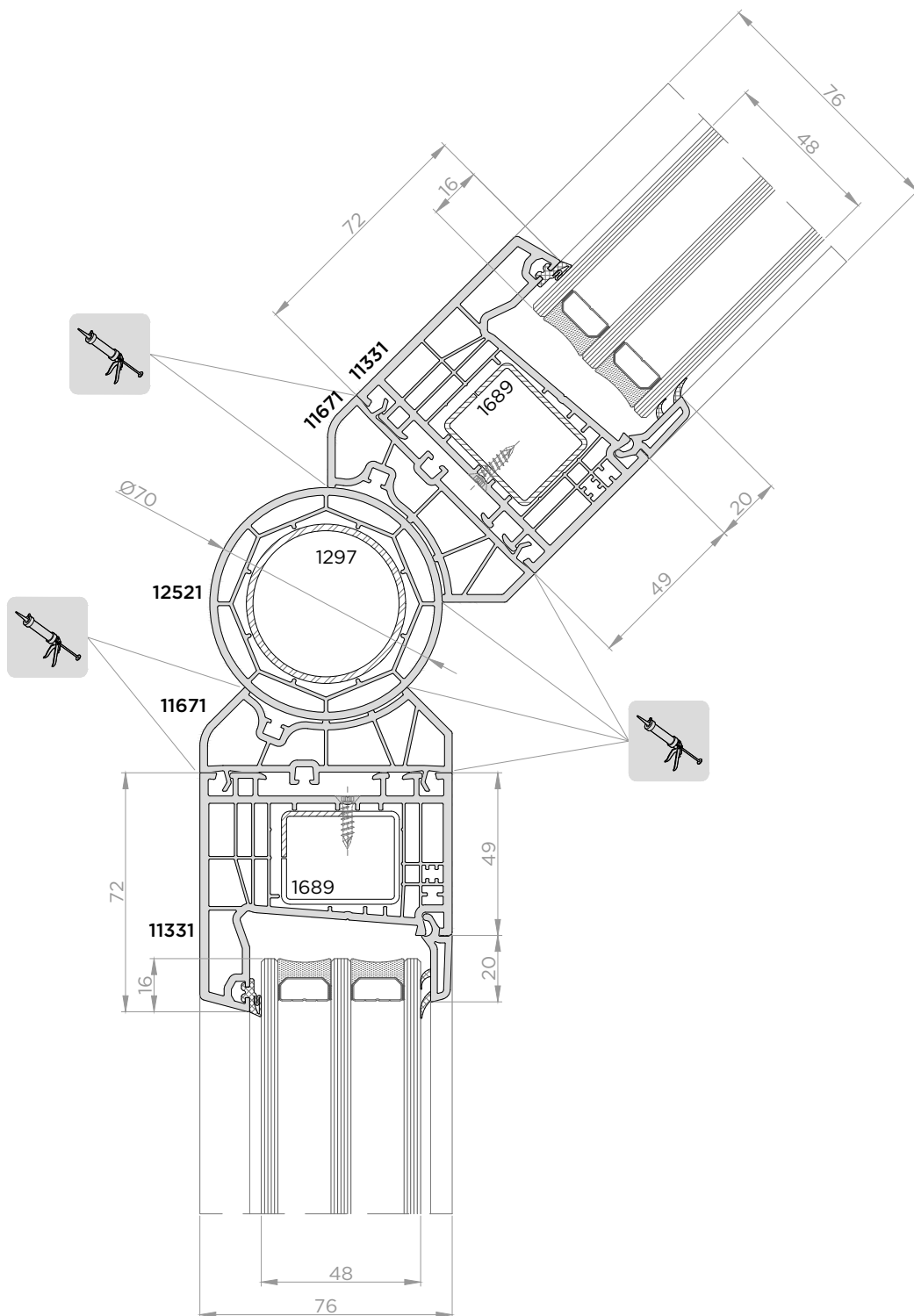
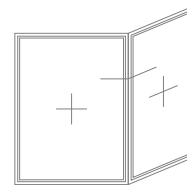


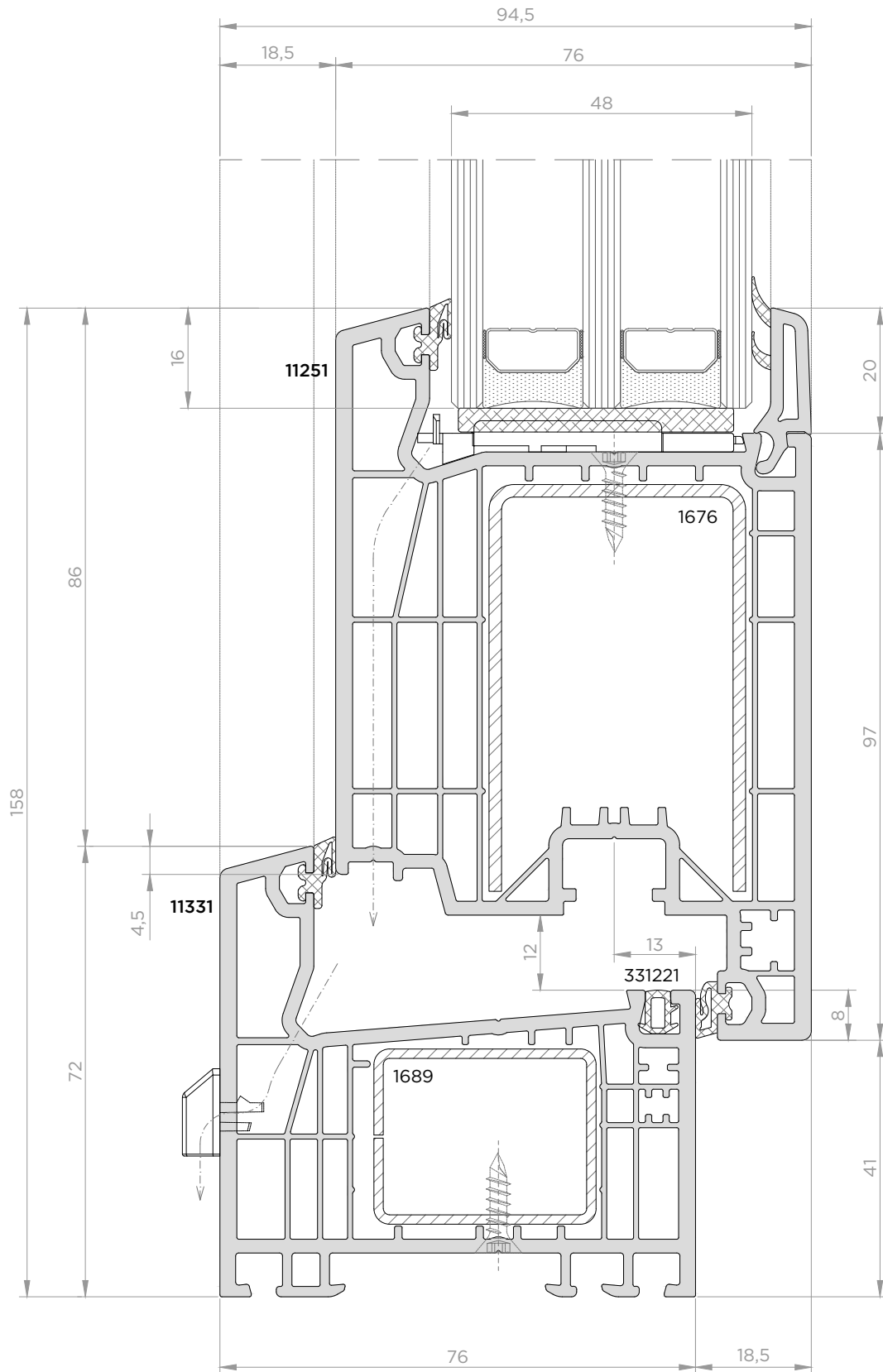
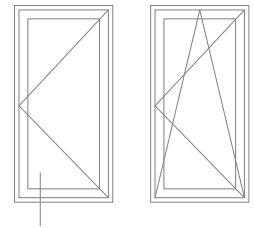


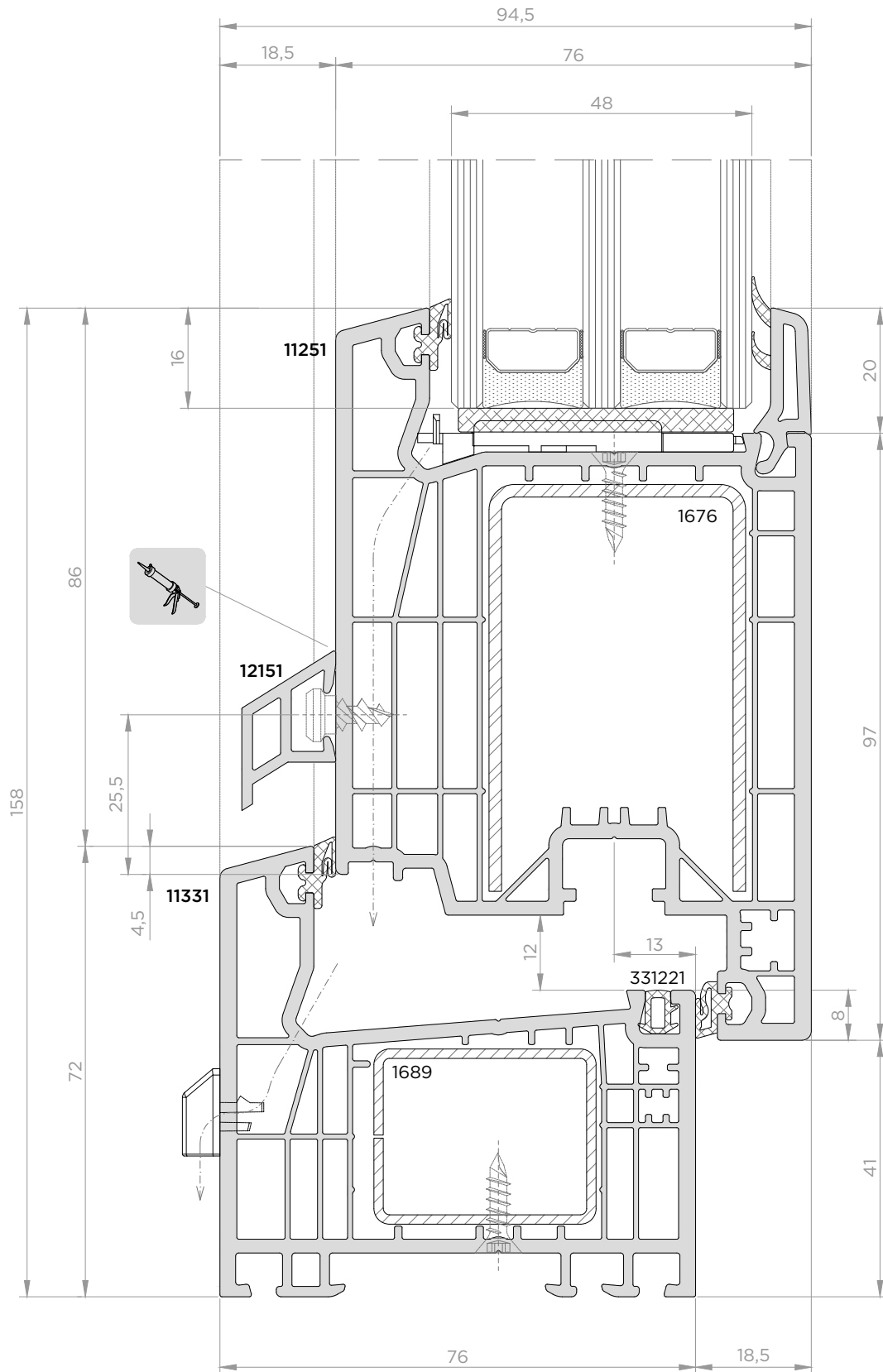
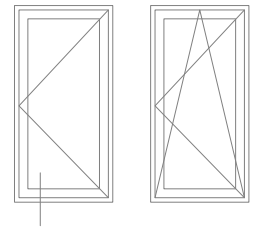


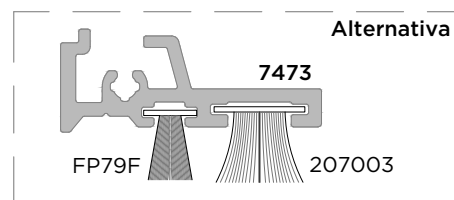
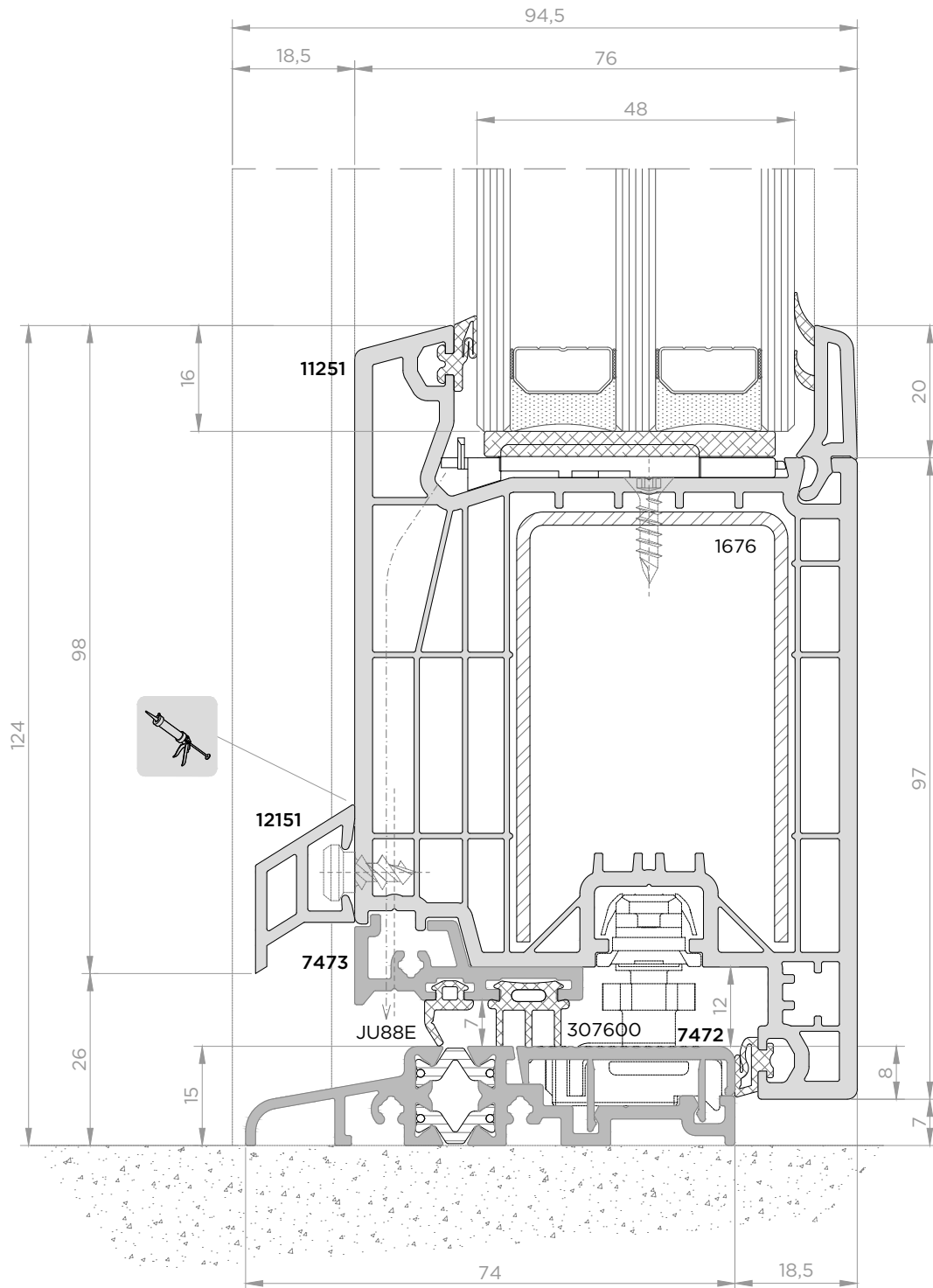
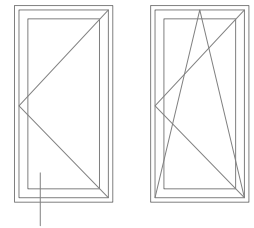




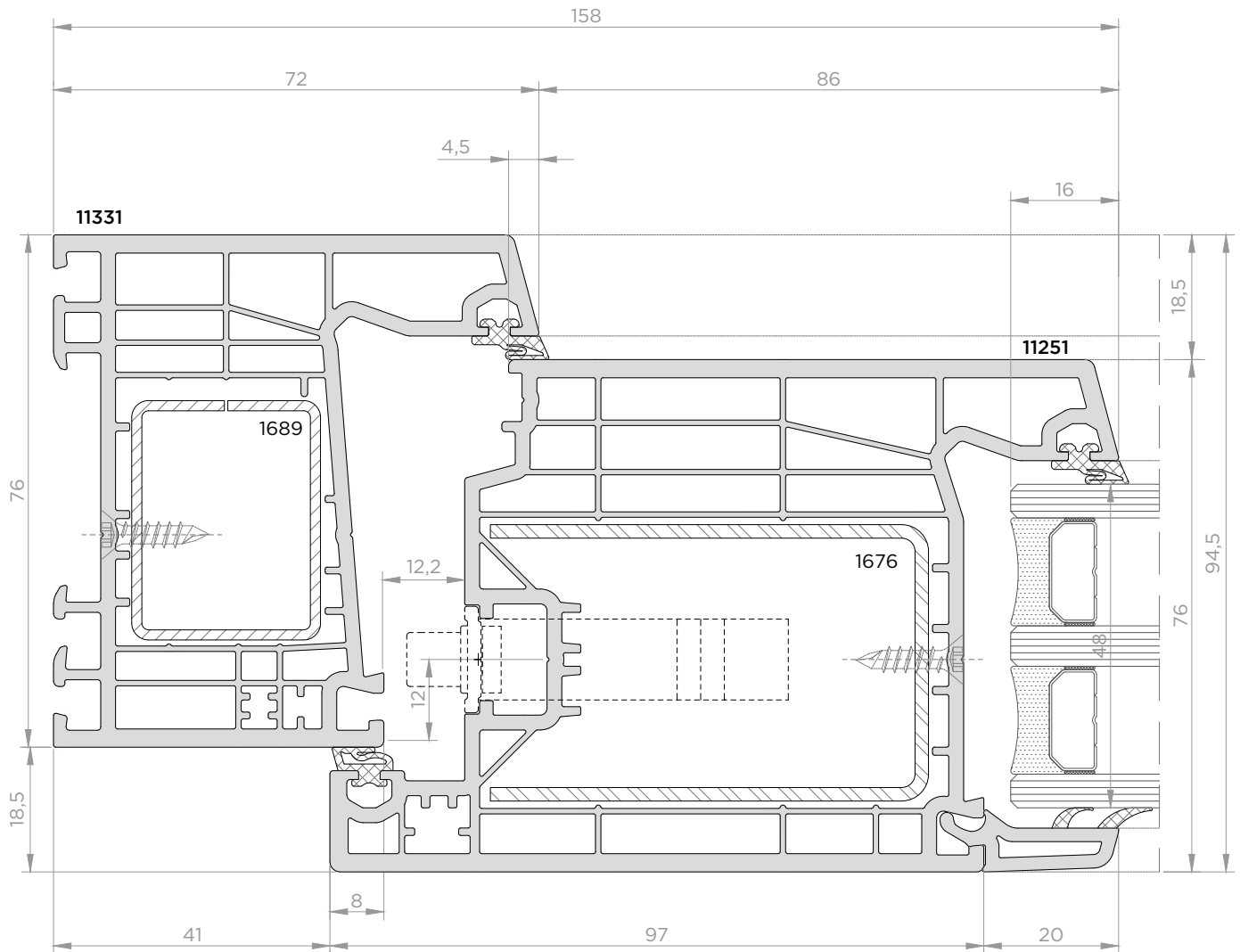
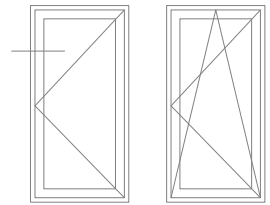


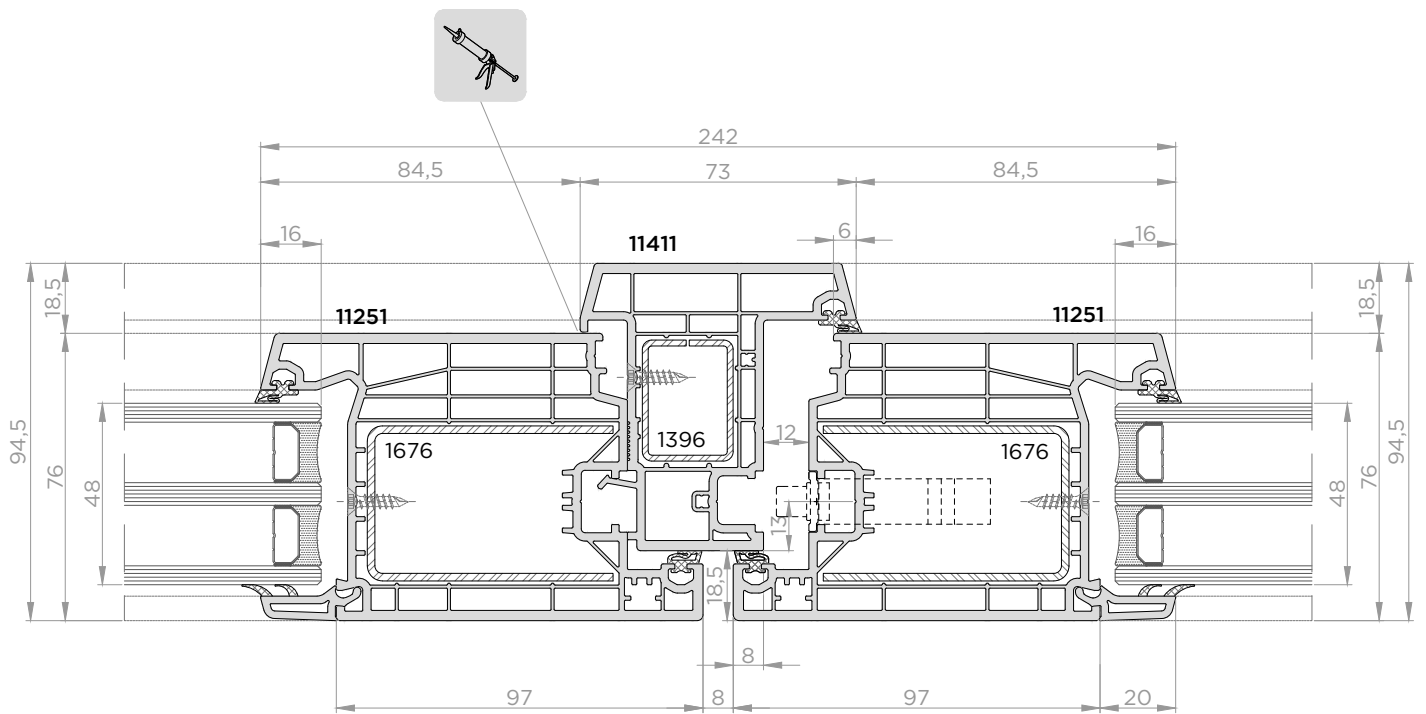
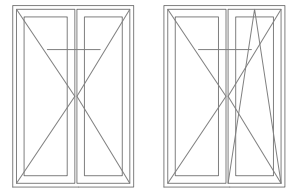


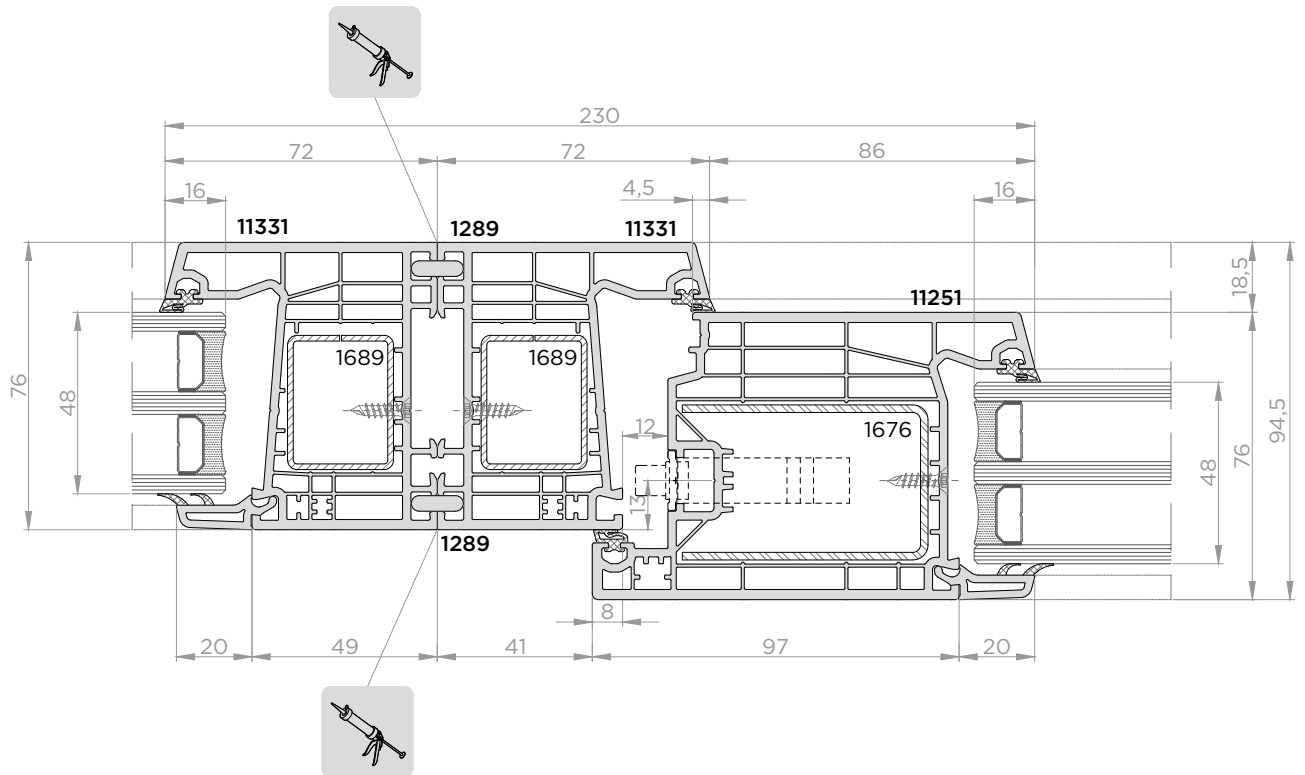
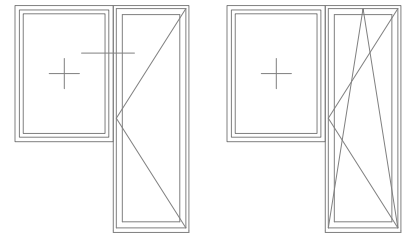


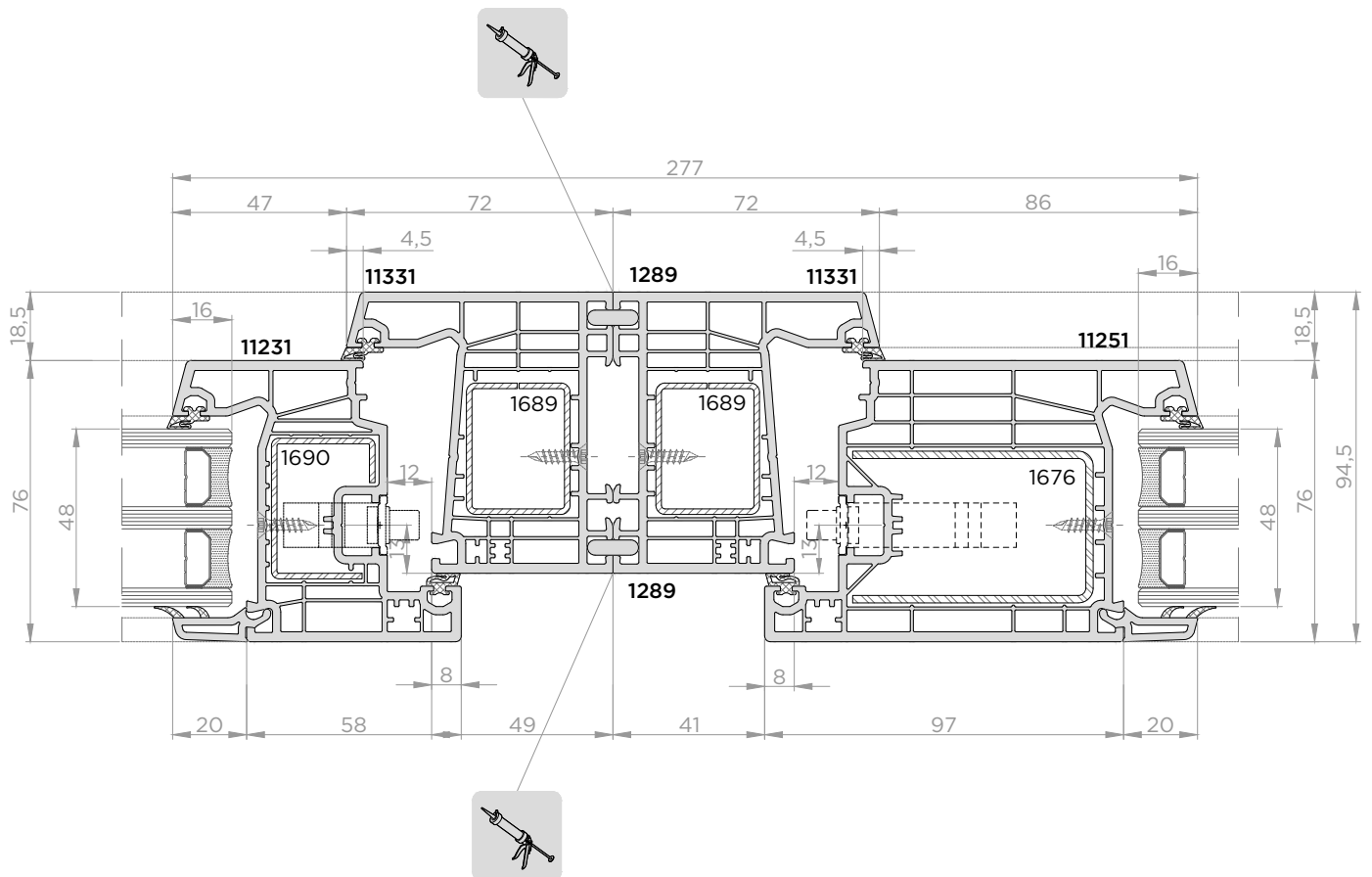
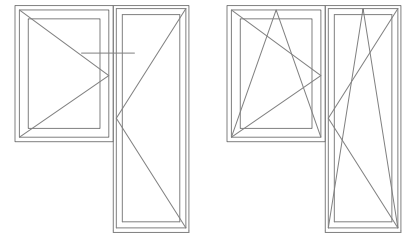


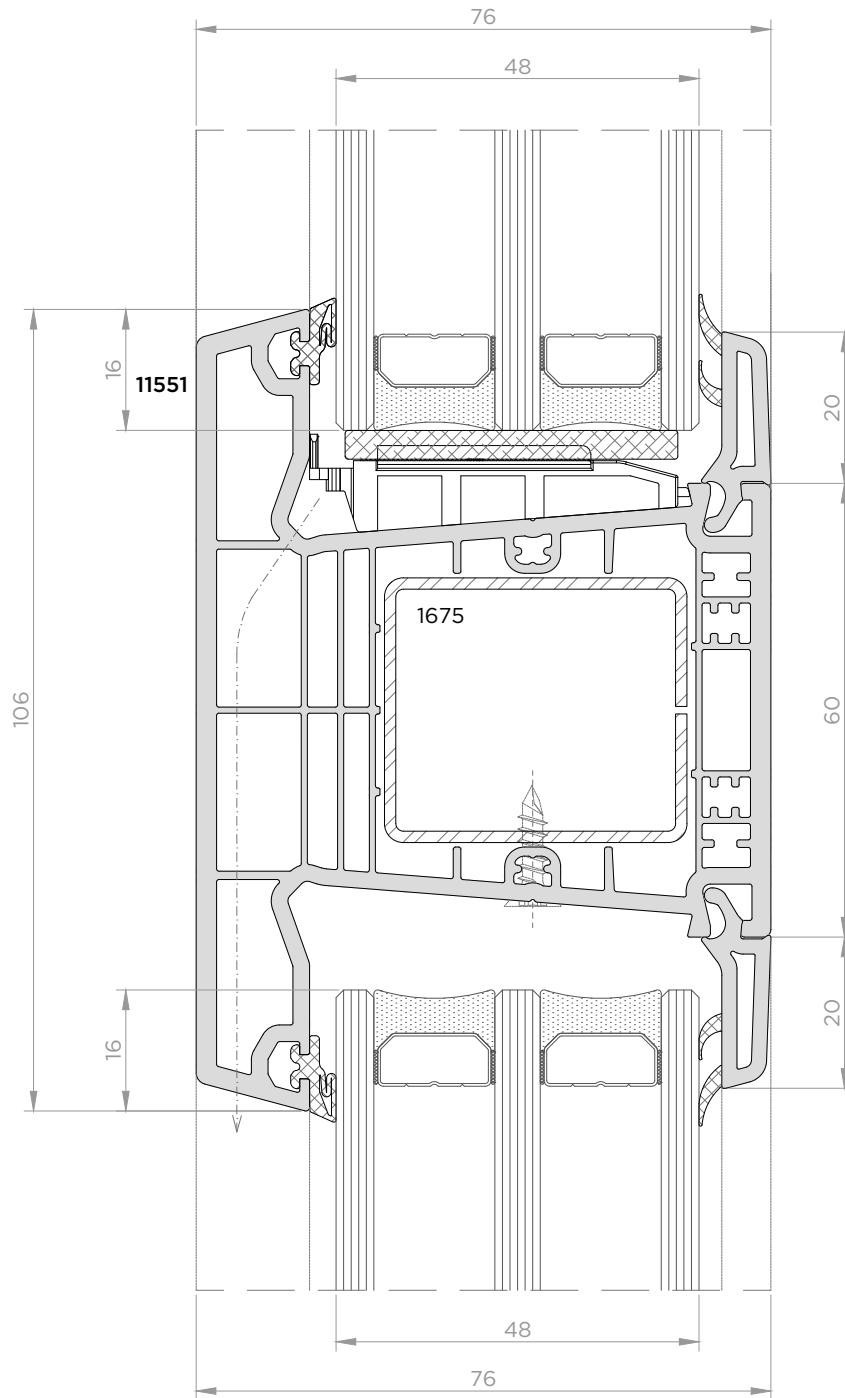
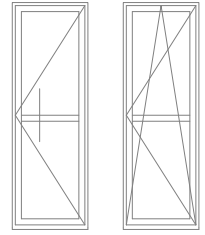
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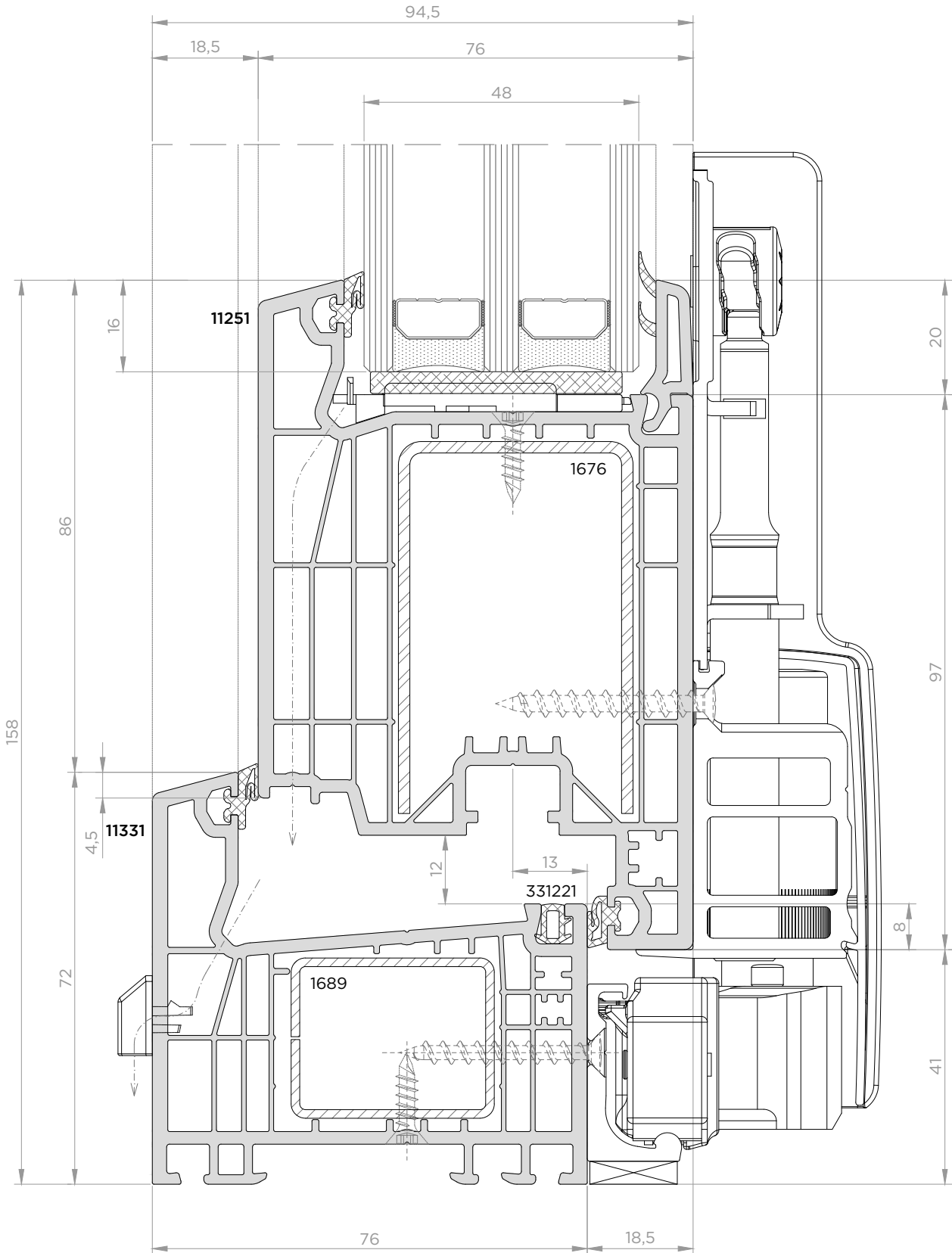
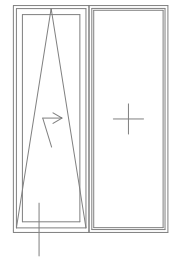


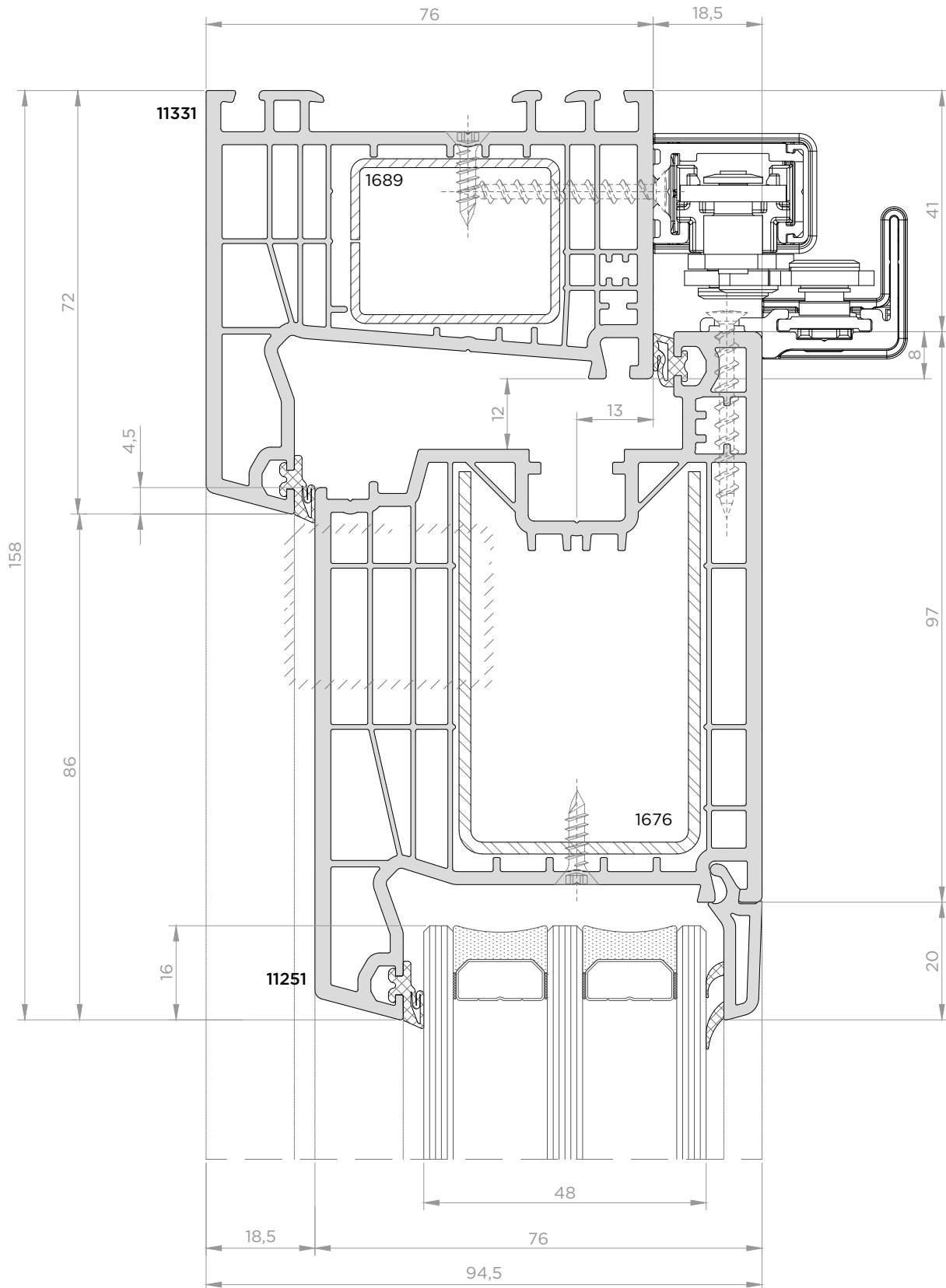
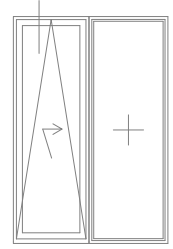


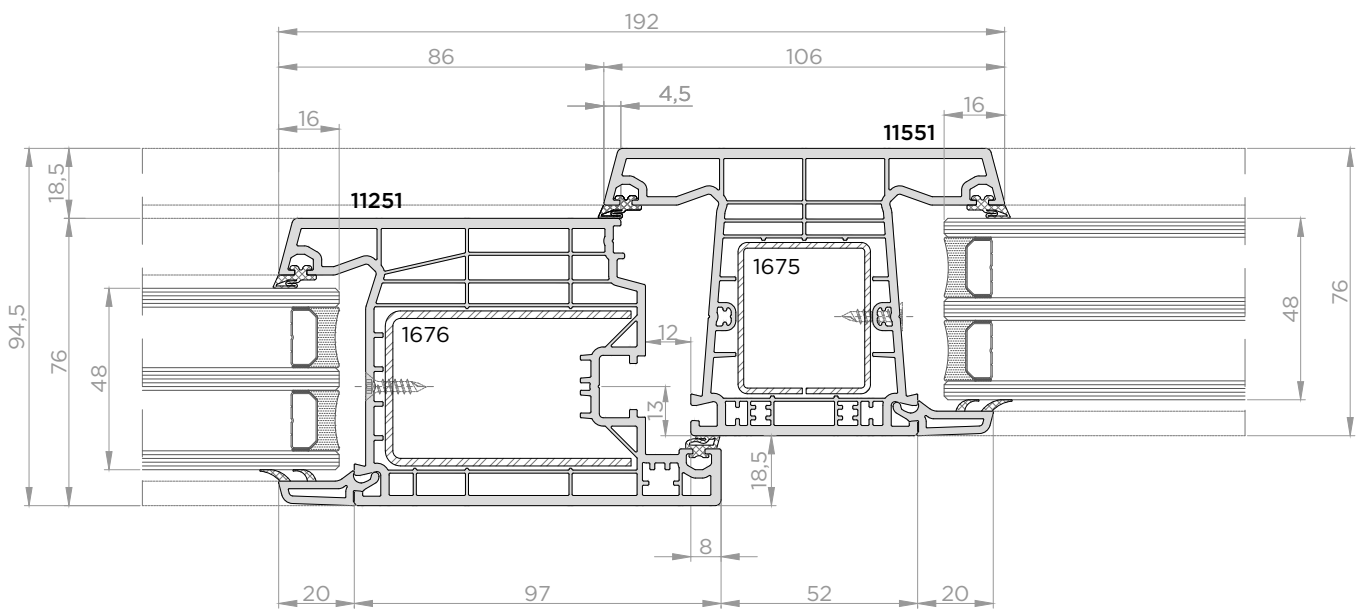
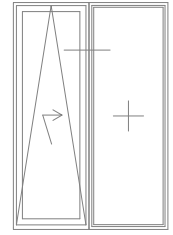


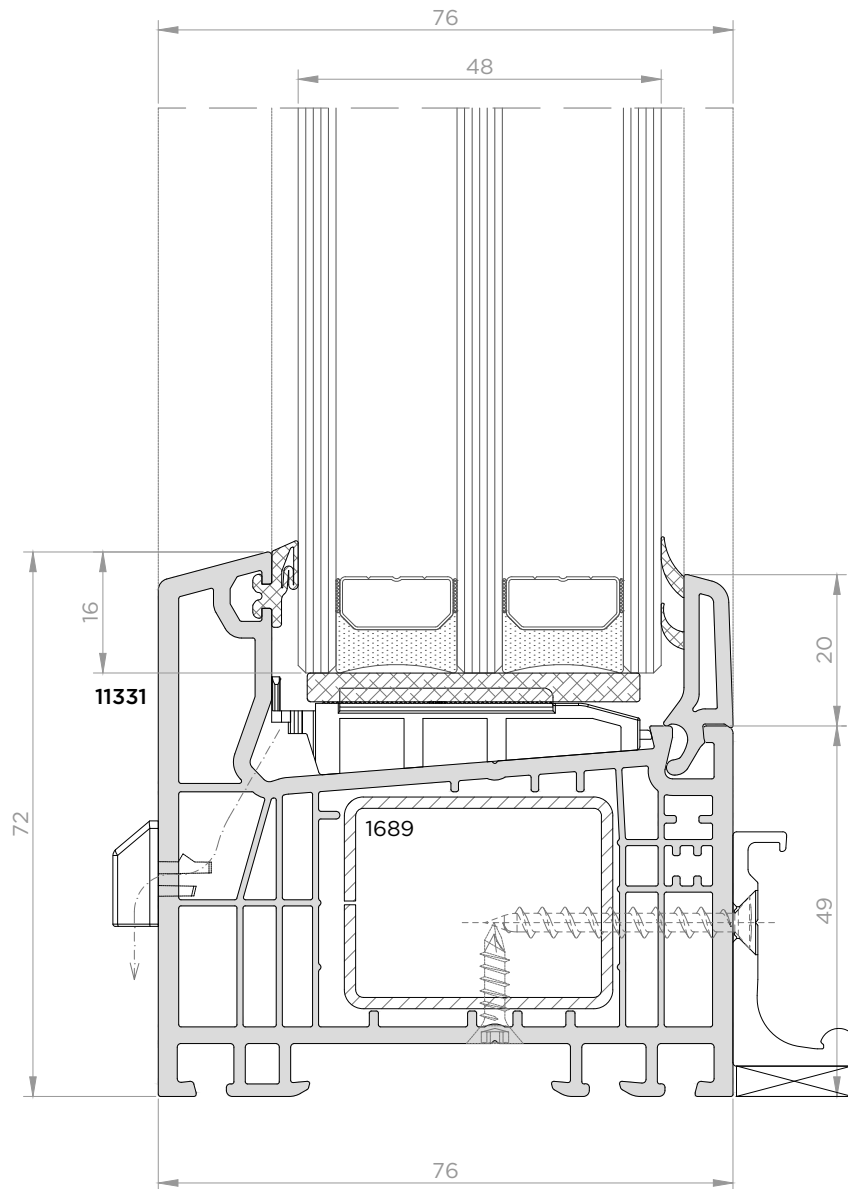
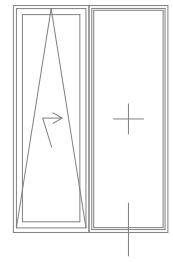


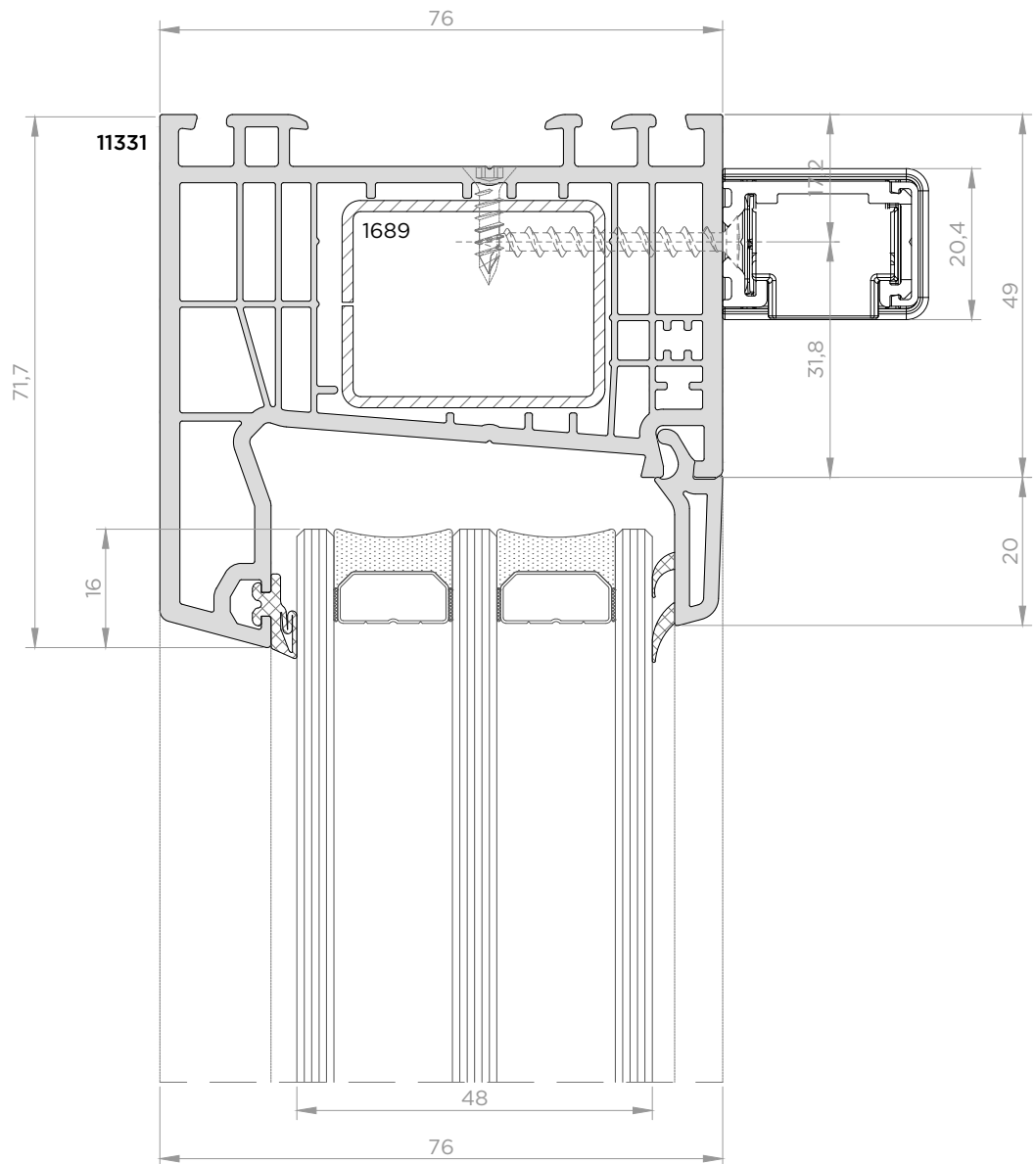
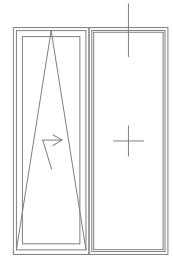


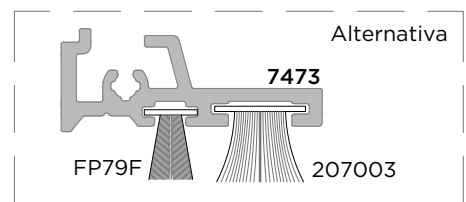
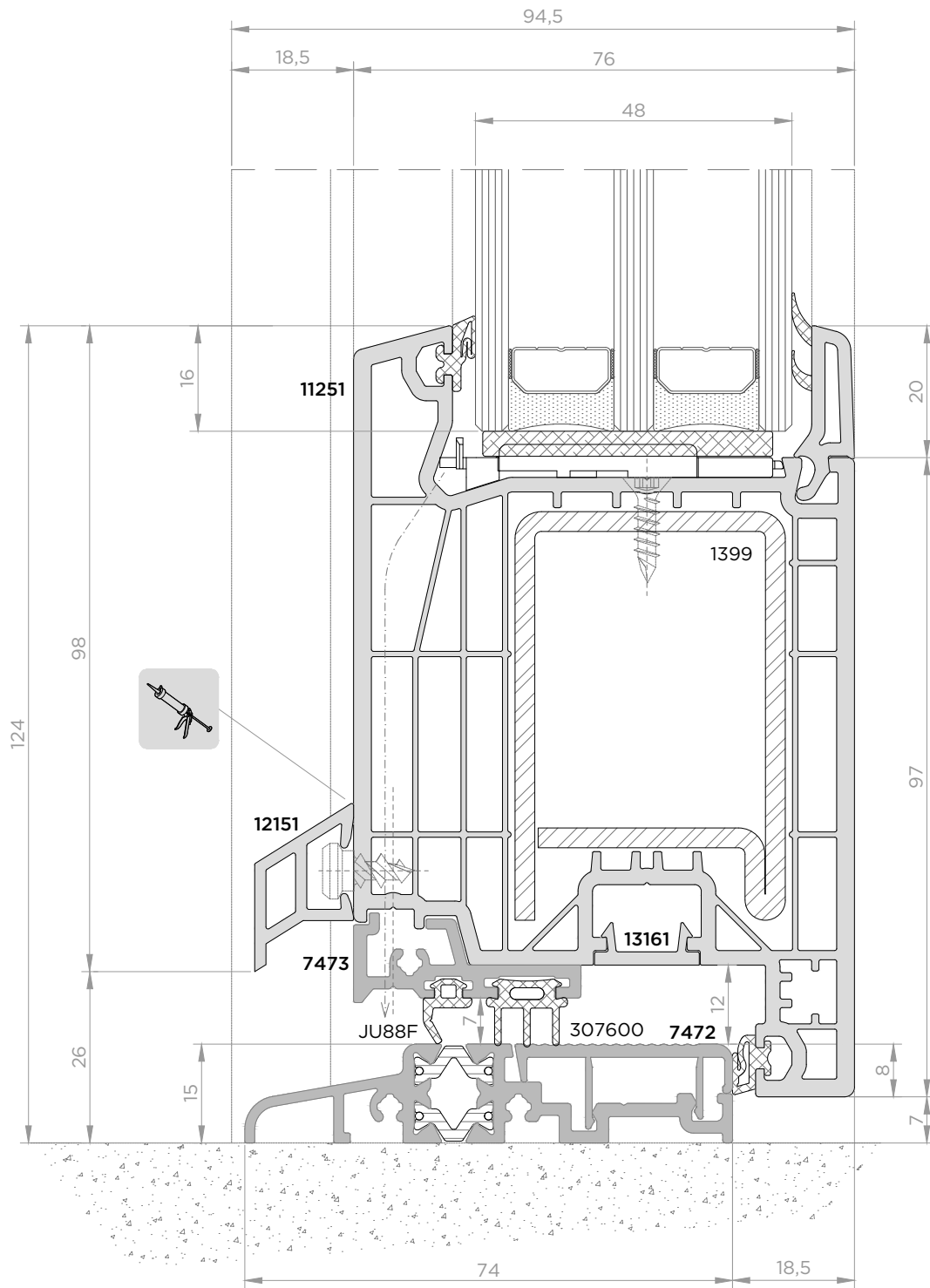
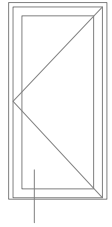


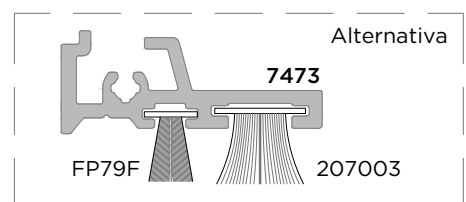
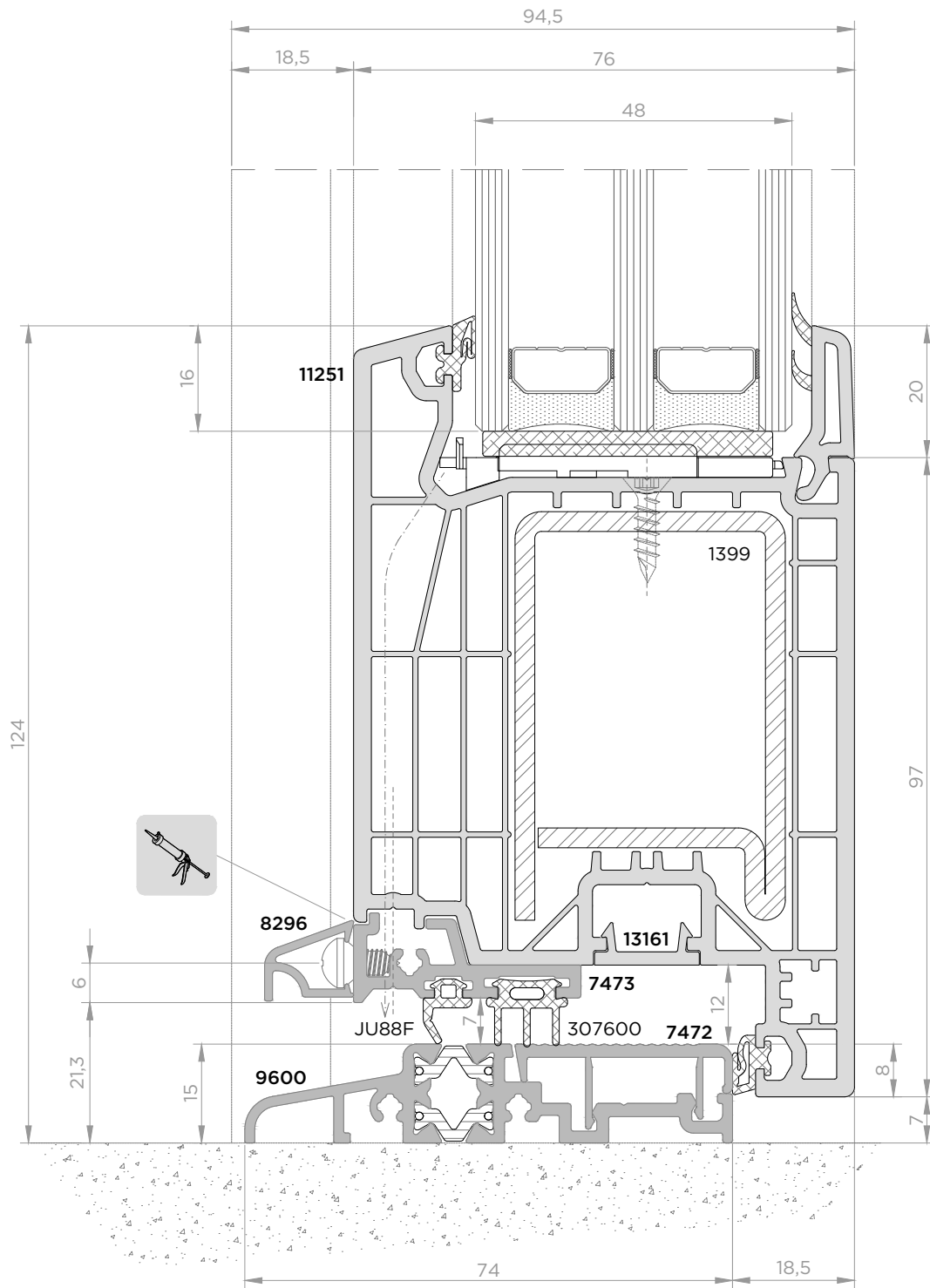
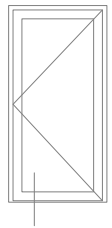


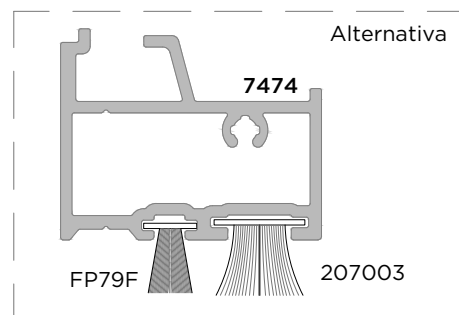
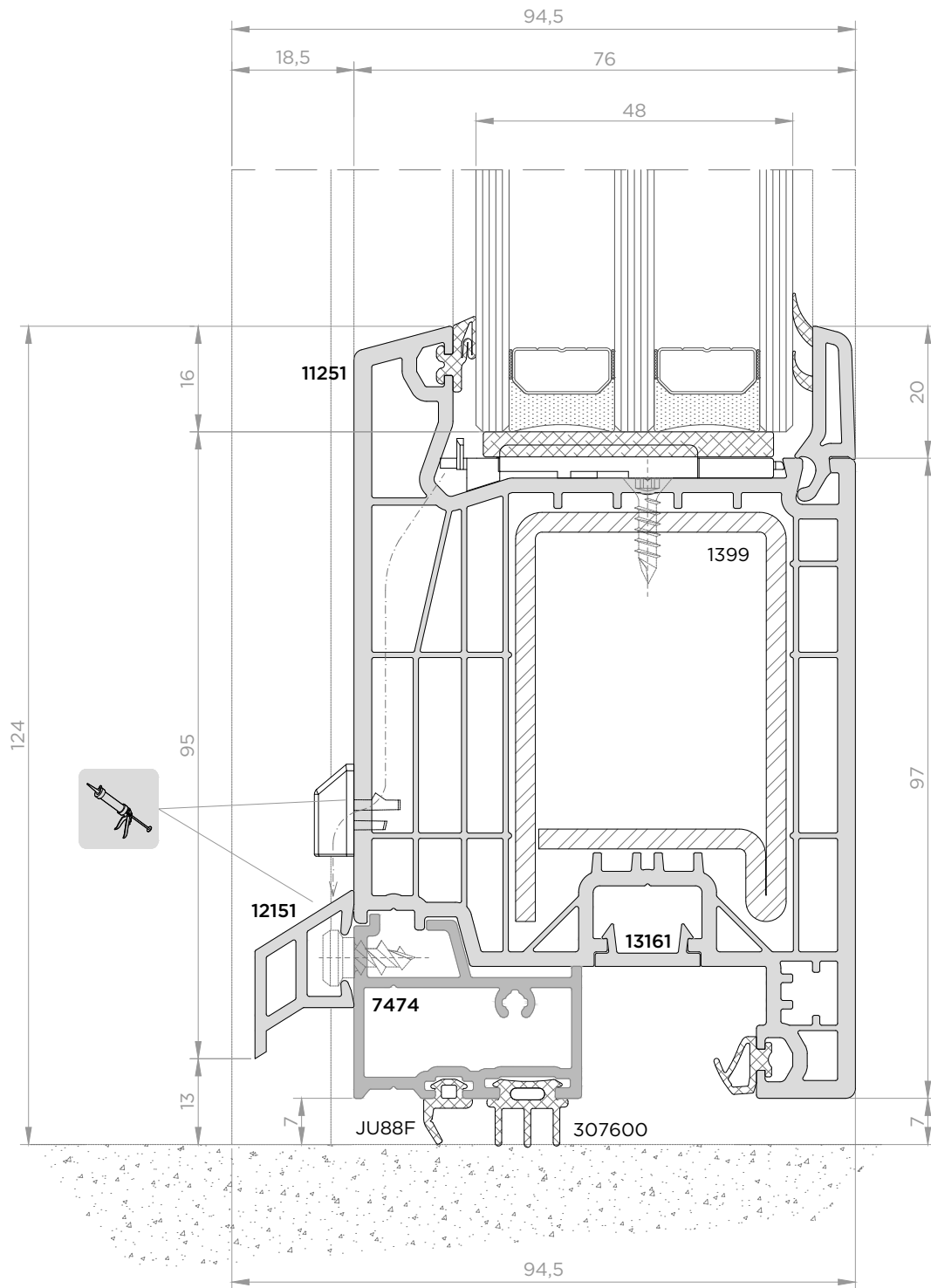
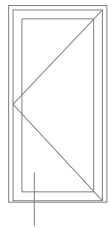


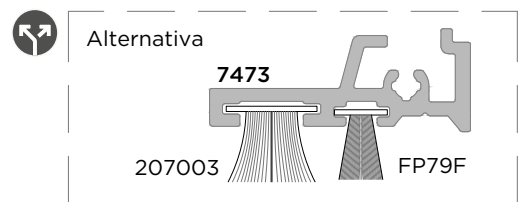
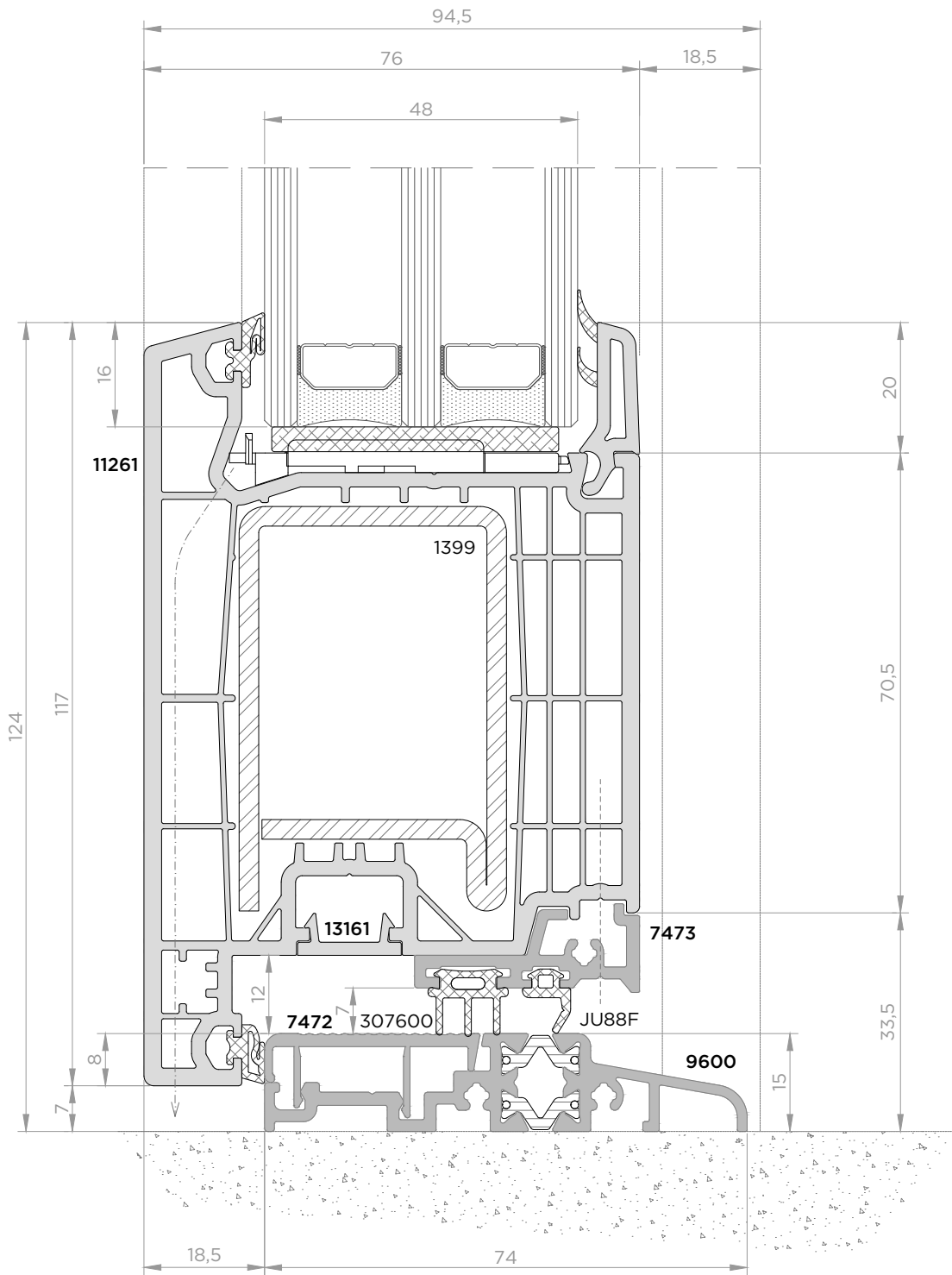
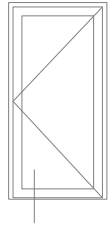


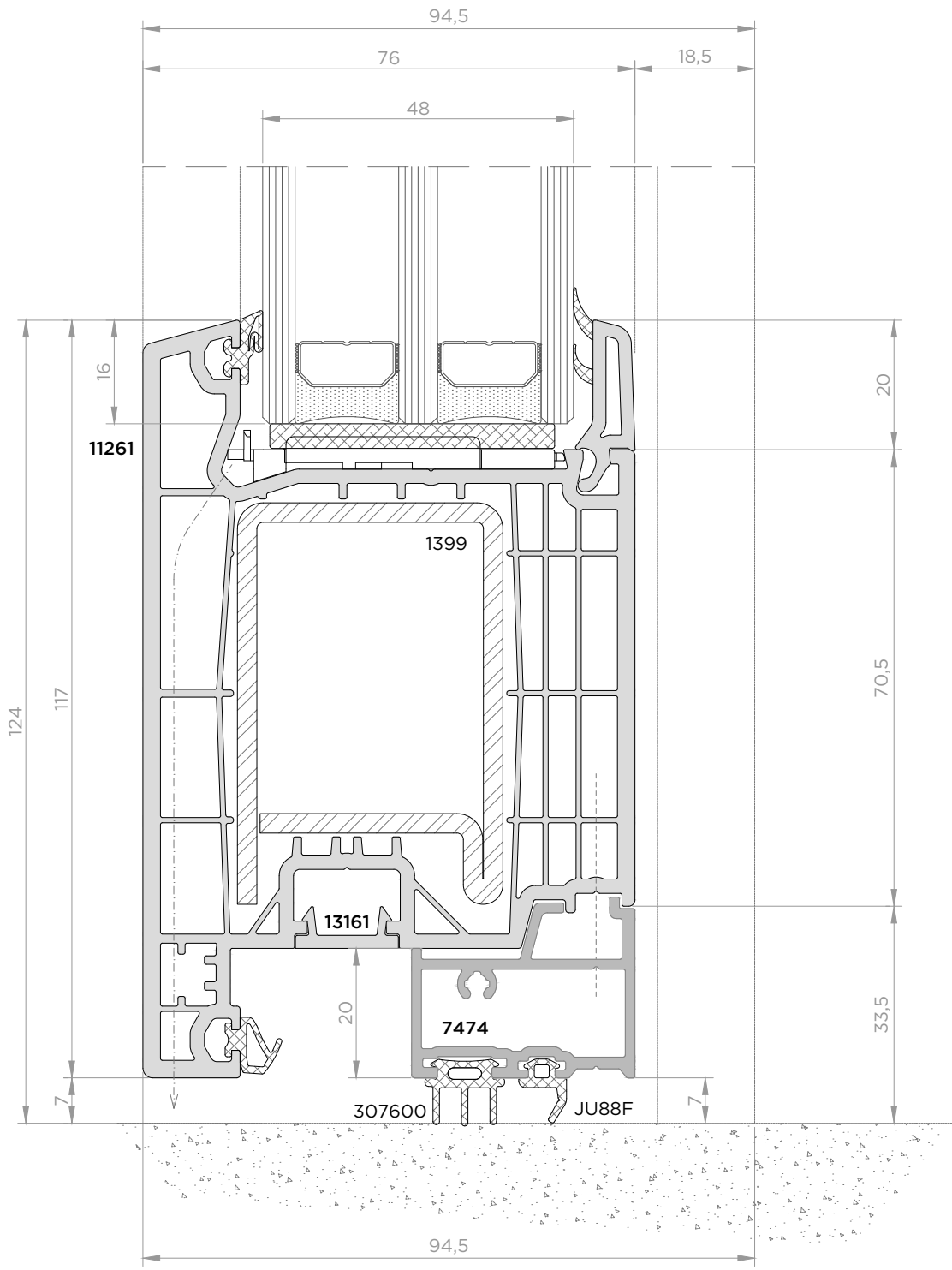
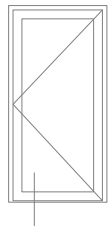




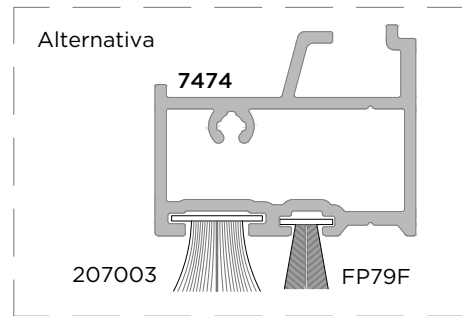




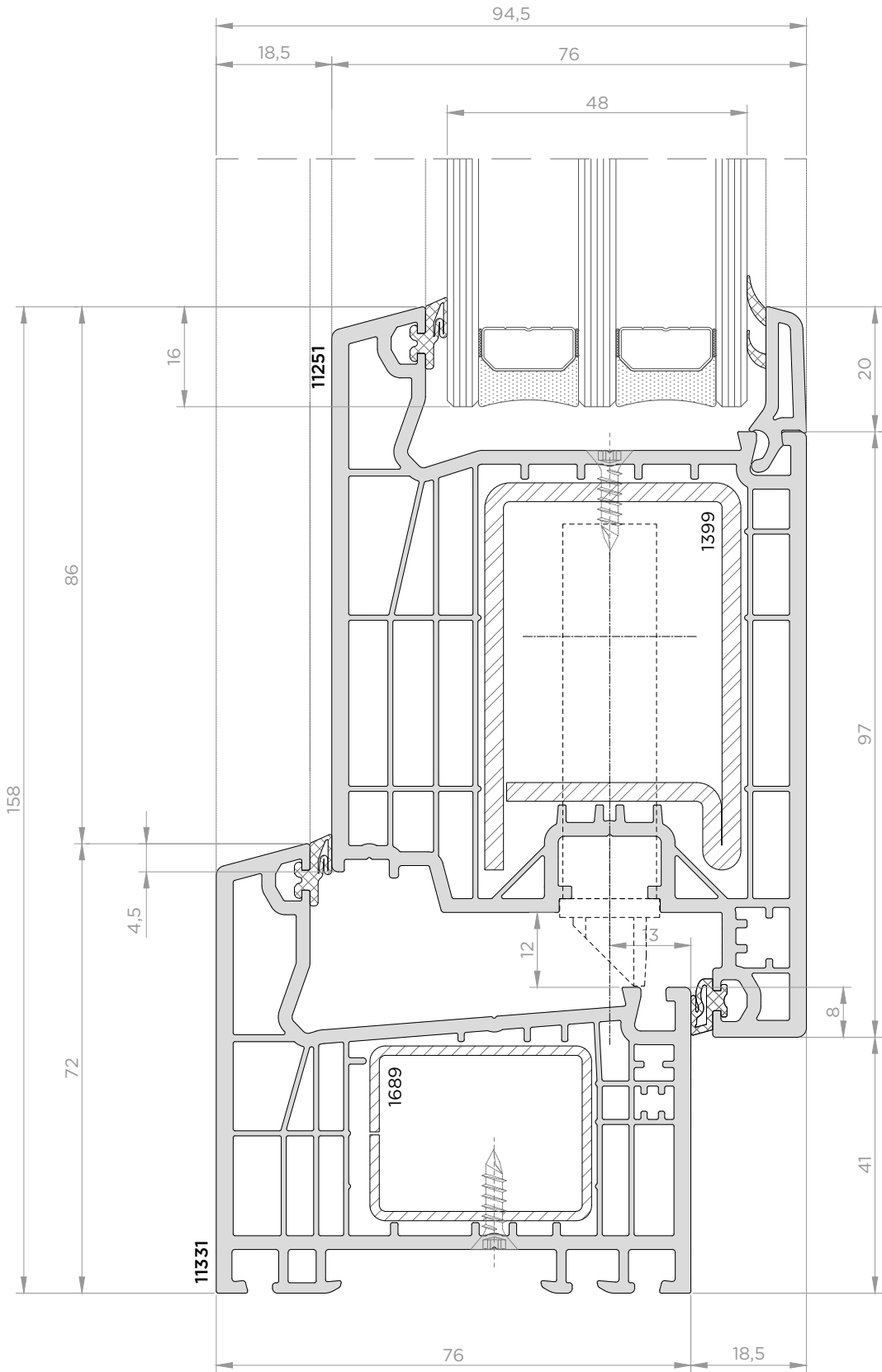
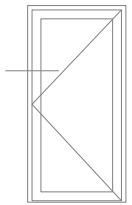


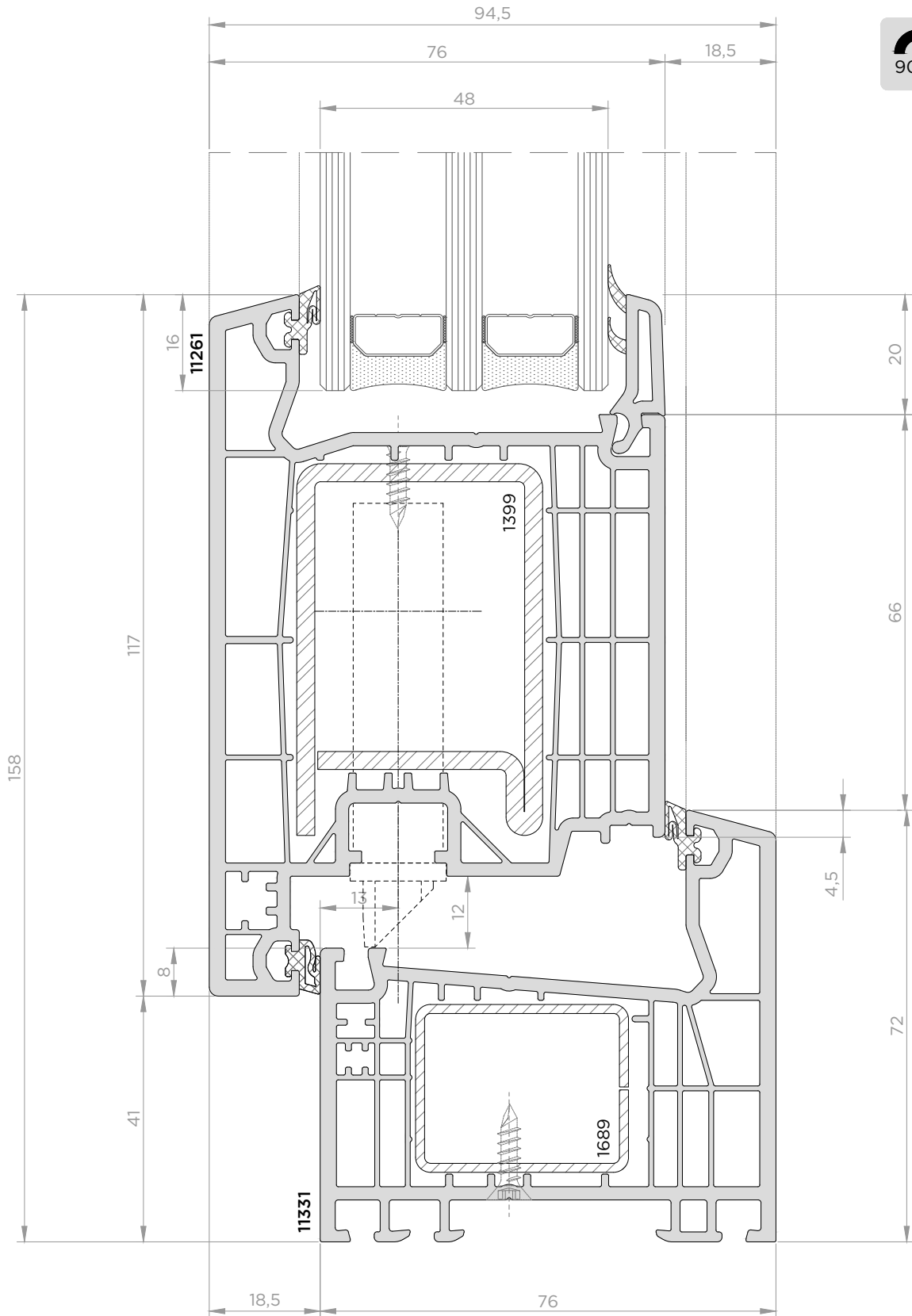
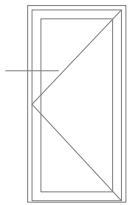


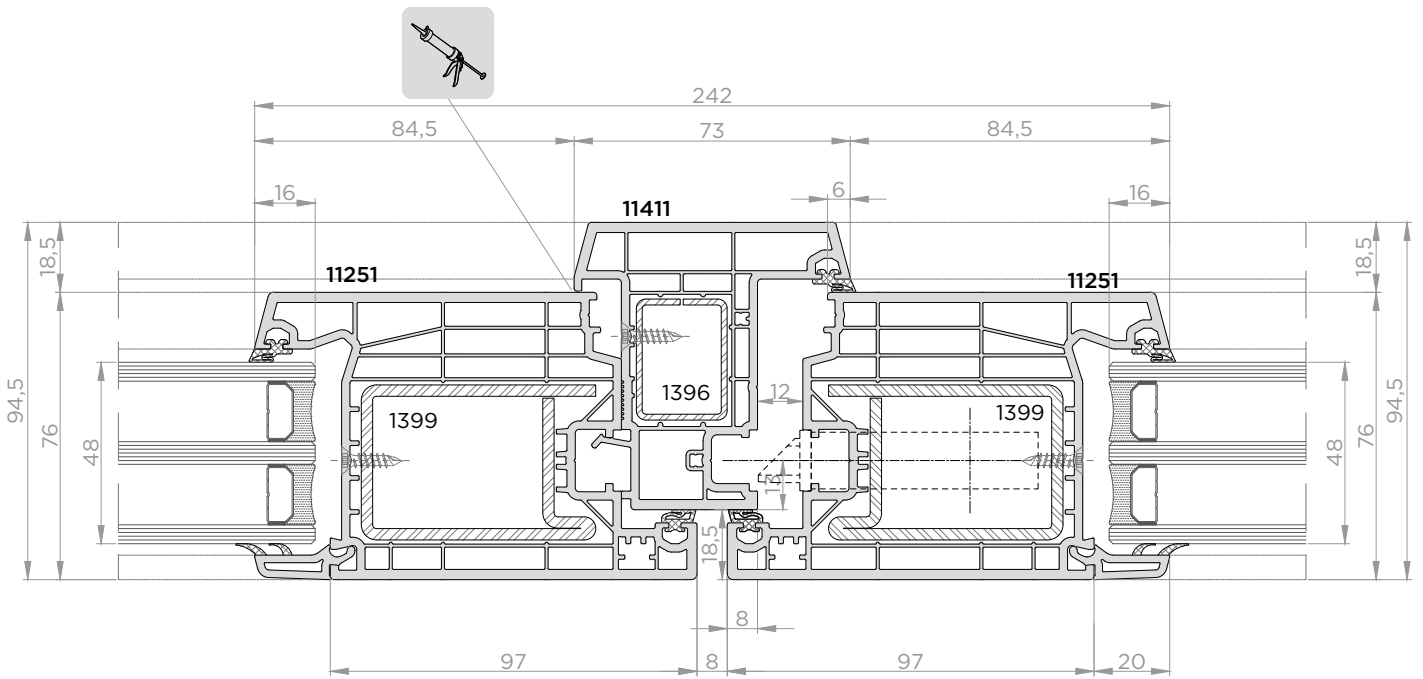
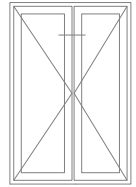
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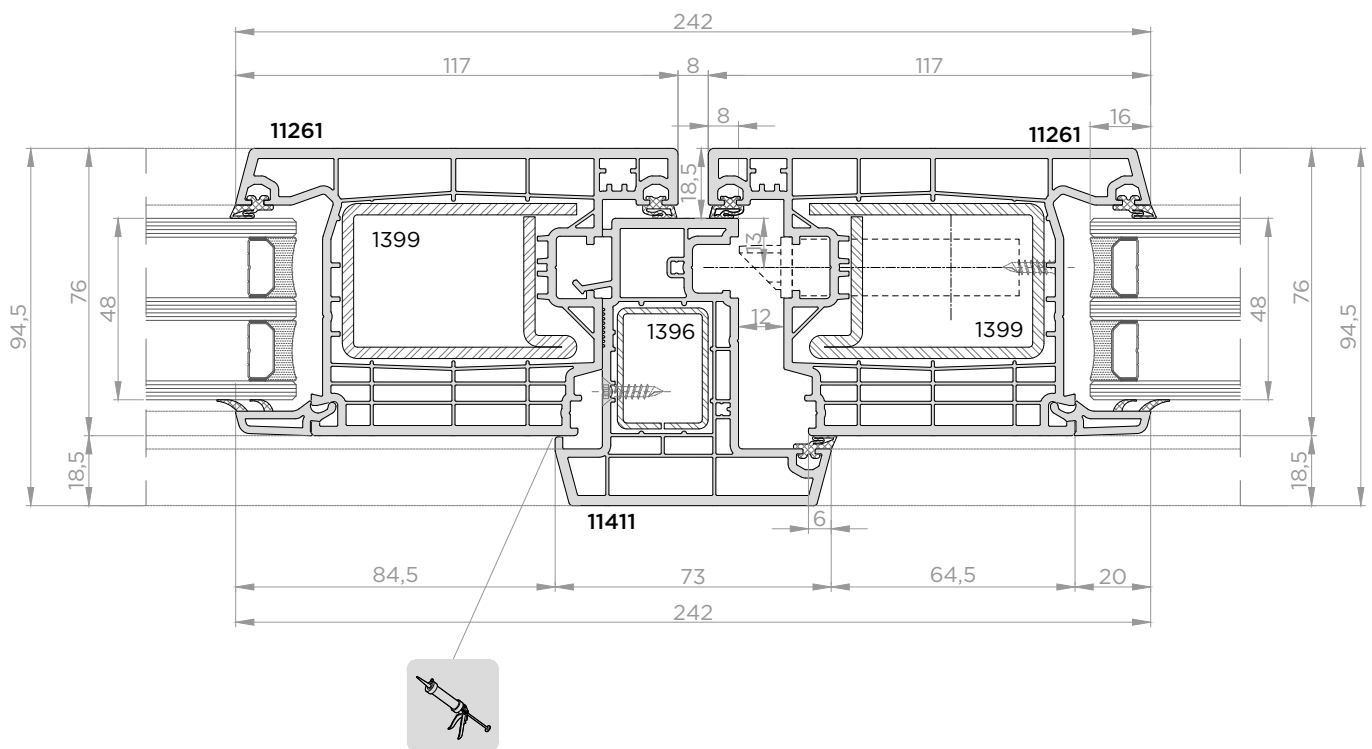
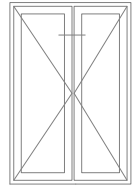


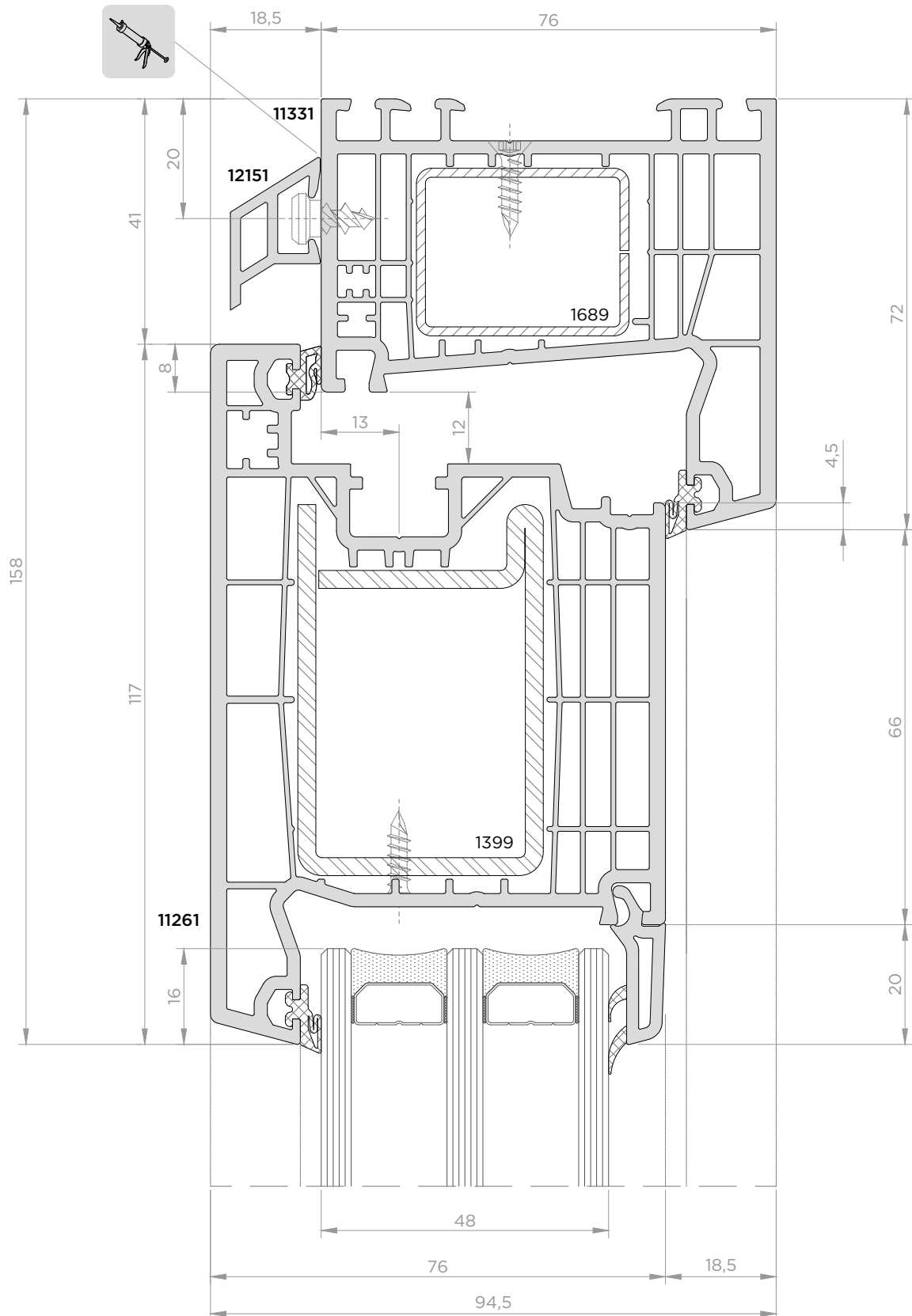
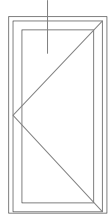
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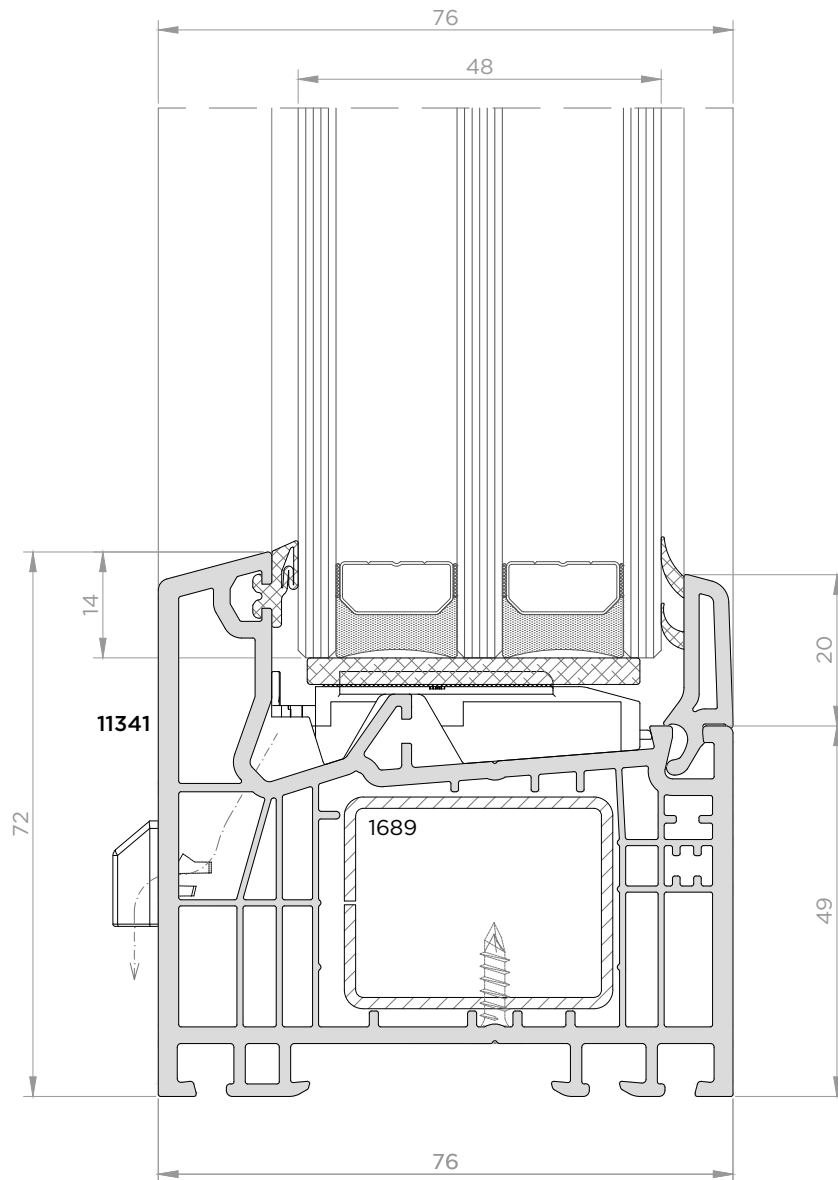
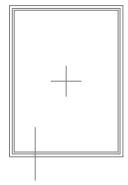


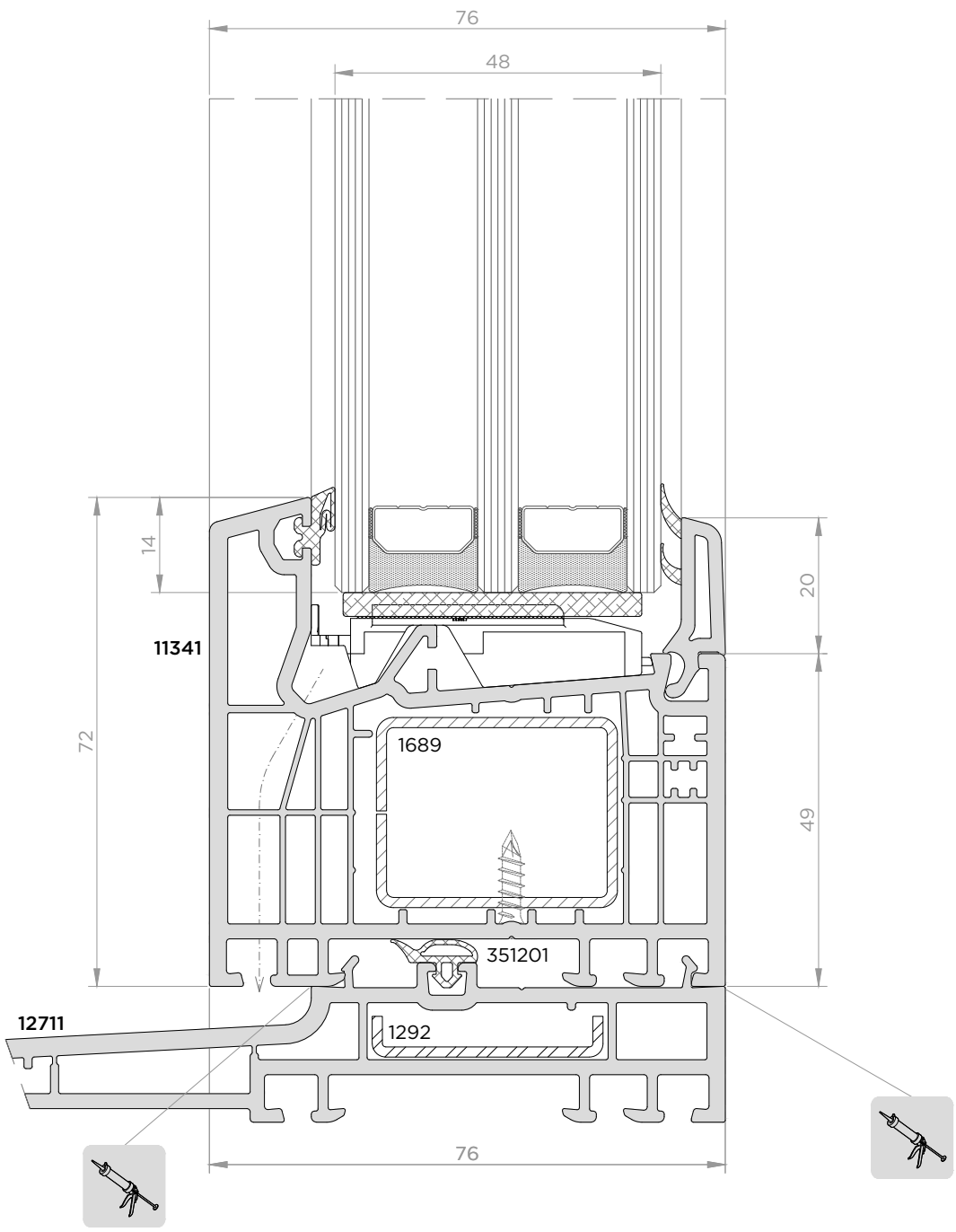
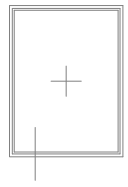


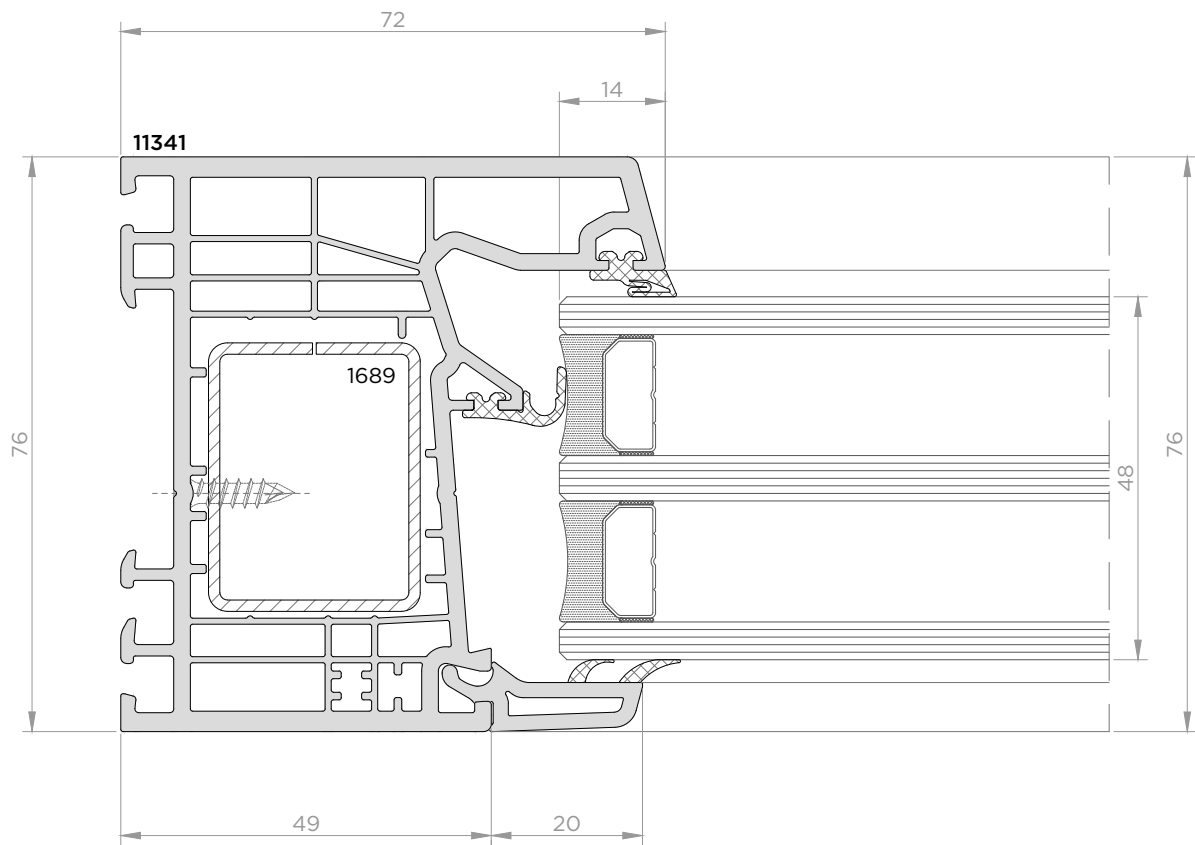
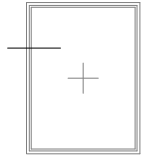


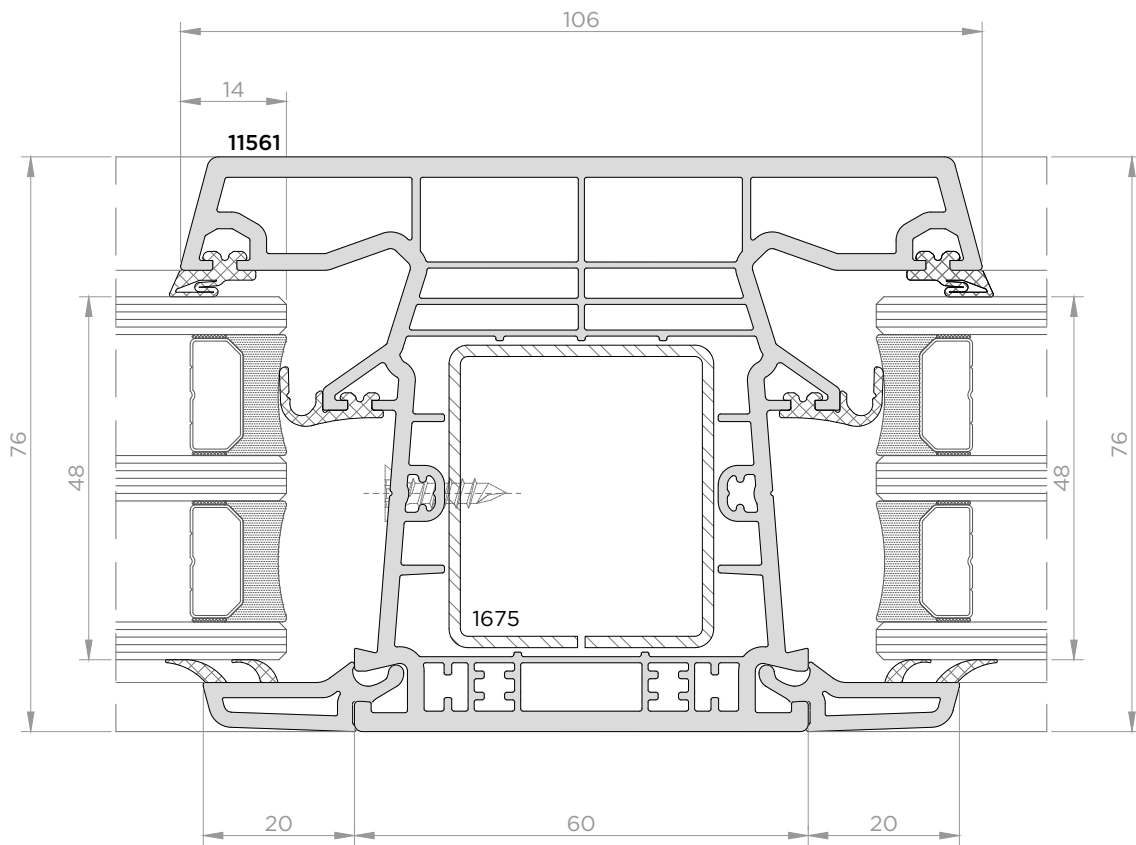
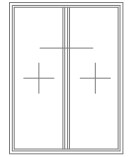


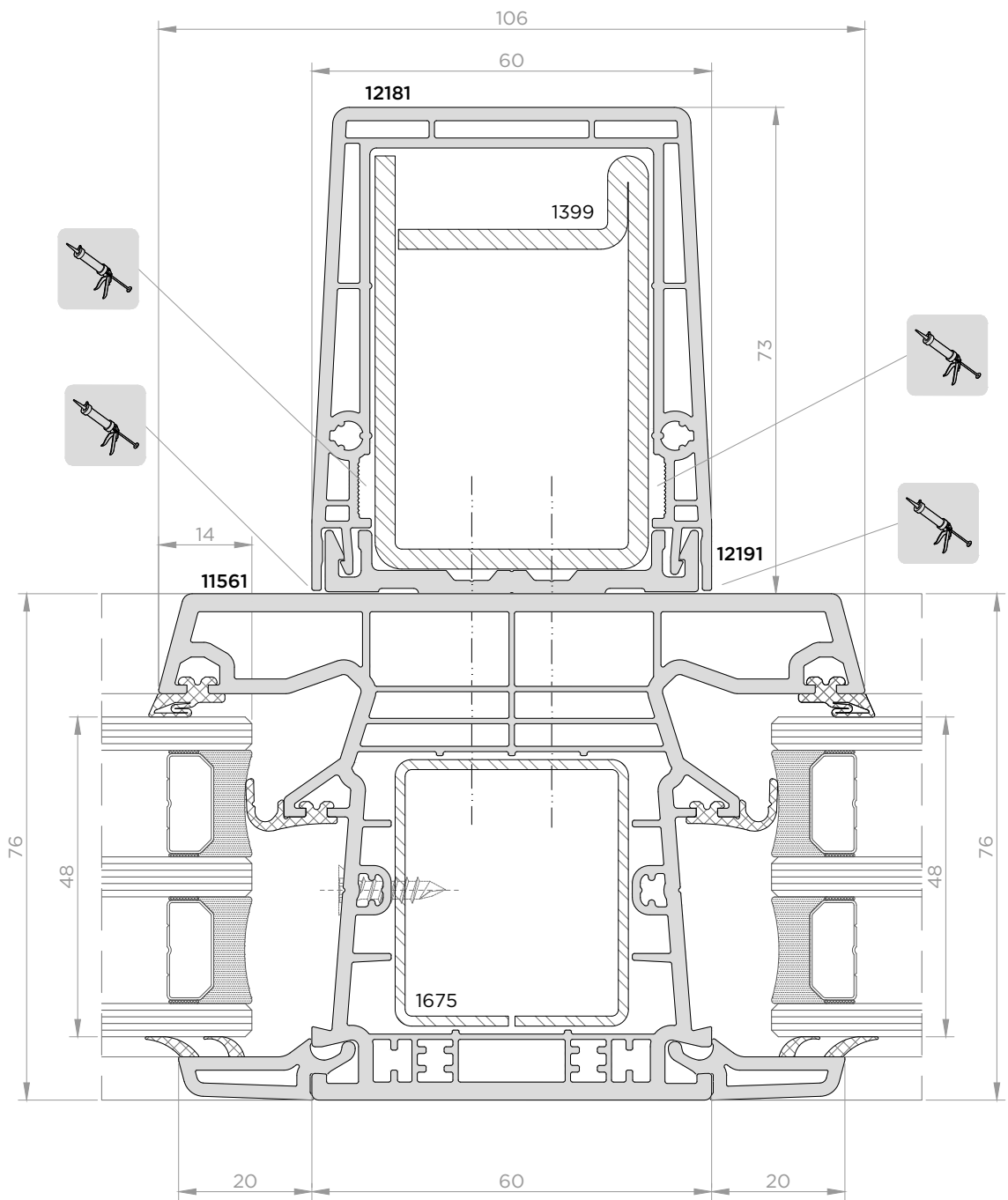
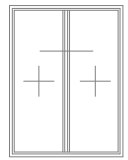


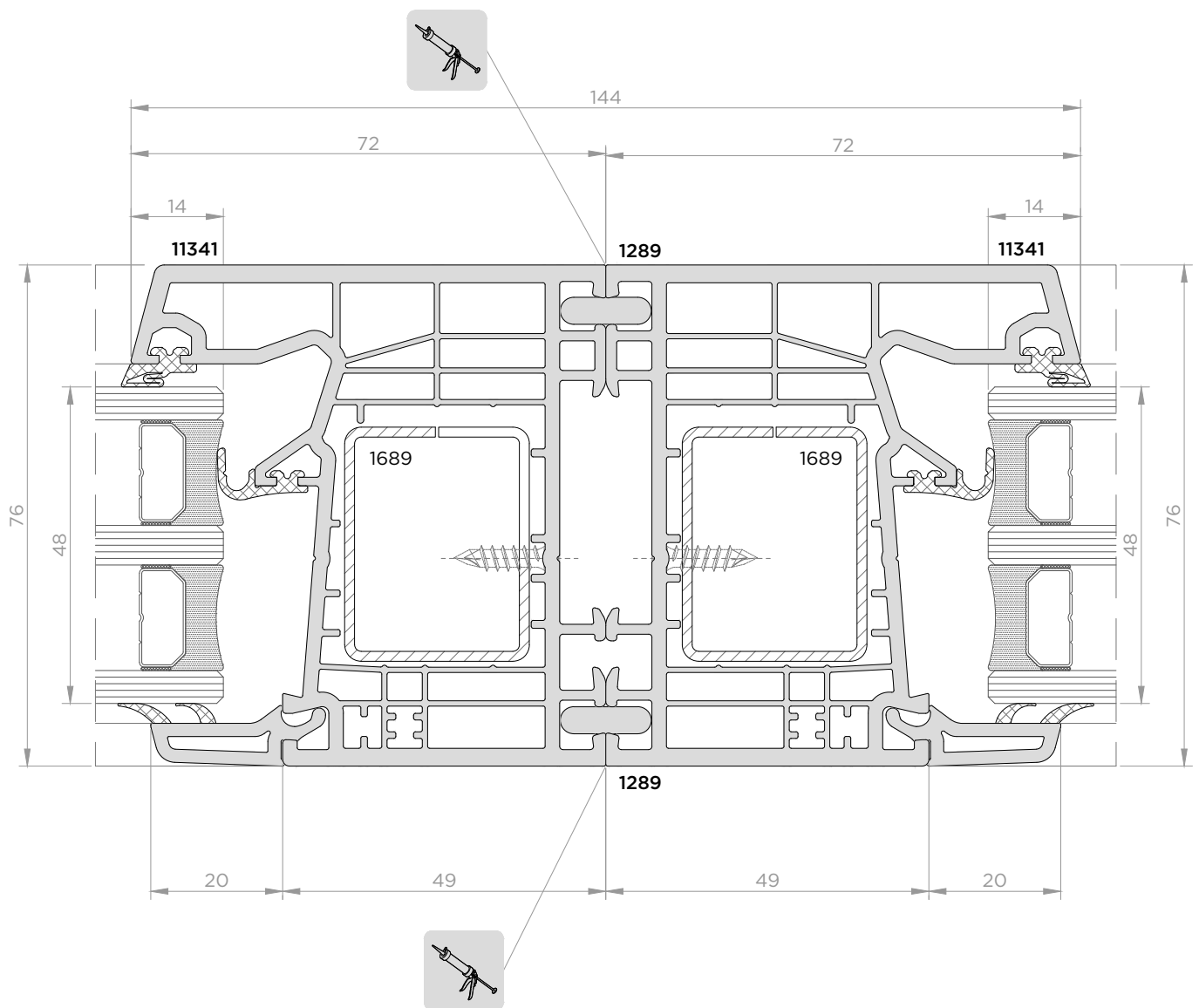
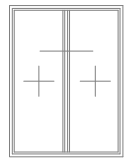


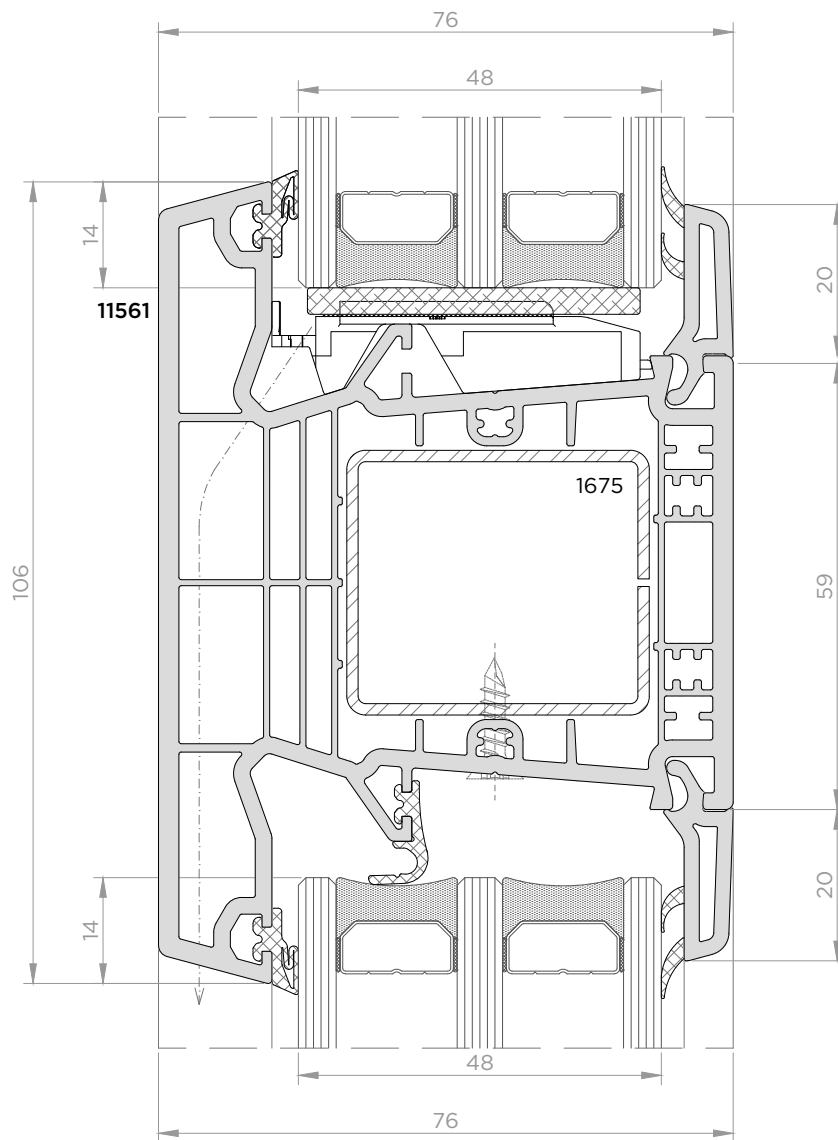
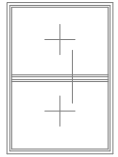


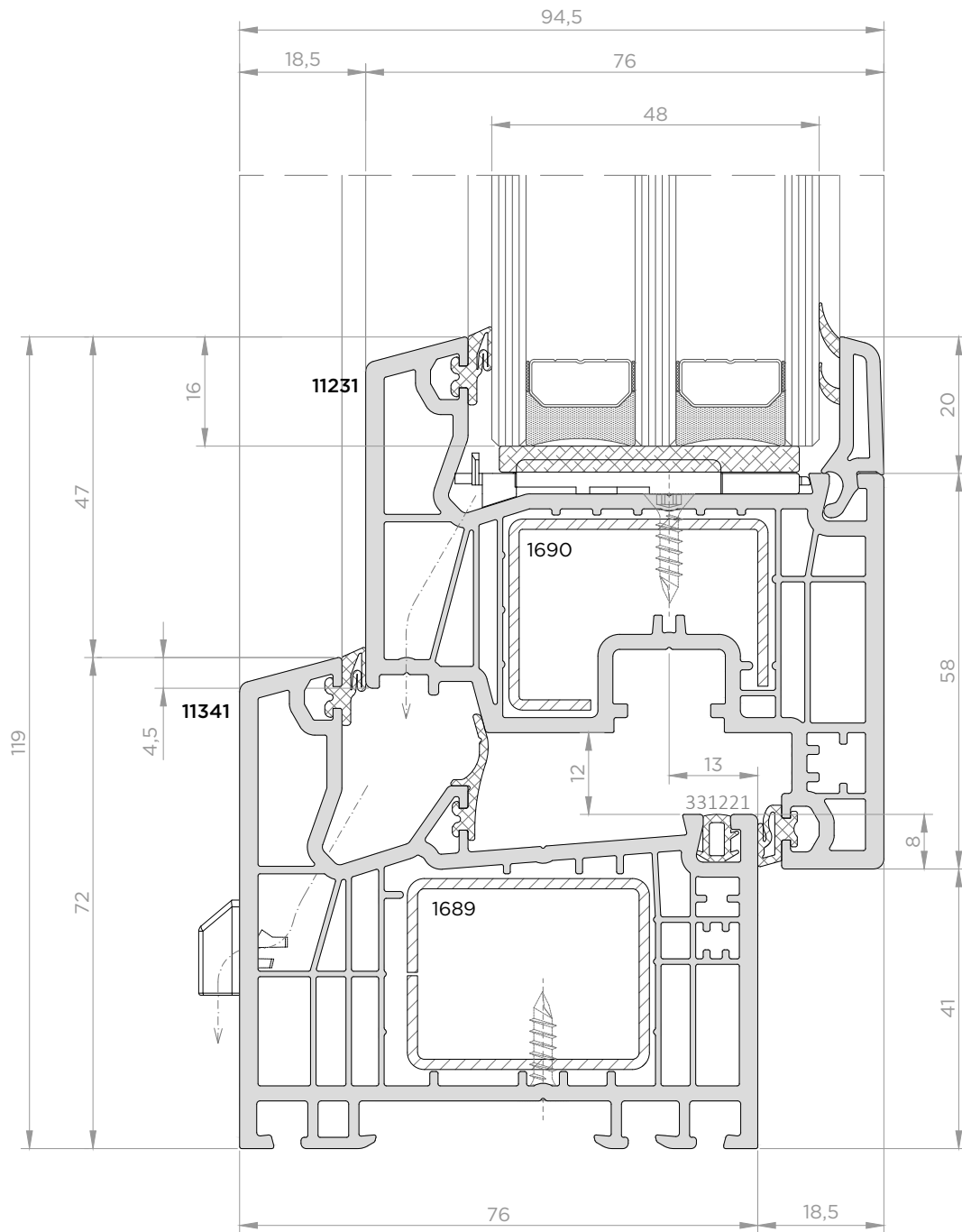
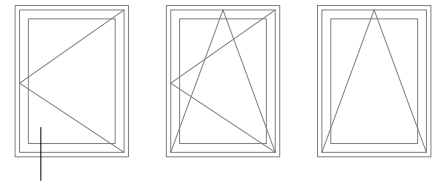


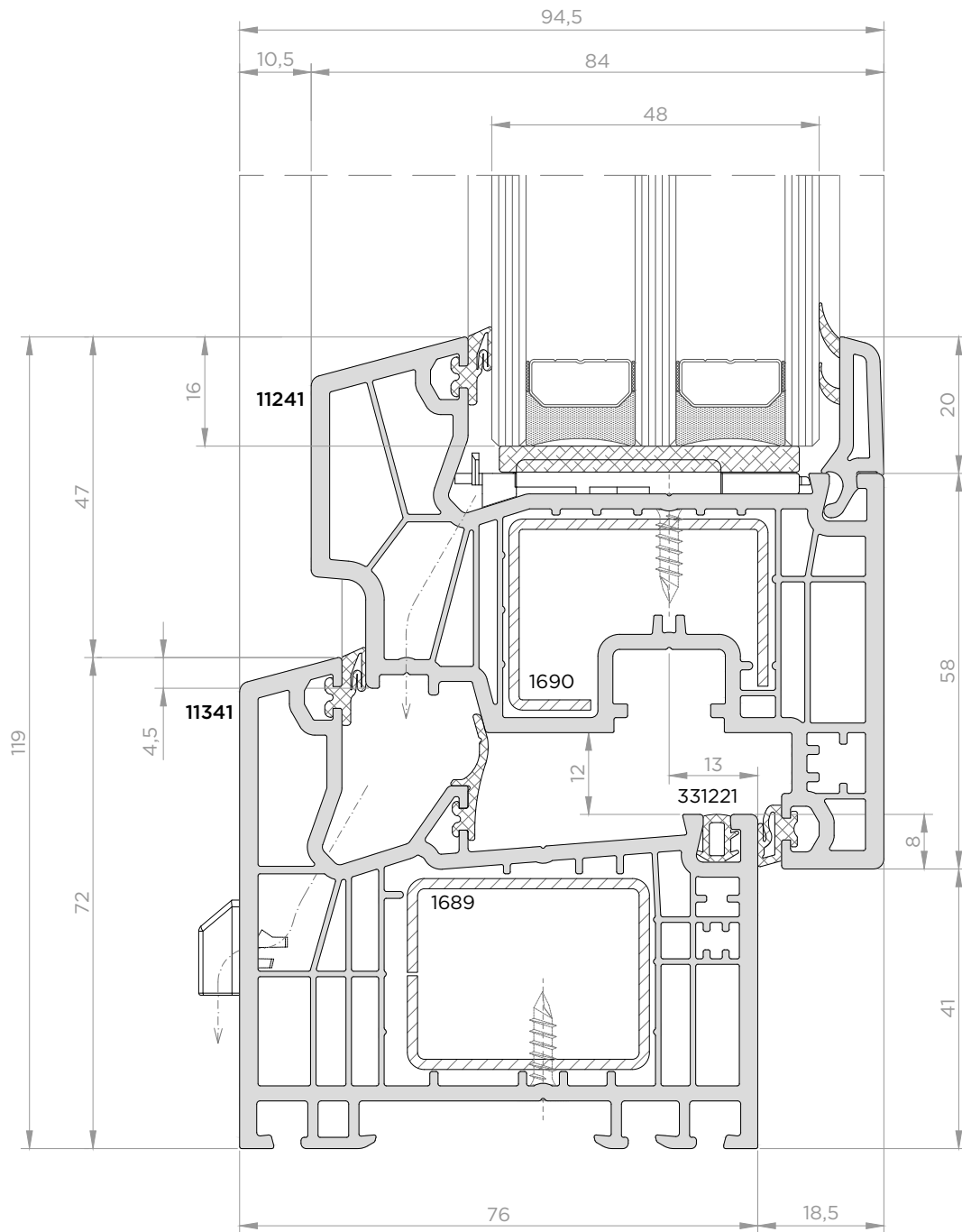
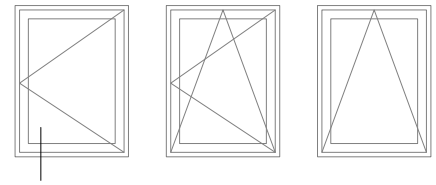


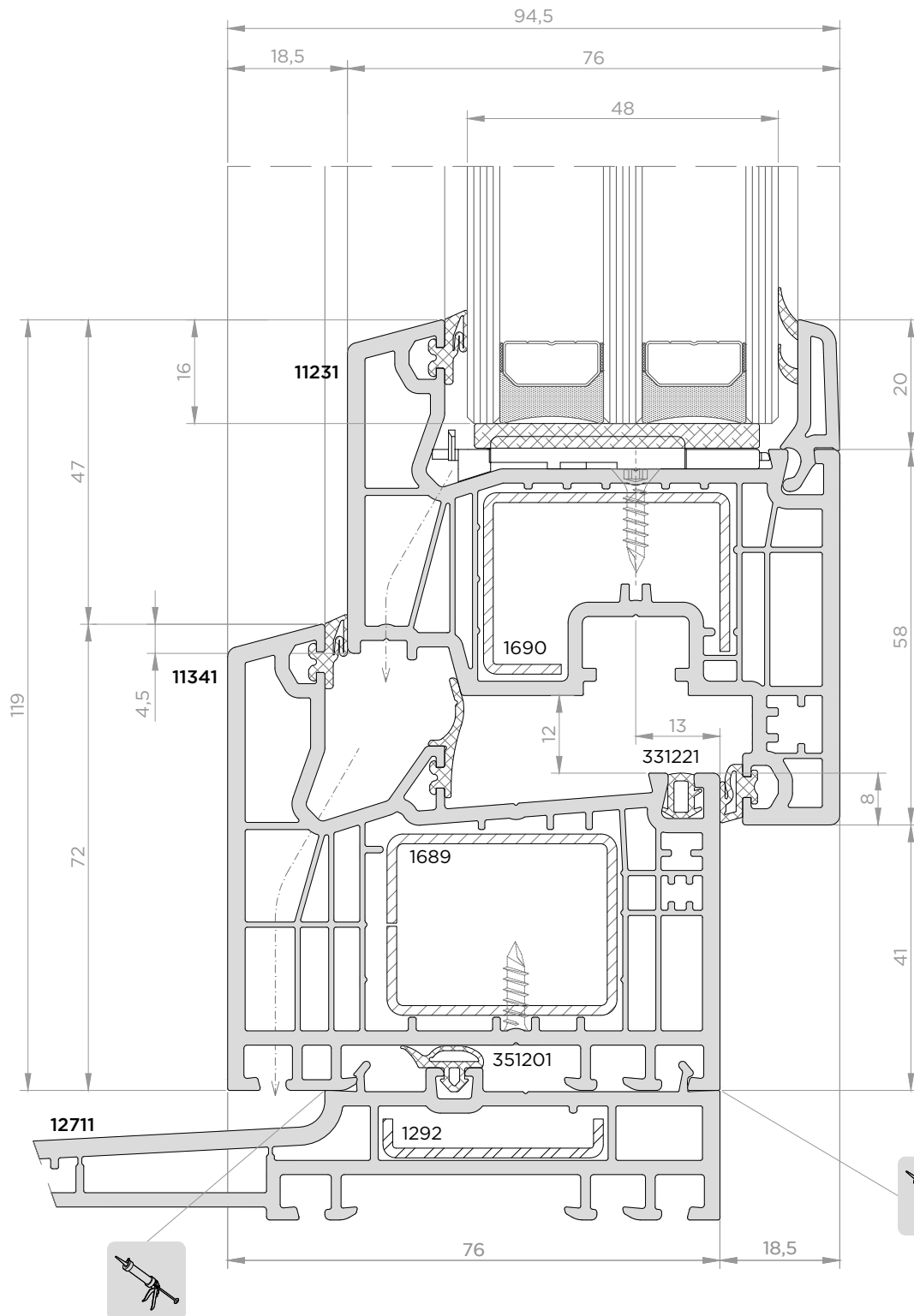
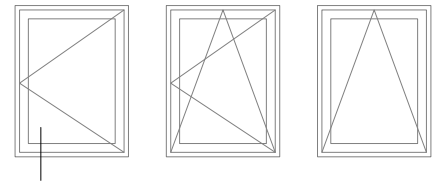


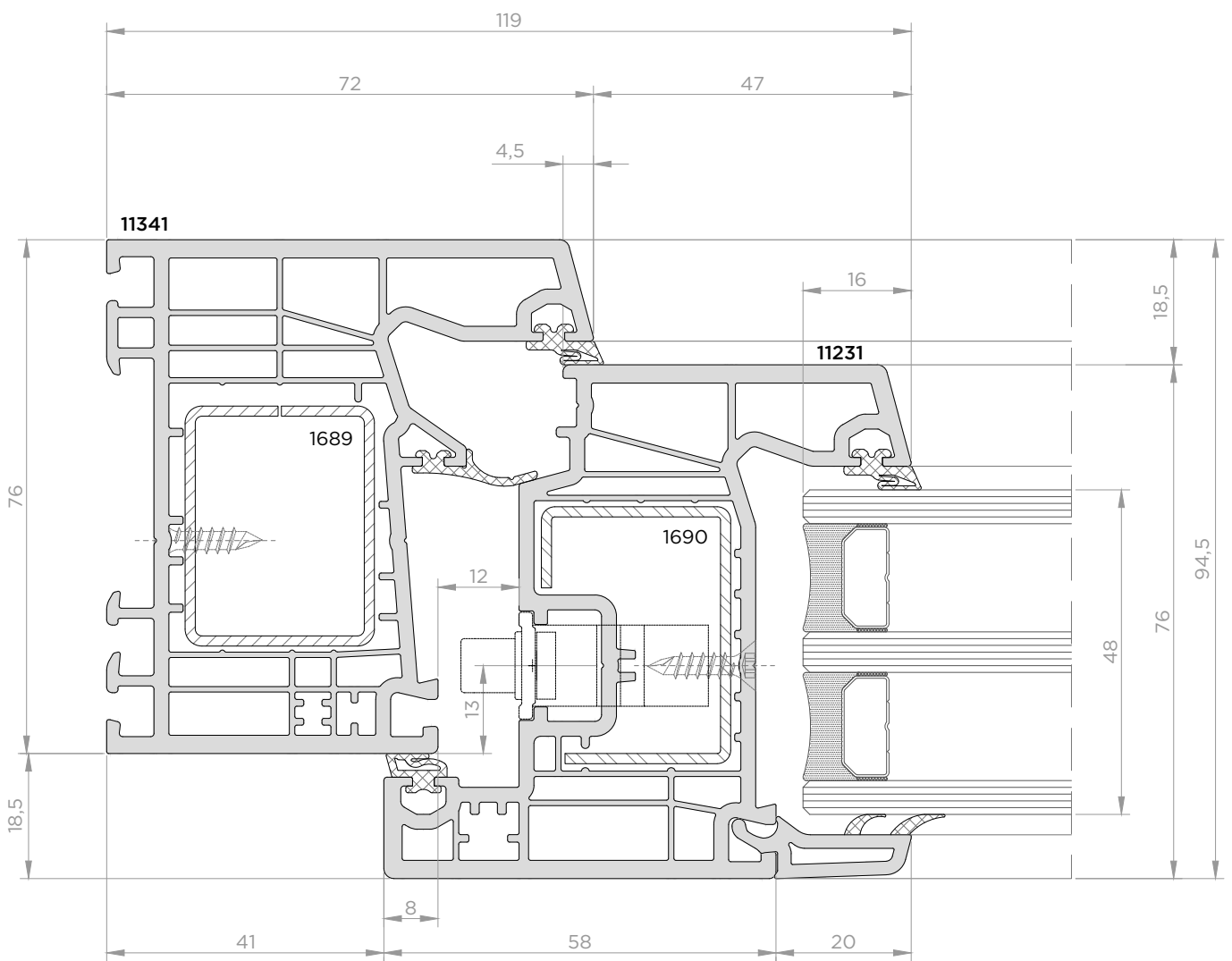
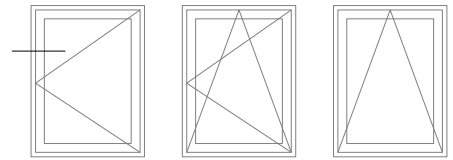


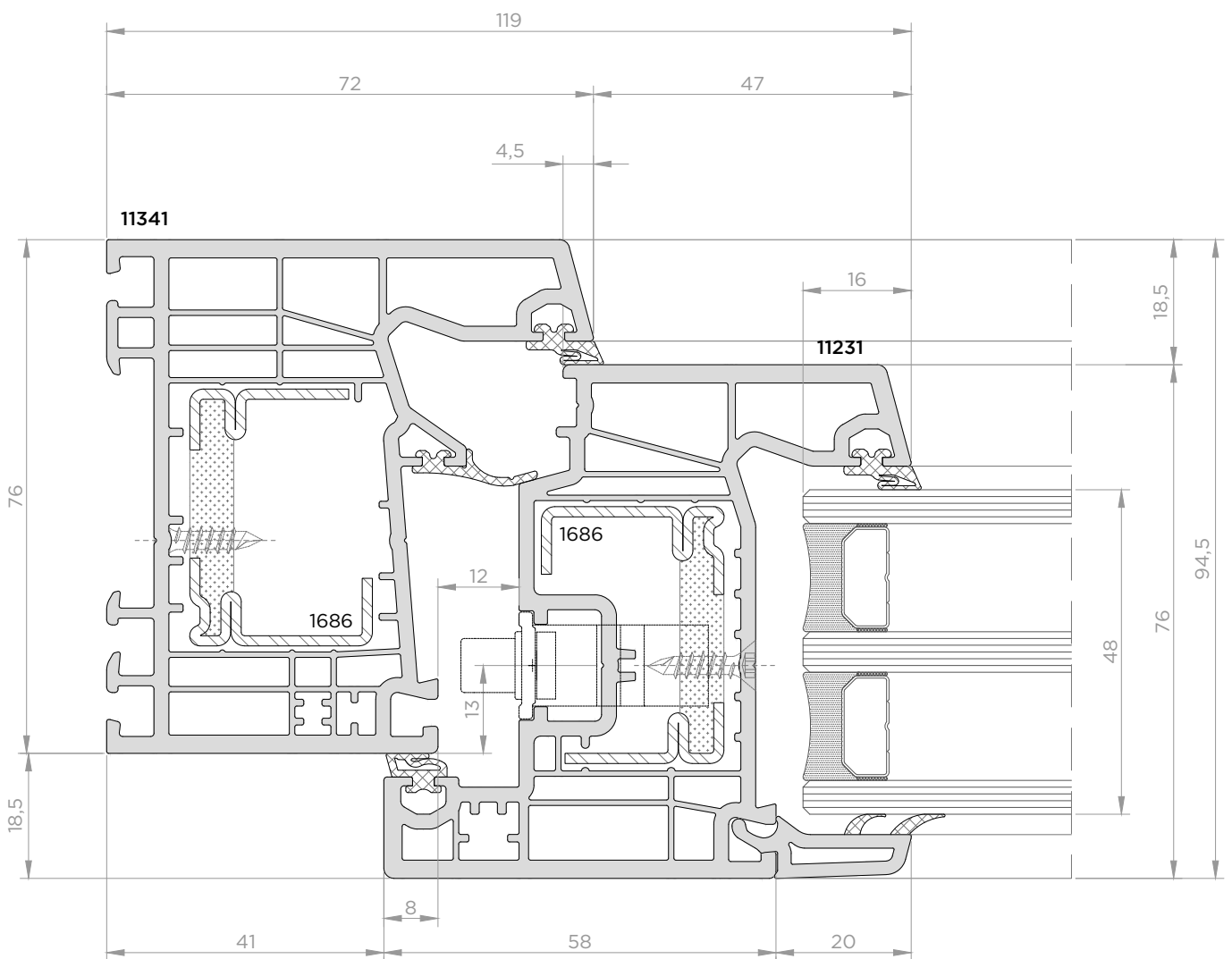
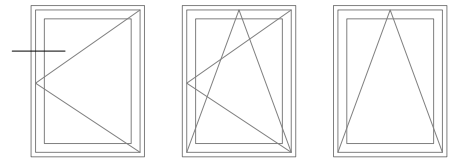


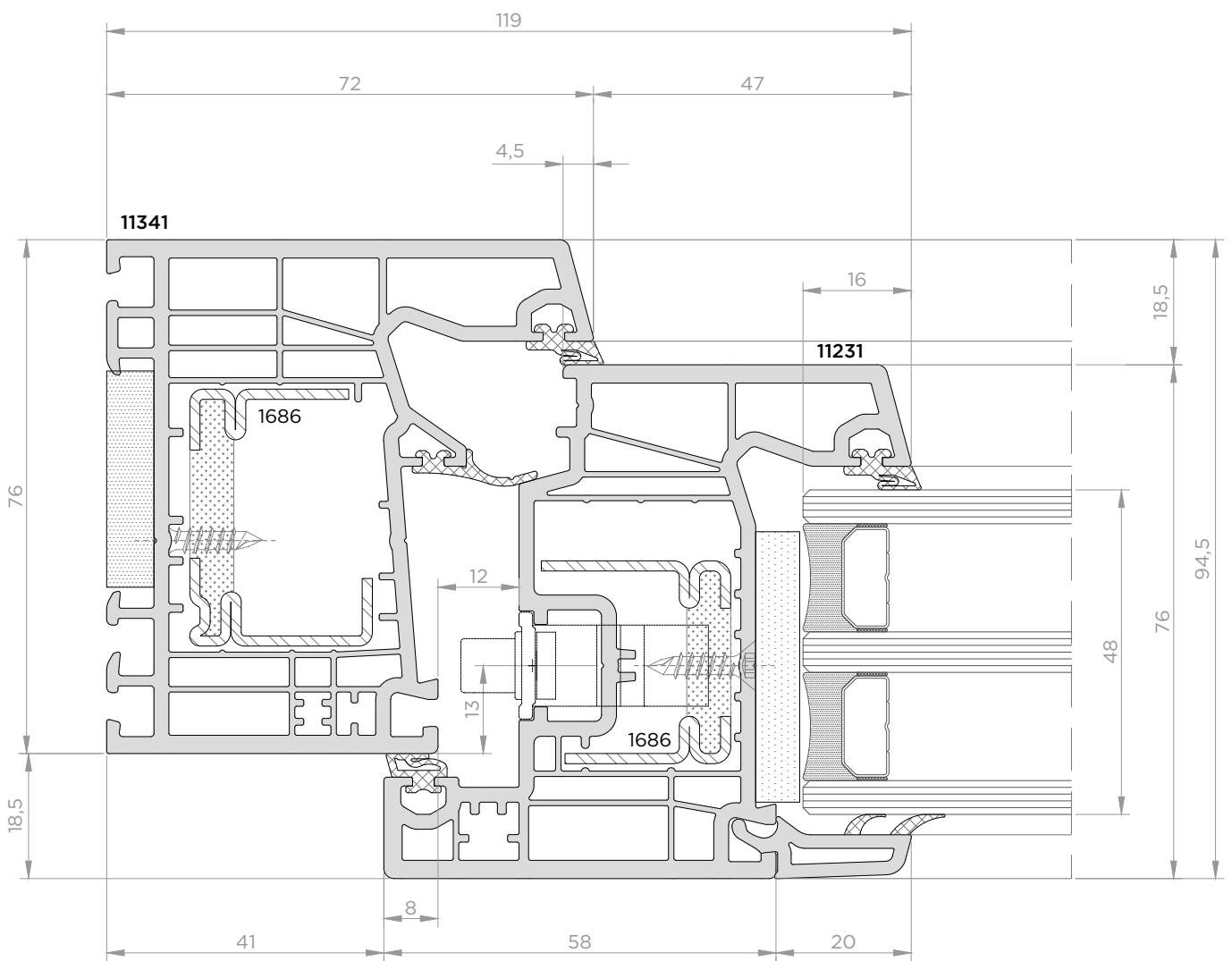
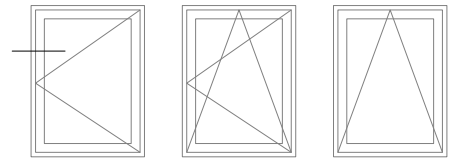


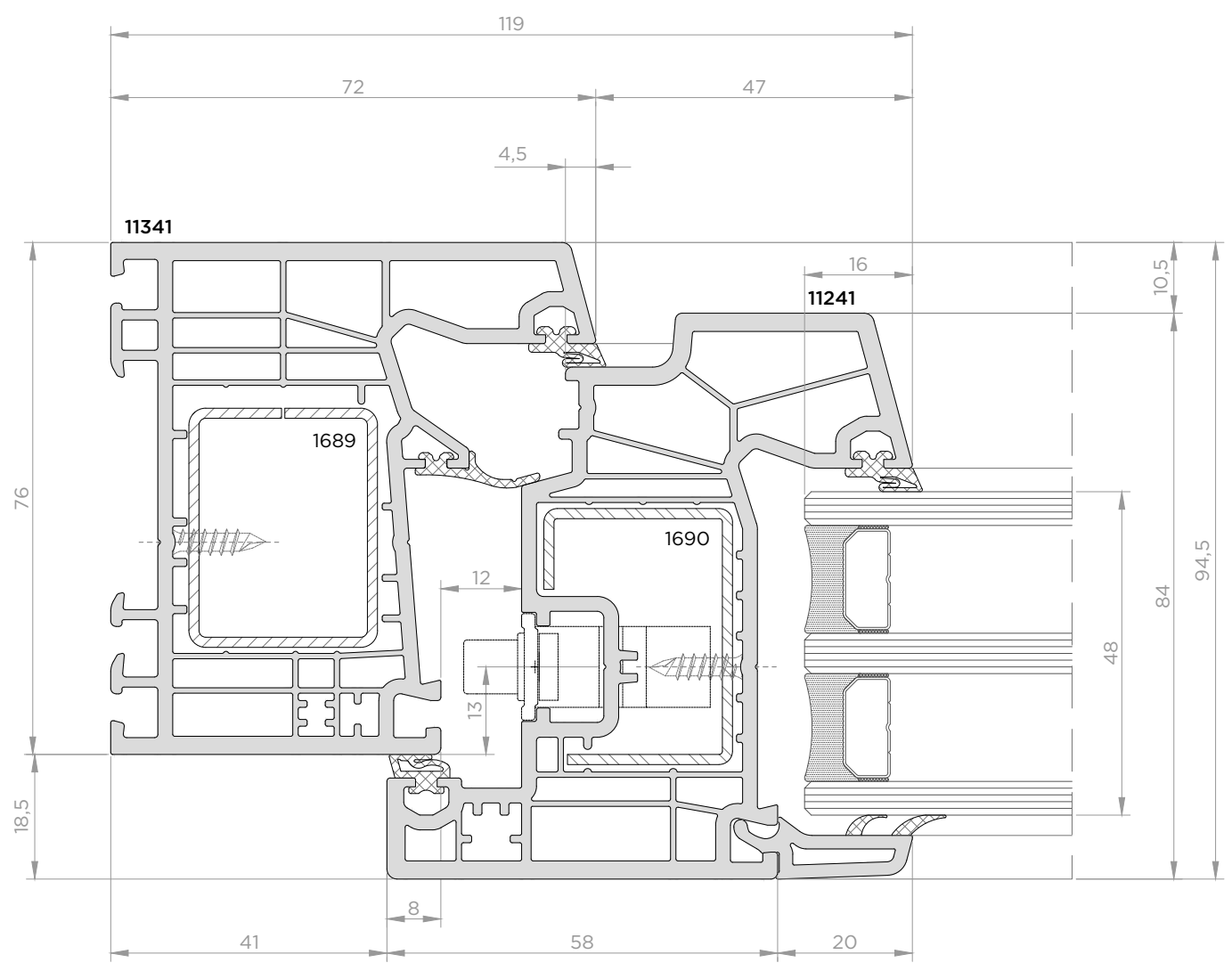
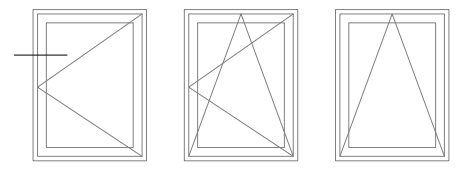


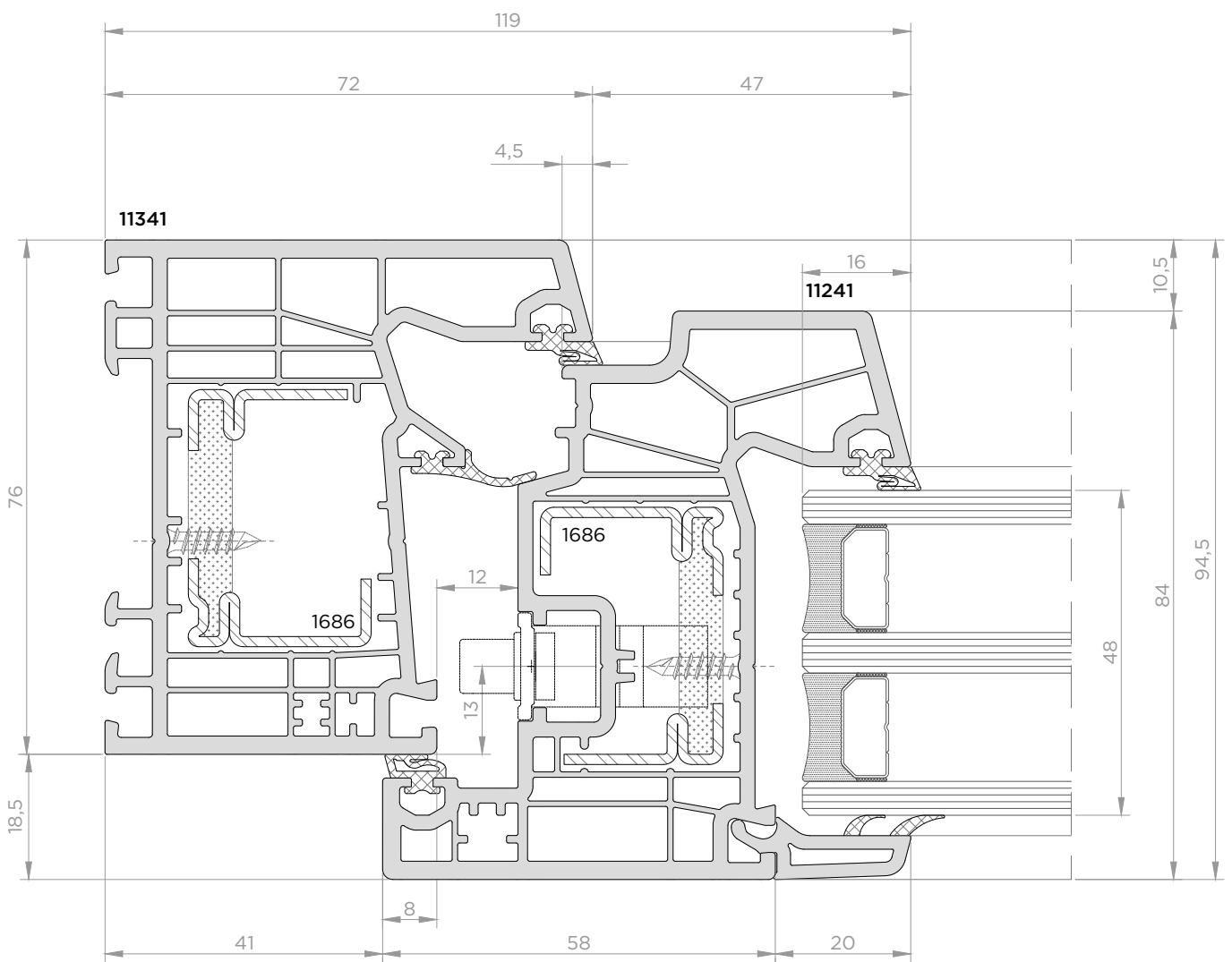
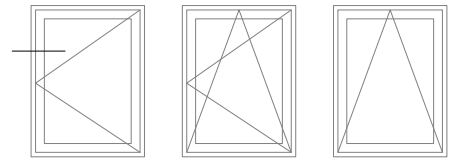


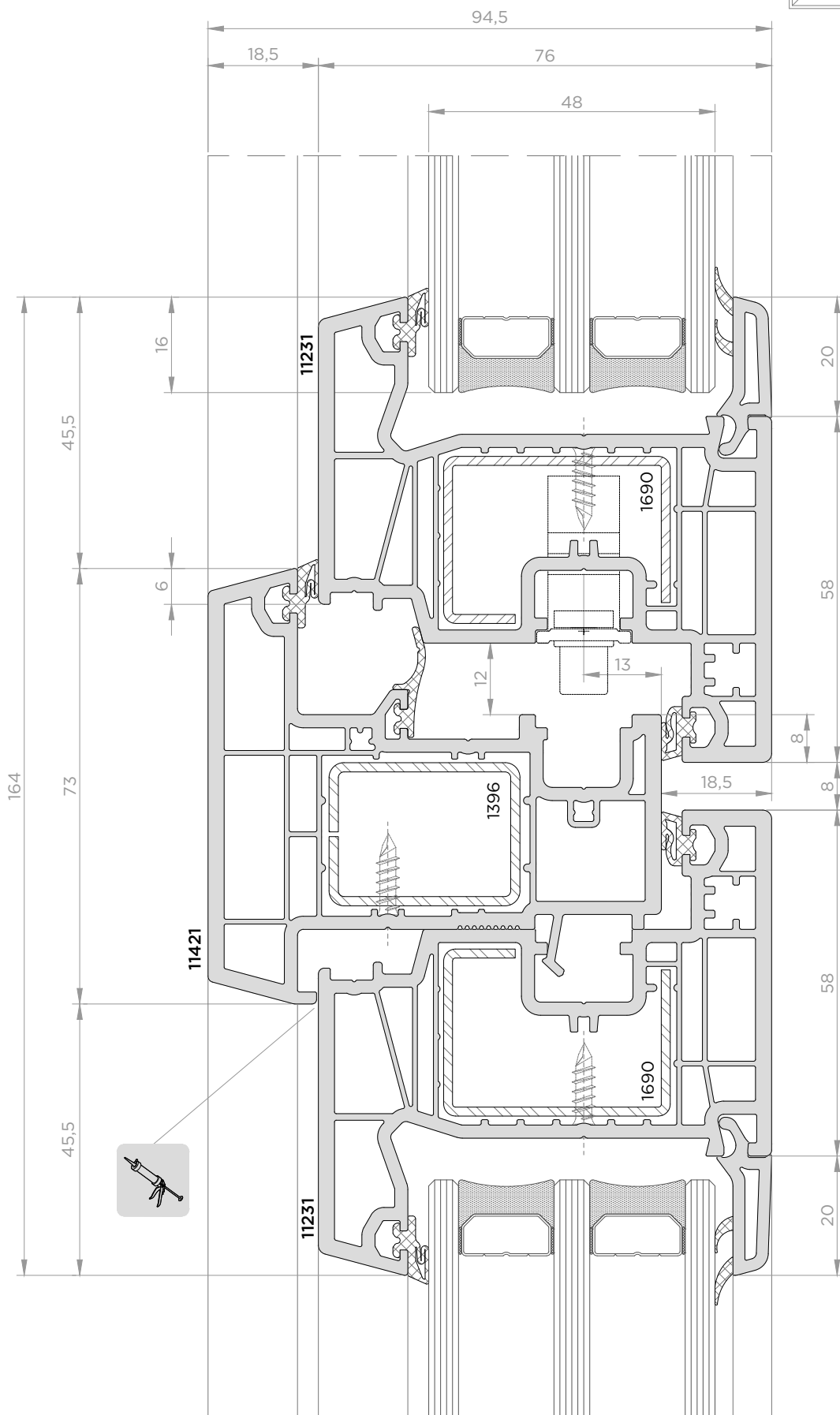
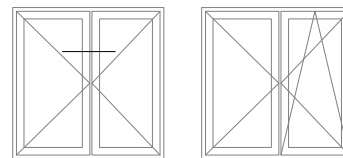


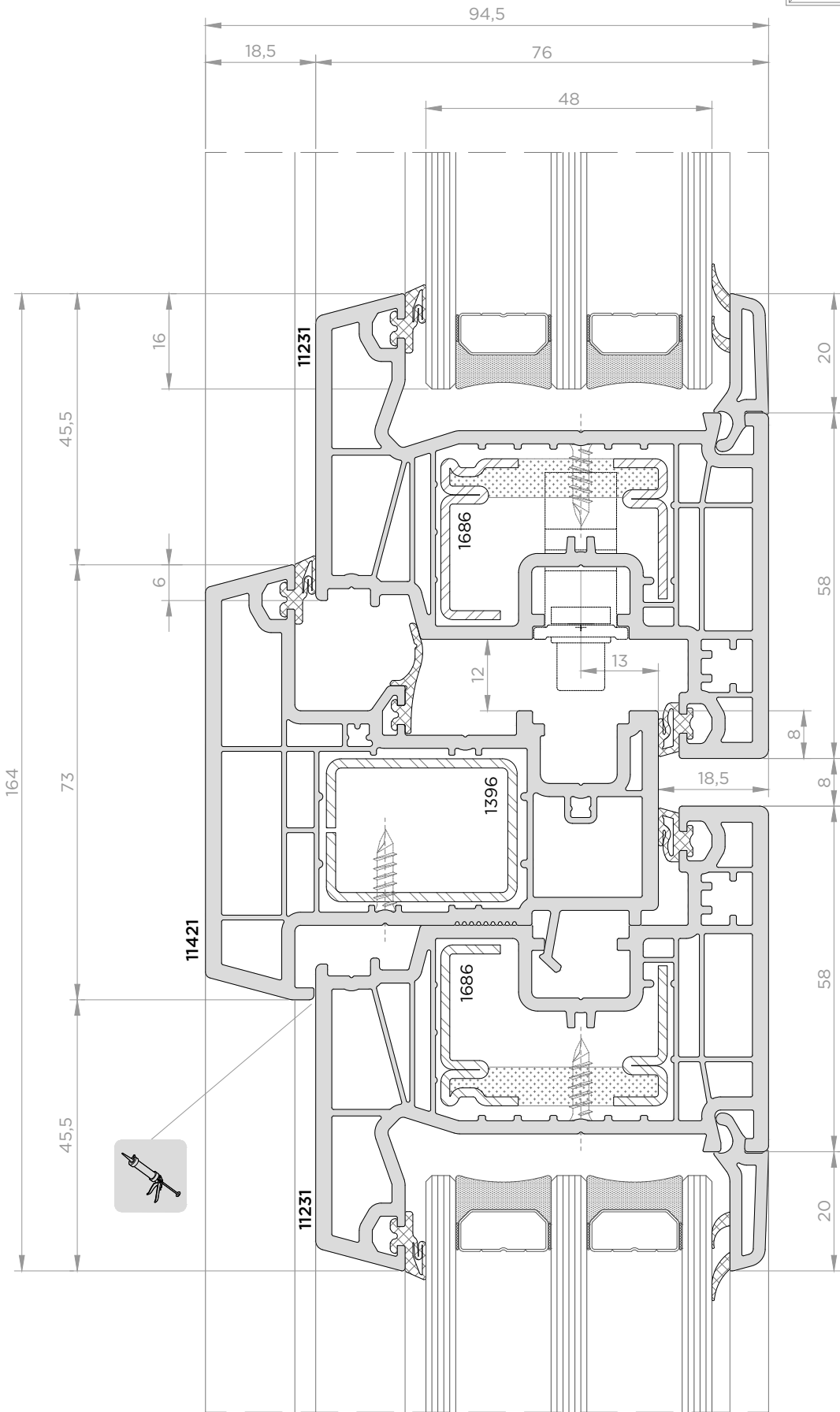
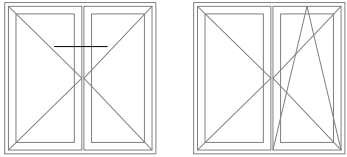


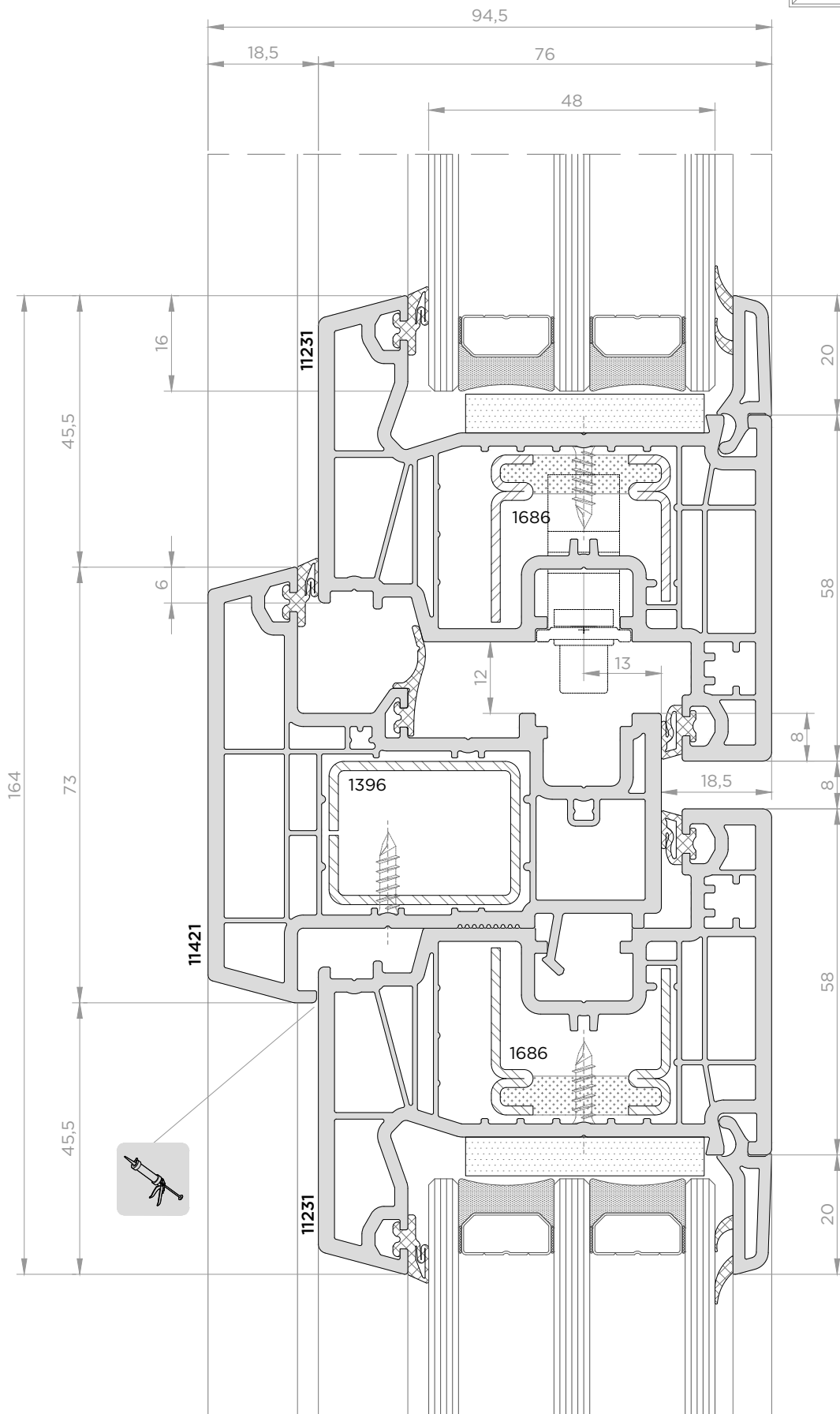
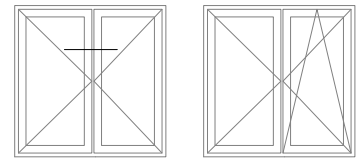




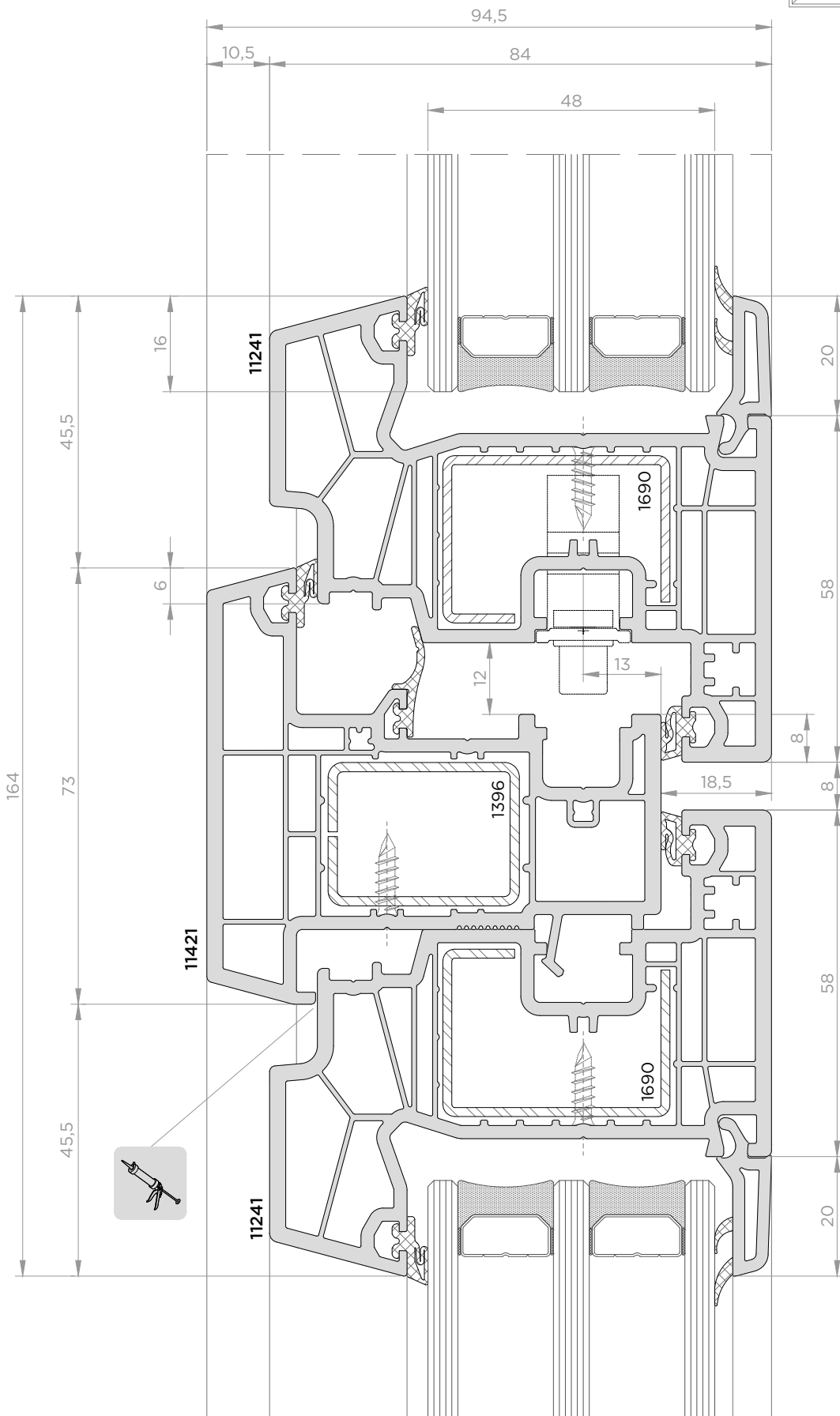
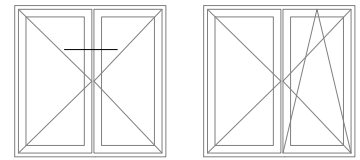


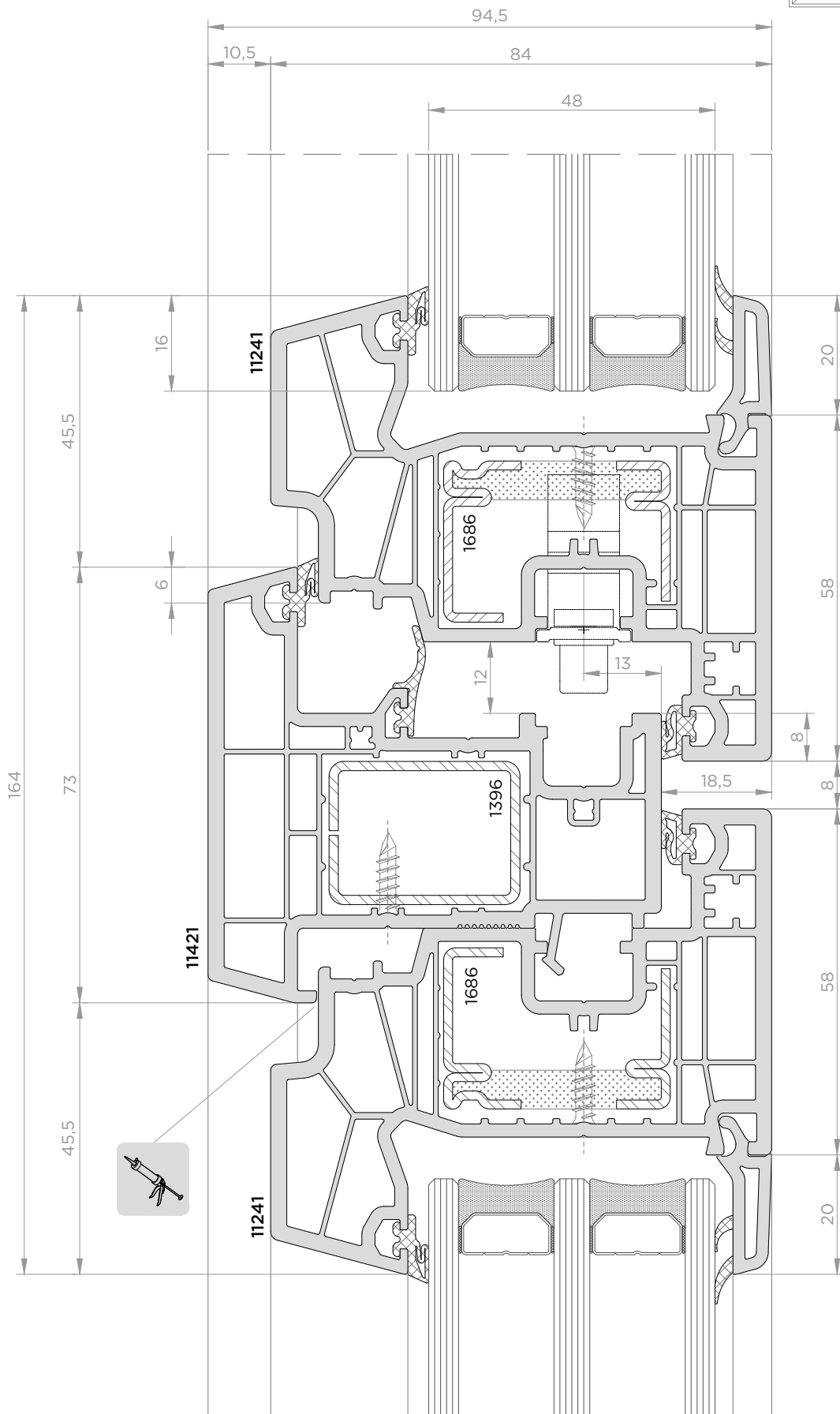
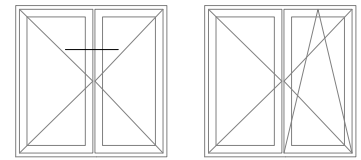


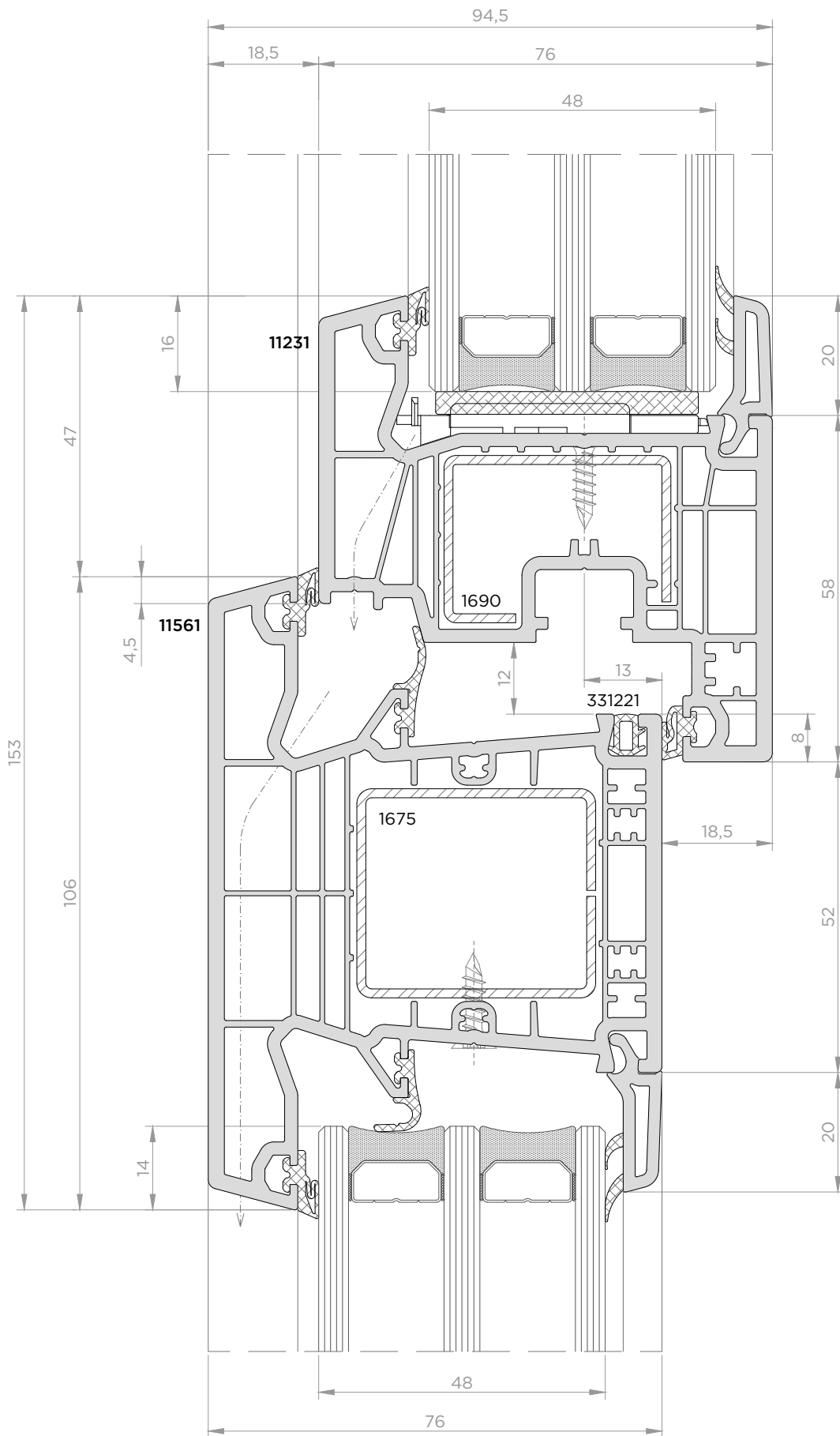
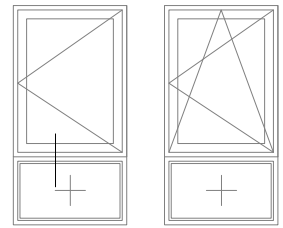


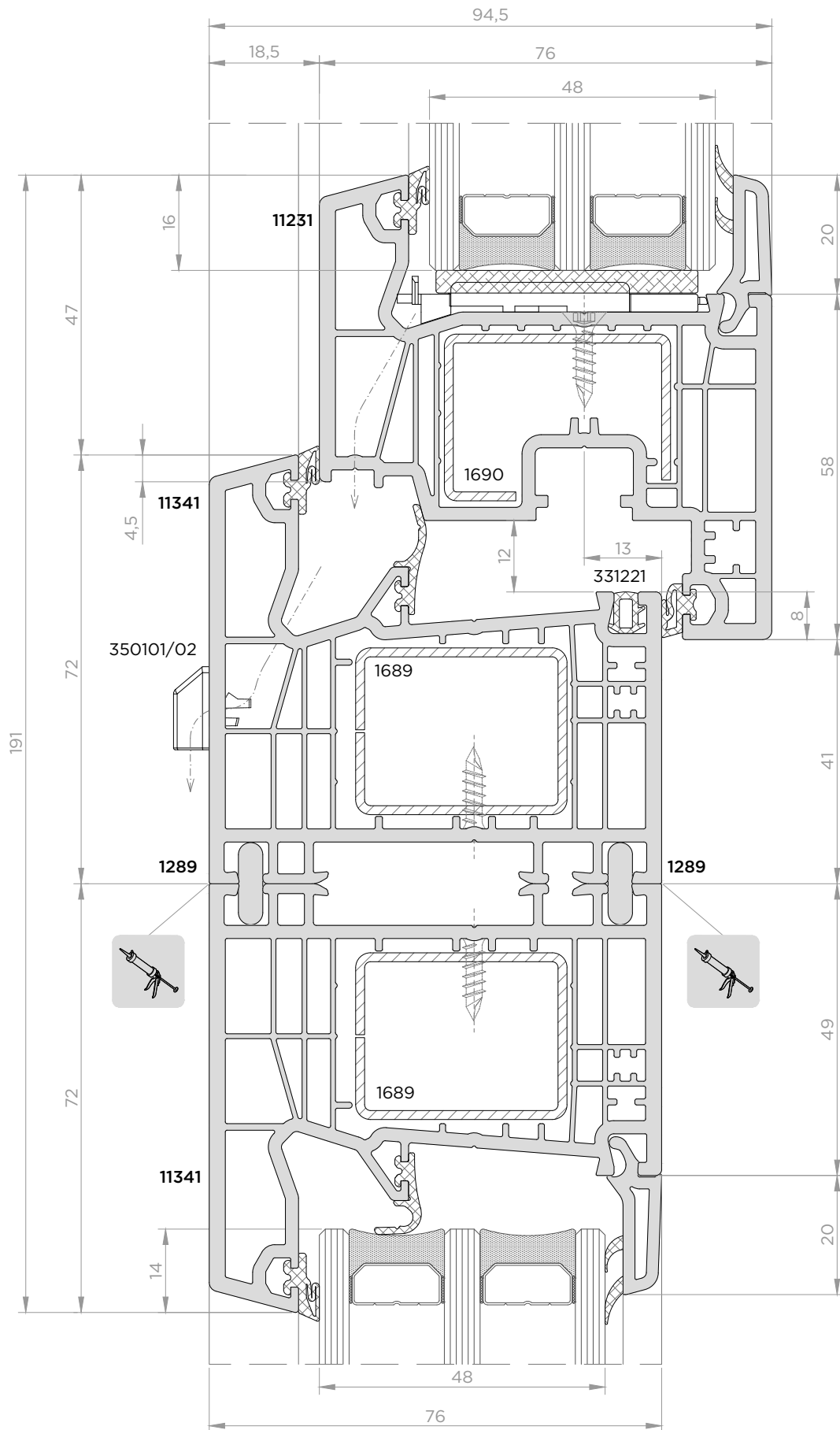
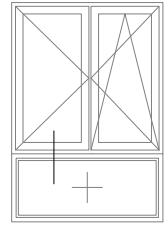


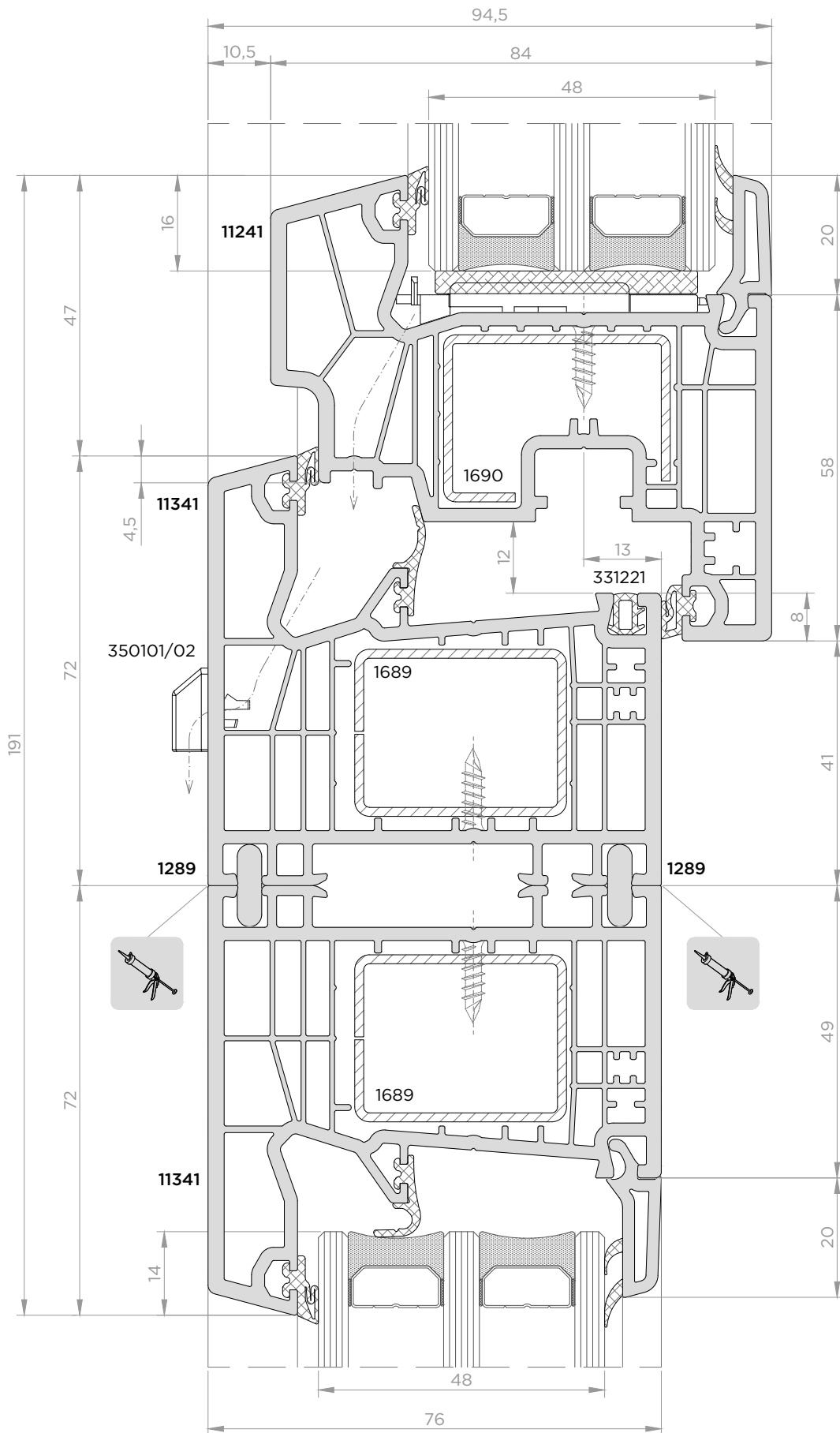
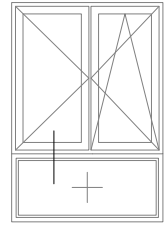
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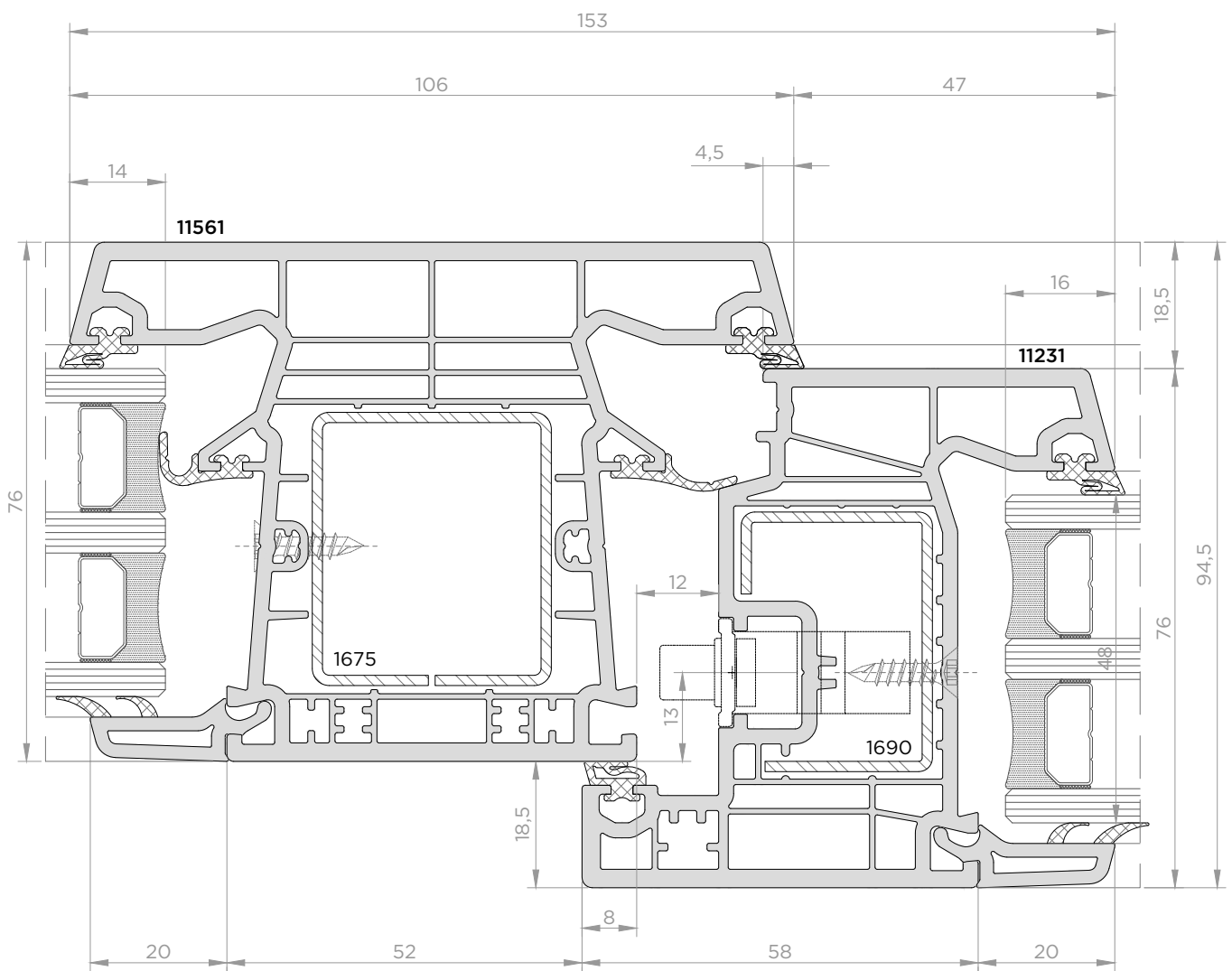
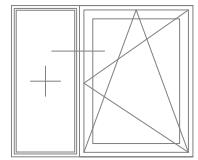


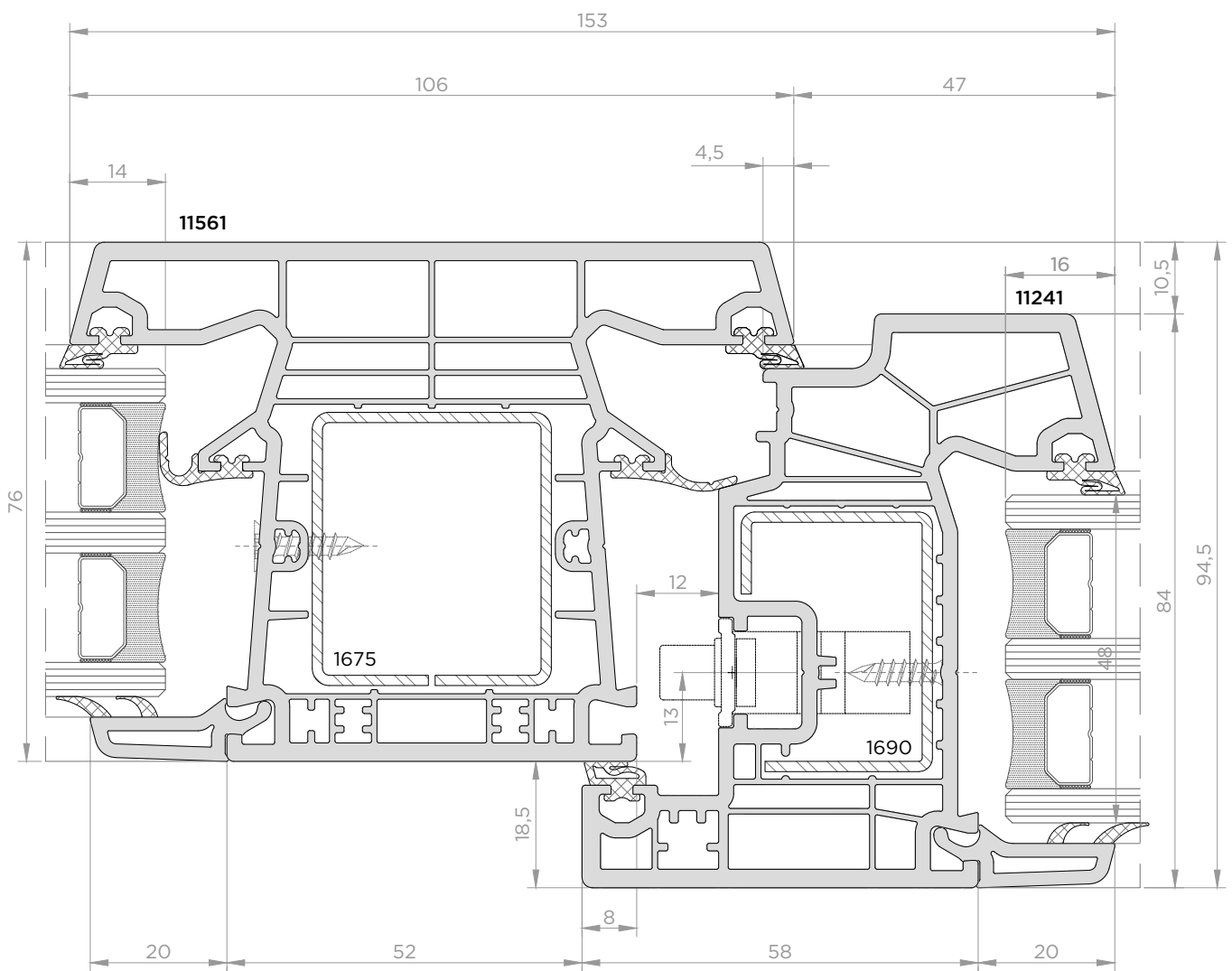
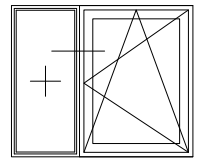


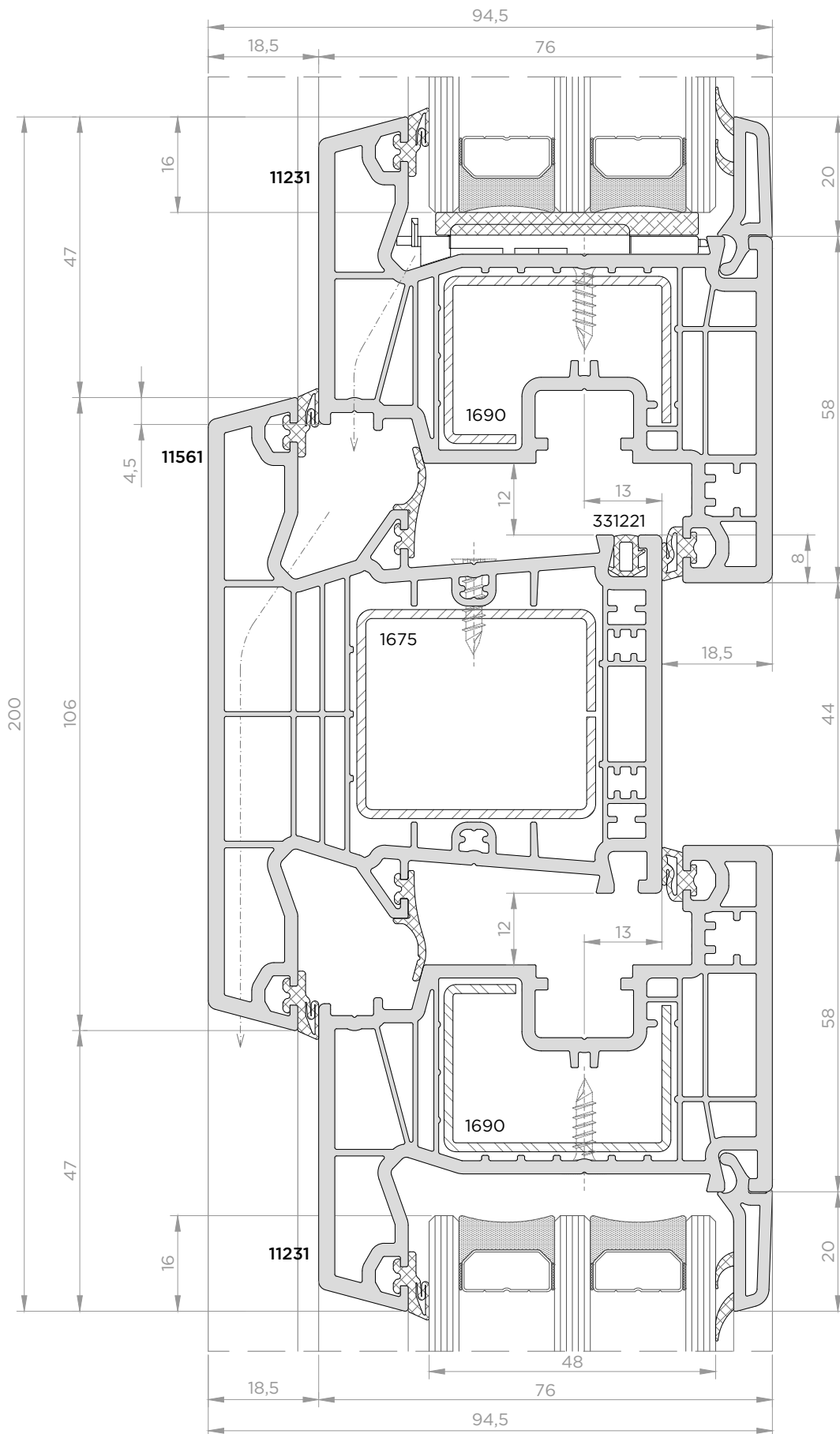
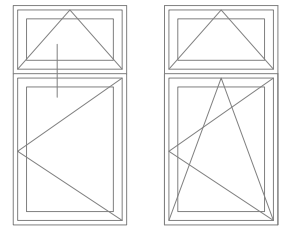


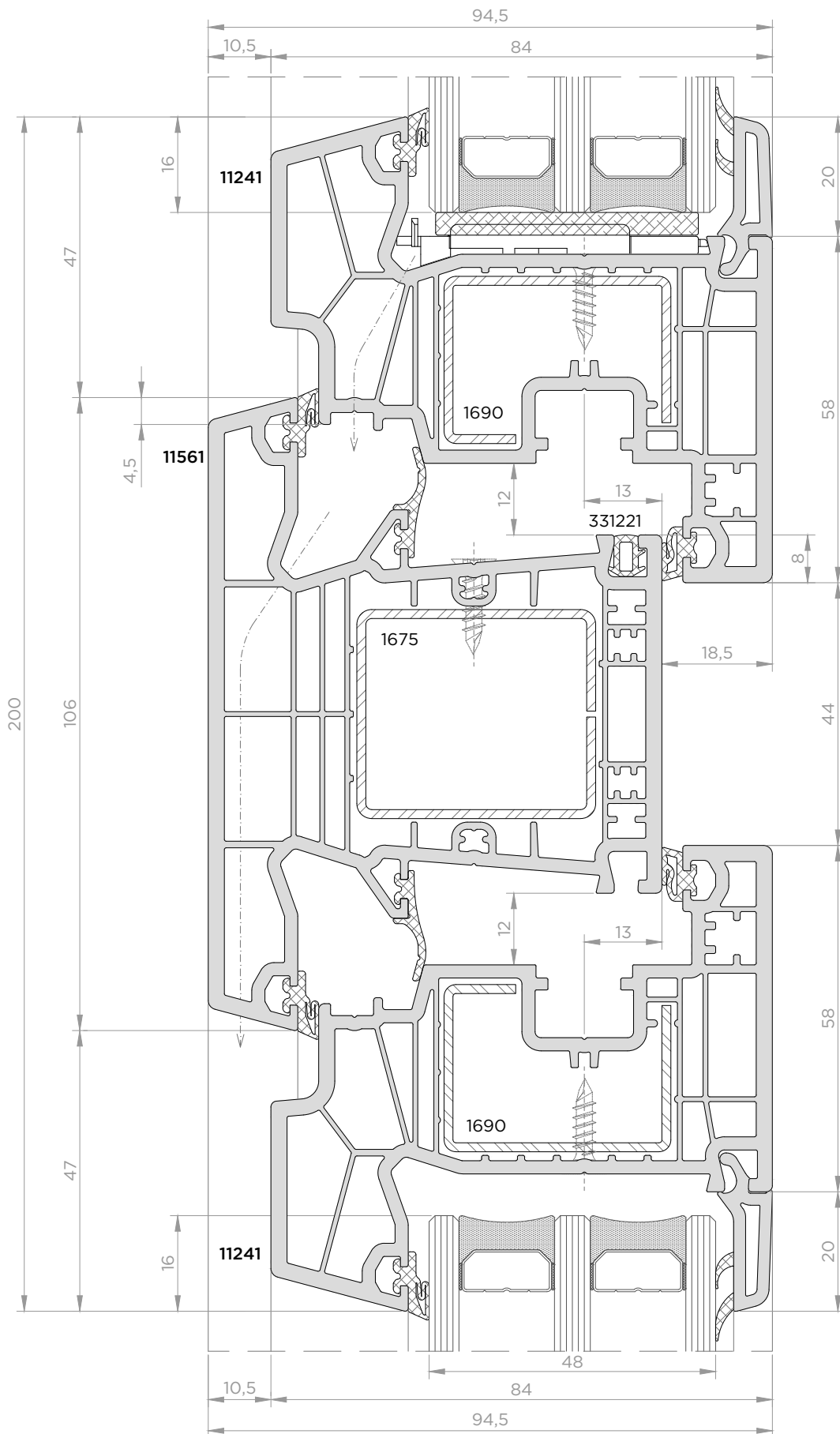
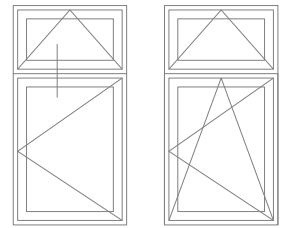


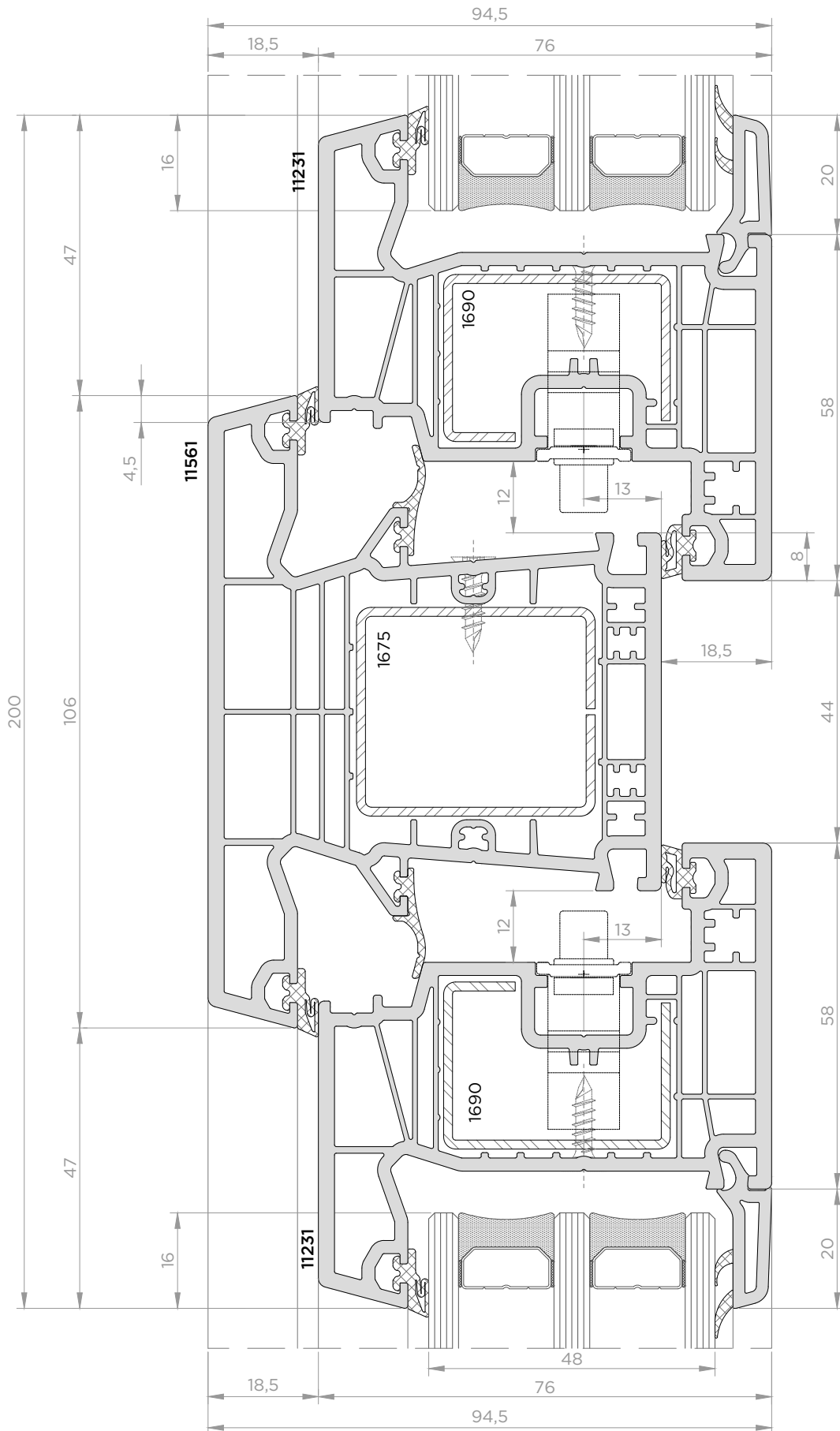
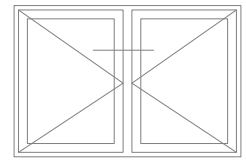


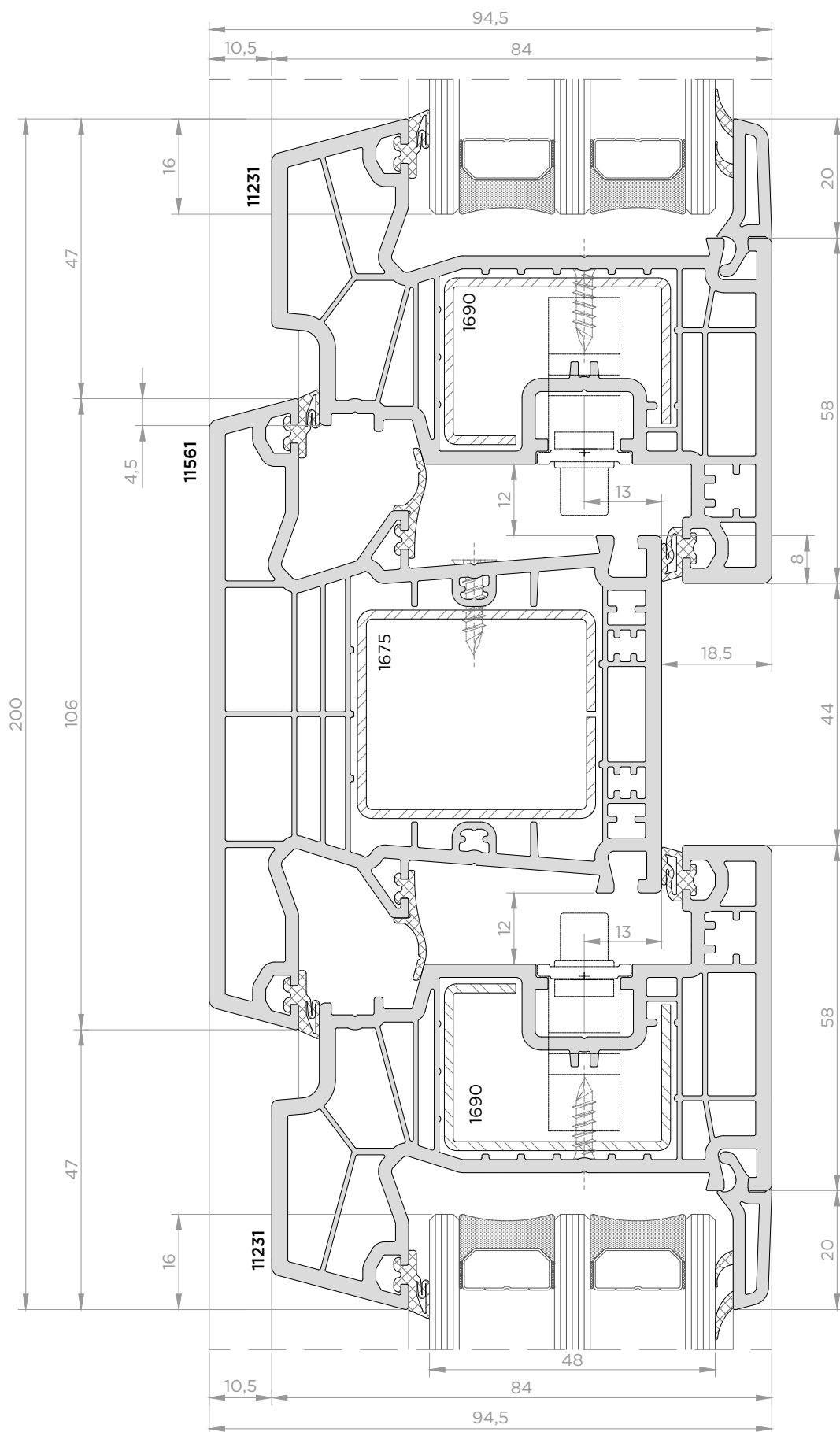
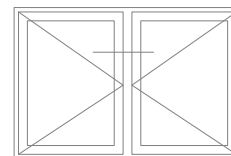


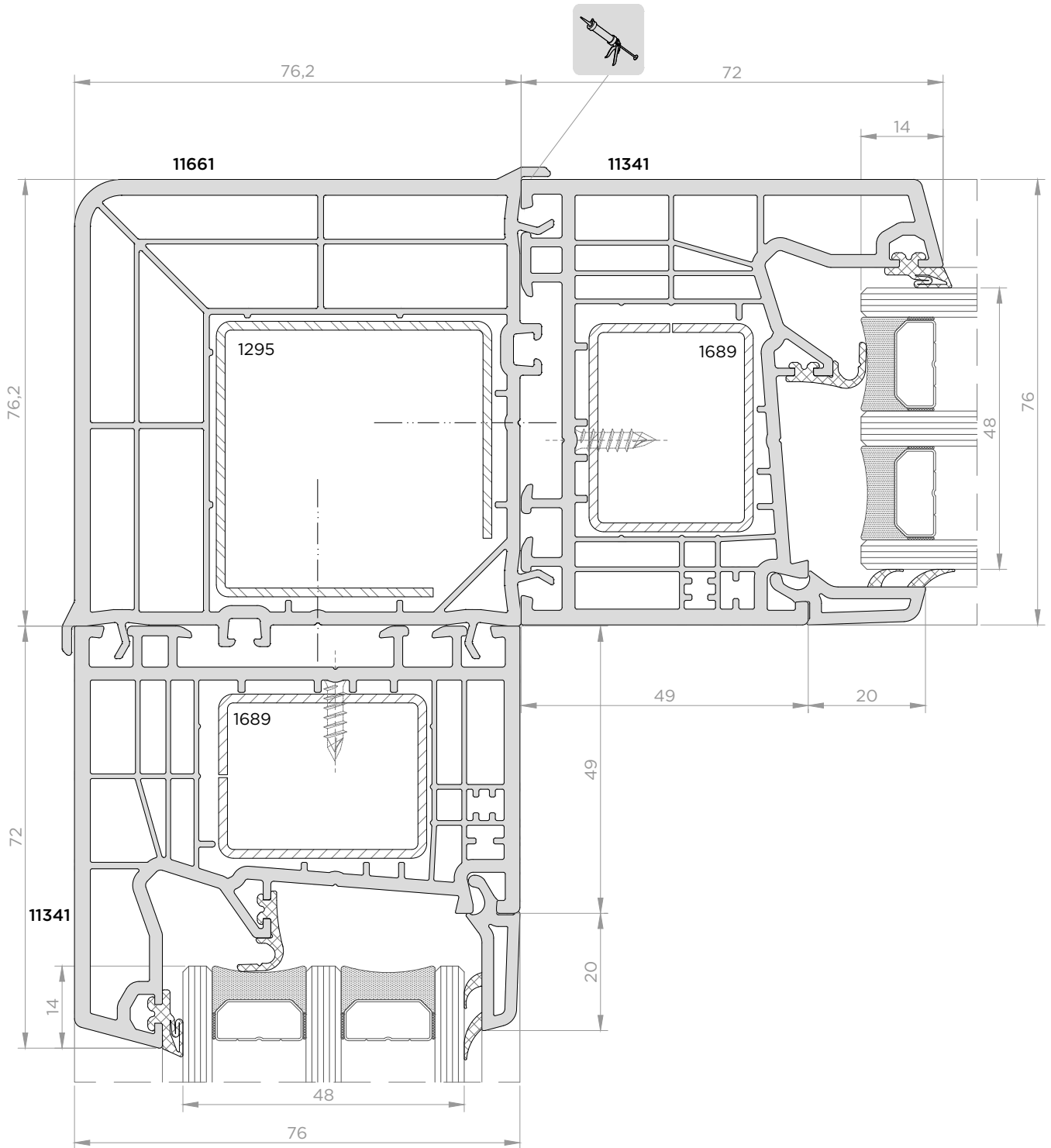
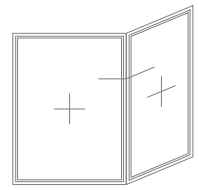


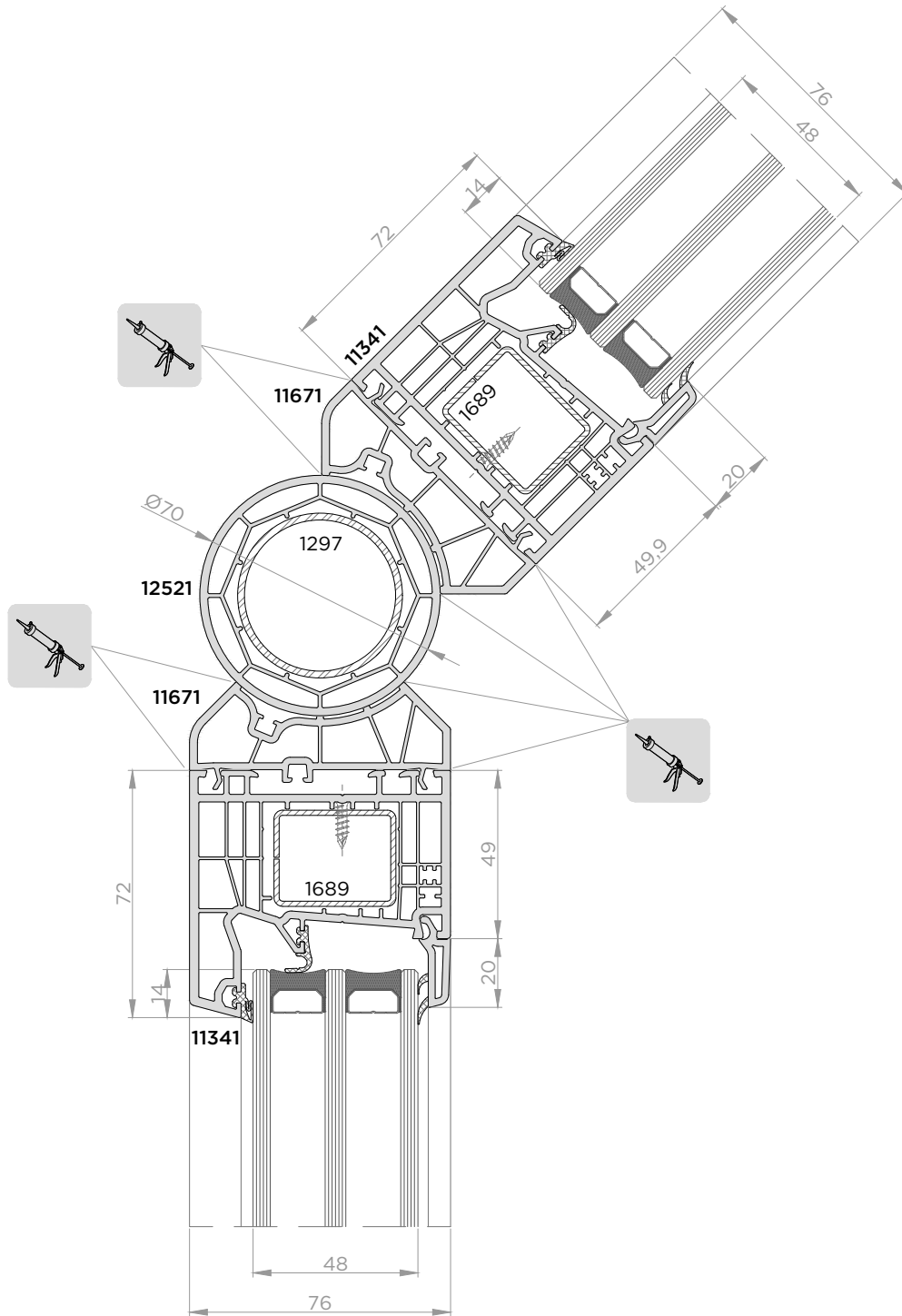
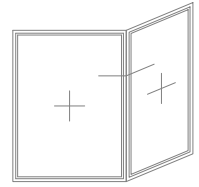


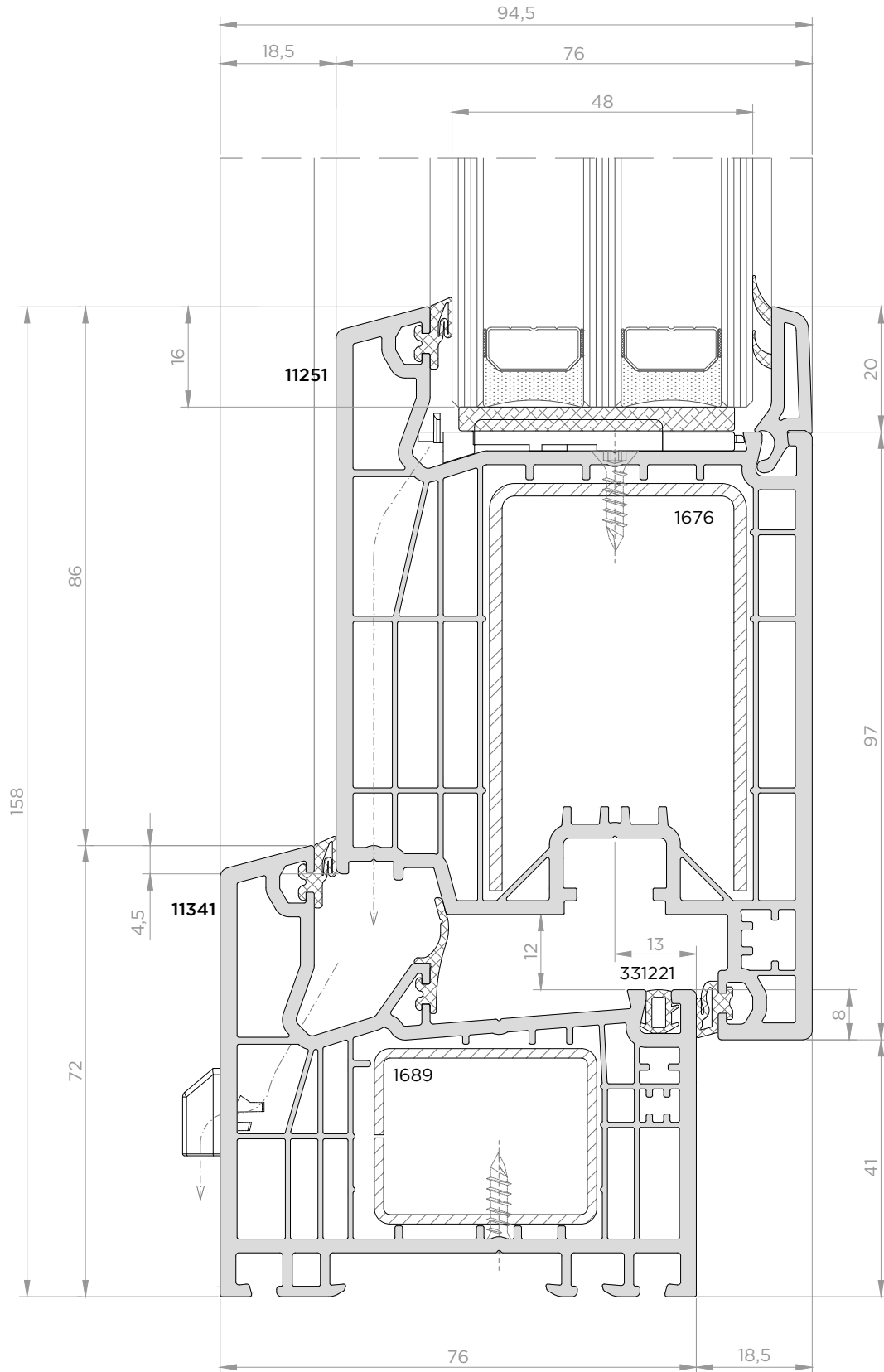
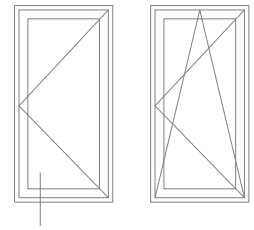


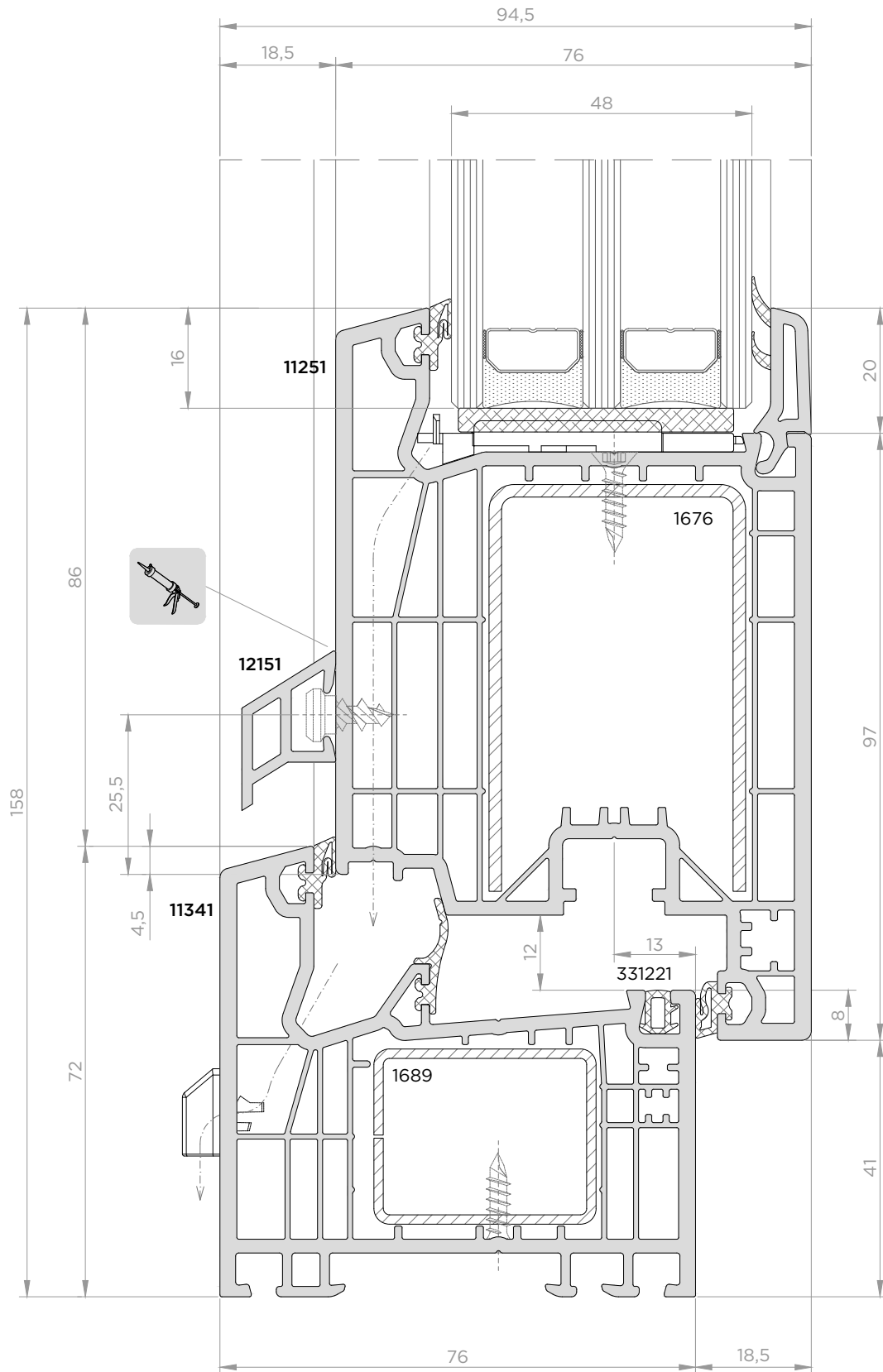
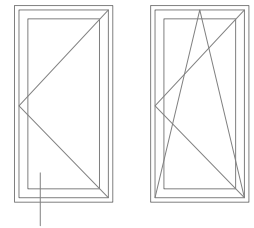


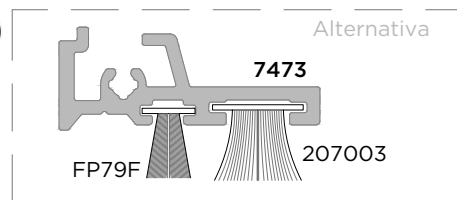
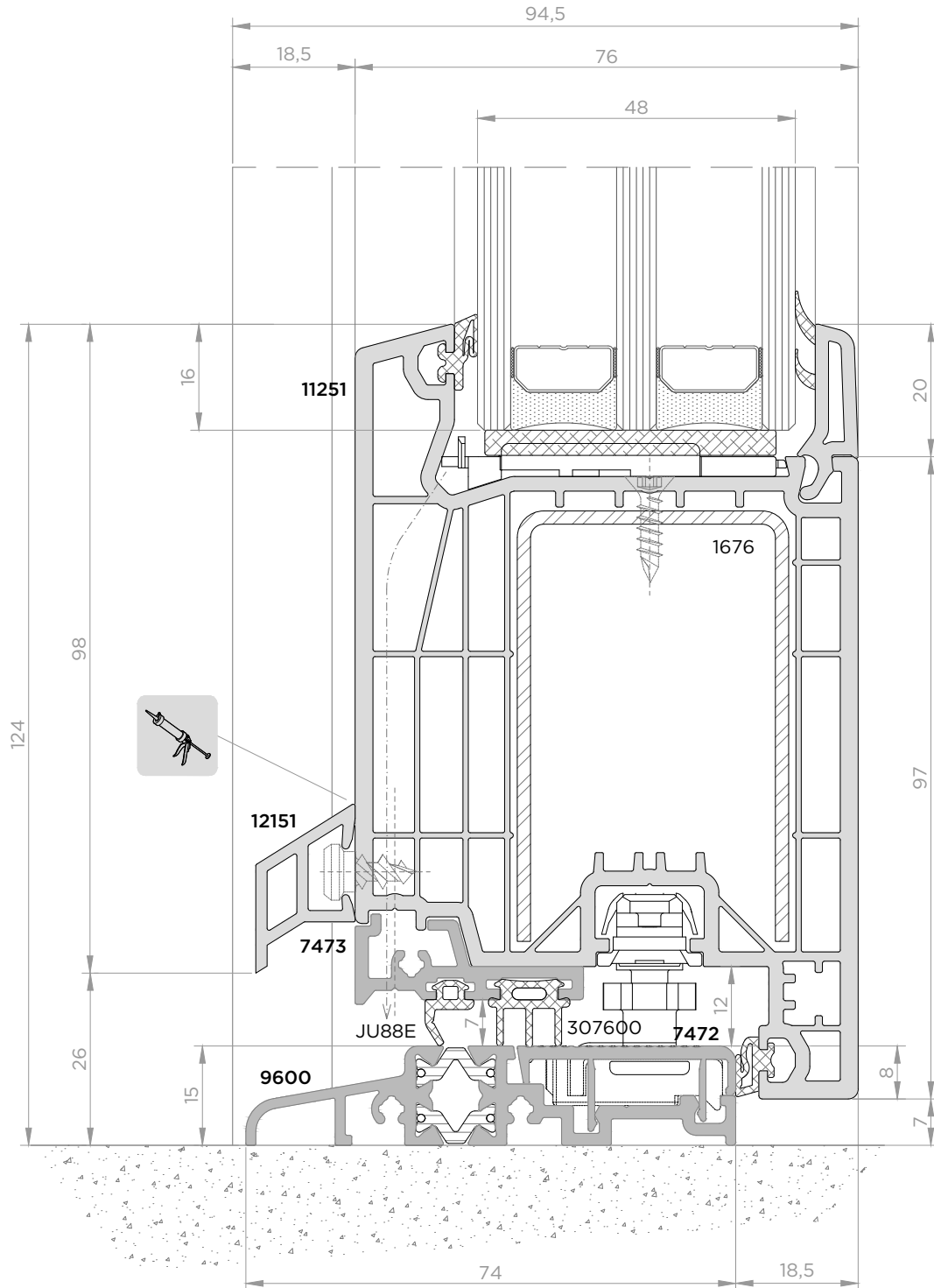
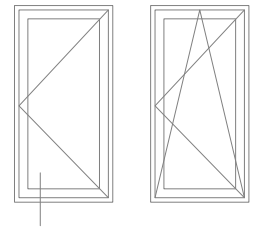


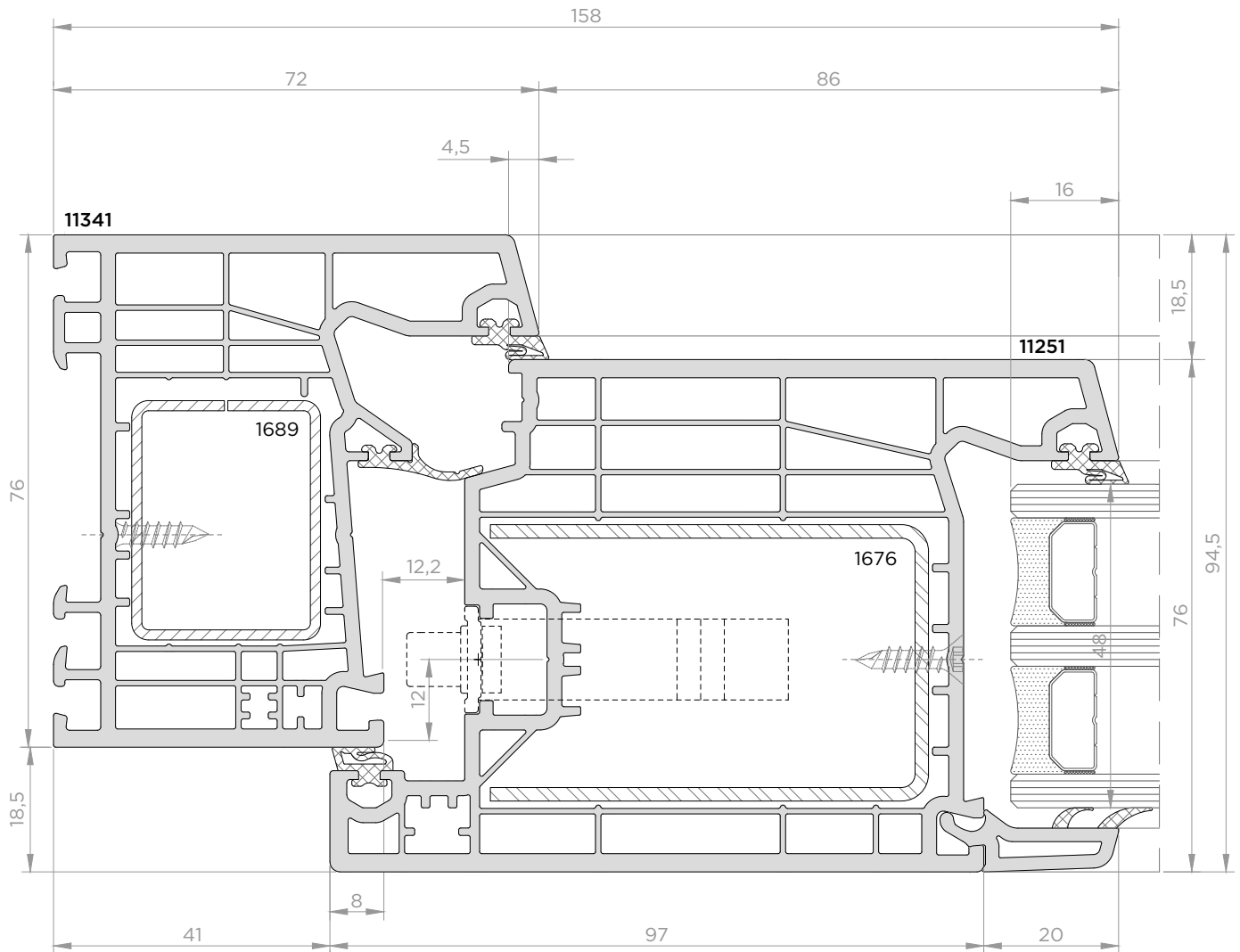
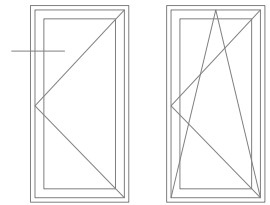


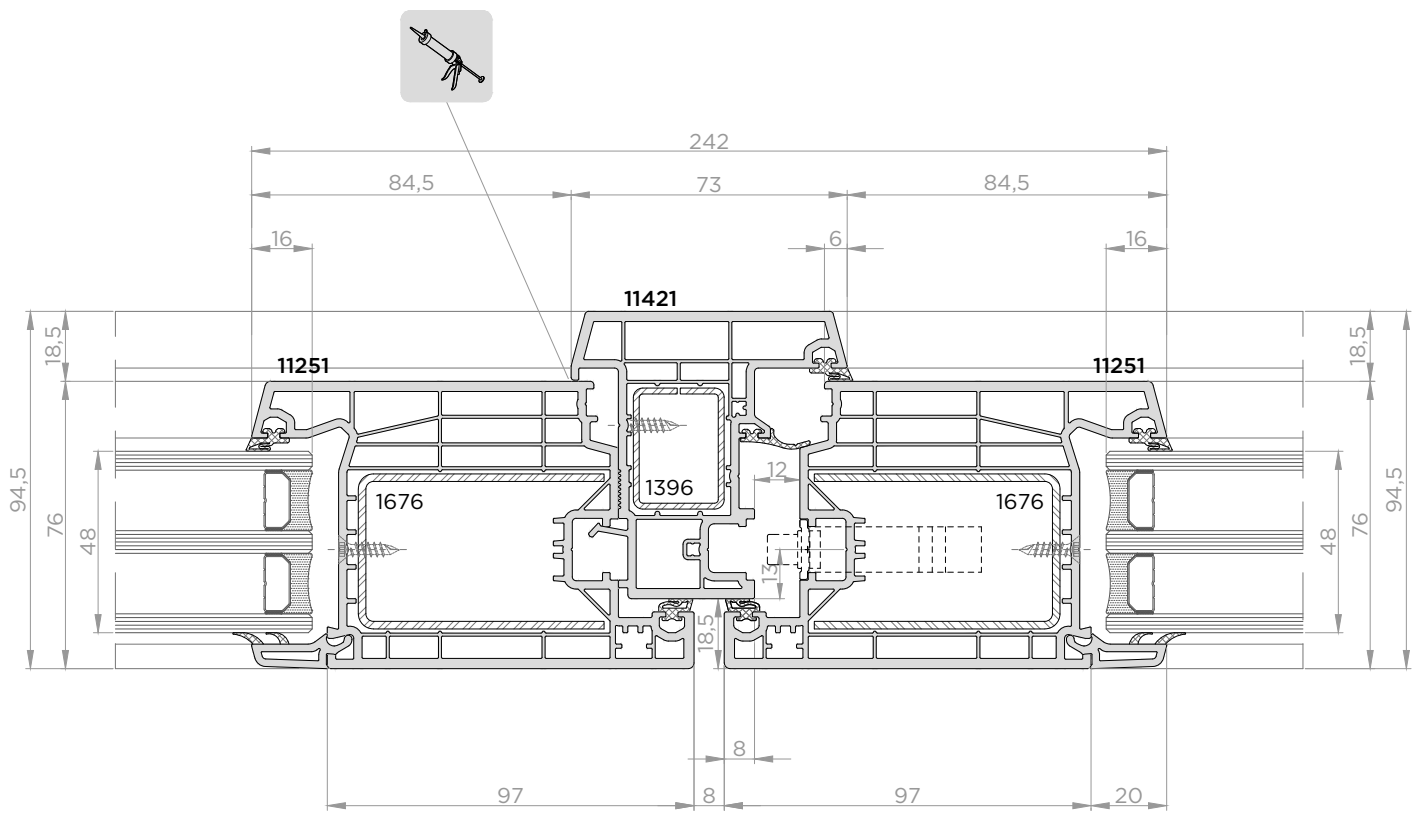
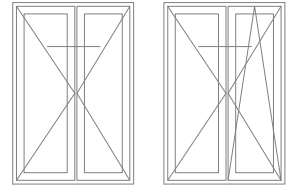


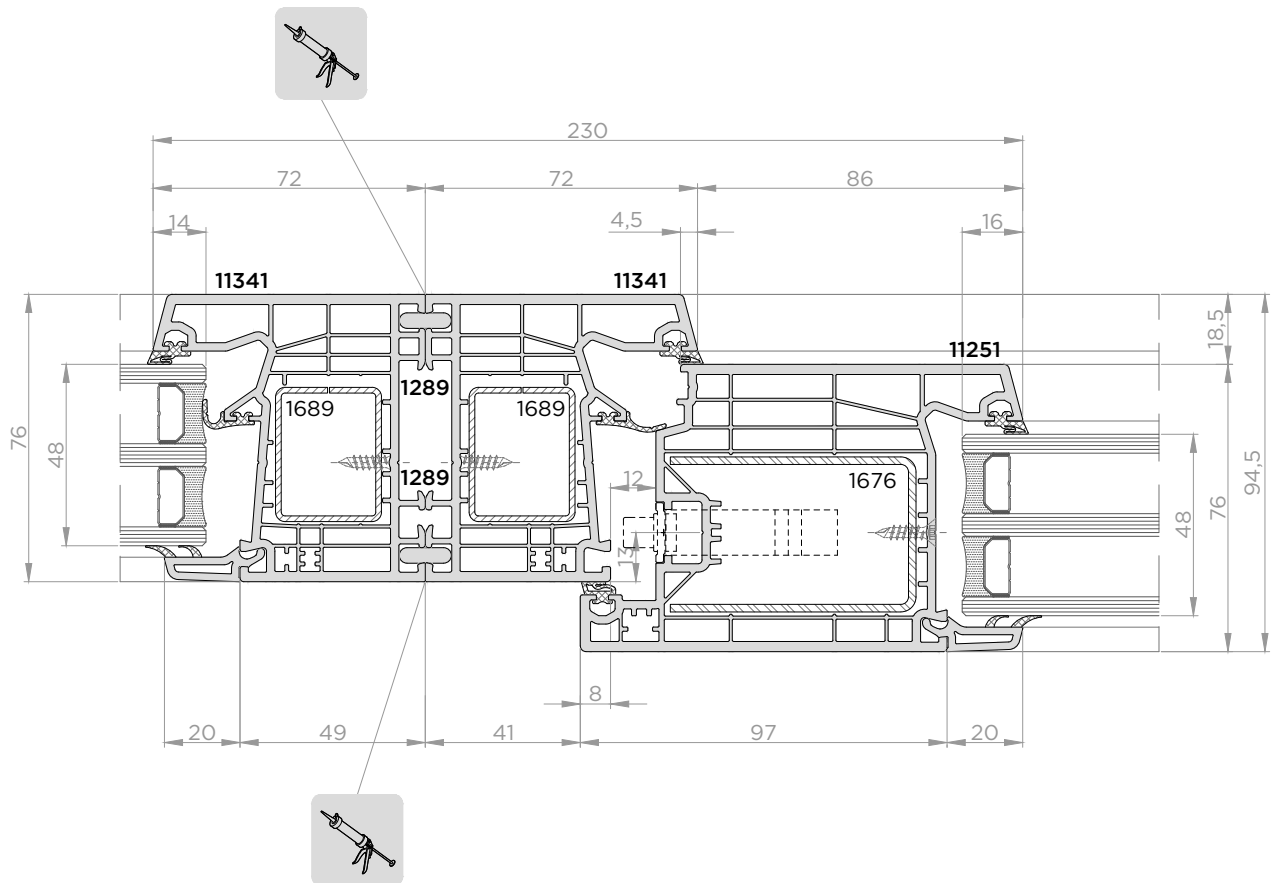
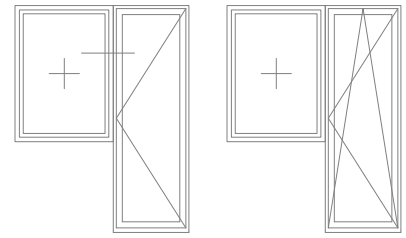


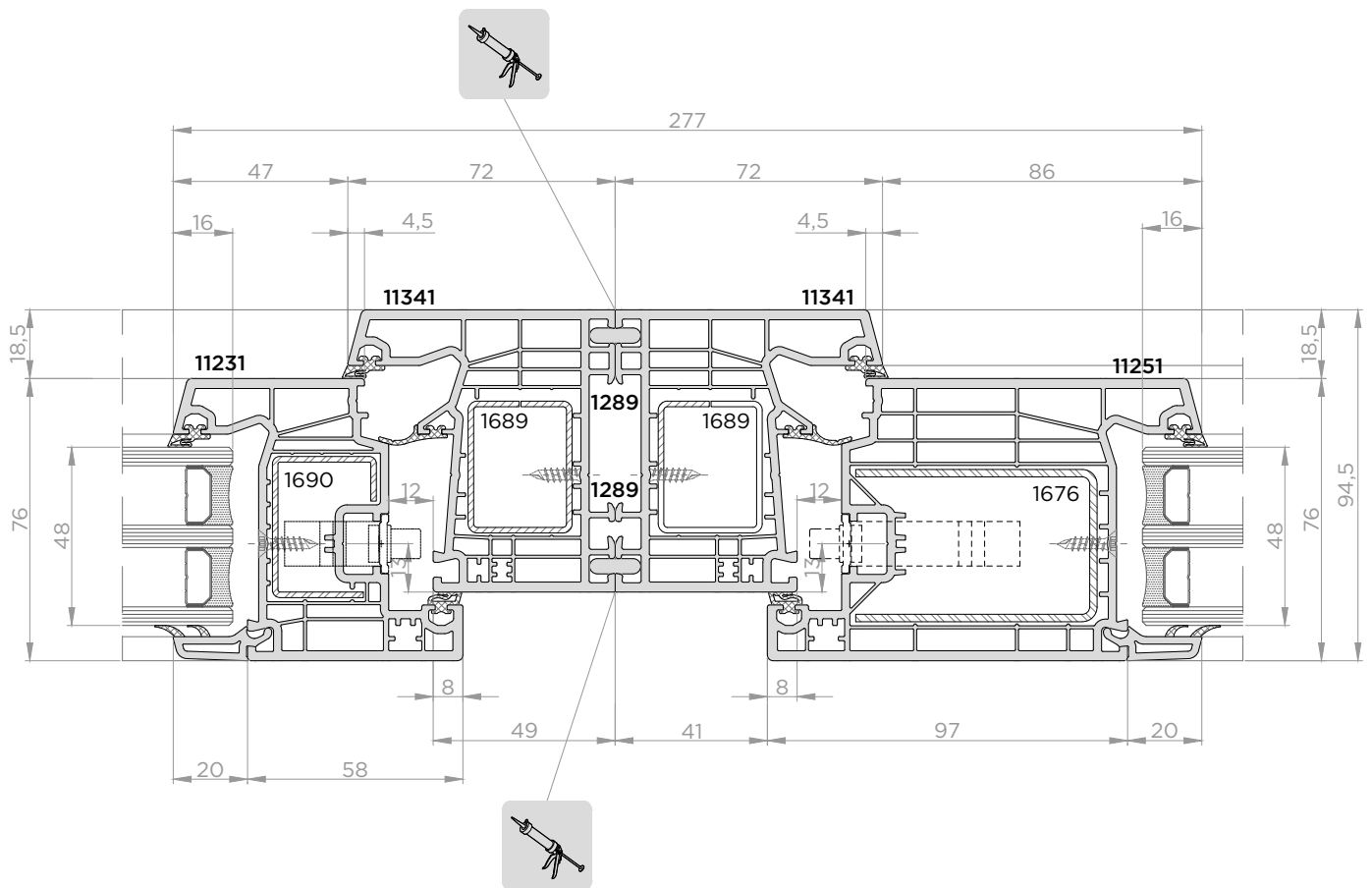
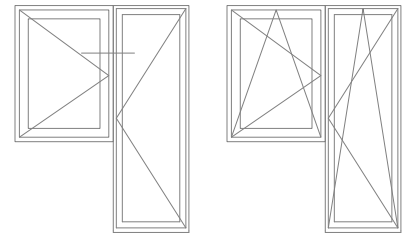


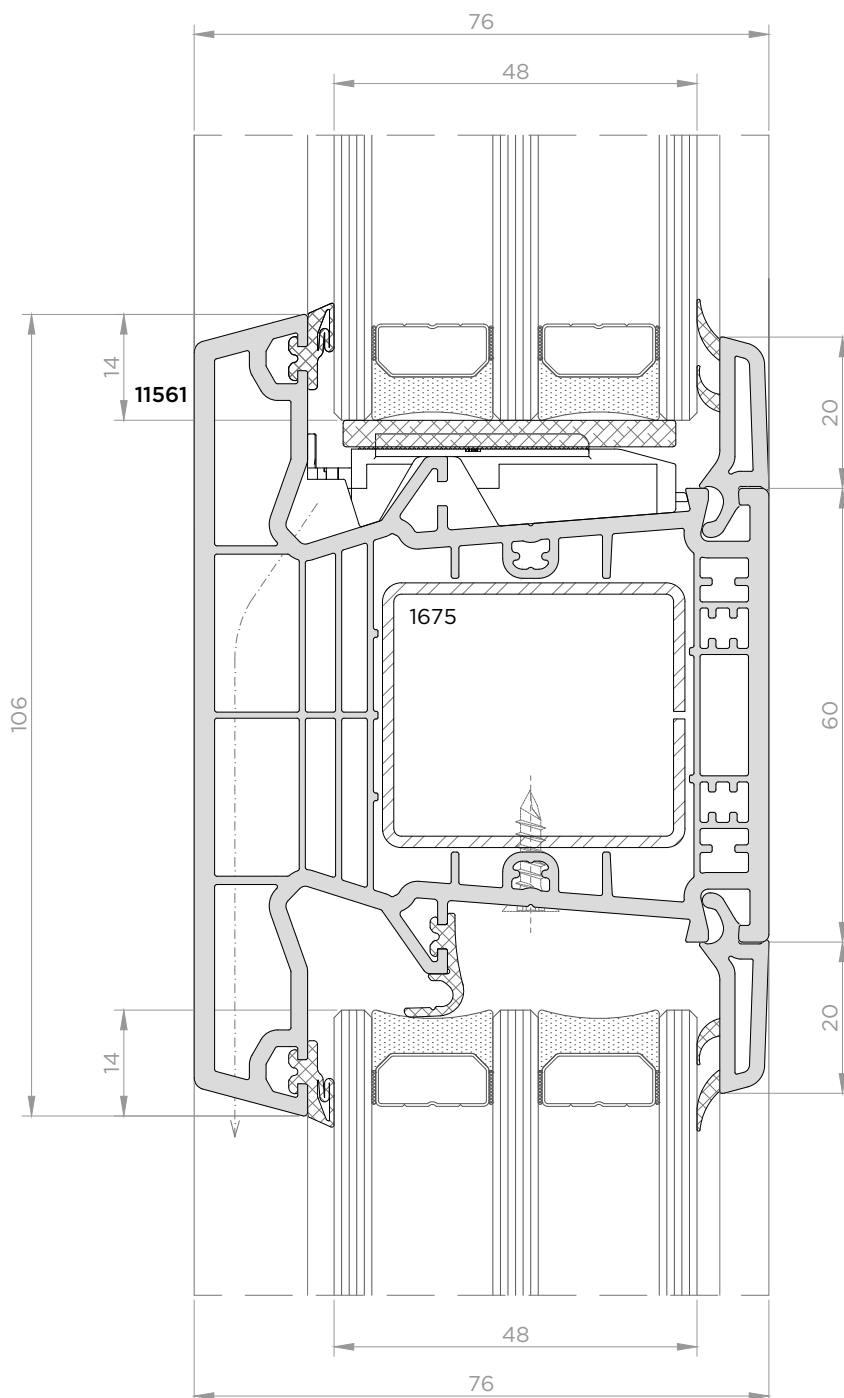
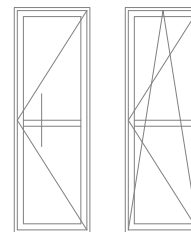


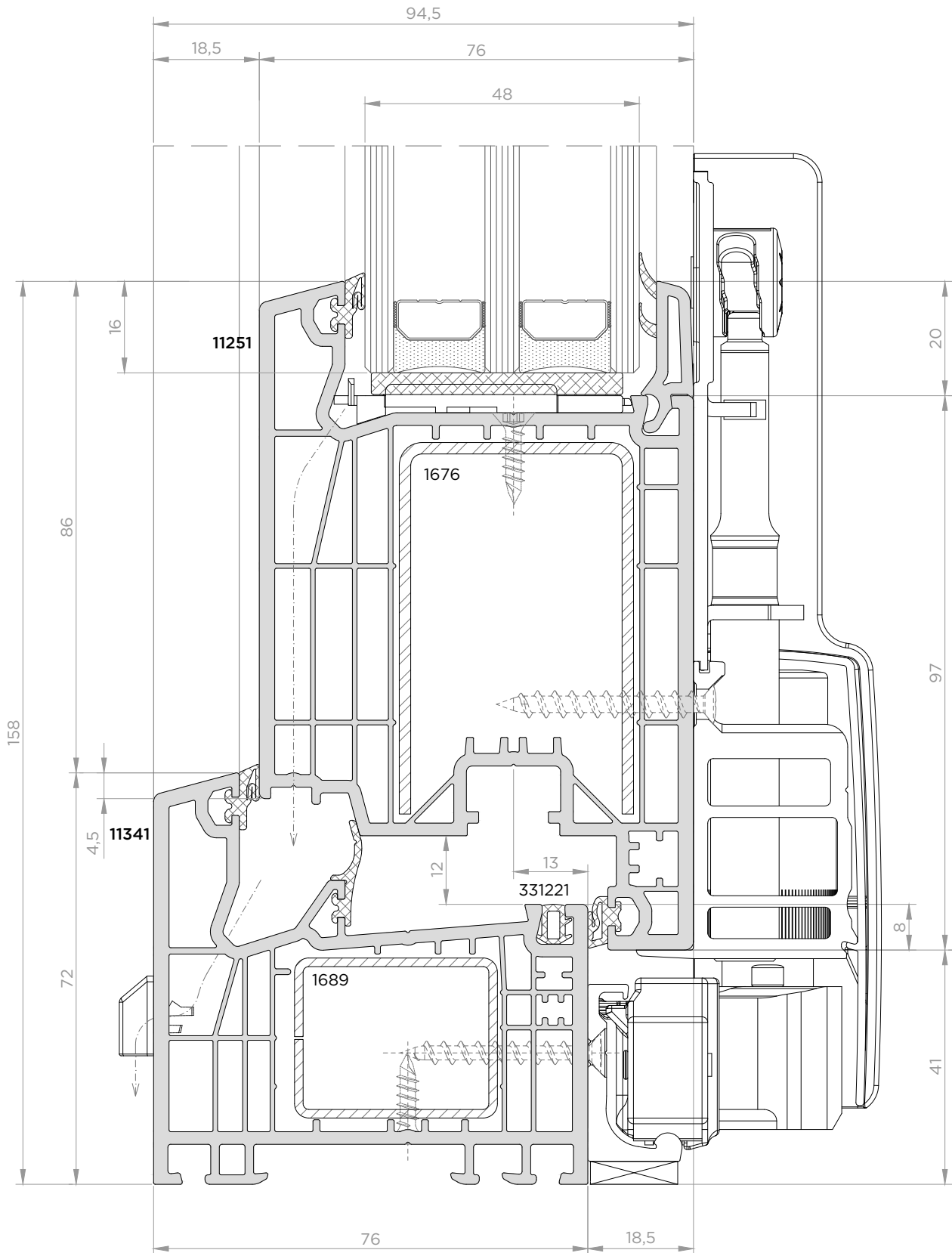
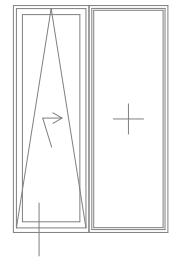


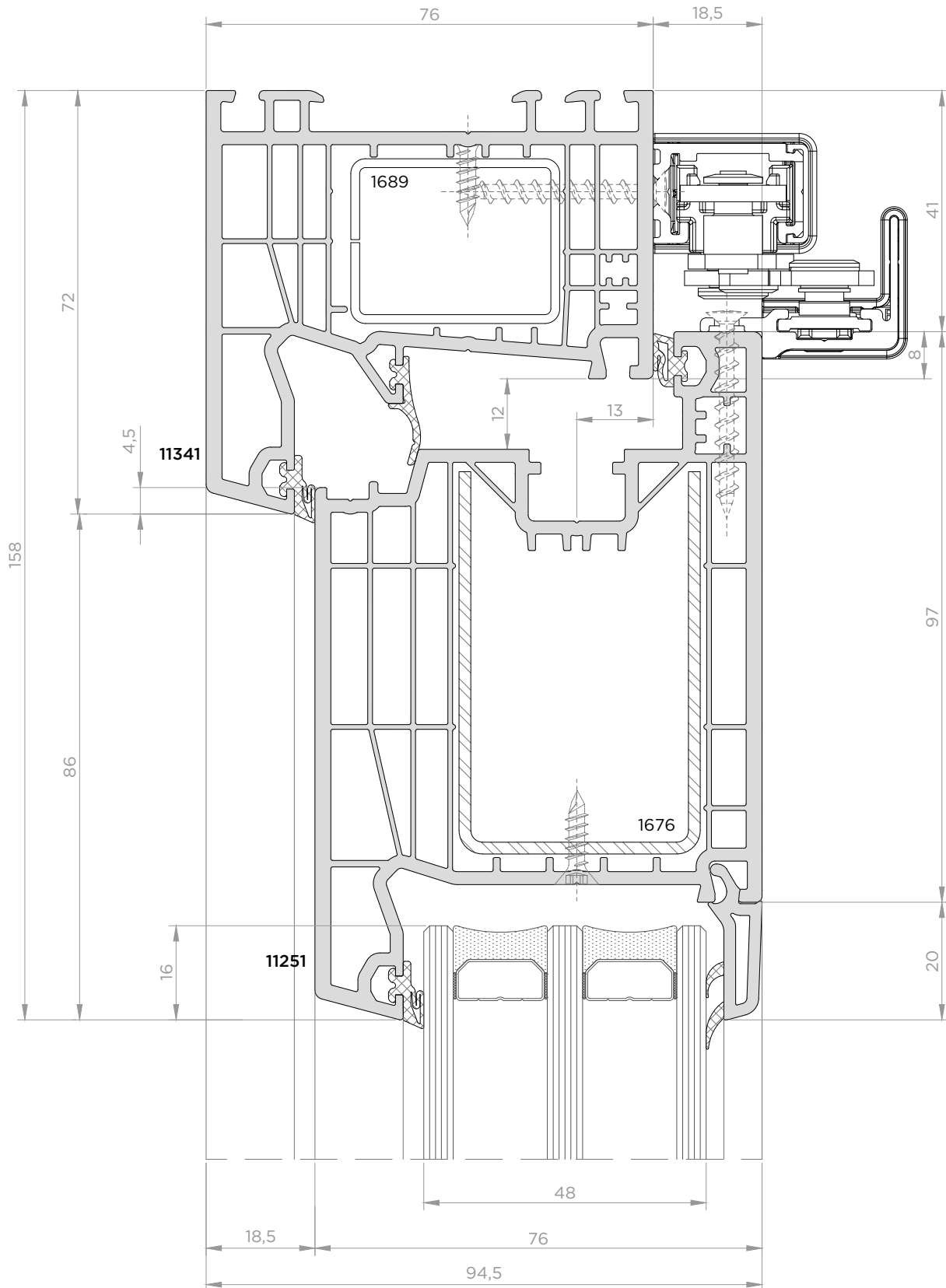
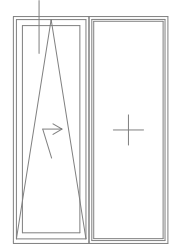


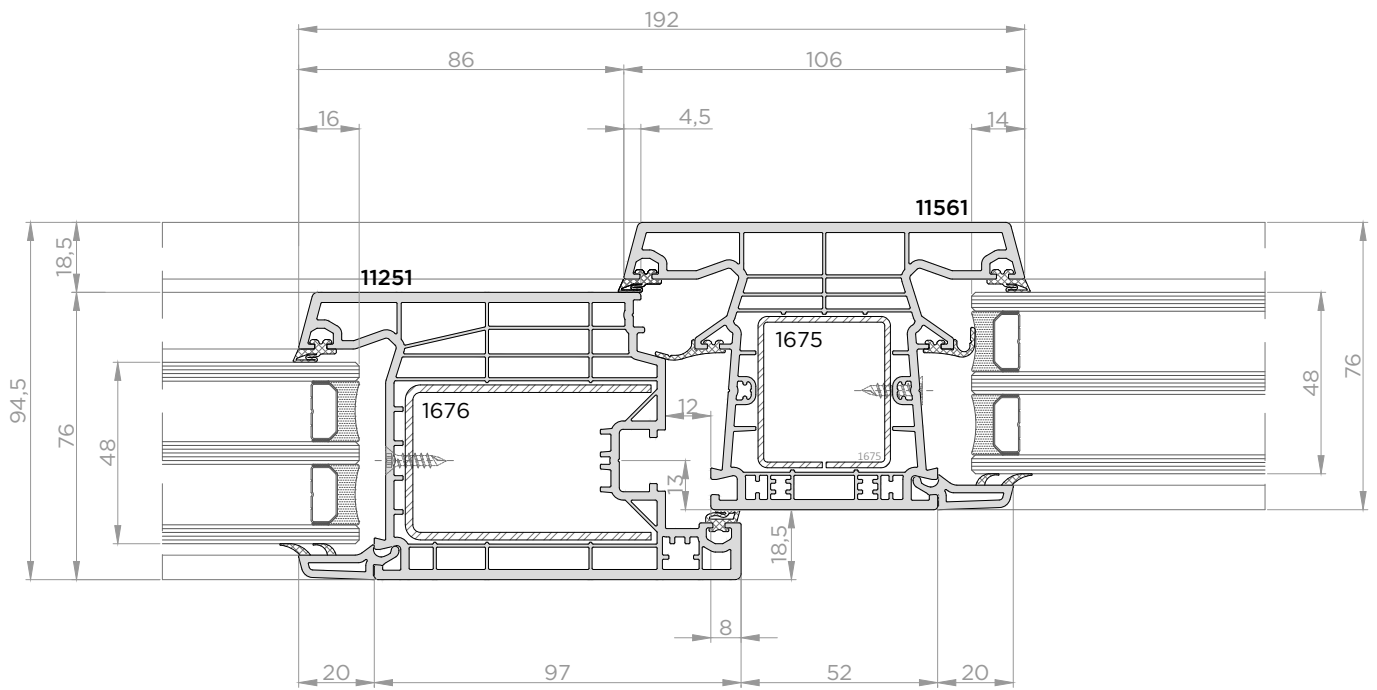
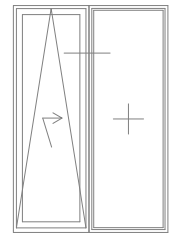


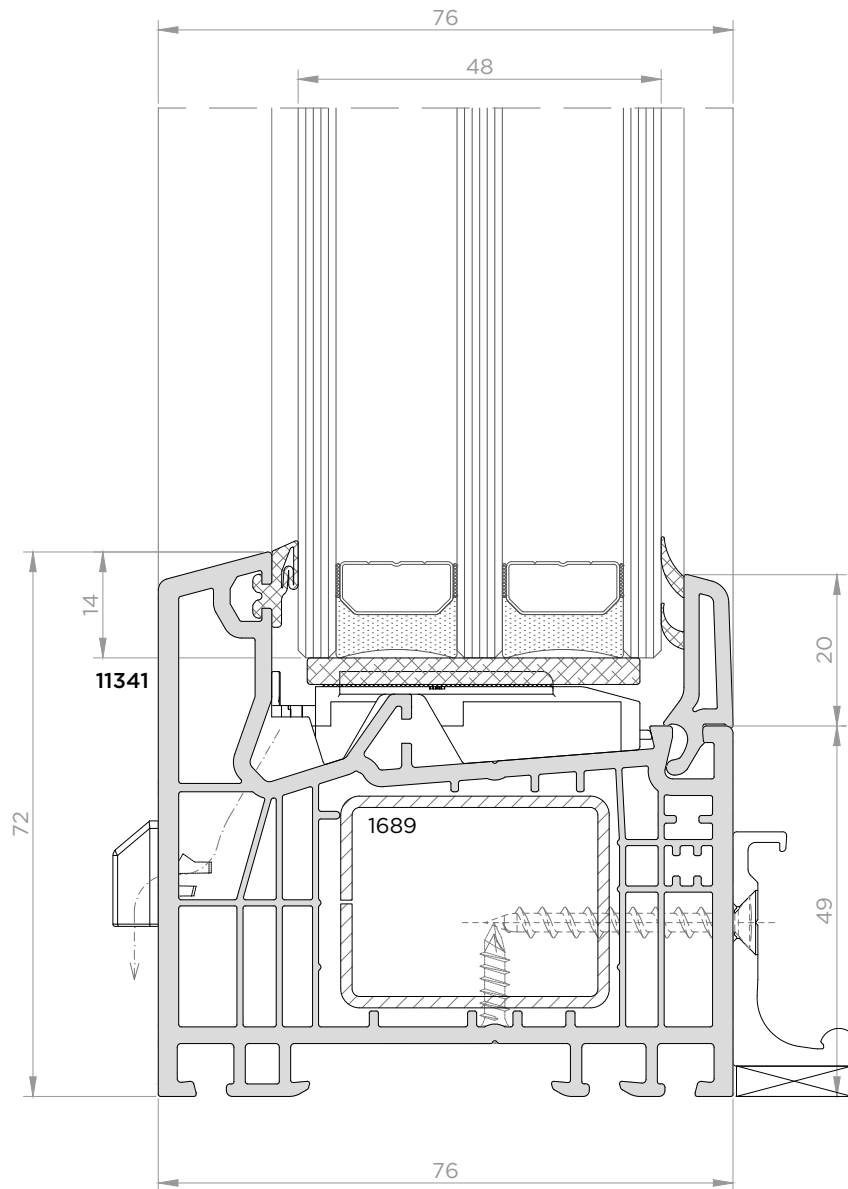
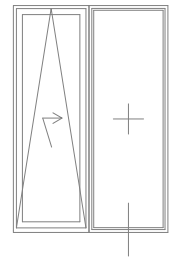


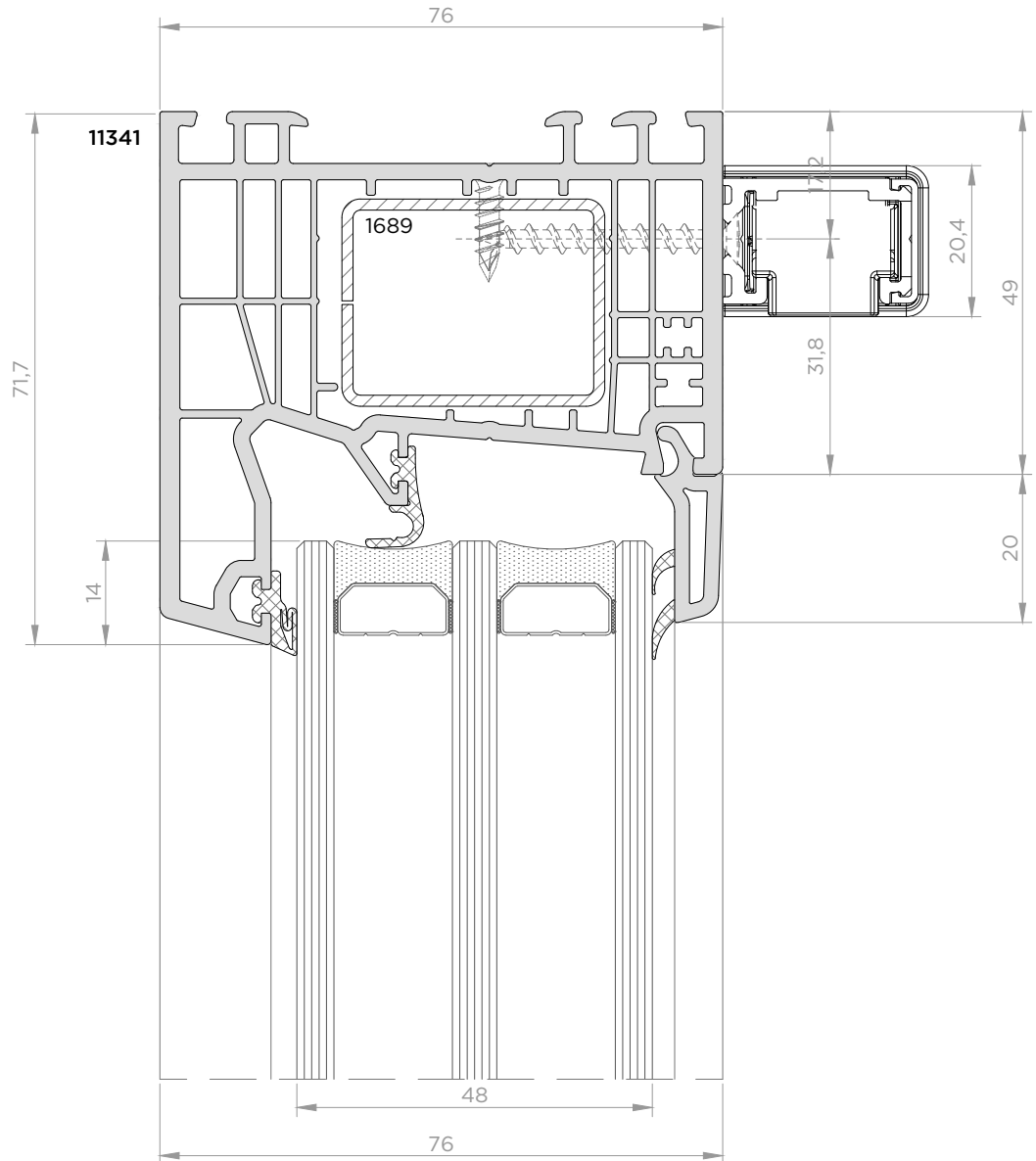
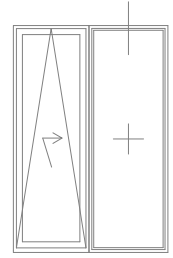


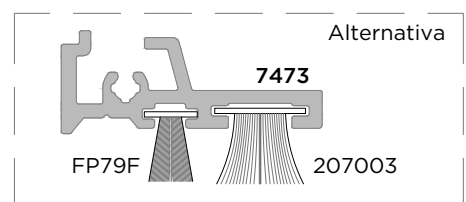
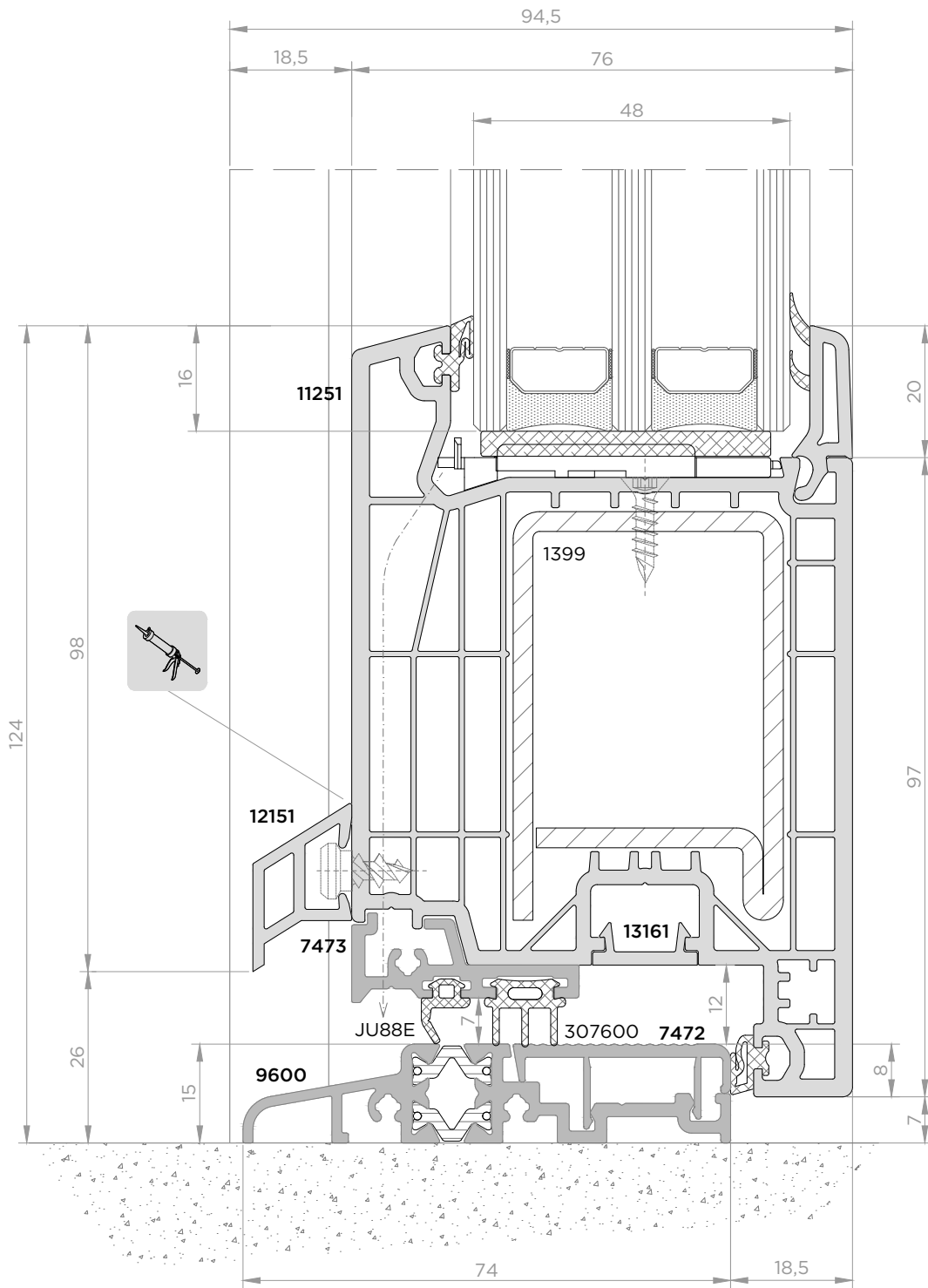
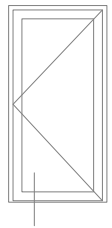


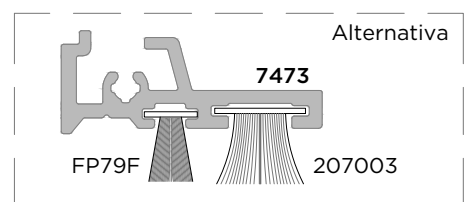
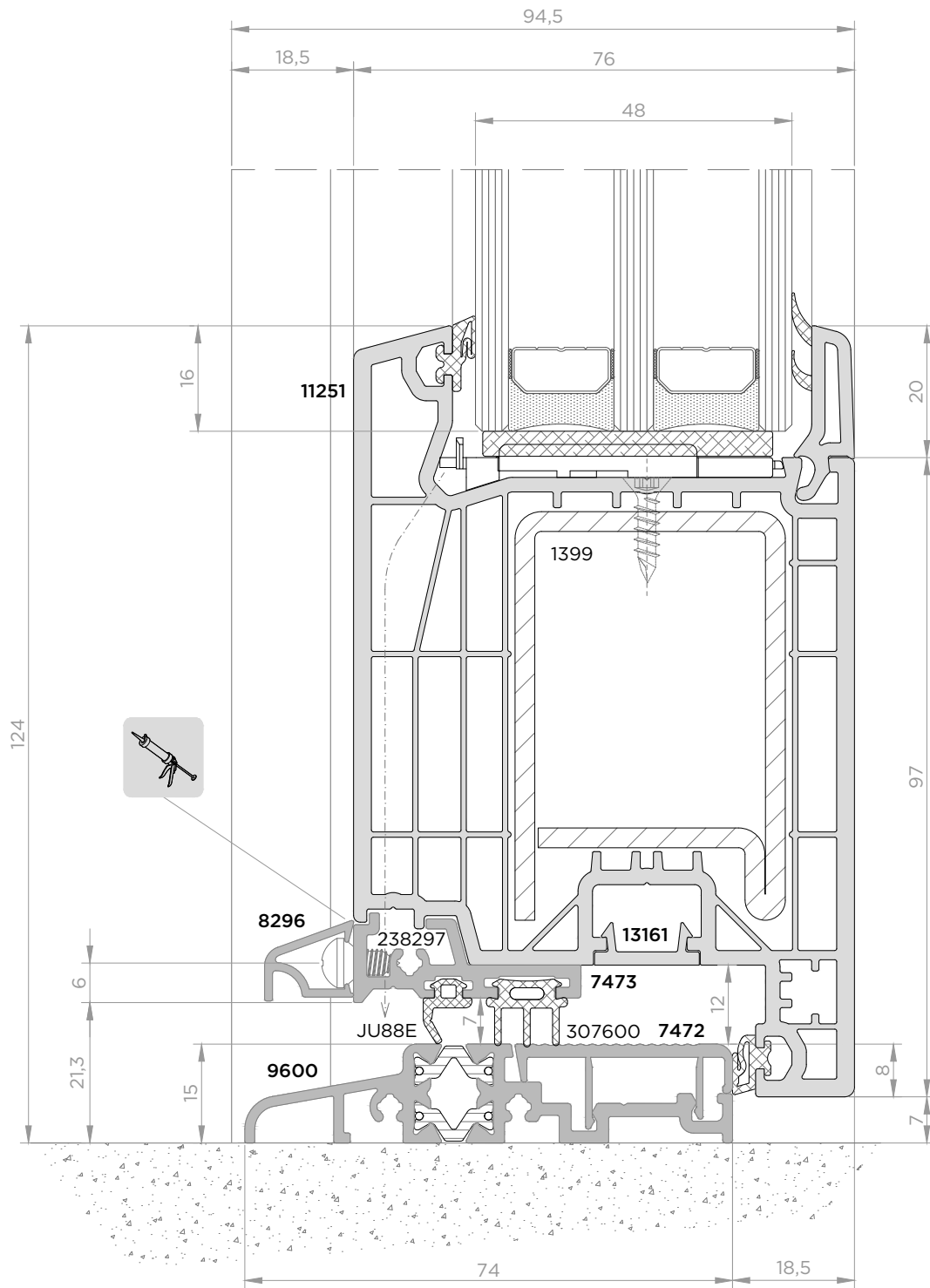
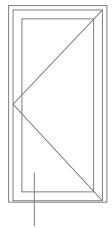


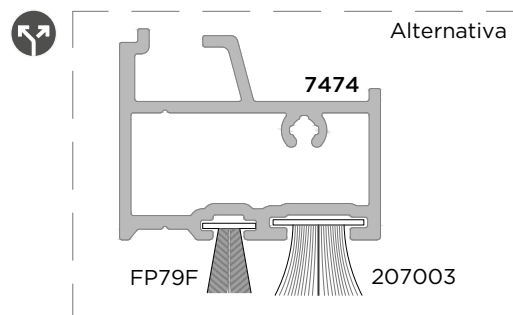
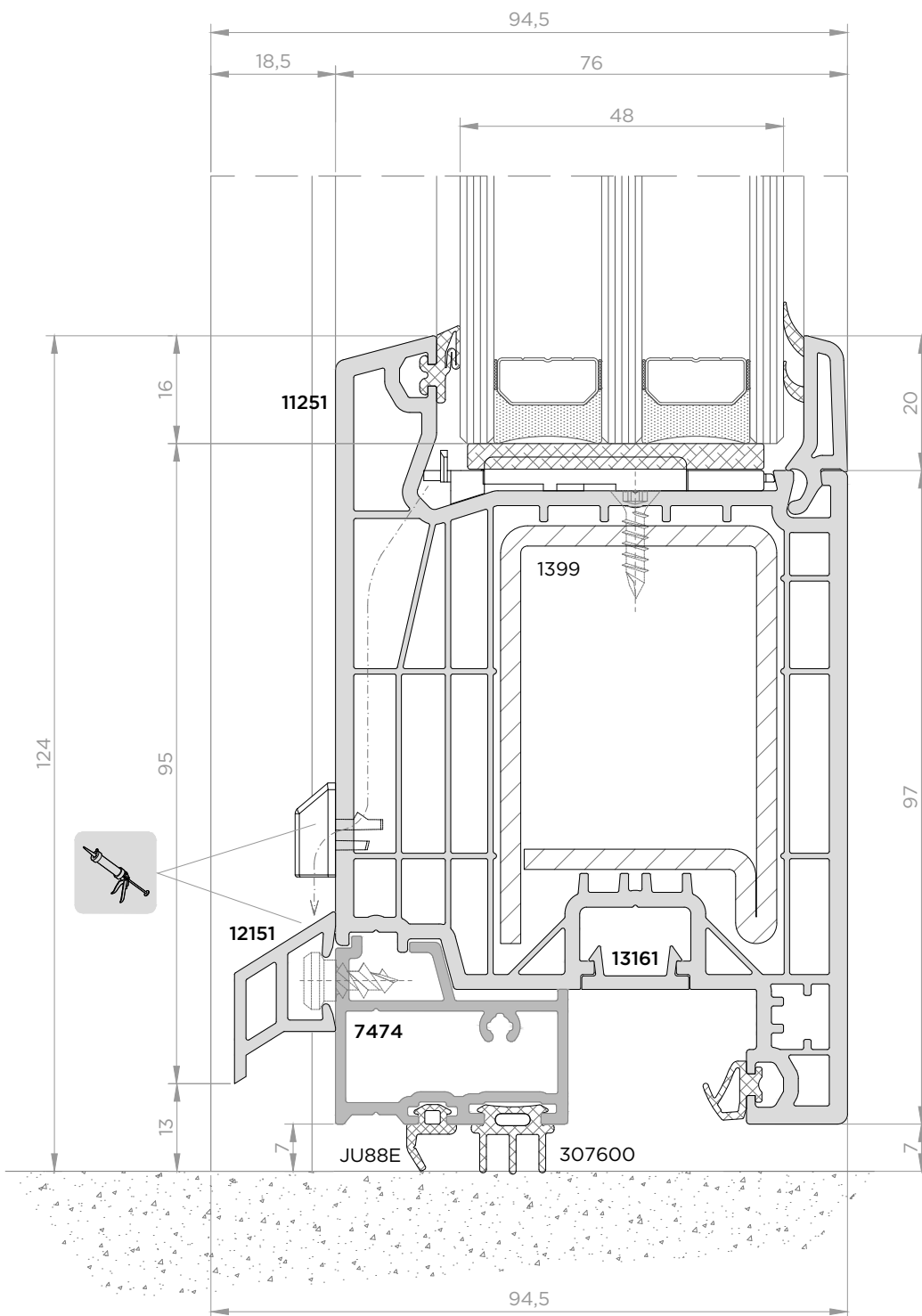
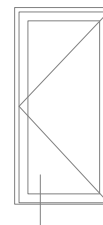




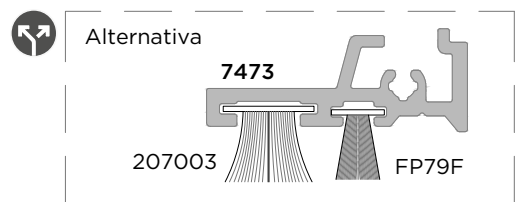
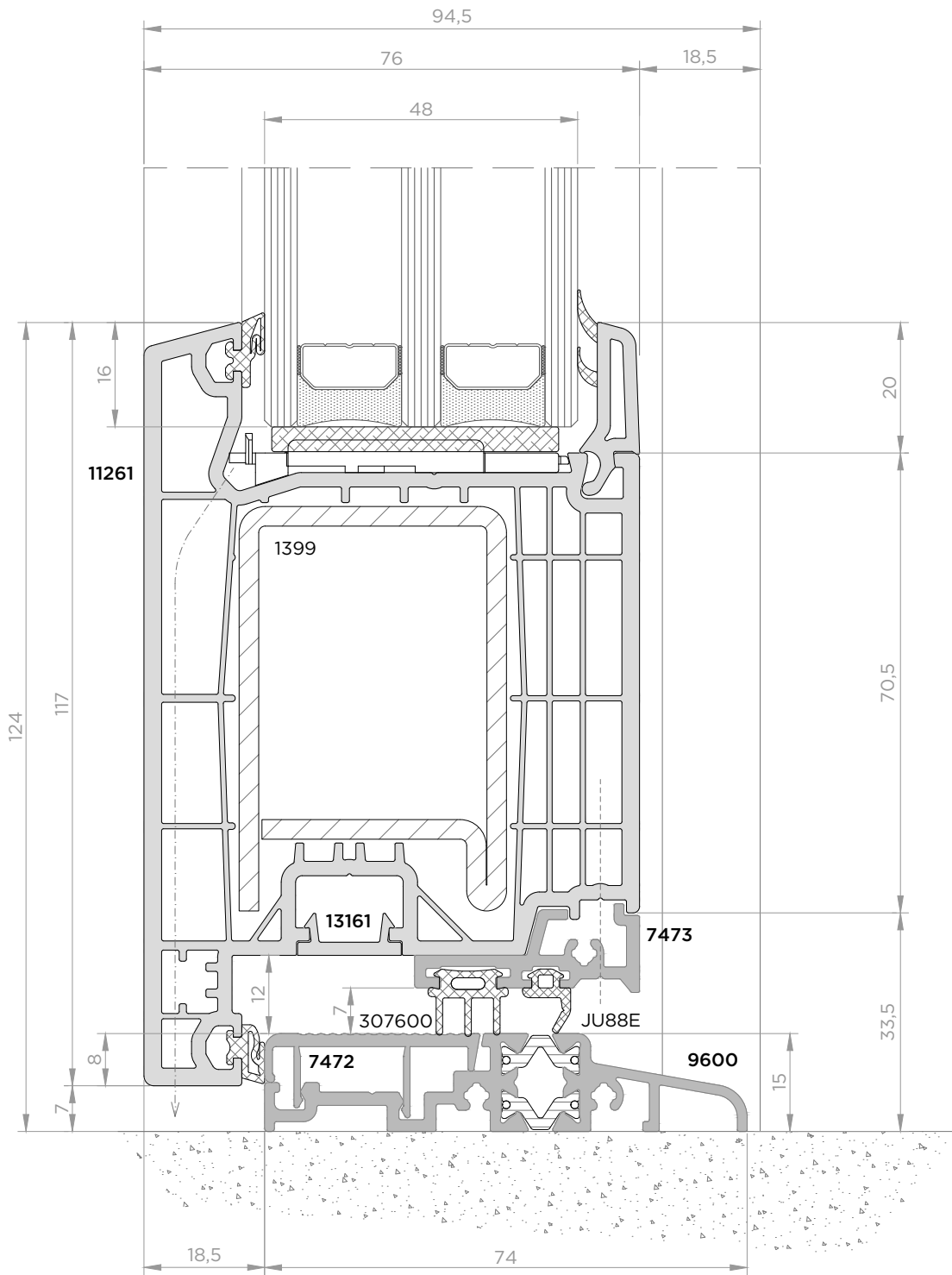
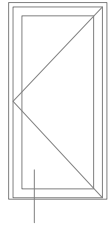


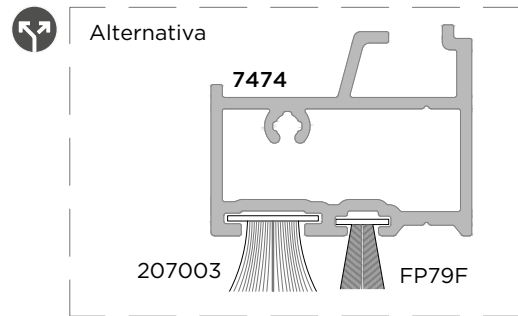
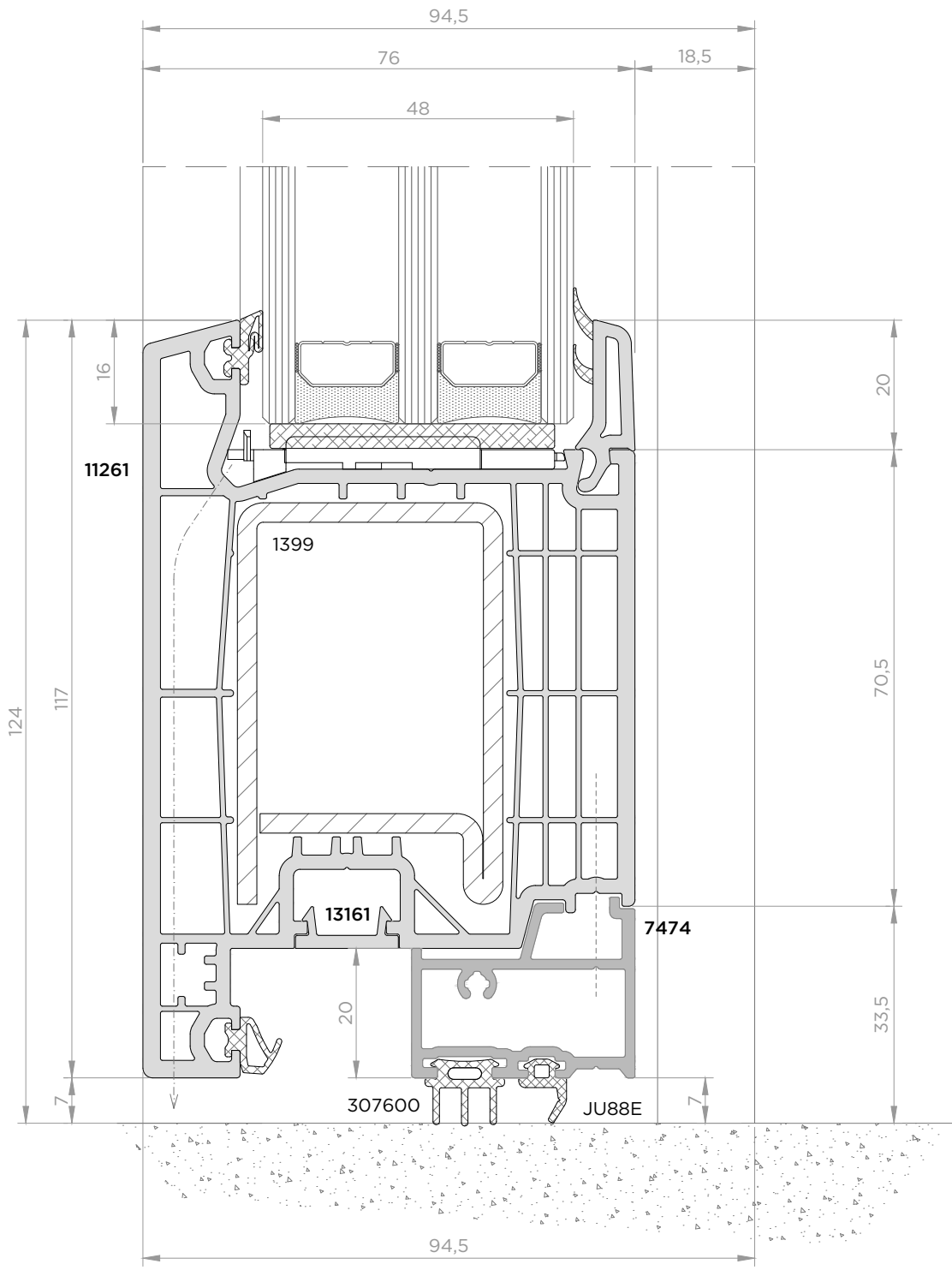
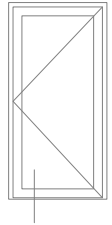




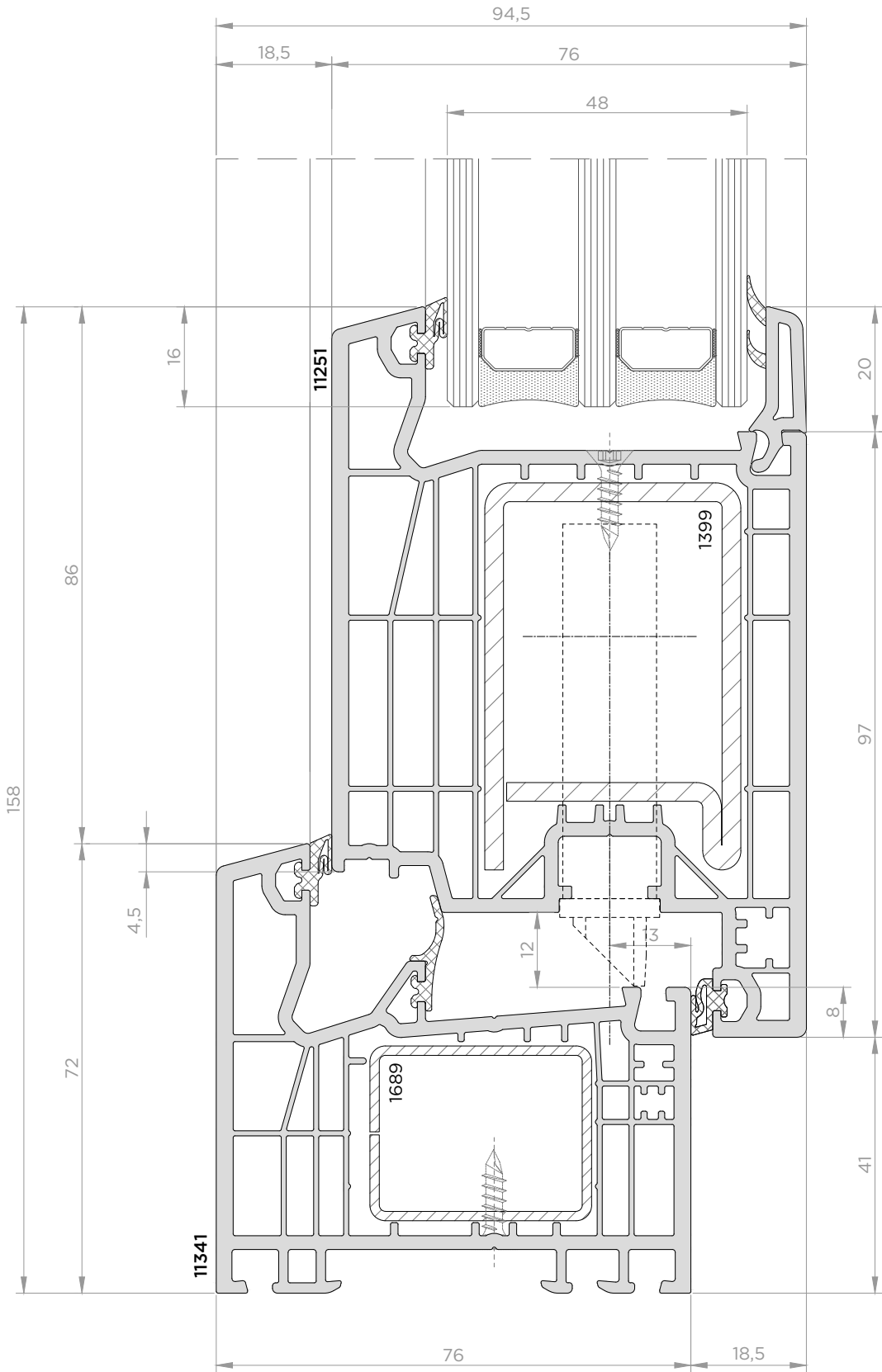
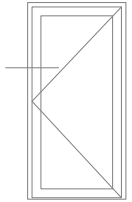


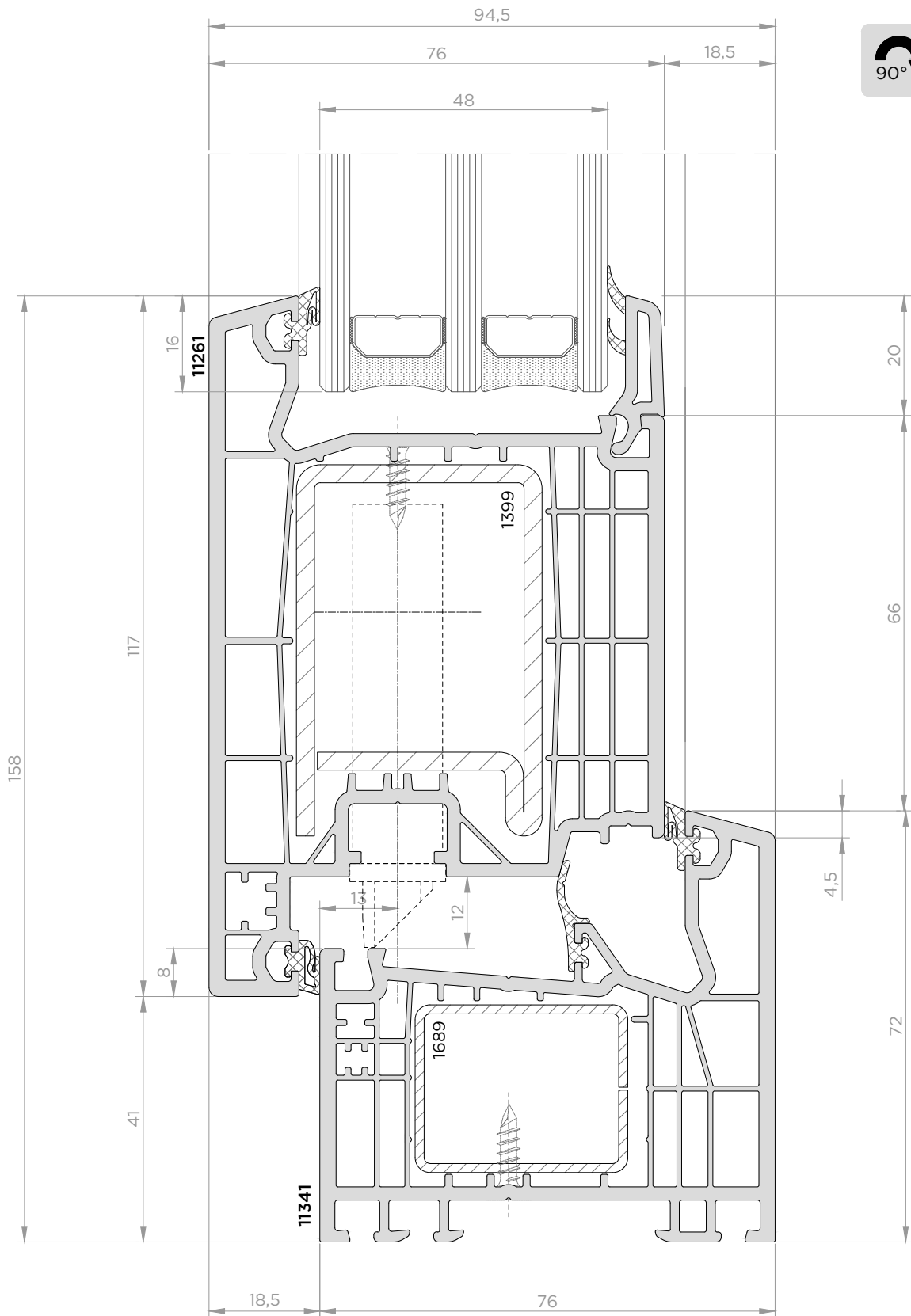
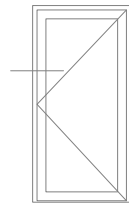
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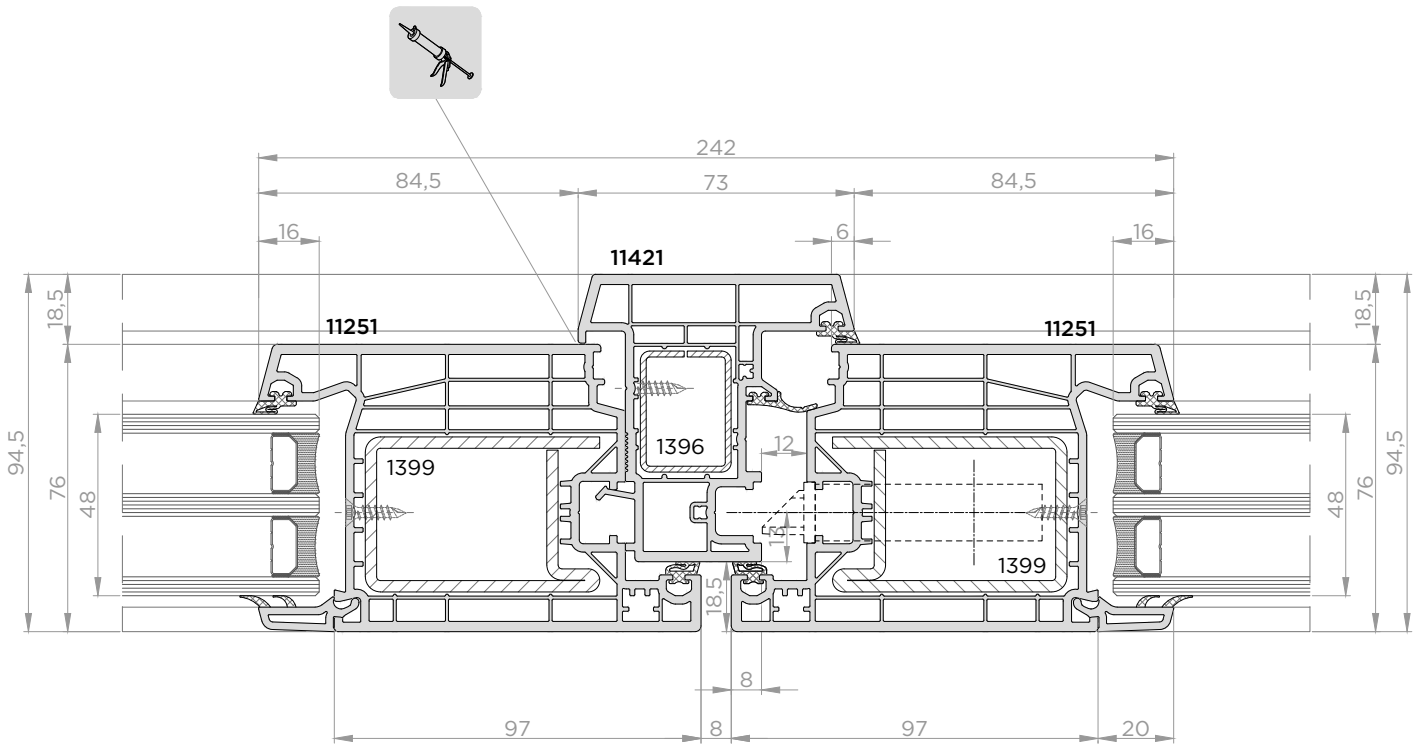
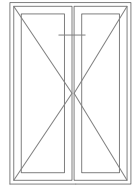


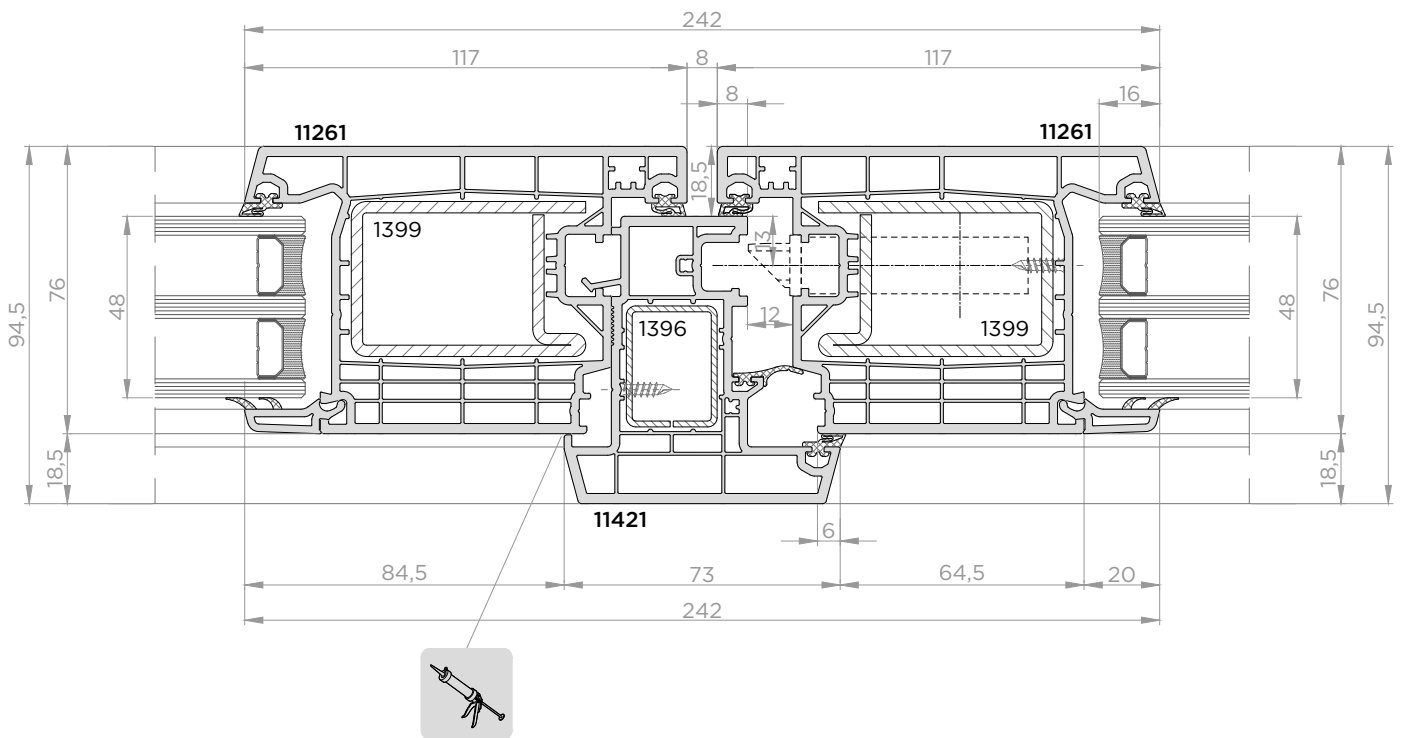
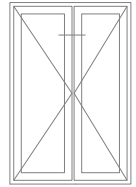


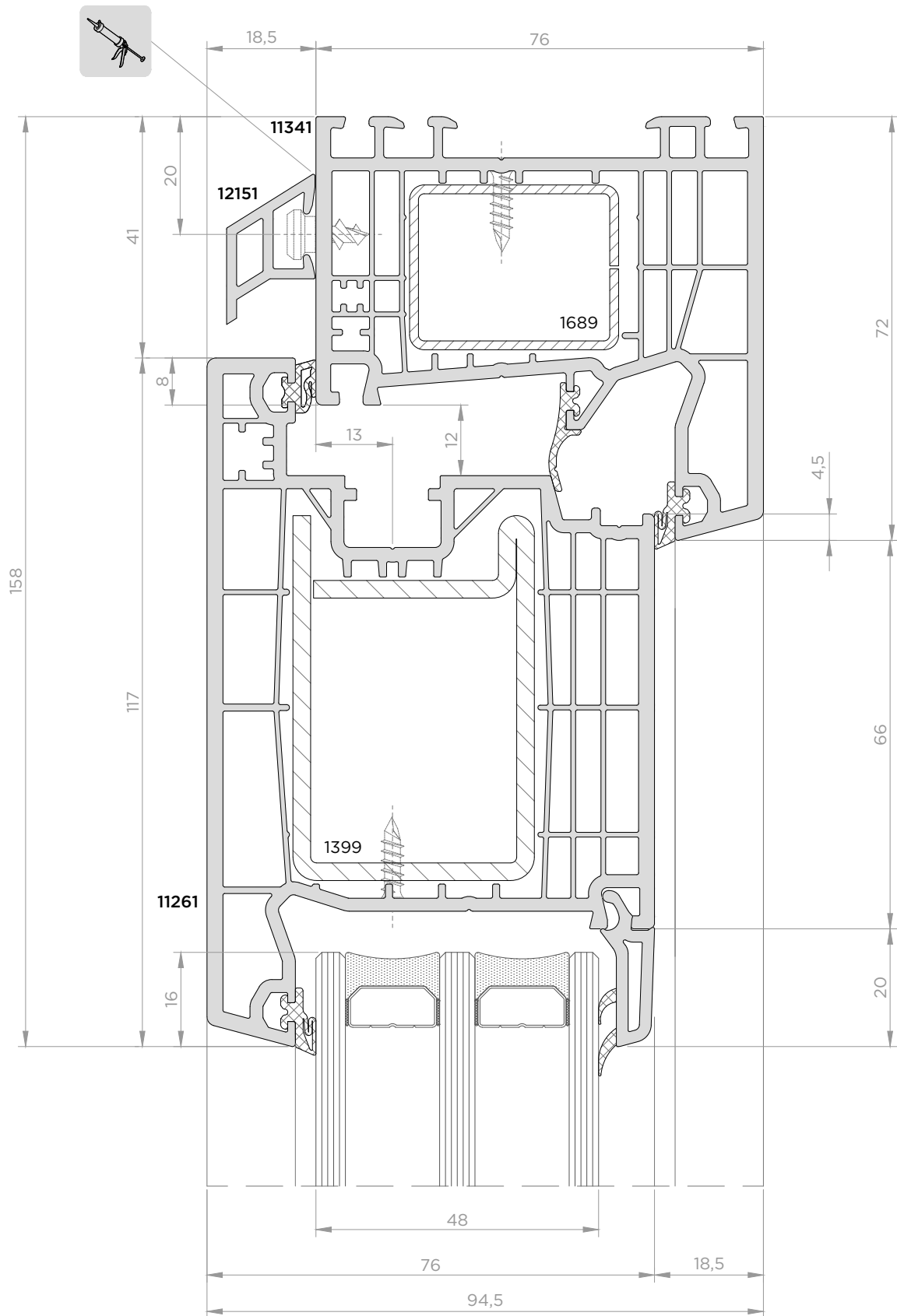
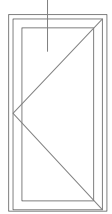
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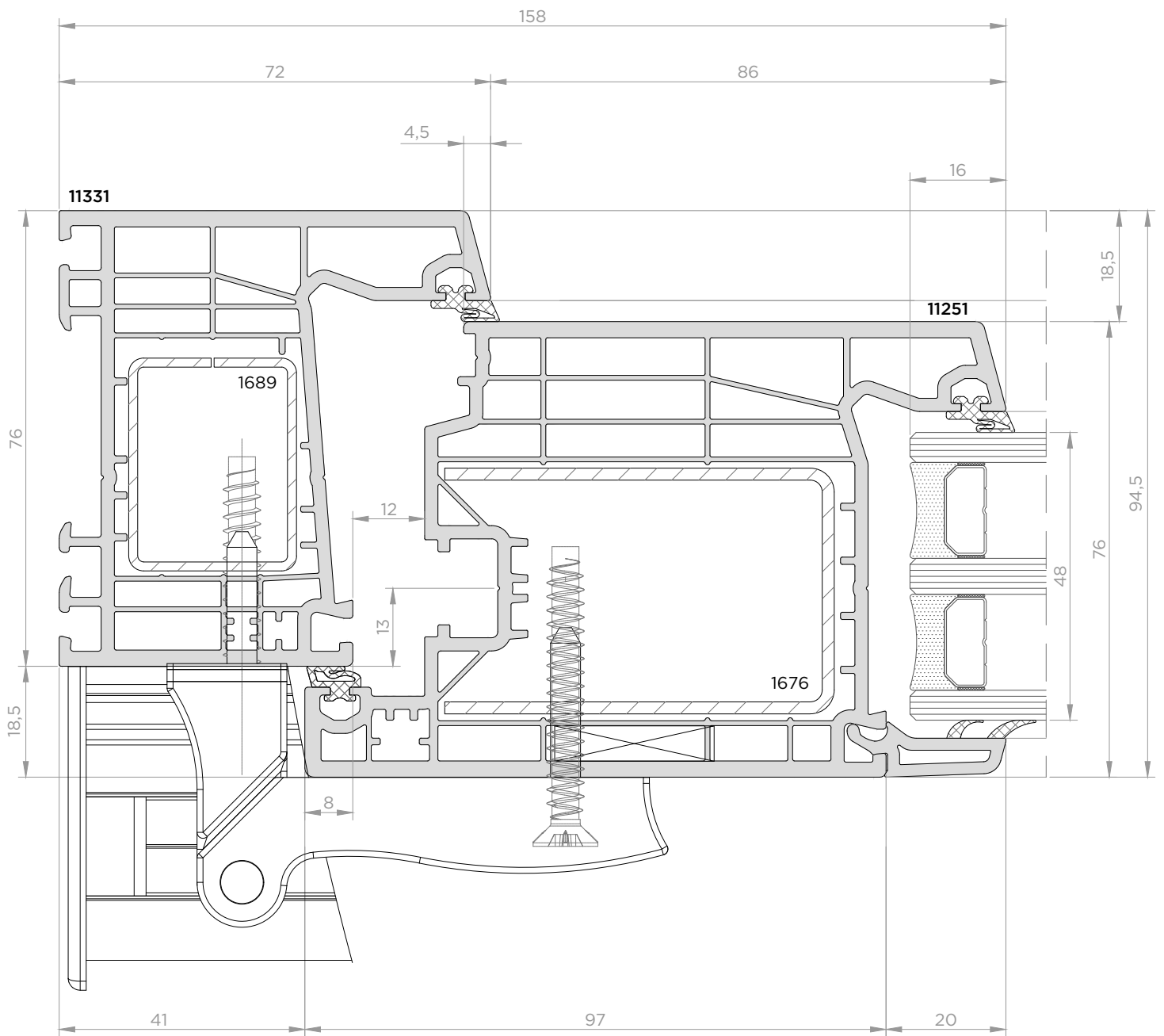
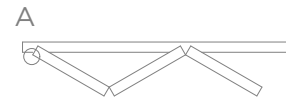
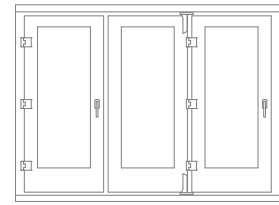


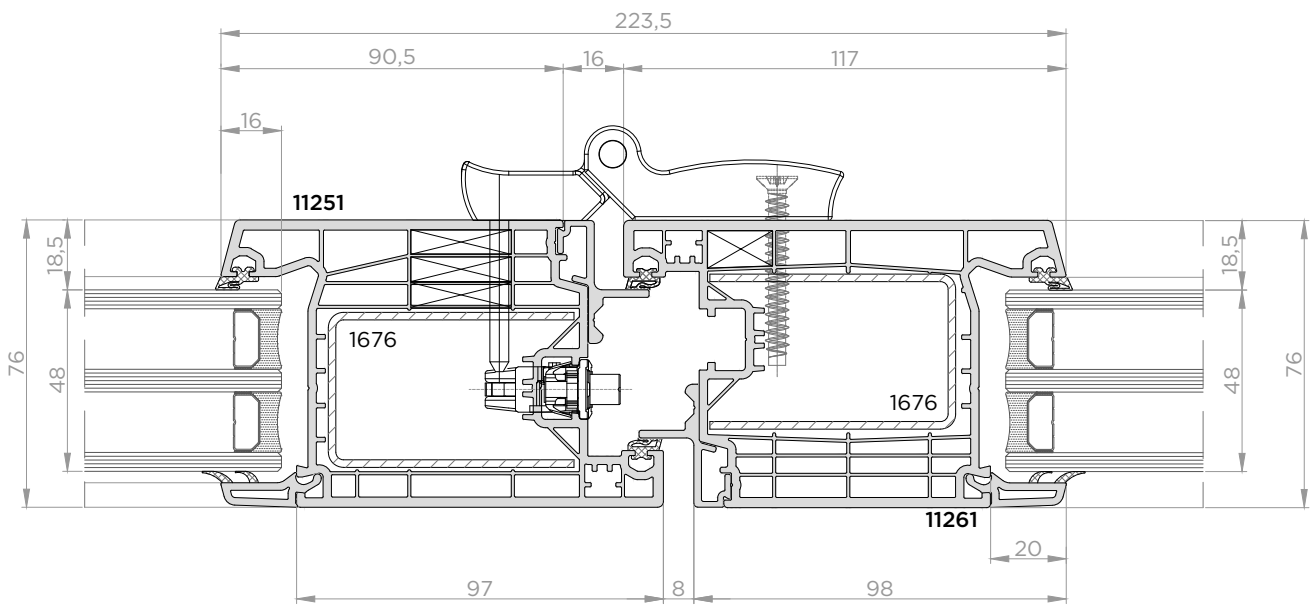
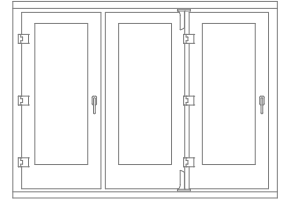


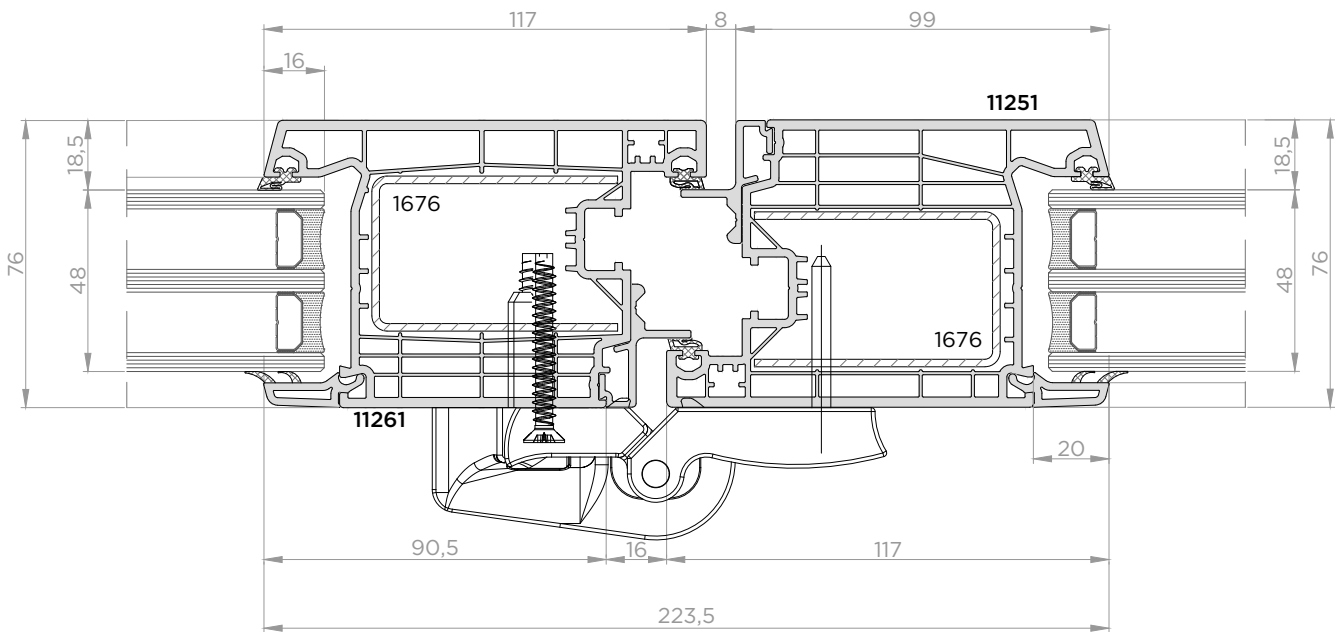
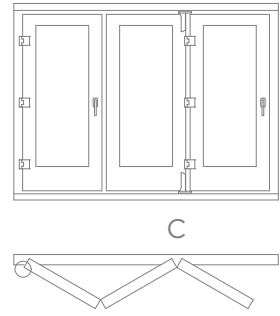


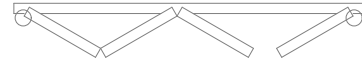
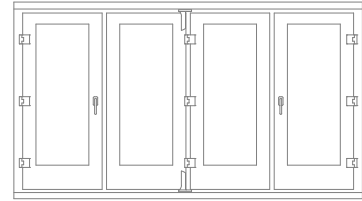




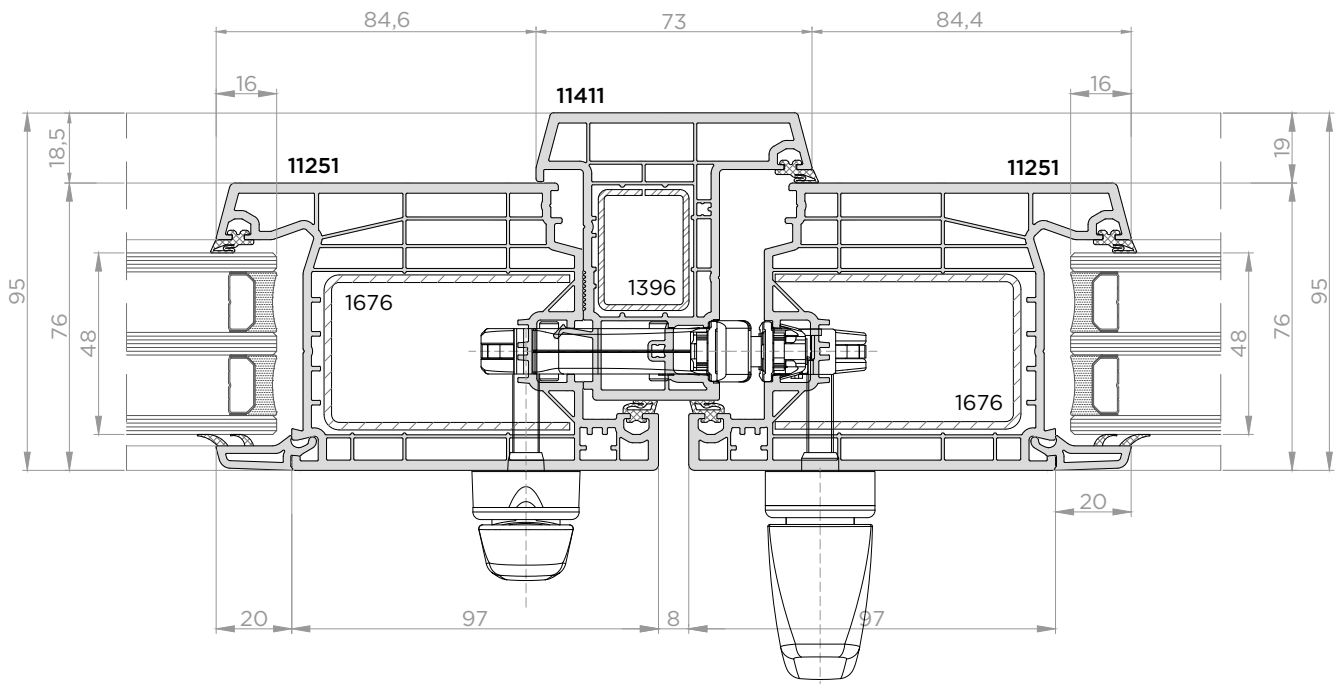


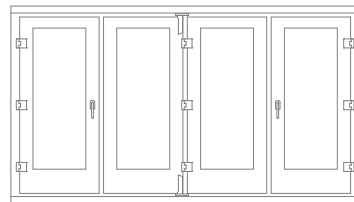




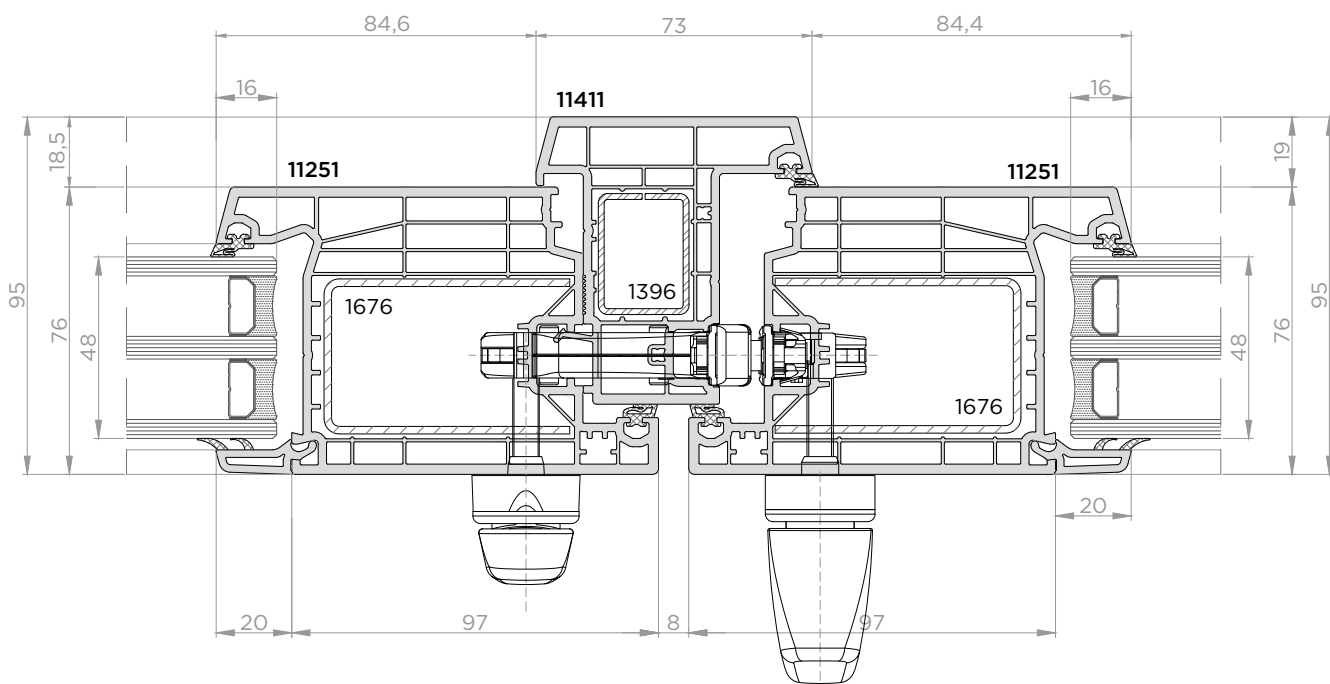


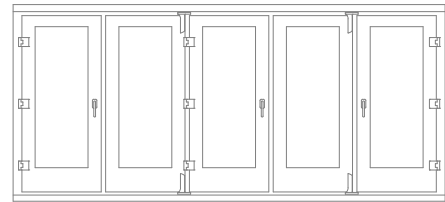
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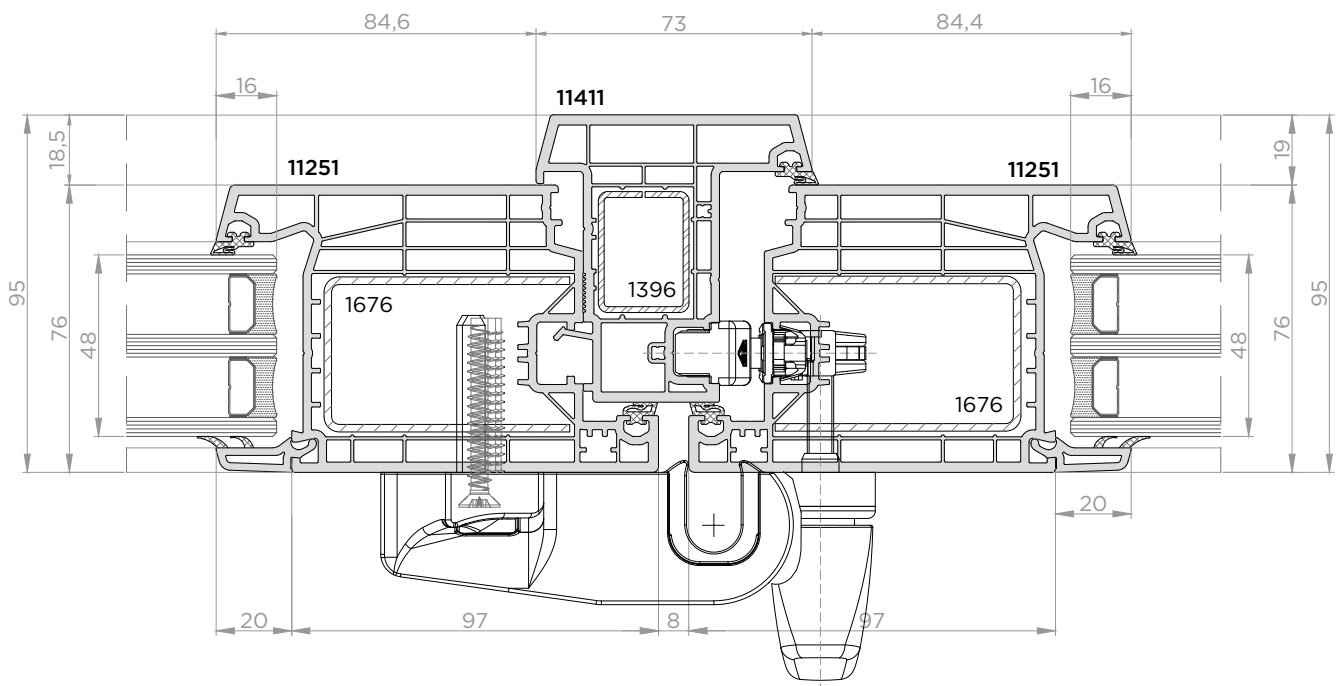
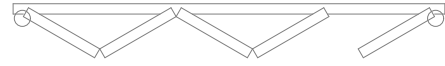


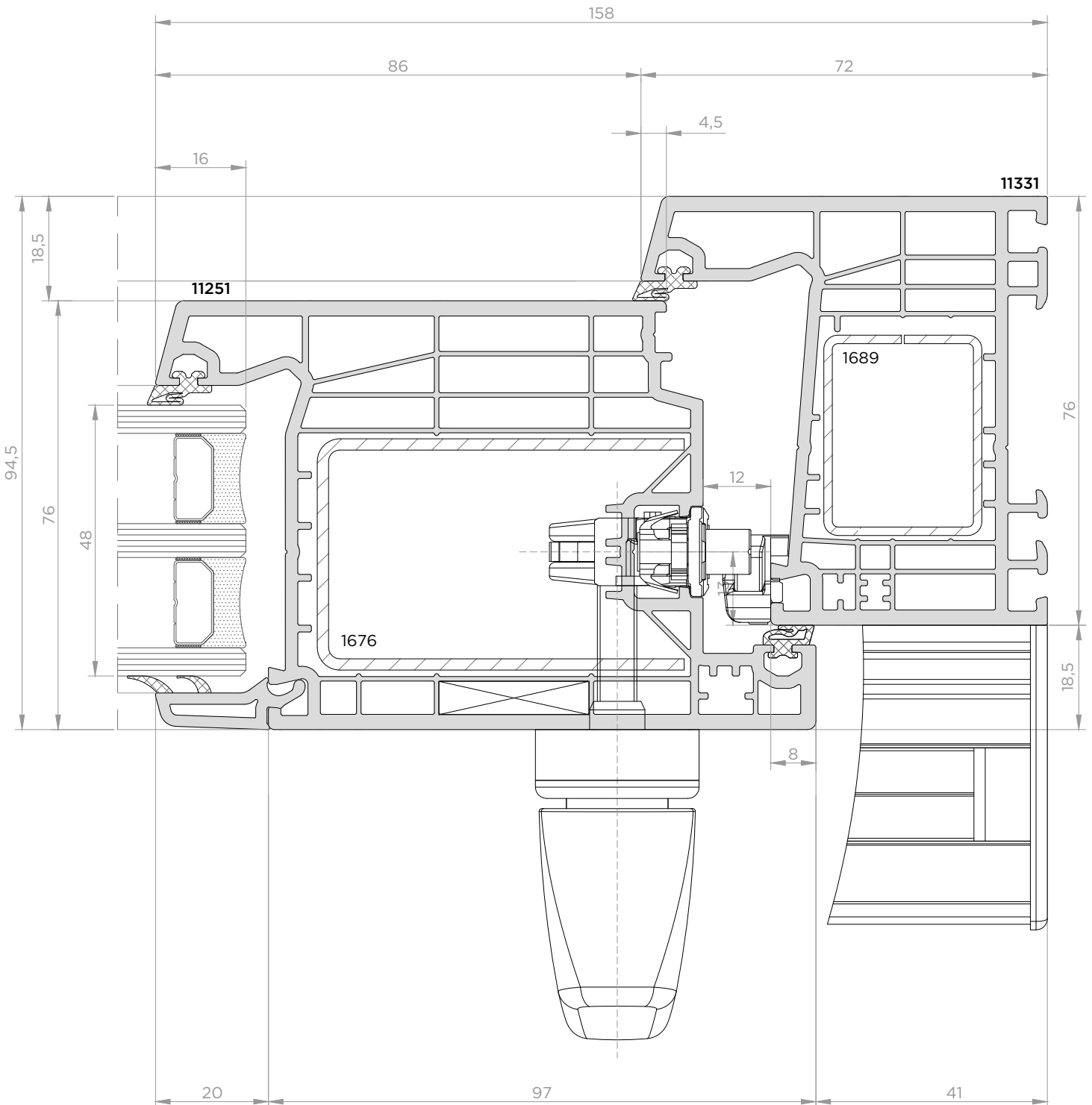
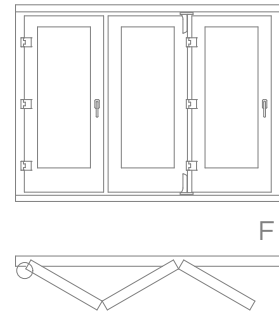
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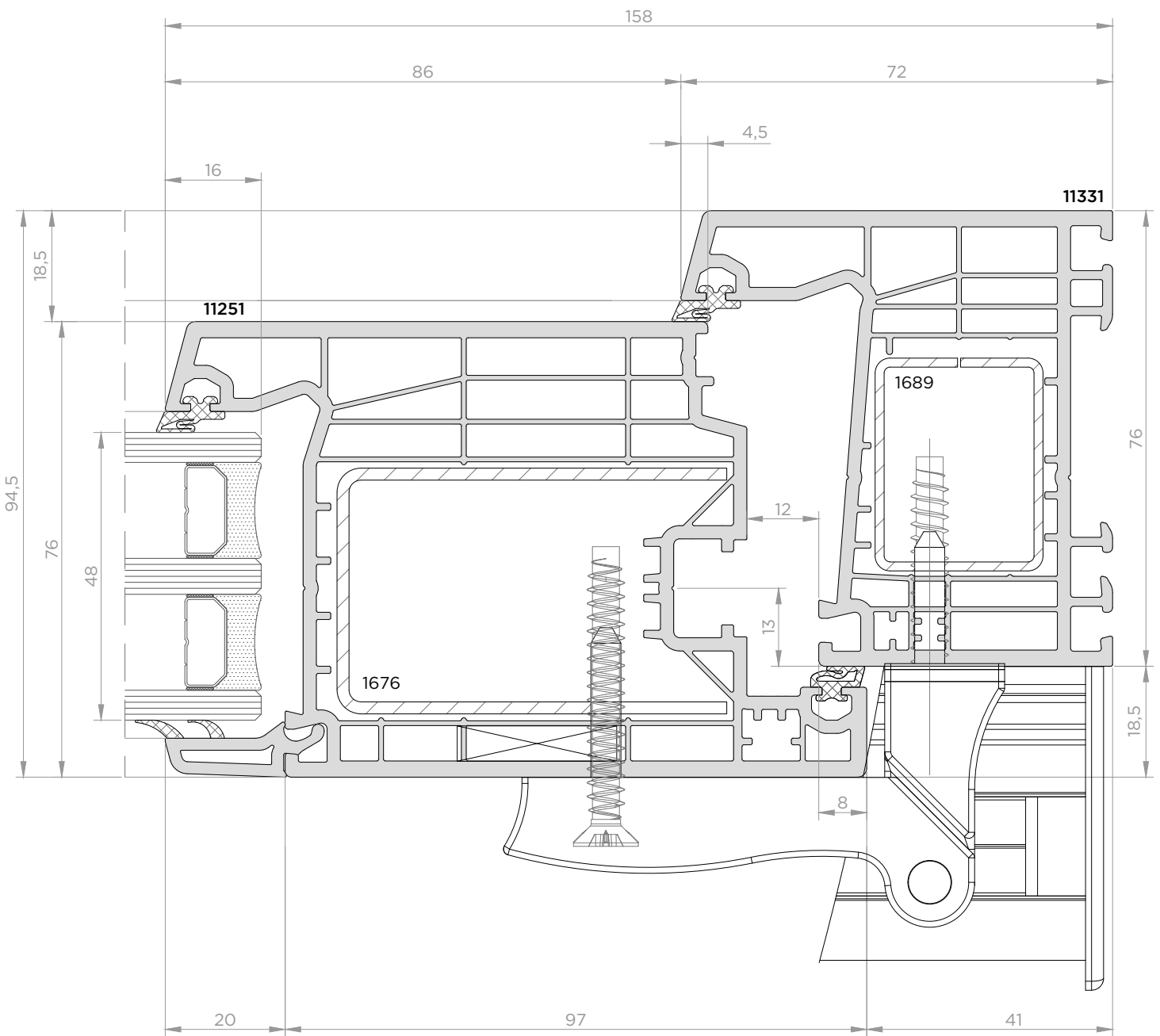
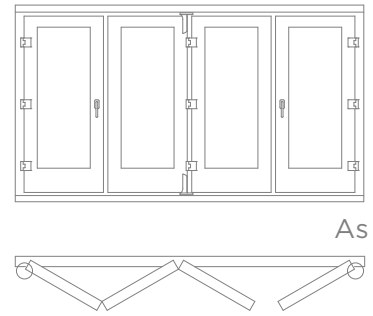


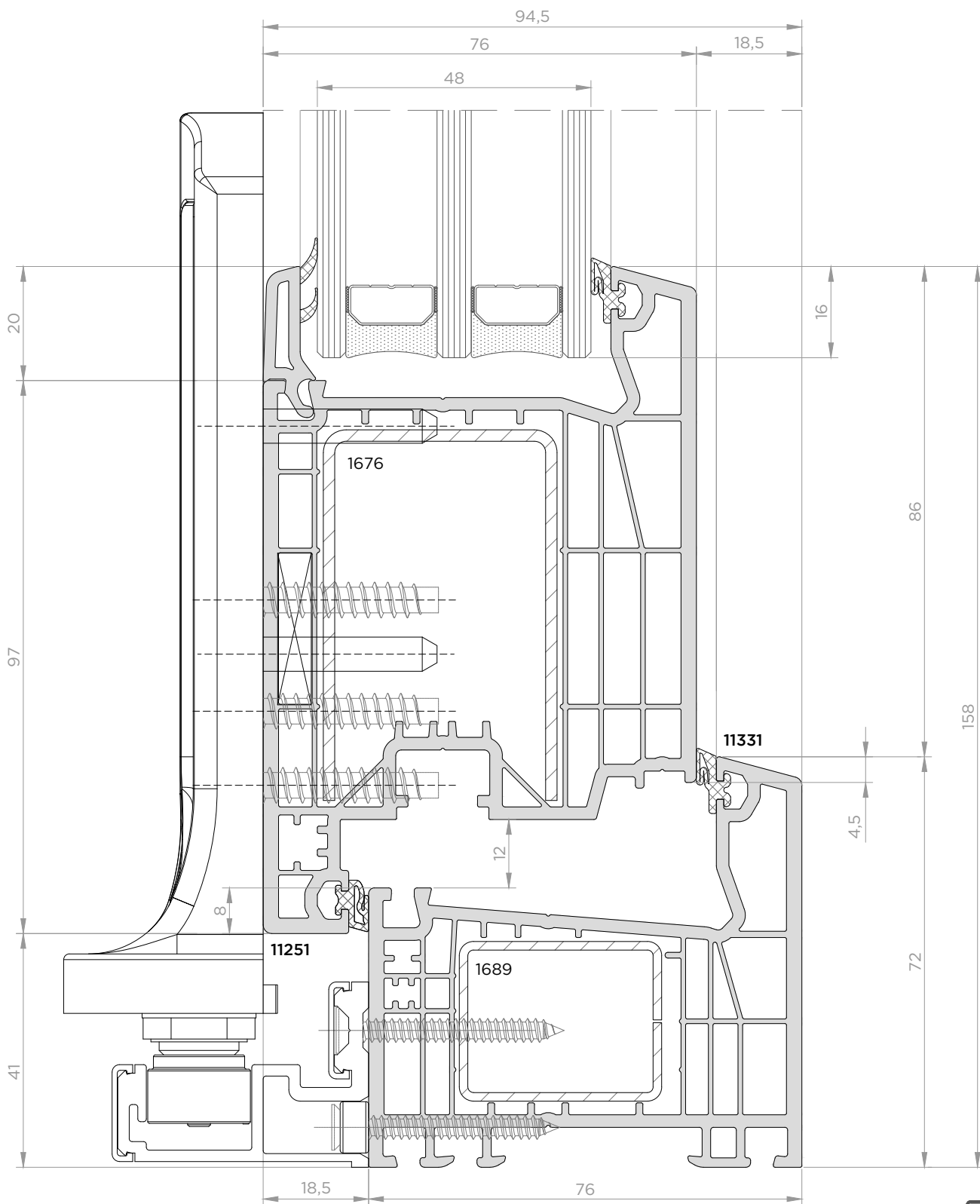


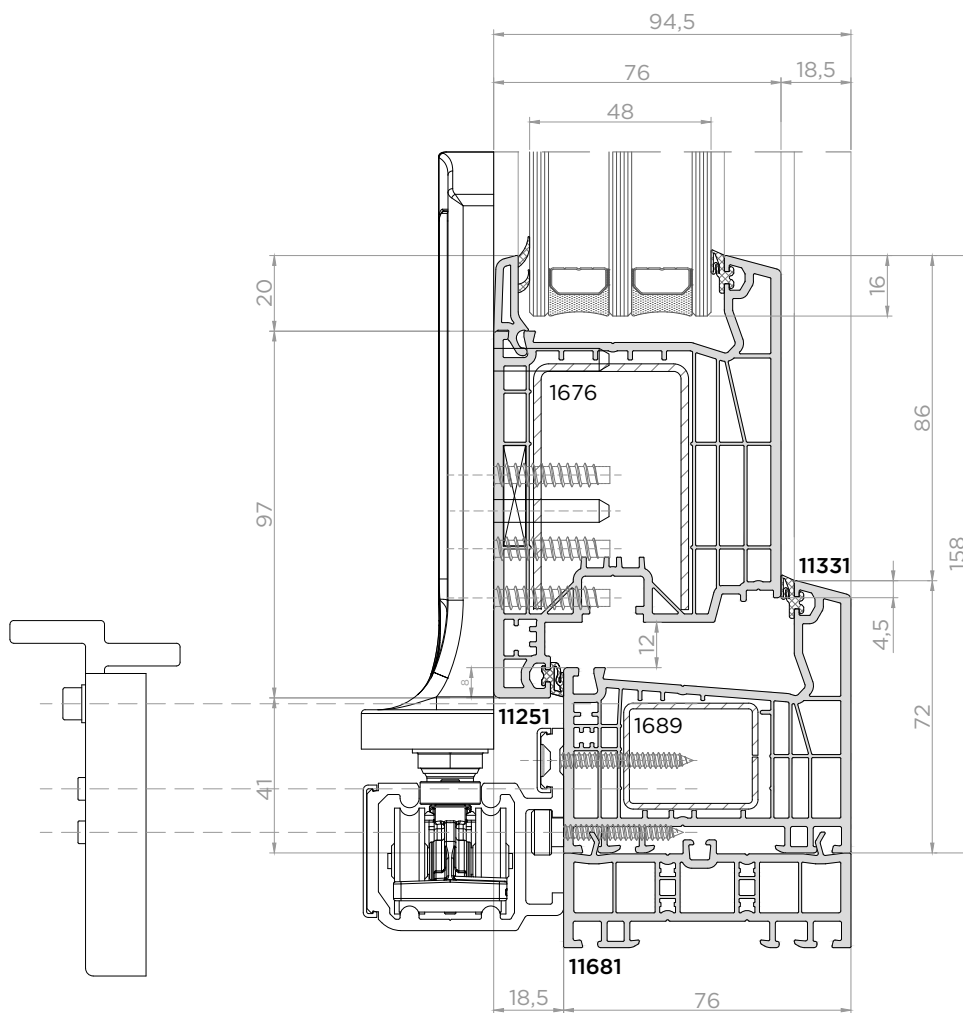
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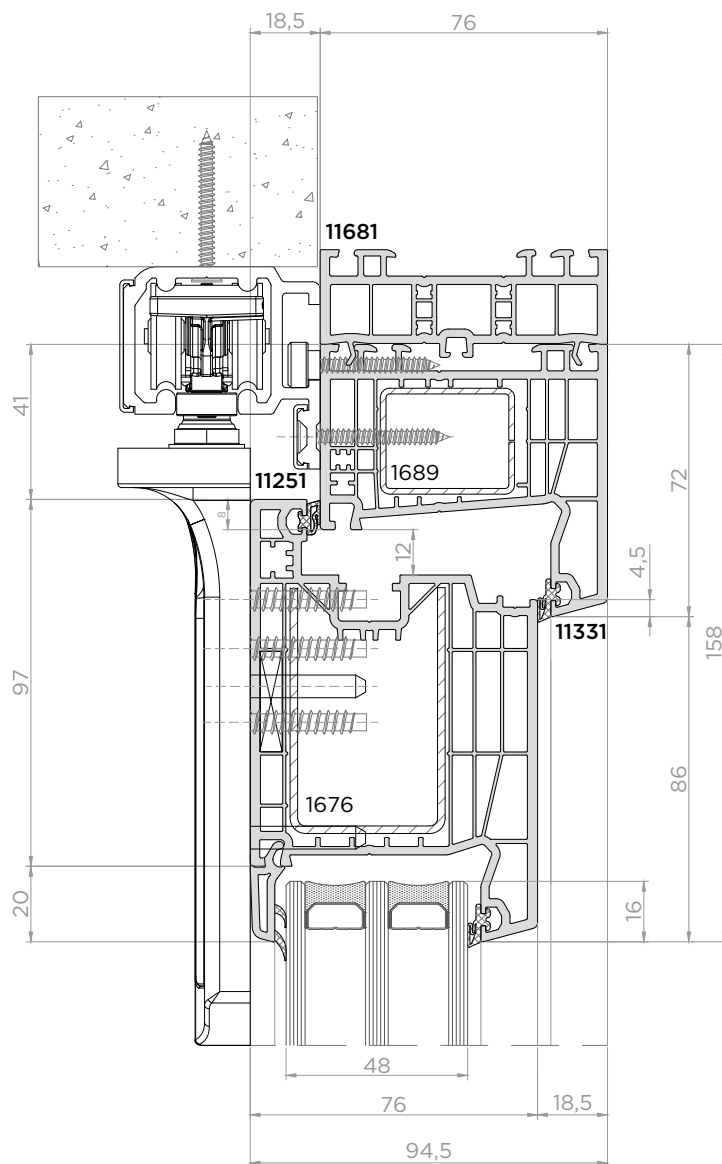


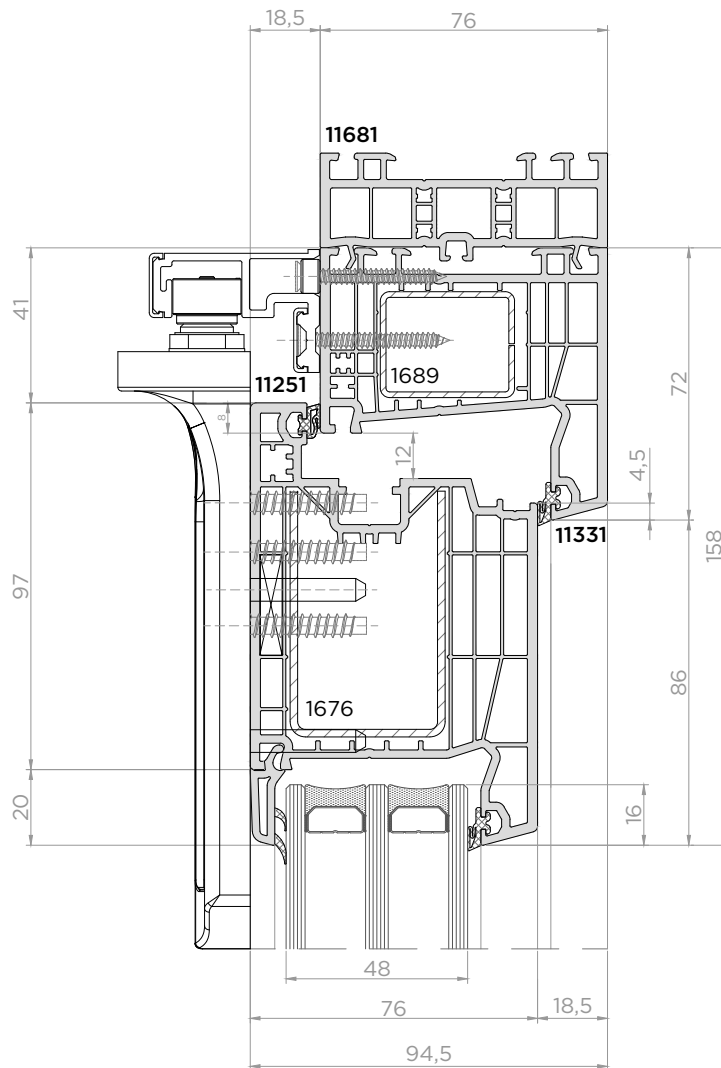


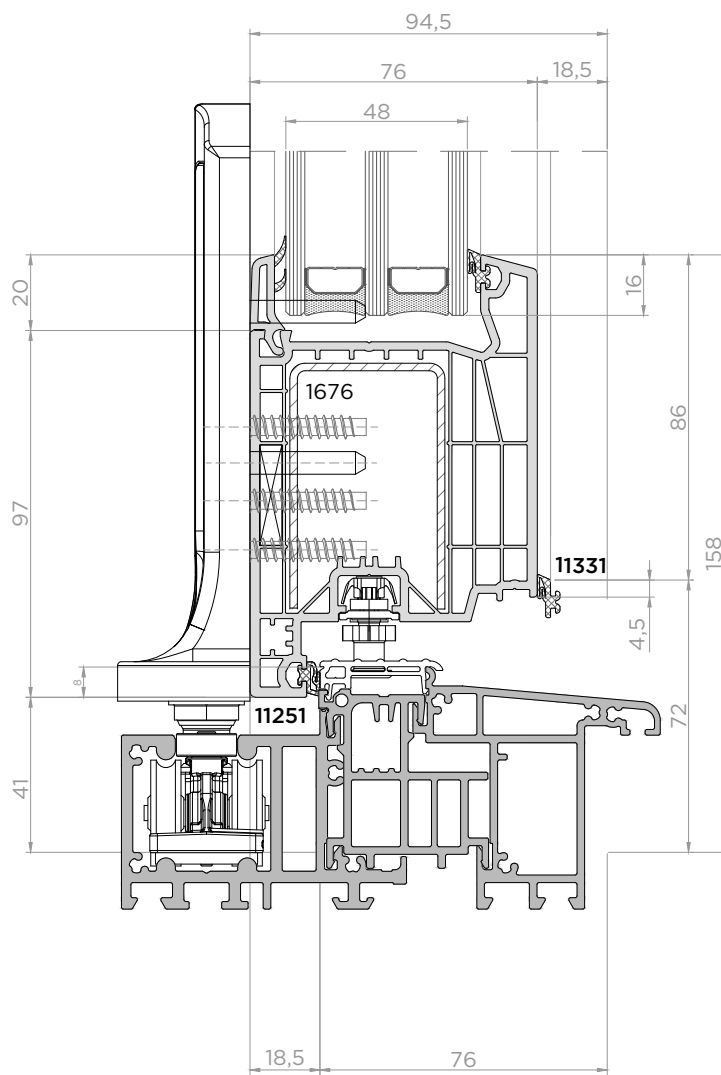












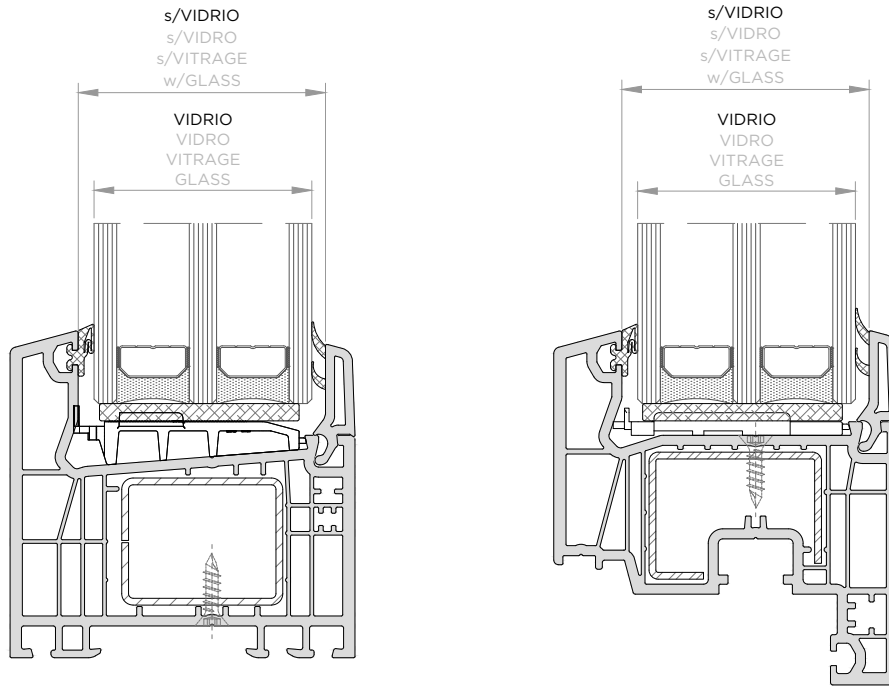
STRUGAL **PLANIA**

ACRISTALAMIENTO

Envidraçado

Vitrage

Glazing



Vidrio máximo V (mm) Vidro máximo V Vitrage maximum V Maximum glass V	Asiento Assento Logement Seat		Juntas () exterior / interior Juntas () exterior / interior Joints () extérieur / intérieur Gaskets () exterior / interior		Junquillo (co-extrusión) Bago (co-extrusão) Parclose (co-extrusion) Glazing bead (co-extrusion)	Ref.: 16001
	Hoja Folha	Marco Aro	Perfil Blanco Perfil Branco	Perfil Color Perfil Cor		
48	311063	311073 311153	Gris	Negro Caramelo		6,5 mm.
44	311063	311073 311153	Gris	Negro Caramelo		9 mm.
38	311063	311073 311153	Gris	Negro Caramelo		15 mm.
34	311063	311073 311243	Gris	Negro Caramelo		20 mm.
28	311063	311073 311243	Gris	Negro Caramelo		25 mm.
24	311063	311073 311243	Gris	Negro Caramelo		29 mm.

(*) NOTAS: | (*) Notas: | (*) Notes: | (*) Notes:

La junta de acristalar exterior se suministra montada y soldada al propio perfil. (Junta PVC+NBR, soldable).

A junta de envidraçamento exterior é fornecida montada e soldada ao próprio perfil. (Junta PVC+NBR, soldável).

Le joint de vitrage extérieur est fourni monté et soudé au profilé lui-même. (Joint PVC+NBR, soudable).

The exterior glazing gasket is supplied pre-assembled and welded to the profile itself. (PVC+NBR gasket, weldable).

*Junta exterior para recambio:

*Junta exterior para substituição:

*Joint extérieur pour pièce de rechange:

*Exterior gasket for replacement:

361301 (Gris) | 361301 (Cinzeno) | 361301 (Grey) | 361301 (Grey)

361302 (Negro) | 361302 (Preto) | 361302 (Noir) | 361302 (Black)

371303 (Caramelo) | 371303 (Caramelo) | 371303 (Caramel) | 371303 (Caramel)

*Junta de junquillo para recambio:

*Junta de bago para substituição:

*Joint de parclose pour pièce de rechange:

*Glazing bead gasket for replacement:

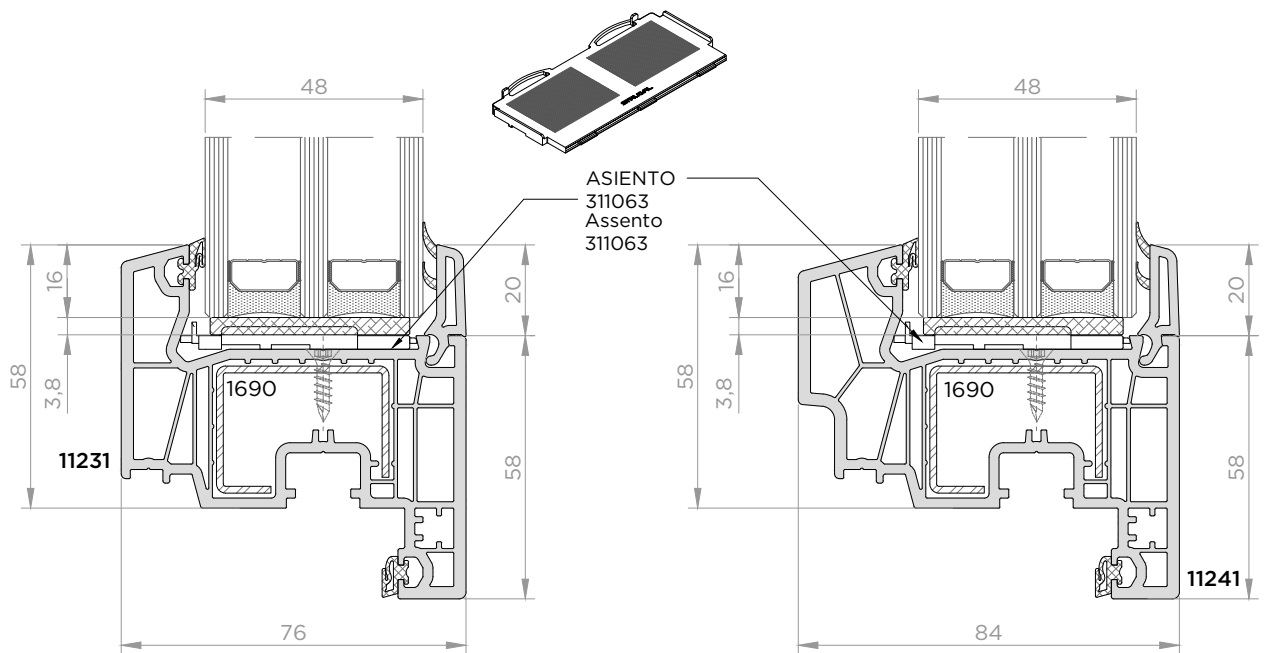
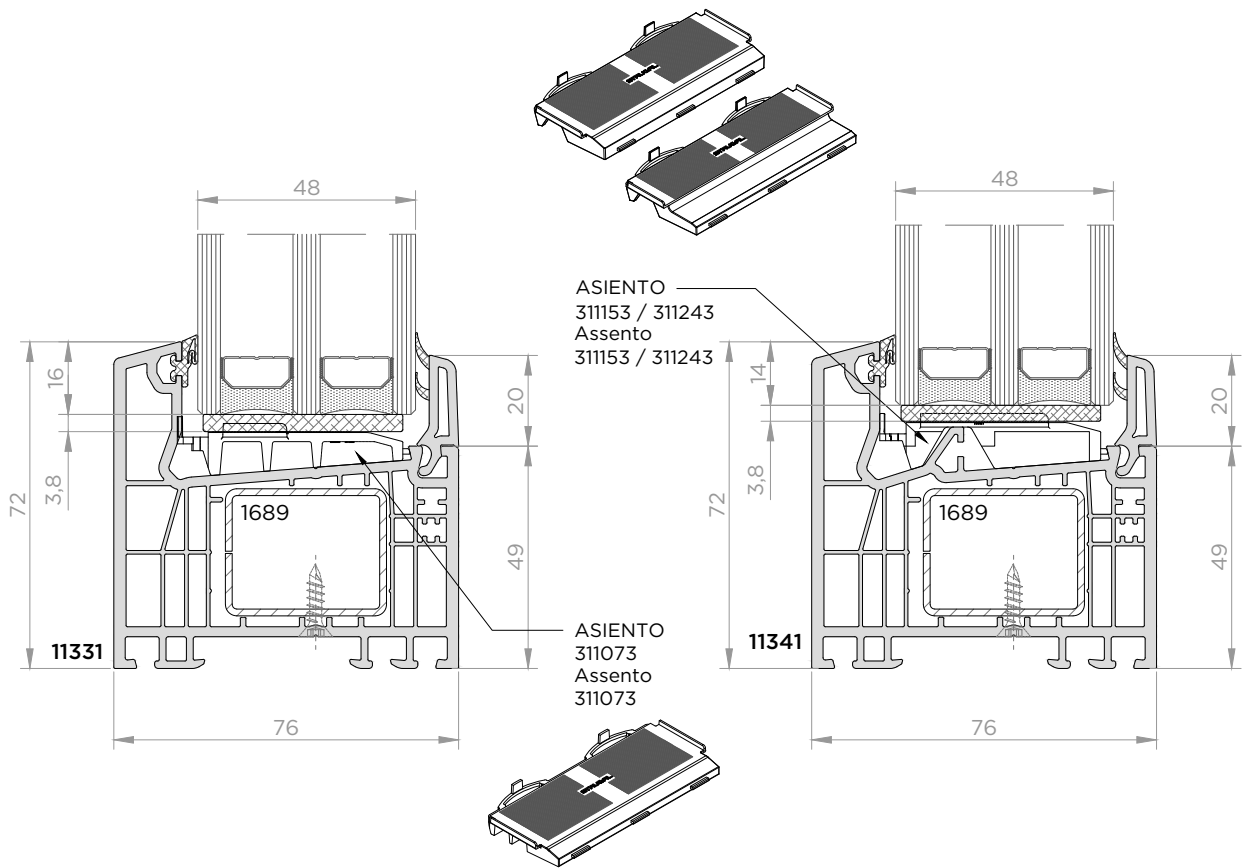
351221 (Gris) | 351221 (Cinzeno) | 351221 (Grey) | 351221 (Grey)

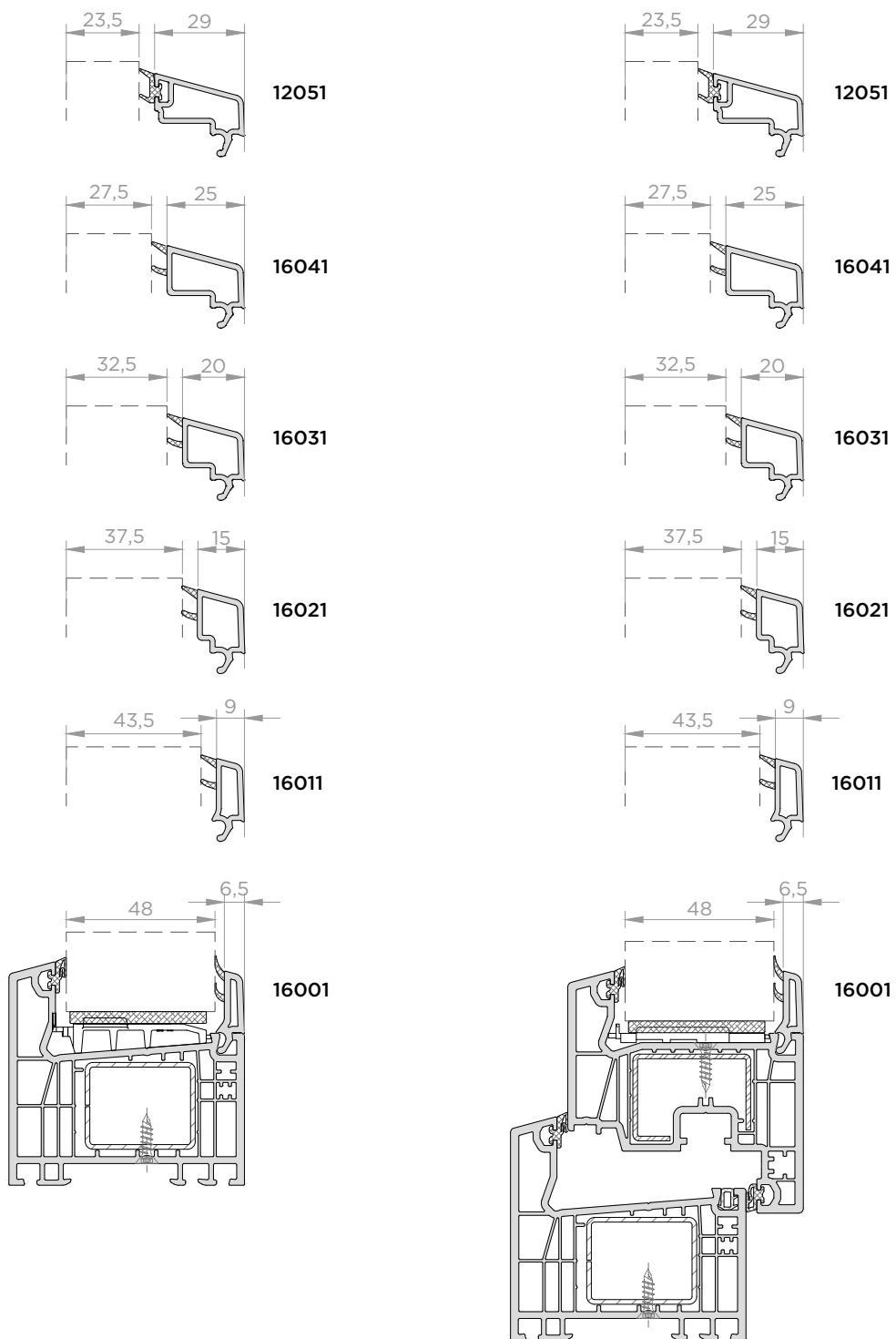
351222 (Negro) | 351222 (Preto) | 351222 (Noir) | 351222 (Black)

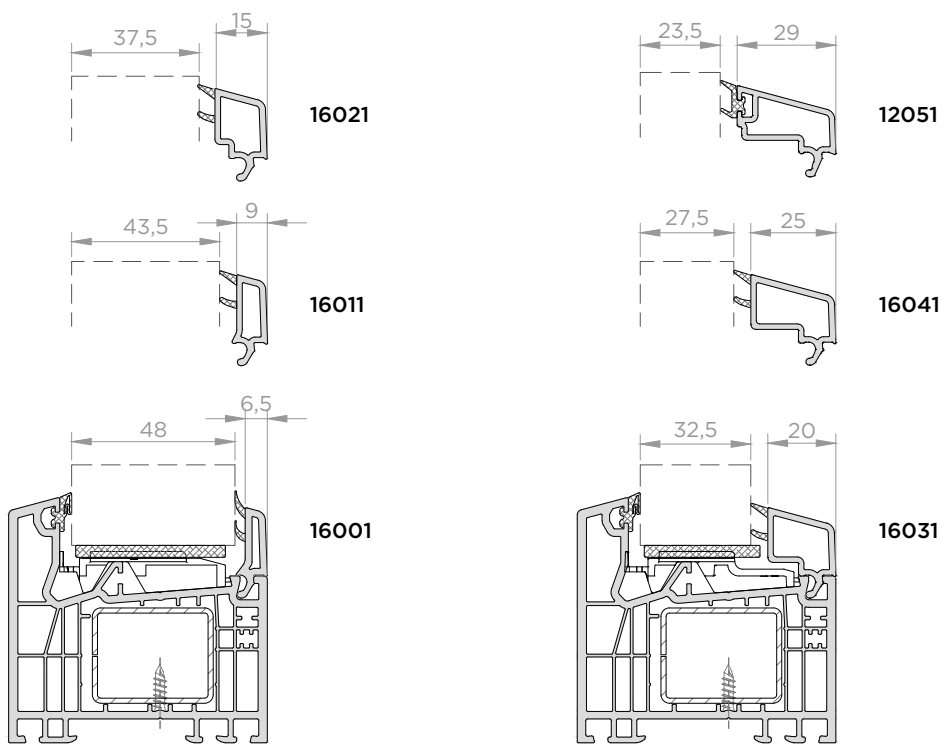
351223 (Caramelo) | 351223 (Caramelo) | 351223 (Caramel) | 351223 (Caramel)

Disponibles calces de 1, 3, 4 y 5 mm. de espesor. | Disponíveis calços de 1, 3, 4 e 5 mm. de espessura. | Cales disponibles en 1, 3, 4 et 5 mm. d'épaisseur. | Available shims in 1, 3, 4 and 5 mm. thickness.

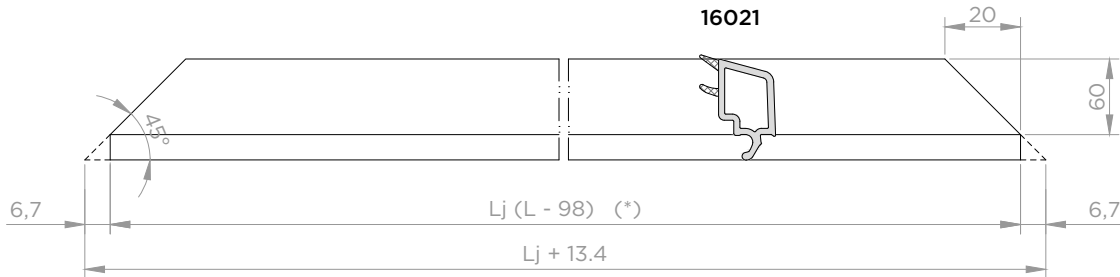
- 1 mm: 330120 /24 /34 /40 /44 /52
- 3 mm: 330319 /24 /34 /40 /44 /52
- 4 mm: 330420 /24 /34 /40 /44 /52
- 5 mm: 330520 /24 /34 /40 /44 /52







16001 16011 16021 16031 16041 12051



Notas:

Ejemplo de uso con Junquillo 16021. Corte de junquillo a inglete (45°), y eliminación de patilla de enganche. Misma disposición con el resto de junquillos. (*) Los descuentos varían en función de la hoja y/o marco en donde se monte el junquillo.

Notas:

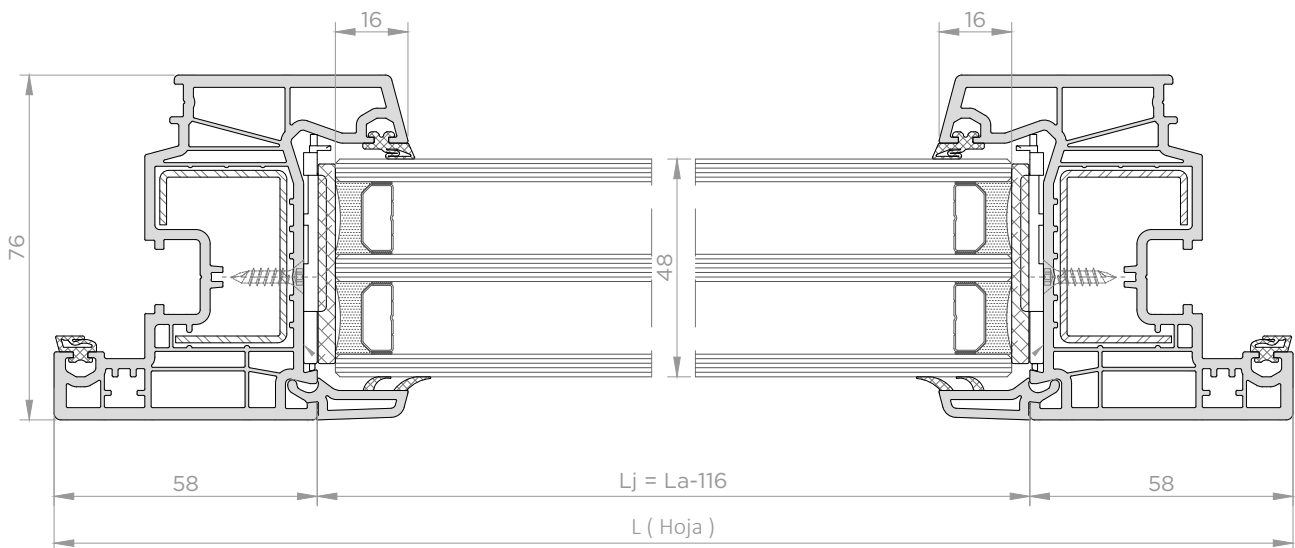
Exemplo de utilização com Bago 16021. Corte do bago em meia-esquadria (45°) e eliminação da patilha de encaixe. Mesma disposição com os restantes bagos. (*) Os descontos variam em função da folha e/ou ar onde o bago é montado.

Notas:

Exemple d'utilisation avec Parclose 16021. Coupe de la parclose en onglet (45°) et élimination de la patte d'accrochage. Même disposition avec le reste des parcloses. (*) Les déductions varient en fonction de l'ouvrant et/ou du dormant où la parclose est montée.

Notas:

Example of use with Glazing bead 16021. Miter cut of the glazing bead (45°) and removal of the hooking leg. Same arrangement for the rest of the glazing beads. (*) Deductions vary depending on the sash and/or frame where the glazing bead is mounted.



Nota importante:

medidas de corte indicadas en la hoja sin tener en cuenta la soldadura [la (+6) y ha (+6)].

Nota importante:

medidas de corte indicadas na folha sem ter em conta a soldadura [la (+6) e ha (+6)].

Note importante:

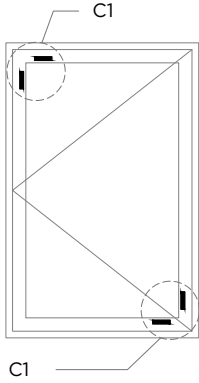
mesures de coupe indiquées sur la fiche sans tenir compte de la soudure [la (+6) et ha (+6)].

Important note:

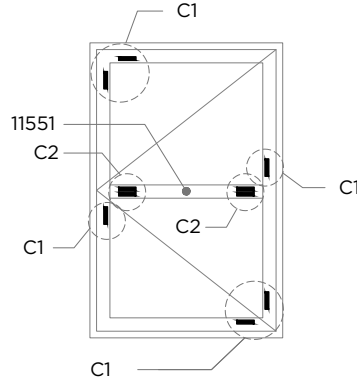
cutting measurements indicated on the sheet without taking welding into account [la (+6) and ha (+6)].

Apertura practicable | Abertura batente | Ouverture à la française | Side-hung opening

Hoja sin divisor | Folha sem divisor | Vantail sans traverse | Sash without transom

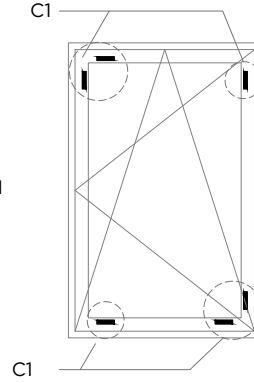


Hoja con divisor 16501 | Folha com divisor 16501 | Vantail avec traverse 16501 | Sash with transom 16501

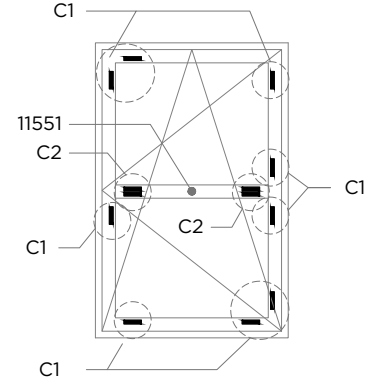


Apertura oscilobatiente | Abertura oscilo-batente | Ouverture oscillo-battante | Tilt and turn opening

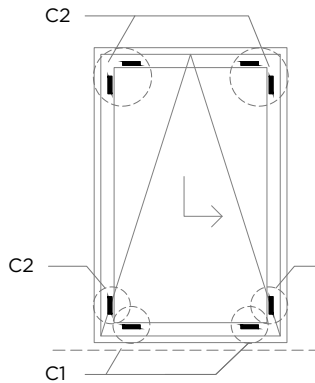
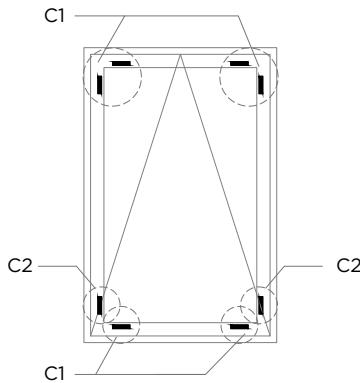
Hoja sin divisor | Folha sem divisor | Vantail sans traverse | Sash without transom



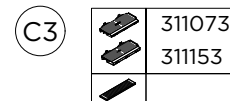
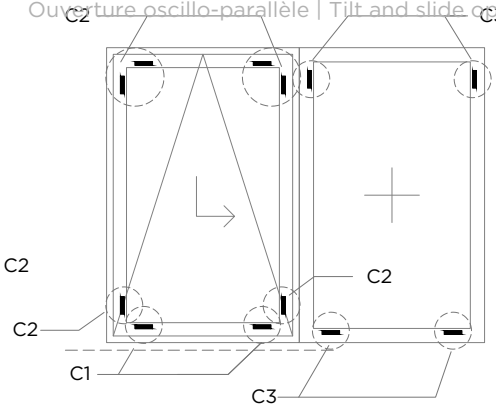
Hoja con divisor 16501 | Folha com divisor 16501 | Vantail avec traverse 16501 | Sash with transom 16501



Apertura abatiente | Abertura basculante | Ouverture à soufflet | Bottom-hung opening



Apertura oscilo paralela | Abertura oscilo-paralela | Ouverture oscillo-parallèle | Tilt and slide opening

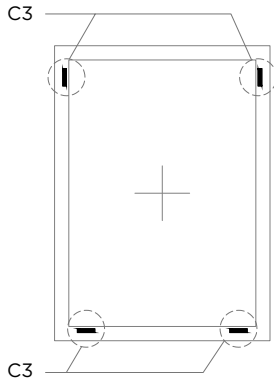


NOTAS IMPORTANTES : Para desaguar y/o airear los galces de los marcos y de las hojas, los bastidores dispondrán de unas salidas bien en forma de ranura (12x5) bien por doble taladro consecutivo (Ø5 mm.). Las salidas para drenaje y/o aireación practicadas no deberán quedar tapadas por la ubicación de los asientos y calzos de acristalar. En las carpinterías de PVC no deberán realizarse trabajos de acristalamiento en condiciones de temperaturas inferiores a los + 5°C. Para iniciar el proceso de acristalar la hoja, la misma deberá estar montada sobre el marco. | NOTAS IMPORTANTES: Para drenar e/ou ventilar os fechos dos aros e das folhas, os caixilhos devem ter saídas em forma de ranhura (12x5) ou por furação dupla consecutiva (Ø5 mm.). As saídas de drenagem e/ou ventilação efectuadas não devem ser tapadas pela localização dos assentos e calços de vidragem. Nas caixilharias de PVC, os trabalhos de vidragem não devem ser efectuados a temperaturas inferiores a + 5°C. Para iniciar o processo de vidragem da folha, esta deve estar montada no aro. | NOTES IMPORTANTES : Pour le drainage et/ou la ventilation des feuillures des dormants et des ouvrants, les cadres disposeront de sorties soit sous forme de rainure (12x5), soit par double perçage consécutif (Ø5 mm.). Les sorties de drainage et/ou de ventilation pratiquées ne doivent pas être obstruées par l'emplacement des logements et des cales de vitrage. Pour les menuiseries en PVC, les travaux de vitrage ne doivent pas être effectués à des températures inférieures à + 5°C. Pour commencer le processus de vitrage de l'ouvrant, celui-ci doit être monté sur le dormant. | IMPORTANT NOTES: To drain and/or ventilate the rebates of the frames and sashes, the frames shall have outlets either in the form of a slot (12x5) or by double consecutive drilling (Ø5 mm.). The drainage and/or ventilation outlets provided must not be covered by the location of the glazing seats and shims. In PVC joinery, glazing work must not be carried out at temperatures below + 5°C. To start the process of glazing the sash, it must be mounted on the frame.

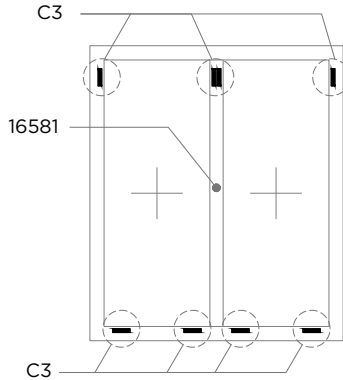
Marco para fijo | Marco para fixo | Dormant pour châssis fixe | Frame for fixed light

Marco sin travesaño |
Marco sem travessa |
Dormant sans traverse |
Frame without transom

Marco con travesaño 16581 |
Marco com travessa 16581 |
Dormant avec traverse 16581 |
Frame with transom 16581



C3		311073
		311153



C3		311073
		311153

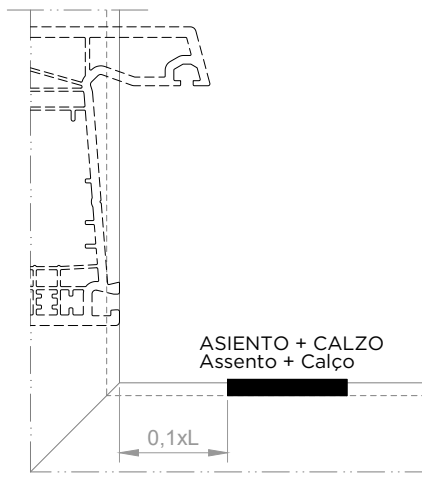
Nomenclatura de los Asientos y Calzos:

C1 = ASIENTO Y CALZO DE APOYO.
C2 = ASIENTO Y CALZO PERIMETRAL.
C3 = ASIENTO Y CALZO DE SEGURIDAD.

Nomenclatura dos Assentos e Calços:
C1 = ASSENTO E CALÇO DE APOIO.
C2 = ASSENTO E CALÇO PERIMETRAL.
C3 = ASSENTO E CALÇO DE SEGURANÇA.

Nomenclature des Logements et Cales :
C1 = LOGEMENT ET CALE D'APPUI.
C2 = LOGEMENT ET CALE PÉRIMÉTRALE.
C3 = LOGEMENT ET CALE DE SÉCURITÉ.

Nomenclature of Seats and Shims:
C1 = SUPPORT SEAT AND SHIM.
C2 = PERIMETER SEAT AND SHIM.
C3 = SECURITY SEAT AND SHIM.



Los calzos deben colocarse necesariamente como prevén los croquis anteriormente indicados, sin añadir otros calzos en otras situaciones. Los calzos dispondrán de una longitud de unos 100 mm. | Os calços devem ser colocados necessariamente como previsto nos croquis anteriormente indicados, sem adicionar outros calços noutras situações. Os calços terão um comprimento de cerca de 100 mm. | Les cales doivent être impérativement placées comme prévu sur les croquis indiqués précédemment, sans ajouter d'autres cales dans d'autres positions. Les cales auront une longueur d'environ 100 mm. | The shims must necessarily be placed as provided in the previously indicated sketches, without adding other shims in other positions. The shims will have a length of about 100 mm.

La distancia entre el eje de los calzos y el borde del vidrio, será aprox. de L/10 (L = longitud de vidrio.) | A distância entre o eixo dos calços e a borda do vidro será aprox. de L/10 (L = comprimento do vidro.) | La distance entre l'axe des cales et le bord du vitrage sera d'environ L/10 (L = longueur du vitrage.) | The distance between the axis of the shims and the edge of the glass will be approx. L/10 (L = glass length.)



NOTAS IMPORTANTES : Para desaguar y/o airear los galces de los marcos y de las hojas, los bastidores dispondrán de unas salidas bien en forma de ranura (12x5) bien por doble taladro consecutivo (Ø5 mm.). Las salidas para drenaje y/o aireación practicadas no deberán quedar tapadas por la ubicación de los asientos y calzos de acristalar. En las carpinterías de PVC no deberán realizarse trabajos de acristalamiento en condiciones de temperaturas inferiores a los + 5°C. Para iniciar el proceso de acristalar la hoja, la misma deberá estar montada sobre el marco. | **NOTAS IMPORTANTES:** Para drenar e/ou ventilar os fechos dos aros e das folhas, os caixilhos devem ter saídas em forma de ranhura (12x5) ou por furação dupla consecutiva (Ø5 mm.). As saídas de drenagem e/ou ventilação efectuadas não devem ser tapadas pela localização dos assentos e calços de vidragem. Nas caixilharias de PVC, os trabalhos de vidragem não devem ser efectuados a temperaturas inferiores a + 5°C. Para iniciar o processo de vidragem da folha, esta deve estar montada no aro. | **NOTES IMPORTANTES :** Pour le drainage et/ou la ventilation des feuillures des dormants et des ouvrants, les cadres disposeront de sorties soit sous forme de rainure (12x5), soit par double perçage consécutif (Ø5 mm.). Les sorties de drainage et/ou de ventilation pratiquées ne doivent pas être obstruées par l'emplacement des logements et des cales de vitrage. Pour les menuiseries en PVC, les travaux de vitrage ne doivent pas être effectués à des températures inférieures à + 5°C. Pour commencer le processus de vitrage de l'ouvrant, celui-ci doit être monté sur le dormant. | **IMPORTANT NOTES:** To drain and/or ventilate the rebates of the frames and sashes, the frames shall have outlets either in the form of a slot (12x5) or by double consecutive drilling (Ø5 mm.). The drainage and/or ventilation outlets provided must not be covered by the location of the glazing seats and shims. In PVC joinery, glazing work must not be carried out at temperatures below + 5°C. To start the process of glazing the sash, it must be mounted on the frame.

ACRISTALAMIENTO | Envidraçamento | Vitrage | Glazing

No emplear vidrios defectuosos, comprobando antes si presentan algún tipo de daño, sobretodo en las esquinas y bordes. Evitar el acristalamiento a temperaturas inferiores a 5°C, por riesgo de rotura ante el enfriamiento excesivo del perfil de PVC. Antes de proceder a acristalar en obra, la ventana debe estar ya enlucida y empotrada completamente. No descolgar las hojas del marco durante el acristalamiento. Si se emplea junta de recambio, deberá eliminarse previamente cualquier resto de soldadura existente en la ranura o canal de la junta.

Não utilizar vidros defeituosos, verificando previamente se apresentam algum tipo de dano, especialmente nos cantos e arestas. Evitar a vidragem a temperaturas inferiores a 5°C, devido ao risco de rutura perante o arrefecimento excessivo do perfil de PVC. Antes de proceder à vidragem em obra, a janela deve estar já rebocada e encastrada completamente. Não despendurar as folhas do aro durante a vidragem. Se for utilizada uma junta de substituição, deve eliminar-se previamente qualquer resto de soldadura existente na ranhura ou canal da junta.

Ne pas utiliser de vitrages défectueux, en vérifiant au préalable s'ils présentent des dommages, notamment sur les coins et les bords. Éviter le vitrage à des températures inférieures à 5°C, en raison du risque de rupture lié au refroidissement excessif du profilé PVC. Avant de procéder au vitrage sur chantier, la fenêtre doit être déjà enduite et complètement scellée. Ne pas dégonder les ouvrants du dormant pendant le vitrage. Si un joint de rechange est utilisé, tout reste de soudure existant dans la rainure ou le canal du joint doit être préalablement éliminé.

Do not use defective glass, checking beforehand for any type of damage, especially on corners and edges. Avoid glazing at temperatures below 5°C, due to the risk of breakage from excessive cooling of the PVC profile. Before proceeding with glazing on site, the window must already be plastered and completely embedded. Do not remove the sashes from the frame during glazing. If a replacement gasket is used, any remaining welding residue in the groove or gasket channel must be removed beforehand.

Montaje de junquillos | Montagem de bagos | Montage des parcloles | Installation of glazing beads

Procedimiento general:

Comprobar medidas de corte de los junquillos. Los junquillos se cortan preferiblemente a inglete (45°). Para evitar tensiones y roturas durante su colocación deben cortarse sin sobrante al largo. Debe colocarse en primer lugar los junquillos correspondientes a los lados más cortos. Nota: En junquillos de menor dimensión pueden practicarse en la zona central unos cortes para facilitar su flexión y clipado posterior (ver detalle Det.1). Colocar y clipar los junquillos desde el centro hacia los exteriores, haciendo uso de un martillo de nylon. Debe colocarse por el pie de anclaje del junquillo y golpear levemente con el martillo. Los junquillos de los lados más largos se doblarán y guiarán por sus extremos en los ingletes respectivos. Se encajará el junquillo golpeando el mismo con el martillo en dirección siempre hacia los lados. Para desclipar los junquillos se hará uso de un formón o de una paleta estrecha, introduciéndolo en horizontal entre el perfil y la base del junquillo. Extraer los junquillos con cuidado.

Procedimento geral:

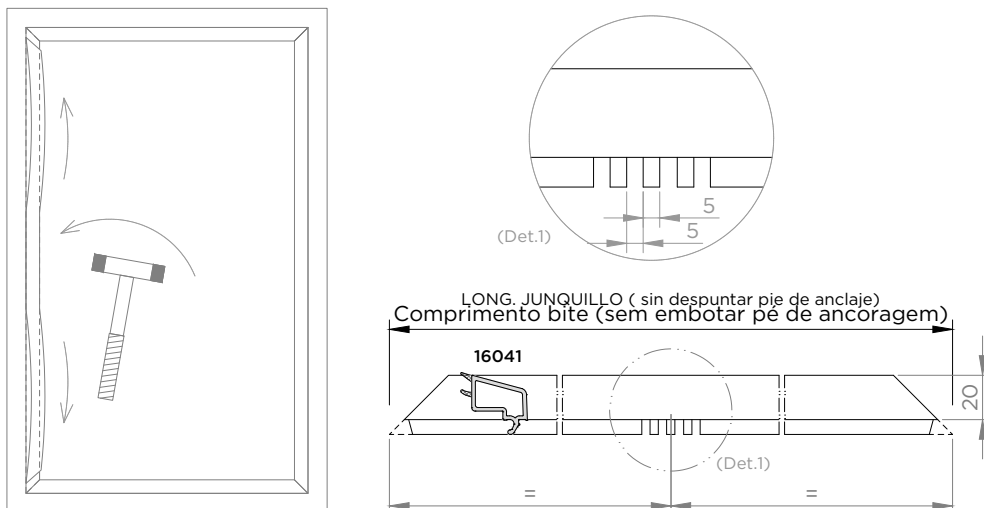
Verificar as medidas de corte dos bagos. Os bagos são cortados preferencialmente em meia-esquadria (45°). Para evitar tensões e ruturas durante a sua colocação, devem ser cortados sem excesso no comprimento. Devem ser colocados em primeiro lugar os bagos correspondentes aos lados mais curtos. Nota: Em bagos de menor dimensão, podem ser feitos alguns cortes na zona central para facilitar a sua flexão e posterior encaixe (ver detalhe Det.1). Colocar e encaixar os bagos do centro para as extremidades, utilizando um martelo de nylon. Deve ser colocado pelo pé de fixação do bago e bater levemente com o martelo. Os bagos dos lados mais longos serão dobrados e guiados pelas suas extremidades nas respetivas meias-esquadradas. O bago será encaixado batendo no mesmo com o martelo sempre em direção aos lados. Para desencaixar os bagos, deve utilizar-se um formão ou uma espátula estreita, introduzindo-a horizontalmente entre o perfil e a base do bago. Remover os bagos com cuidado.

Procédure générale :

Vérifier les mesures de coupe des parcloles. Les parcloles sont de préférence coupées en onglet (45°). Pour éviter les tensions et les ruptures lors de la pose, elles doivent être coupées sans surplus de longueur. Il faut d'abord poser les parcloles correspondant aux côtés les plus courts. Note : Sur les parcloles de petites dimensions, des coupes peuvent être pratiquées dans la zone centrale pour faciliter leur flexion et leur clipsage ultérieur (voir détail Det.1). Poser et clipser les parcloles du centre vers l'extérieur, à l'aide d'un maillet en nylon. Il faut l'insérer par le pied d'ancrage de la parclose et frapper légèrement avec le maillet. Les parcloles des côtés les plus longs seront courbées et guidées par leurs extrémités dans les onglets respectifs. La parclose s'emboîtera en frappant sur celle-ci avec le maillet, toujours en direction des côtés. Pour déclipser les parcloles, on utilisera un ciseau ou une spatule étroite, en l'introduisant horizontalement entre le profilé et la base de la parclose. Retirer les parcloles avec précaution.

General procedure:

Check the cutting measurements of the glazing beads. The glazing beads are preferably miter-cut (45°). To avoid stress and breakage during installation, they must be cut to length without any excess. The glazing beads corresponding to the shortest sides must be installed first. Note: For smaller glazing beads, cuts can be made in the central area to facilitate their bending and subsequent clipping (see detail Det.1). Position and clip the glazing beads from the center towards the outside, using a nylon hammer. It must be placed by the anchoring foot of the glazing bead and tapped lightly with the hammer. The glazing beads on the longer sides will be bent and guided by their ends into the respective miters. The glazing bead will be fitted by tapping it with the hammer, always in the direction of the sides. To unclip the glazing beads, use a chisel or a narrow spatula, inserting it horizontally between the profile and the base of the glazing bead. Remove the glazing beads carefully.



STRUGAL

STRUGAL OMNIA

**Una solución corredera
eficiente, accesible y pensada
para el confort térmico**

Uma solução de correr eficiente, acessível e concebida para o conforto térmico

Une solution coulissante efficace, accessible et conçue pour le confort thermique

An efficient, accessible sliding solution designed for thermal comfort



STRUGAL

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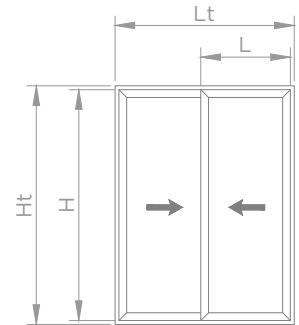
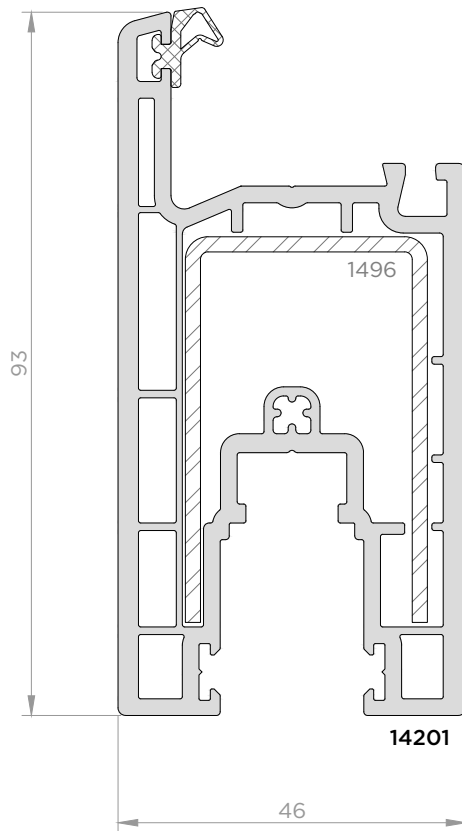
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STRUGAL

STRUGAL OMNIA

CARACTERÍSTICAS TÉCNICAS

Características técnicas
Caractéristiques techniques
Technical characteristics



Balconera corredera 2H Sacada de correr 2F Porte-fenêtre coulissante 2v 2-panel sliding balcony door		
	L máx.	H máx.
Perfiles en Blanco Perfis em Branco	1.800	2.600 (*)
Perfiles en Color Perfis em Cor	1.700	2.600 (*)



Según rodamientos | Segundo rolamentos | Selon les roulements | According to rollers

Recomendación: H: L < 3 | Recomendação: H: L < 3 | Recommandation : H: L < 3 | Recommendation: H: L < 3



(*) Nota: Ver nudos en páginas siguientes para determinar tipología y limitaciones en cada situación.

(*) Nota: Ver nós nas páginas seguintes para determinar tipologia e limitações em cada situação.

(*) Note : Voir les coupes de détails aux pages suivantes pour déterminer la typologie et les limitations dans chaque situation.

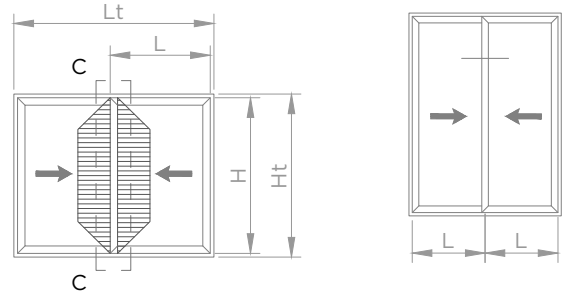
(*) Note: See detail sections on the following pages to determine typology and limitations in each situation.

Nudo central - Balconera corredera | Nó central - Sacada de correr | Chicane centrale - Porte-fenêtre coulissante | Interlock - Sliding balcony door

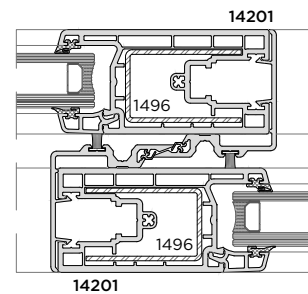
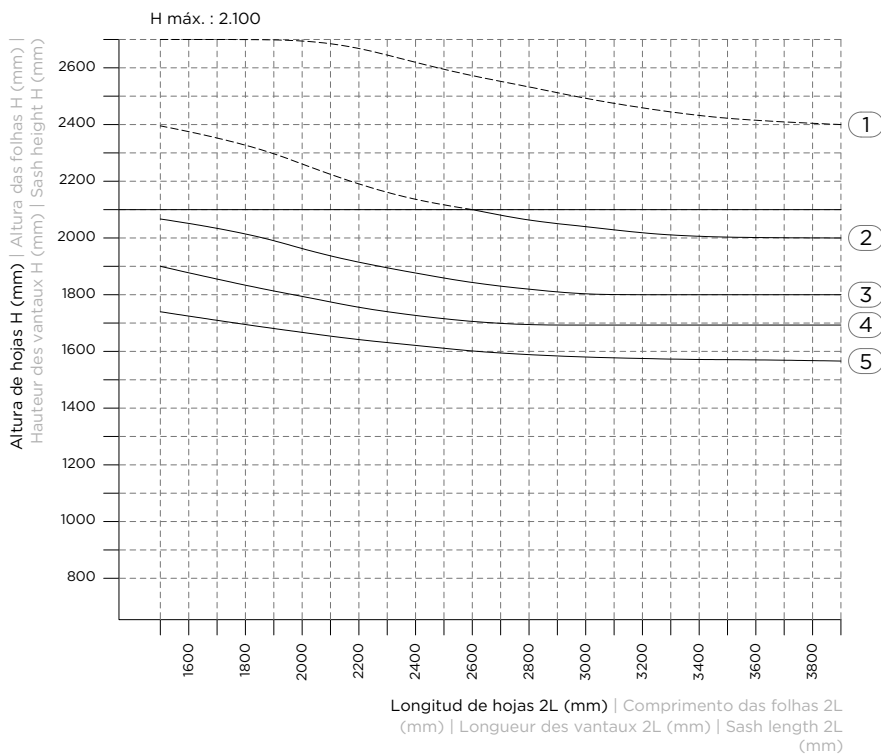
MÓDULO ELÁSTICO O DE YOUNG, CÁLCULOS Y VALORES DE INERCIA:
 CON ACERO GALVANIZADO:
 E = 210.000 N/mm²
 CON PERFIL DE ALUMINIO:
 E = 70.000 N/mm²
 MÓDULO ELÁSTICO OU DE YOUNG
 CÁLCULOS E VALORES DE INERCIA:
 COM AÇO GALVANIZADO:
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 COM PERFIL DE ALUMÍNIO:
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CARGA DE VIENTO Flecha max. H/200 ó 15 mm | CARGA DE VENTO Flexão máx. H/200 ou 15 mm | CHARGE DE VENT Flèche max. H/200 ou 15 mm | WIND LOAD Max. deflection H/200 or 15 mm

1 -	400 Pa -	93 km/h
2 -	800 Pa -	131 km/h
3 -	1200 Pa -	161 km/h
4 -	1600 Pa -	186 km/h
5 -	2000 Pa -	208 km/h



	L máx.	H máx.
Perfiles en Blanco Perfis em Branco	1.600	2.100
Perfiles en Color Perfis em Cor	1.500	1.900



Ixx (cm⁴) = 9,76

Nudo central reforzado - Balconera corredera | Nú central reforçado - Sacada de correr | Chicane centrale renforcée - Porte-fenêtre coulissante | Reinforced interlock - Sliding balcony door

MÓDULO ELÁSTICO O DE YOUNG, CÁLCULOS Y VALORES DE INERCIA:
 CON ACERO GALVANIZADO:
 E = 210.000 N/mm²
 CON PERFIL DE ALUMINIO:
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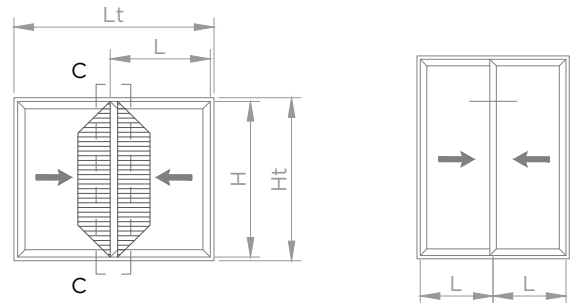
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 AVEC ACIER GALVANISÉ :
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 avec profilé d'aluminium :
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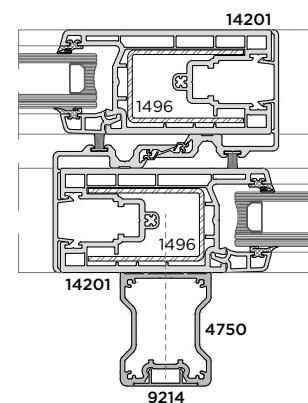
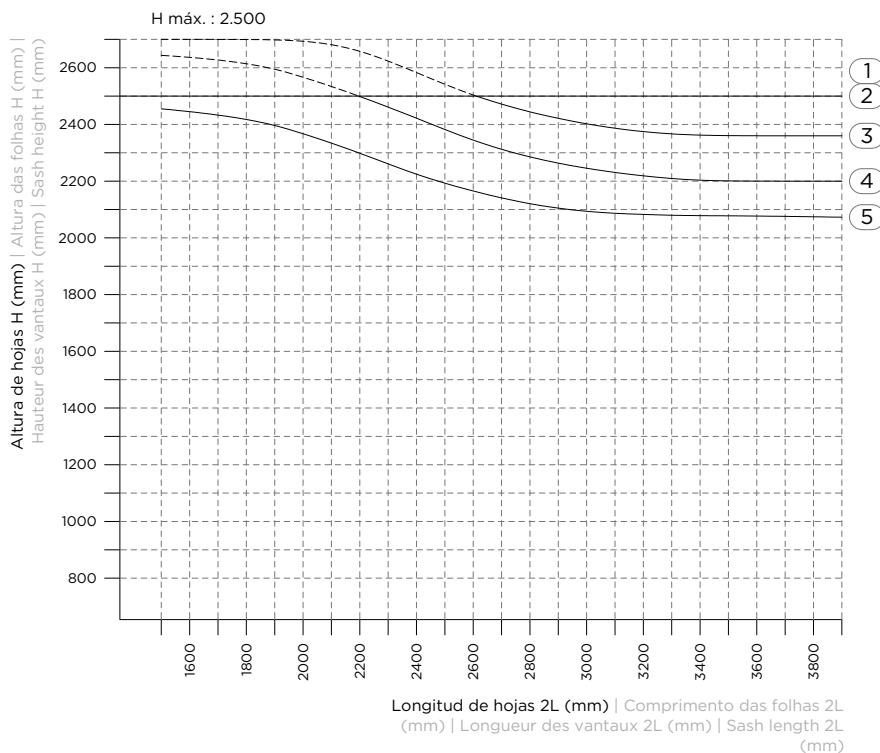
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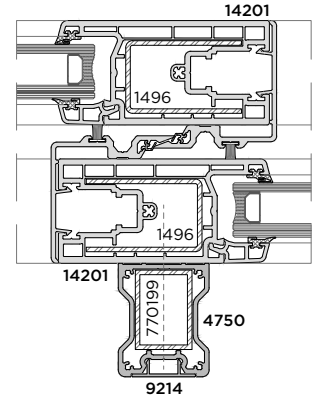
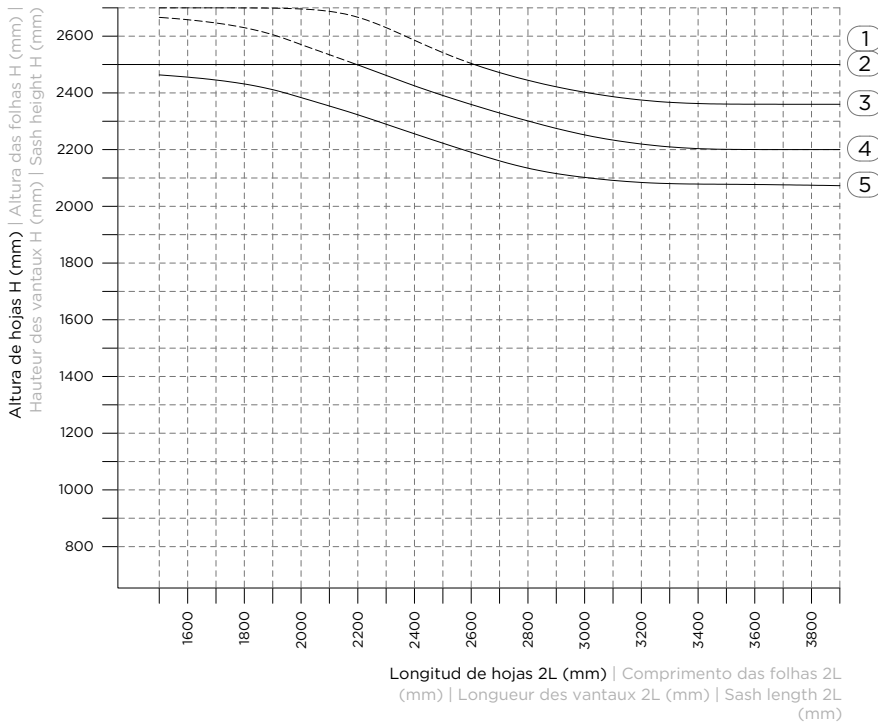


	L máx.	H máx.
Perfiles en Blanco Perfis em Branco	1.700	2.500
Perfiles en Color Perfis em Cor	1.600	2.350



Ixx (cm⁴) = 58,06

Nudo central reforzado - Balconera corredera | Nú central reforçado - Sacada de correr | Chicane centrale renforcée - Porte-fenêtre coulissante | Reinforced interlock - Sliding balcony door



Ixx (cm⁴) = 64,47
 (con refuerzo 770199)
 (com reforço 770199)

Nudo central reforzado - Balconera corredera | Nó central reforçado - Sacada de correr | Chicane centrale renforcée - Porte-fenêtre coulissante | Reinforced interlock - Sliding balcony door

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 CON ACERO GALVANIZADO:
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 CON PERFIL DE ALUMINIO:
 E = 70.000 N/mm²

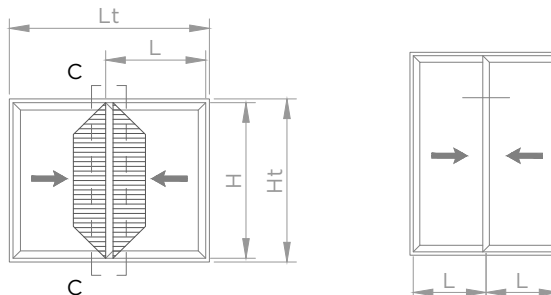
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 E = 210.000 N/mm²
 COM PERFIL DE ALUMÍNIO:
 E = 70.000 N/mm²

MODULE D'ÉLASTICITÉ OU DE YOUNG CALCULS ET VALEURS D'INERTIE :
 AVEC ACIER GALVANISÉ :
 E = 210.000 N/mm²
 avec profilé d'aluminium :
 E = 70.000 N/mm²

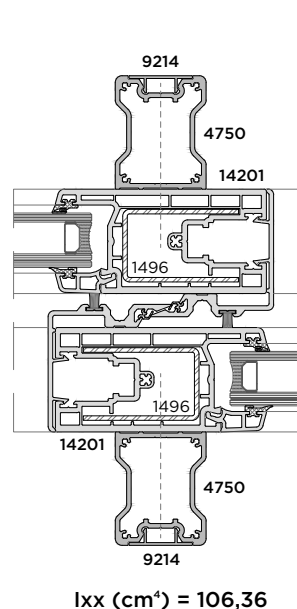
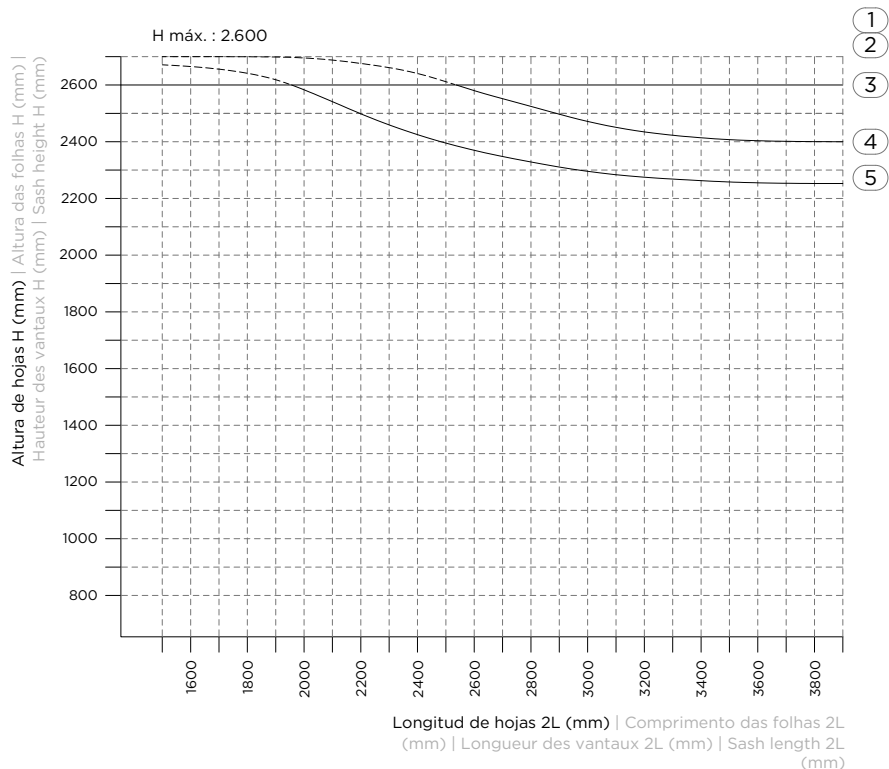
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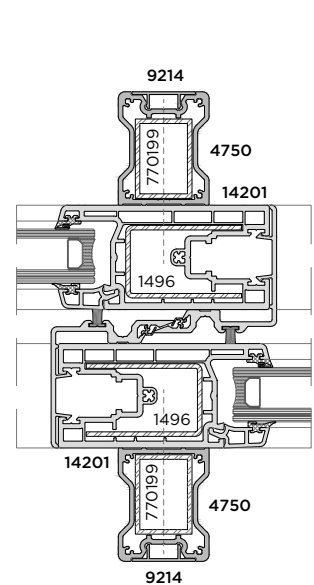
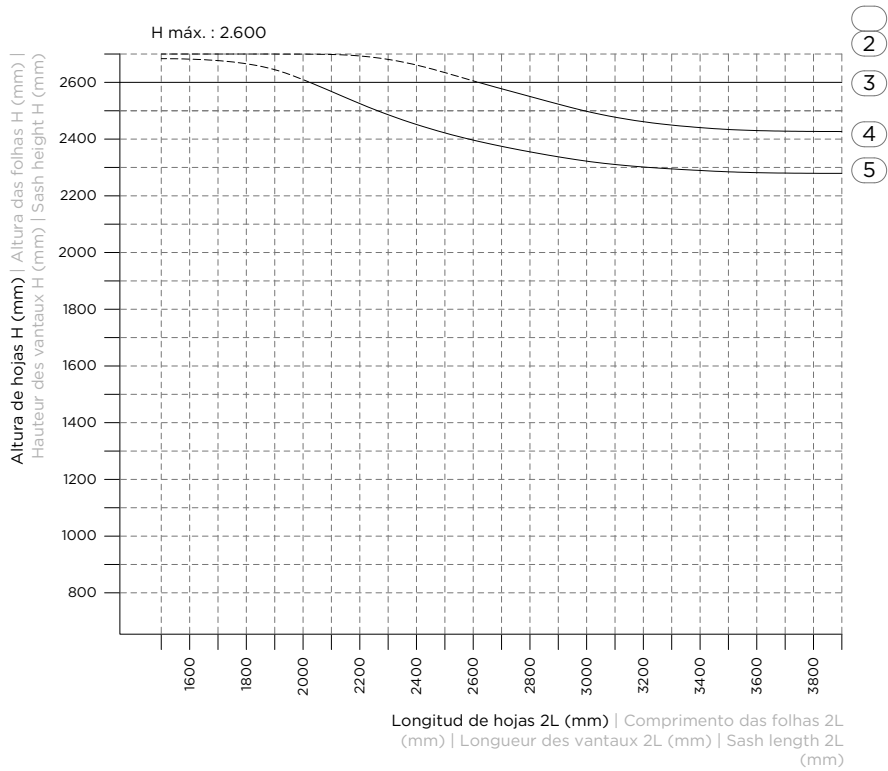
- 1 - 400 Pa - 93 km/h
- 2 - 800 Pa - 131 km/h
- 3 - 1200 Pa - 161 km/h
- 4 - 1600 Pa - 186 km/h
- 5 - 2000 Pa - 208 km/h



	L máx.	H máx.
Perfiles en Blanco Perfis em Branco	1.800	2.600
Perfiles en Color Perfis em Cor	1.700	2.600



Nudo central reforzado - Balconera corredera | Nó central reforçado - Sacada de correr | Chicane centrale renforcée - Porte-fenêtre coulissante | Reinforced interlock - Sliding balcony door



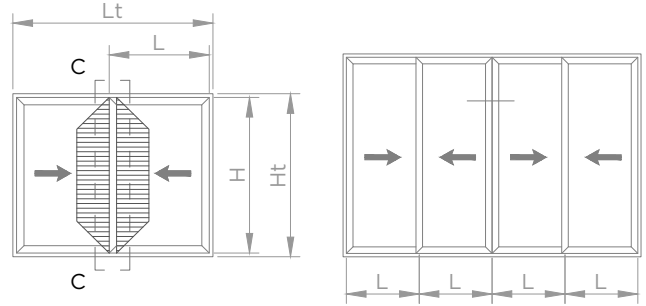
Ixx (cm⁴) = 119,18
 (con refuerzo 770199)
 (com reforço 770199)

Encuentro entre hojas - Balconera corredera | Encontro entre folhas - Sacada de correr | Rencontre entre vantaux - Porte-fenêtre coulissant | Meeting stile - Sliding balcony door

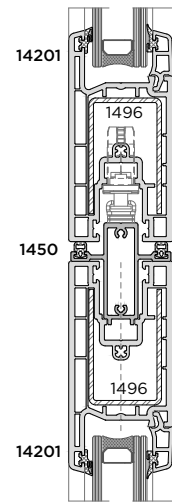
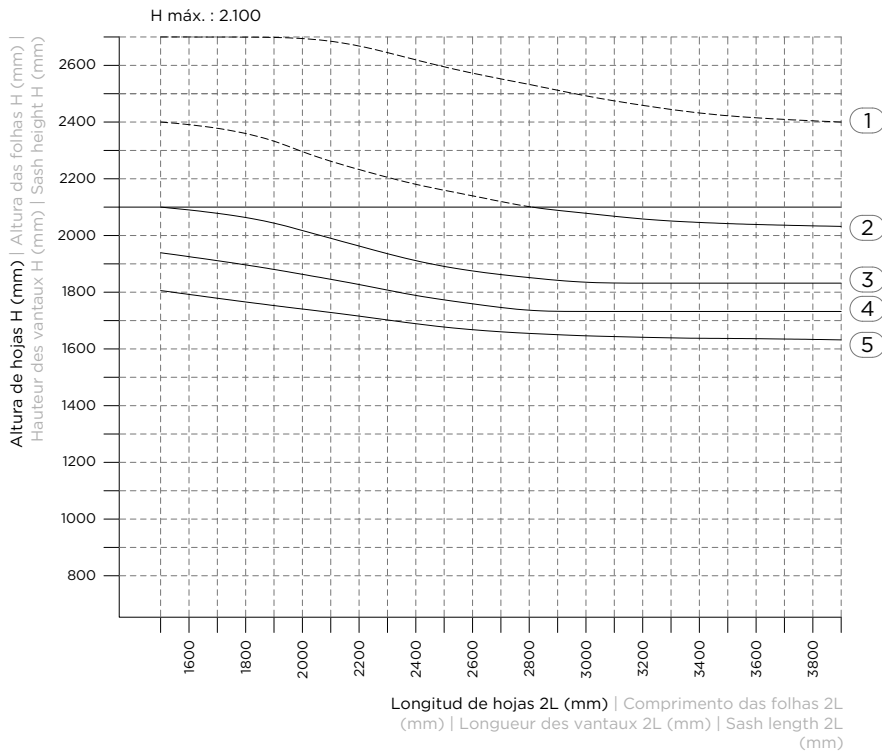
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	L máx.	H máx.
Perfiles en Blanco Perfis em Branco	1.700	2.100
Perfiles en Color Perfis em Cor	1.600	1.900



Ixx (cm⁴) = 12,07

Encuentro entre hojas reforzado - Balconera corredera | Encontro entre folhas reforçado - Sacada de correr | Rencontre entre vantaux renforcée - Porte-fenêtre coulissante | Reinforced meeting stile - Sliding balcony door

MÓDULO ELÁSTICO O DE YOUNG, CÁLCULOS Y VALORES DE INERCIA:
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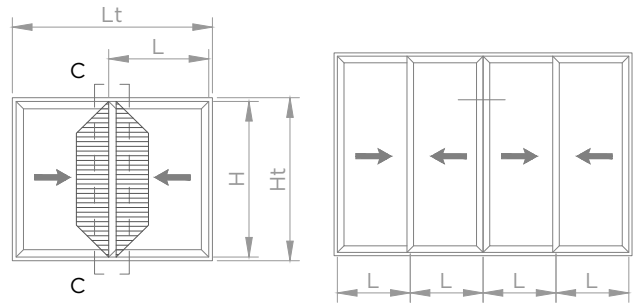
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 COM PERFIL DE ALUMÍNIO:
 E = 70.000 N/mm²

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 AVEC ACIER GALVANISÉ :
 E = 210.000 N/mm²
 avec profilé d'aluminium :
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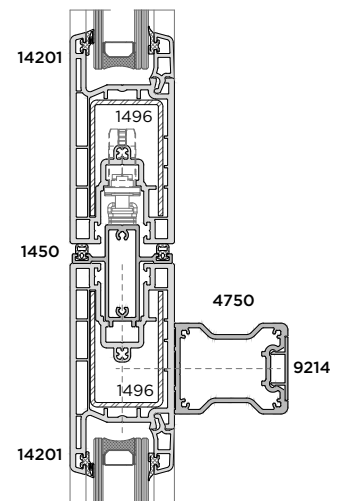
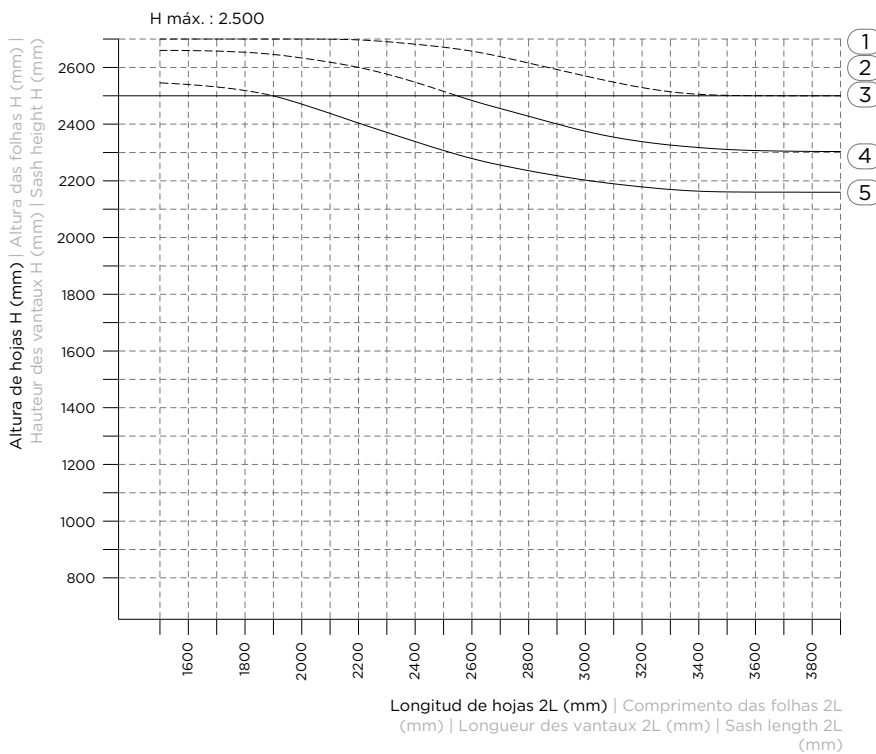
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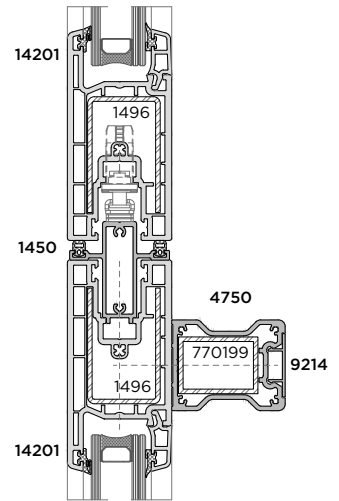
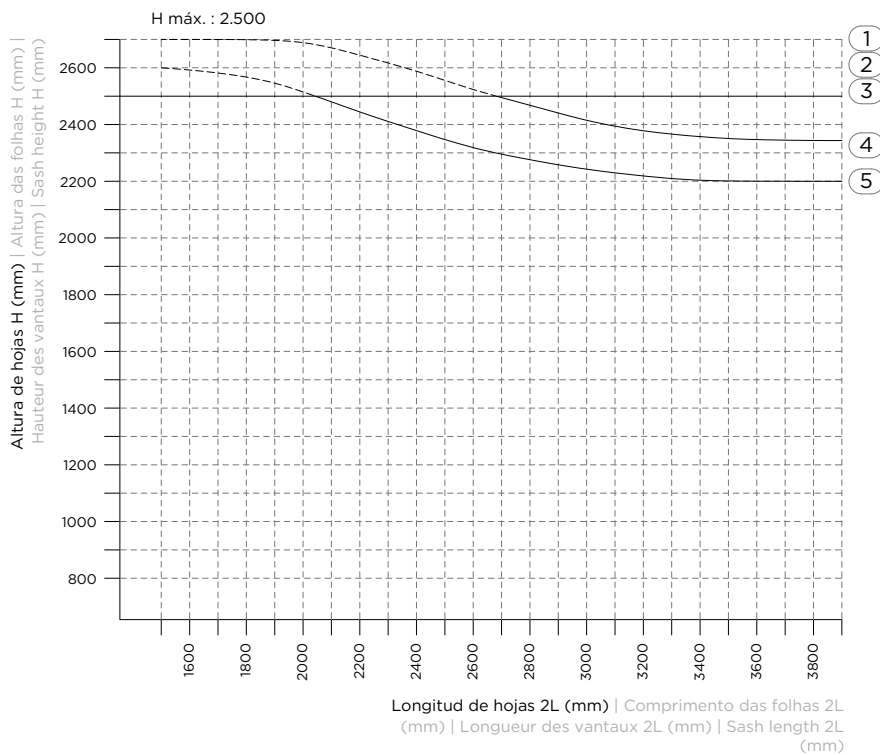


	L máx.	H máx.
Perfiles en Blanco Perfis em Branco	1.700	2.500
Perfiles en Color Perfis em Cor	1.600	2.400



Ixx (cm⁴) = 78,66

Encuentro entre hojas reforzado - Balconera corredera | Encontro entre folhas reforçado - Sacada de correr | Rencontre entre vantaux renforcée - Porte-fenêtre coulissante | Reinforced meeting stile - Sliding balcony door



Ixx (cm⁴) = 90,66
 (con refuerzo 770199)
 (com reforço 770199)

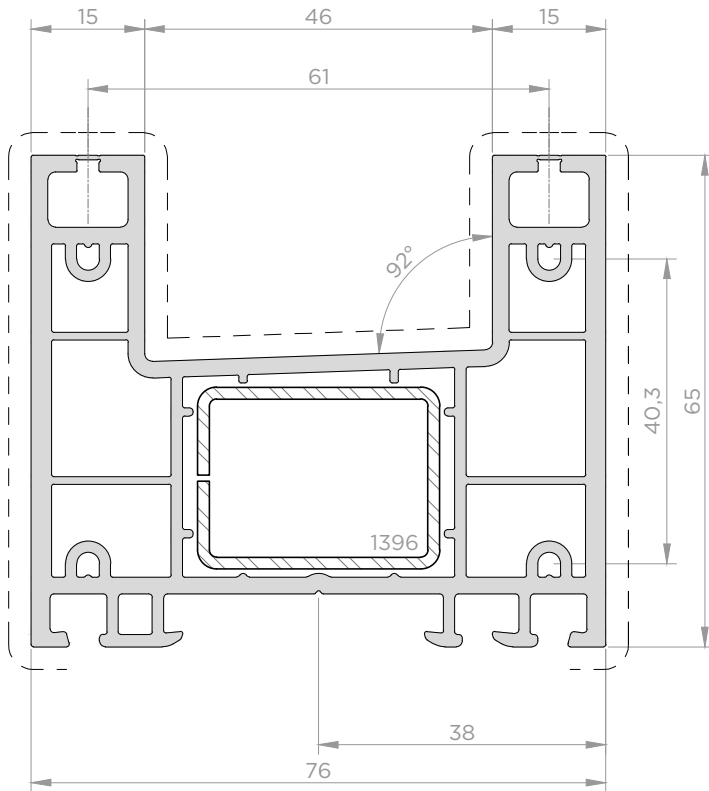
STRUGAL OMNIA

RELACIÓN DE PERFILES

Relação de perfis

Liste de profilés

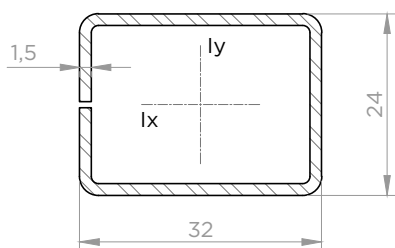
List of profiles



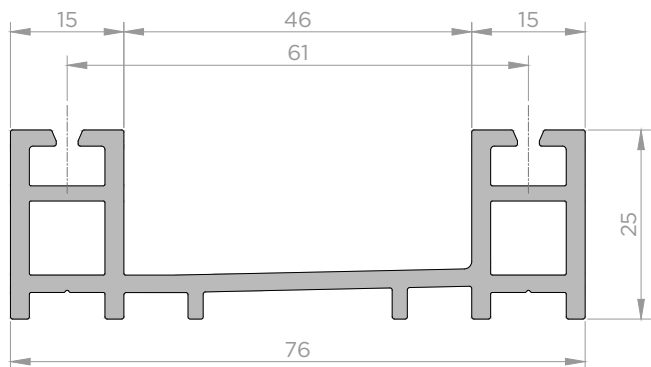
11761	Marco corredera 76 mm Aro de correr 76 mm		
Material Material	PVC		
Refuerzo Reforços		1396	
Carril Carril	1435		
Cortavientos Corta-ventos	311033		/31 
Conector-Tapa Conector-tampa	311013		/11 

----- Caras para ser foliadas.
Fases para serem foliadas.

  BL
Negro Blanco

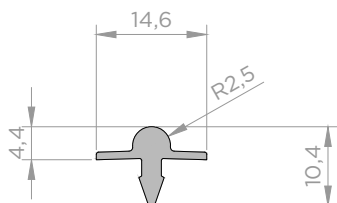


1396	Refuerzo de 32x24 mm Reforço de 32x24 mm			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.201,00			
Inercia (cm ⁴) Inércia (cm ⁴)	Ixx	1,39	Iyy	2,14



7479	Marco umbral 76 mm Aro soleira 76 mm Dormant seuil 76 mm Threshold frame 76 mm
Material Material	Aluminio anodizado natural Aluminio anodização natural
Carril Carril	1435
Cortavientos Corta-ventos	311043 ■ /41 BL
Conector-Tapa Conector-tampa	311053 ■ /51 BL

■ BL
Negro Blanco



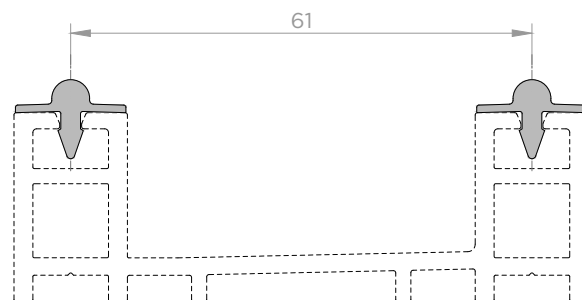
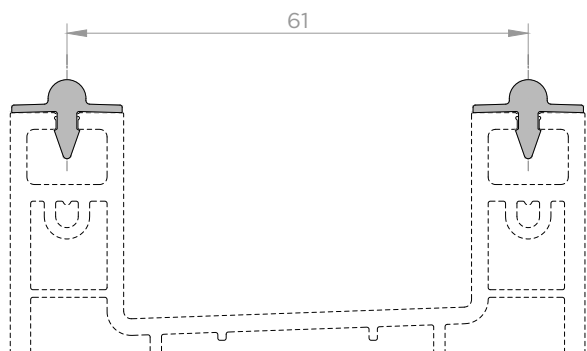
1435	Carril marco corredera Carril aro corredeira Rail dormant coulissant Sliding frame rail
Material Material	Aluminio (*) Alumínio (*)

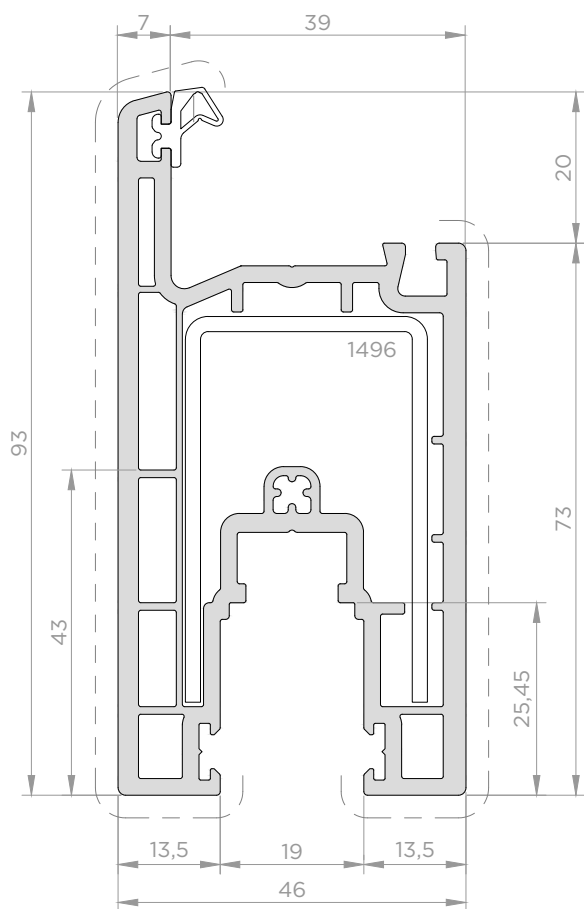
(*) Carril aluminio Anodizado Natural en PVC blanco y carril aluminio Anodizado Bronce colocado en PVC color. Para Marco Umbral (7479) siempre carril aluminio en anodizado natural.










(*) Carril aluminio Anodizado Natural em PVC branco e carril alumínio Anodizado Bronce colocado em PVC cor. Para Aro Soleira (7479) sempre carril alumínio em anodizado natural.

(*) Rail aluminium Anodisé Naturel sur PVC blanc et rail aluminium Anodisé Bronze sur PVC couleur. Pour Dormant Seuil (7479), toujours rail aluminium en anodisé naturel.



(*) Natural Anodized aluminum rail on white PVC and Bronze Anodized aluminum rail on colored PVC. For Threshold Frame (7479), always natural anodized aluminum rail.





14201	Hoja balconera corredera Folha sacada corrediça Ouvrant porte-fenêtre coulissant Sliding balcony sash		
Material Material	PVC de co-extrusión PVC de coextrusão		
Refuerzo Reforços		1496	
Juntas Juntas		361301  /02  371303  C	
Felpas Pelúcias		950020  /21 	
Asiento vidrio Assento vidro		361400	

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

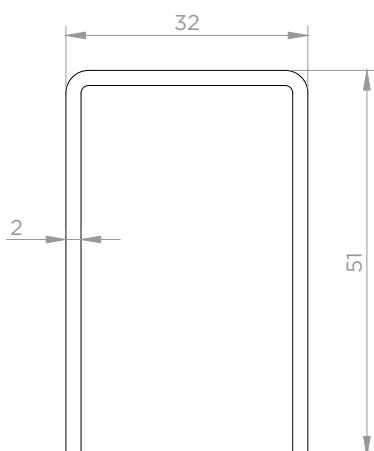
   
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

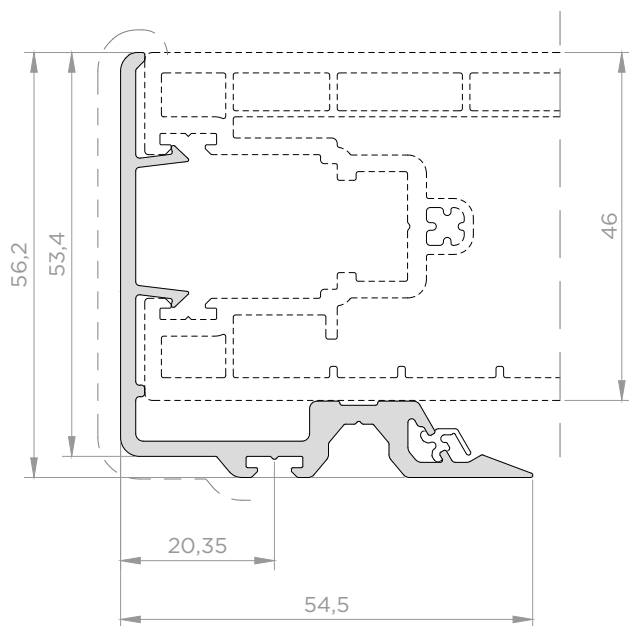
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note:
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1496	Refuerzo "U" 33x51 mm Reforço "U" 33x51 mm Renfort en "U" 33x51 mm "U" Reinforcement 33x51 mm			
Material Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.214,30			
Inercia (cm ⁴) Inércia (cm ⁴)	Ixx	6,93	Iyy	4,88



11771	Tapeta cruce hojas Perfil de remate de cruzamento de folhas Chicane de croisement Interlock cover	
Material Material	PVC de co-extrusión PVC de coextrusão	
Juntas Juntas		
Felpas Pelúcias		950020 ■ /21 ■
Juego tapetas Conjunto remates		331450 ■ /51 [BL]

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

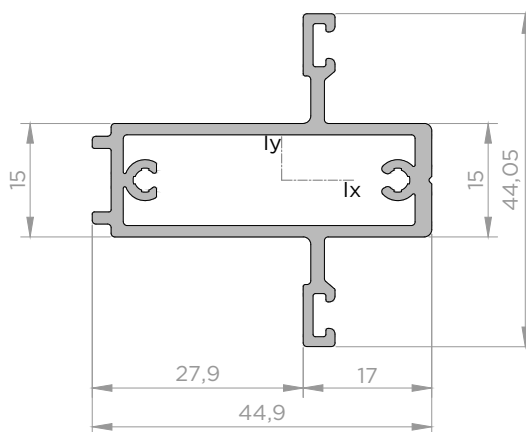
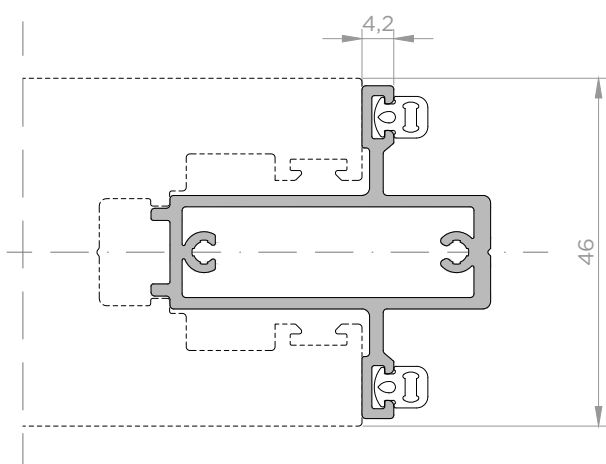
■ [BL] [M] [C]
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

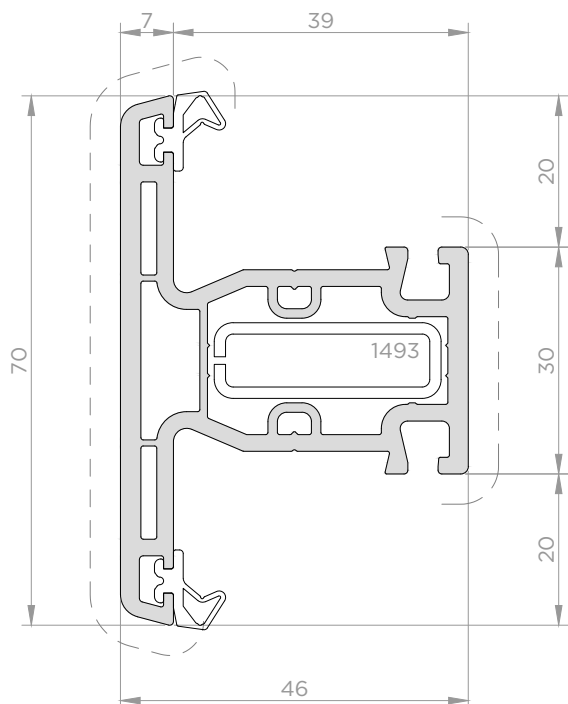
Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramelo pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noir

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1450	Unión de 4 hojas União de 4 folhas Jonction de 4 ouvrants 4-sash joint	
Material Material	Aluminio Alumínio	
Juntas Juntas		240137 (EPDM) ■

Disponibile sólo en blanco y negro | Disponível apenas em preto e branco | Disponible uniquement en blanc et noir | Available only in black and white.



14551	Travesaño divisor hoja corredera Travessa divisória folha corrediça Traverser intermédiaire d'ouvrant coulissant Sliding sash transom		
Material Material	PVC de co-extrusión PVC de coextrusão		
Refuerzo Reforços		1493	
Juntas Juntas		361301 /02 371303 [C]	
Asiento vidrio Assento vidro		361400	
Topes Batentes	351450 (Metal)		

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

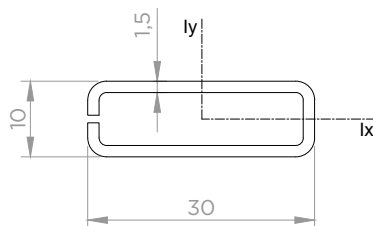


Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

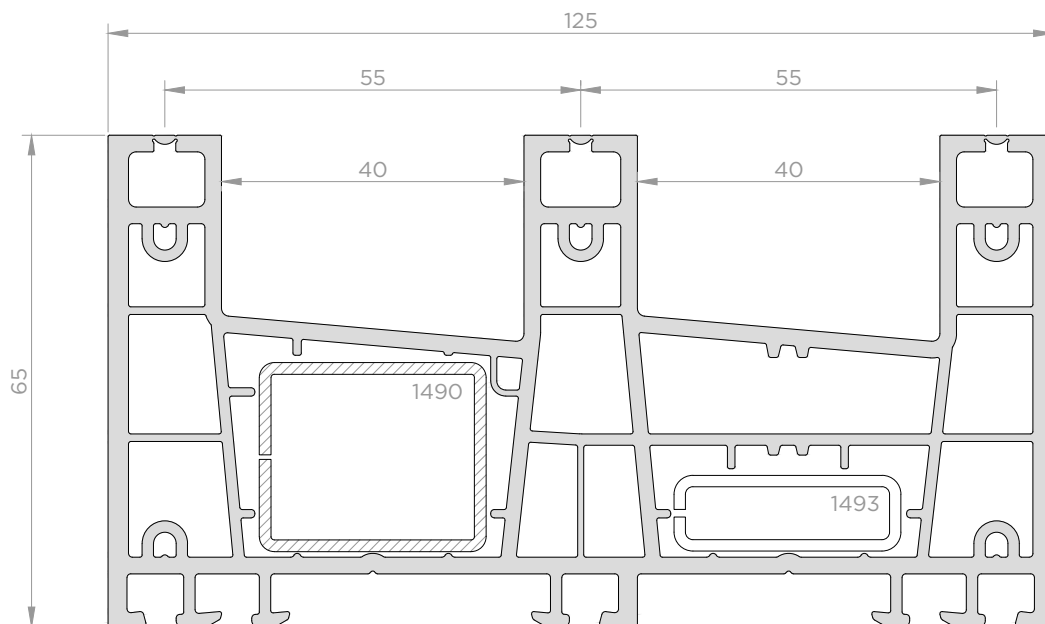
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



1493	Refuerzo de 30x10 mm Reforço de 30x10 mm Renfort de 30x10 mm Reinforcement 30x10 mm			
Material Material	Acero galvanizadoDX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	824,20			
Inercia (cm ⁴) Inércia (cm ⁴)	lxx	0,16	lyy	0,97



Negro
 BL Blanco
 M Marrón
 C Caramelo

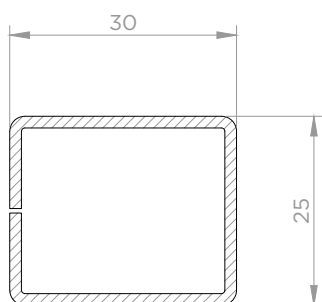
Nota:
El marco corredera de tres carriles, en cualquier acabado foliado no se recubre ninguno de los dos galces del perfil.

Nota:
O marco de correr de três carris, em qualquer acabamento foliado, não recobre nenhum dos dois encaixes do perfil.

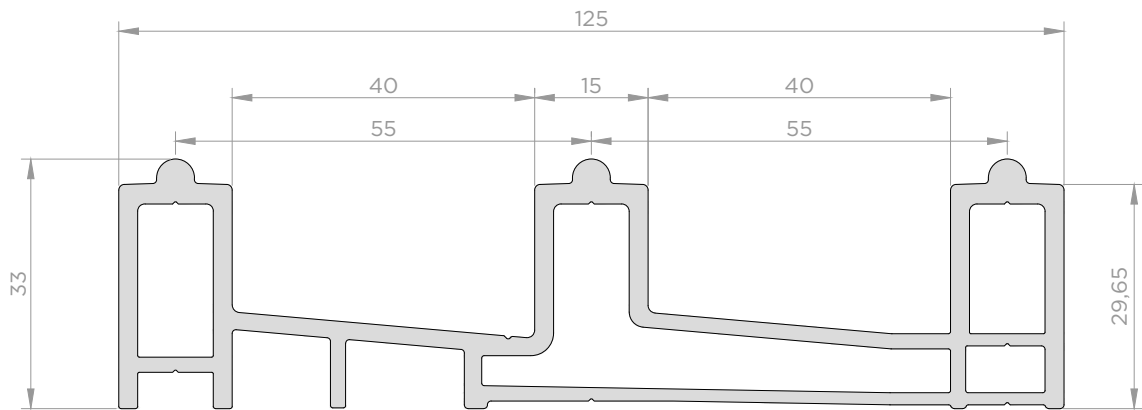
Note :
Le cadre coulissant à trois rails, dans toute finition plaxée, ne recouvre aucun des deux feuillures du profil.

Note:
The three-track sliding frame, in any foil finish, does not cover either of the two rebates of the profile.

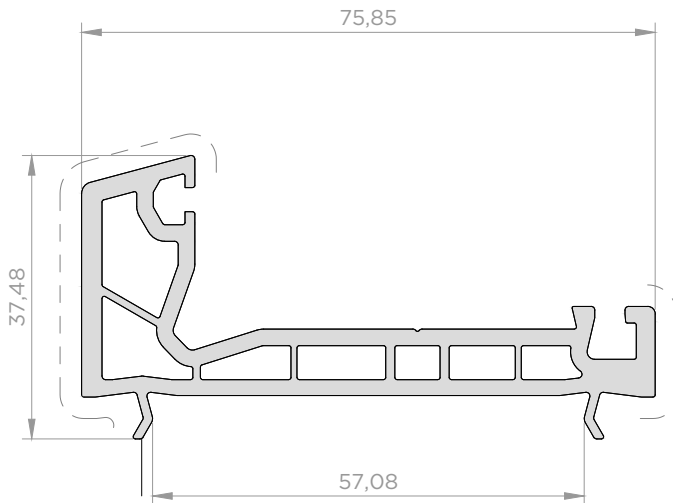
14331	Marco corredera tres carriles Aro corrediça de três carris Dormant coulissant trois rails Three-track sliding frame		
Material Material	PVC PVC		
Refuerzo Reforços		1493	
		1490	
Juntas Juntas		361301 /02 	
		371303 	



1490	Refuerzo de 30x25 mm Reforço de 30x25 mm Renfort de 30x25 mm Reinforcement 30x25 mm			
Material Material	Acero galvanizado DX51D -Z140 Aço galvanizado DX51D -Z140			
Peso (gr/m) Peso (gr/m)	1.177,4			
Inercia (cm⁴) Inércia (cm ⁴)	Ixx	1,44	Iyy	1,89



1434	Marco umbral de tres carriles Aro soleira de três carris Dormant seuil trois rails Three-track threshold frame
Material Material	Aluminio anodizado natural Aluminio anodização natural



11461	Marco para fijo (cajón catalán) Aro para fijo (caixilho catalão) Dormant pour châssis fixe (cadre catalan) Fixed frame (Catalan box/frame)
Material Material	PVC PVC
Juntas Juntas	361301 /02 371303
Asiento vidrio Assento vidro	361400

--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

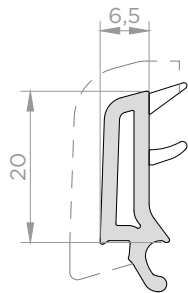
Negro BL M C
Negro Blanco Marrón Caramelo

Nota:
El perfil viene con juntas soldables.
Junta en color gris para perfiles con base en blanco.
Junta en color caramelo para perfiles con base en caramelo.
Junta en color negro para perfiles con base en marrón y negro

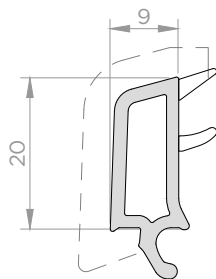
Nota:
O perfil é fornecido com juntas soldáveis.
Junta de cor cinzenta para perfis com base branca.
Junta de cor caramelo para perfis com base caramelo.
Junta de cor preta para perfis com base castanha e preta

Note :
Le profil est fourni avec des joints soudables.
Joint de couleur grise pour les profils à base blanche.
Joint de couleur caramel pour les profils à base caramel.
Joint de couleur noire pour les profils à base marron et noire

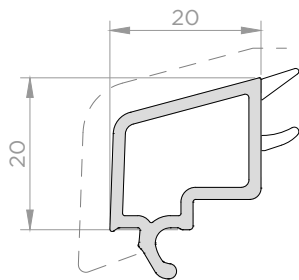
Note:
The profile is supplied with weldable gaskets.
Grey gasket for profiles with white base.
Caramel gasket for profiles with caramel base.
Black gasket for profiles with brown and black base.



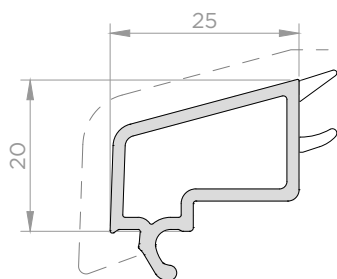
16001	Junquillo de 6,5 mm Bago de 6,5 mm Parclose de 6,5 mm 6.5 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão
Juntas Juntas	351222



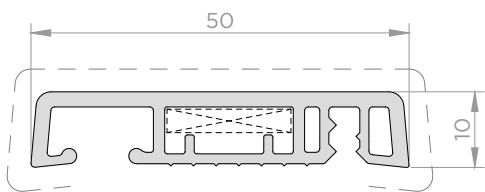
16011	Junquillo de 9 mm Bago de 9 mm Parclose de 9 mm 9 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão
Juntas Juntas	351222



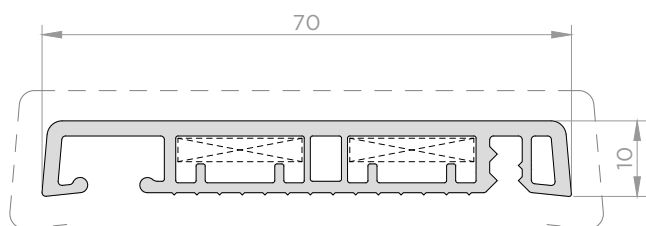
16031	Junquillo de 20 mm Bago de 20 mm Parclose de 20 mm 20 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



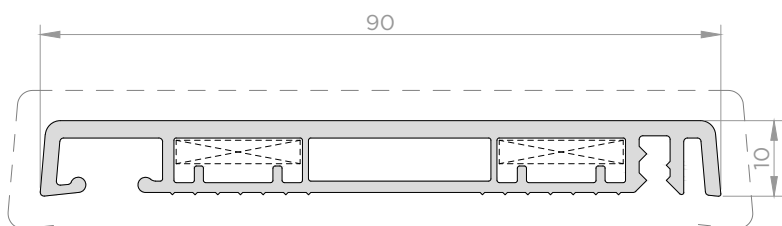
16041	Junquillo de 25 mm Bago de 25 mm Parclose de 25 mm 25 mm glazing bead
Material Material	PVC de co-extrusión PVC de coextrusão



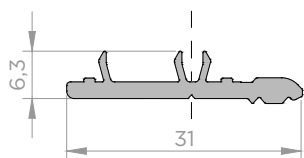
12351	Solape de 50 mm Aba de 50 mm Recouvrement (ou Clameau) de 50 mm 50 mm Cover trim (or Flange)
Material Material	PVC
Escuadra Esquadro	207004
Tornillo Parafuso	331250



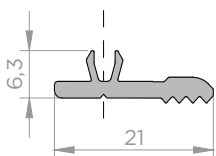
12371	Solape de 70 mm Aba de 70 mm Recouvrement (ou Clameau) de 70 mm 70 mm Cover trim
Material Material	PVC
Escuadra Esquadro	207004
Tornillo Parafuso	331250



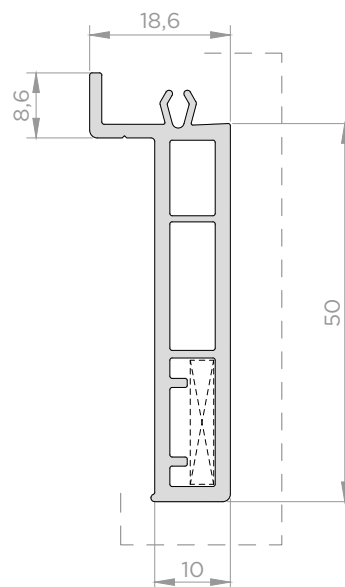
12391	Remate de 90 mm Remate de 90 mm Profil de finition de 90 mm 90 mm Finishing trim (or Architrave)
Material Material	PVC
Escuadra Esquadro	207004
Tornillo Parafuso	331250



1236	Grapa solape Grampo de aba Clip de recouvrement Cover trim clip
Material Material	Aluminio Aluminio
Escuadra Esquadro	361236 (corte 50 mm)
Tornillo Parafuso	341121

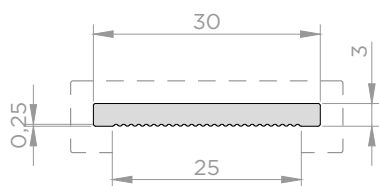


1234	Grapa solape ap. exterior Grampo de aba ap. exterior Clip de recouvrement ouvrant extérieur Outward opening cover trim clip
Material Material	Aluminio Aluminio
Escuadra Esquadro	361236 (corte 50 mm)
Tornillo Parafuso	341121

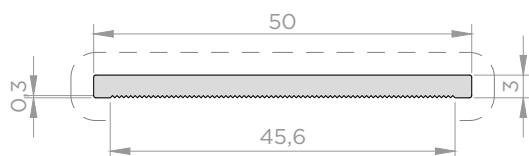


12201	Solape enrasado de 50 mm Aba nivelada de 50 mm Recouvrement affleurant de 50 mm 50 mm Flush cover trim
Material Material	PVC
Escuadra Esquadro	207004

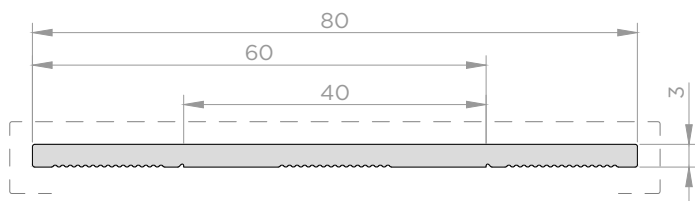
--- Caras para ser foliadas
| Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



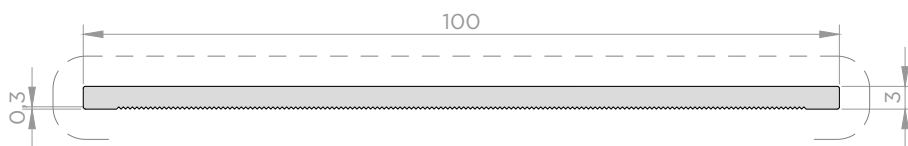
12231	Pletina 30x3 mm Platina 30x3 mm Platine 30x3 mm 30x3 mm Flat bar
Material	PVC



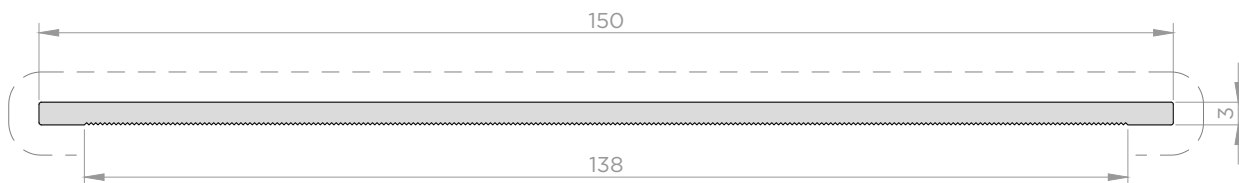
12251	Pletina 50x3 mm Platina 50x3 mm Platine 50x3 mm 50x3 mm Flat bar
Material	PVC



12221	Pletina 80x3 mm Platina 80x3 mm Platine 80x3 mm 80x3 mm Flat bar
Material	PVC

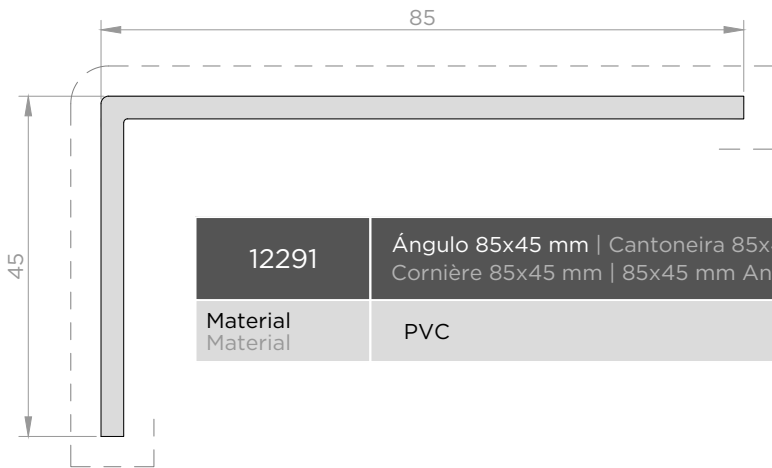


12271	Pletina 100x3 mm Platina 100x3 mm Platine 100x3 mm 100x3 mm Flat bar
Material	PVC

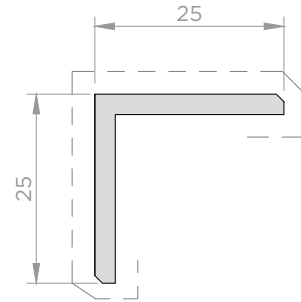


12281	Pletina 150x3 mm Platina 150x3 mm Platine 150x3 mm 150x3 mm Flat bar
Material	PVC

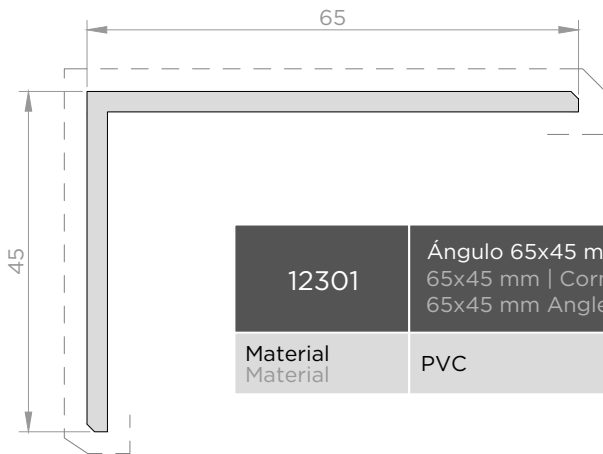
--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



12291	Ángulo 85x45 mm Cantoneira 85x45 mm Cornière 85x45 mm 85x45 mm Angle profile
Material Material	PVC



12211	Ángulo 25x25 mm Cantoneira 25x25 mm Cornière 25x25 mm 25x25 mm Angle profile
Material Material	PVC

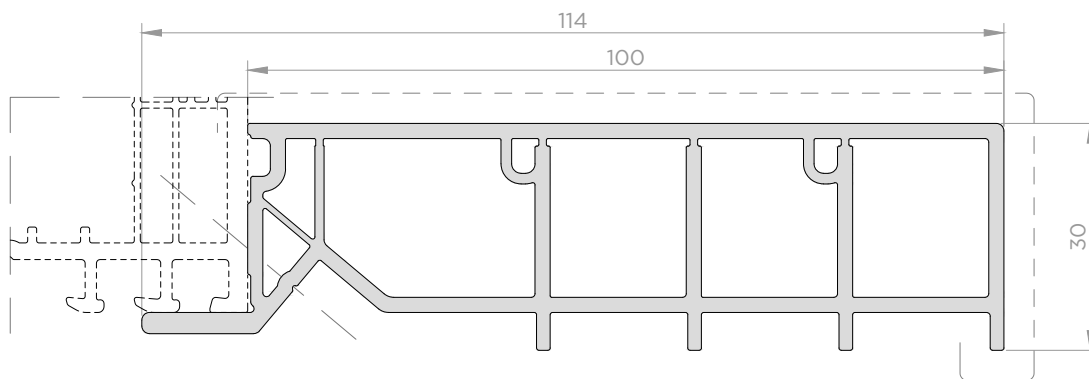


12301	Ángulo 65x45 mm Cantoneira 65x45 mm Cornière 65x45 mm 65x45 mm Angle profile
Material Material	PVC

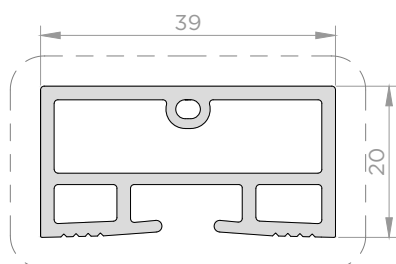


12331	Ángulo 100x60 mm Cantoneira 100x60 mm Cornière 100x60 mm 100x60 mm Angle profile
Material Material	PVC

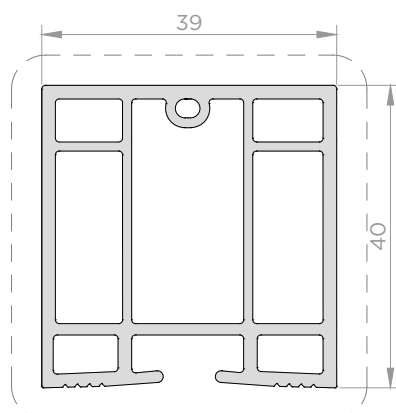
----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



13741	Recercado de marcos 100 mm Moldura de caixilho 100 mm Chambranle de 100 mm 100 mm Frame surround
Material Material	PVC

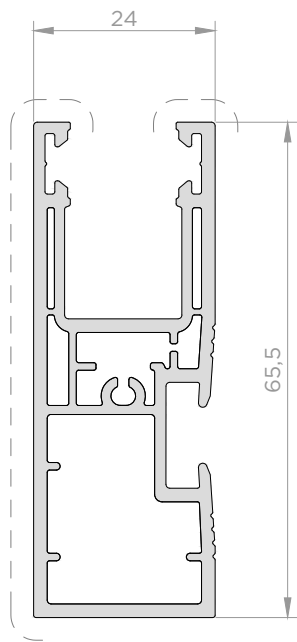


1285	Ampliación guía 20 mm Extensão de guia 20 mm Extension de rail 20 mm 20 mm Rail extension
Material Material	PVC



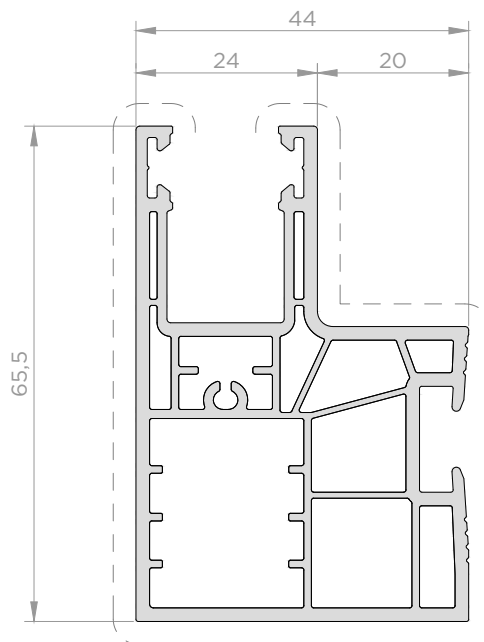
1286	Ampliación guía 40 mm Extensão de guia 40 mm Extension de rail 40 mm 40 mm Rail extension
Material Material	PVC

--- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



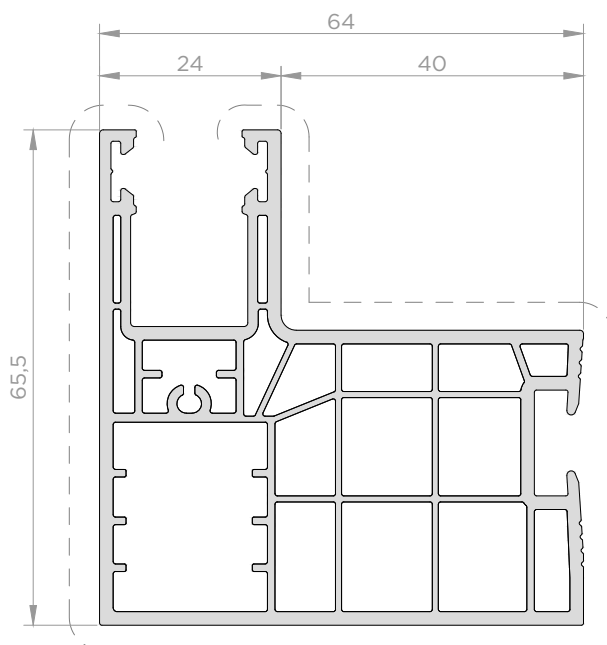
11871	Guía persiana de 24 mm Guia de estore de 24 mm Coulisse de volet 24 mm 24 mm Shutter guide rail
Material Material	PVC

----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



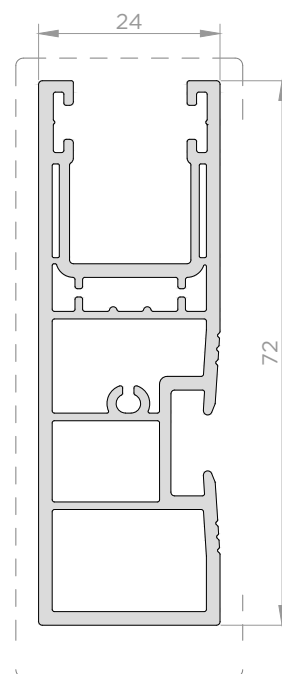
11441	Guía persiana de 44 mm Guia de estore de 44 mm Coulisse de volet 44 mm 44 mm Shutter guide rail
Material Material	PVC

----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



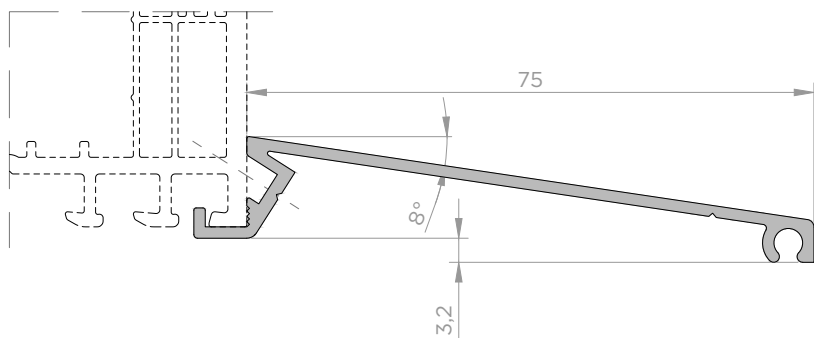
11641	Guía persiana de 64 mm Guia de estore de 64 mm Coulisse de volet 64 mm 64 mm Shutter guide rail
Material Material	PVC

----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

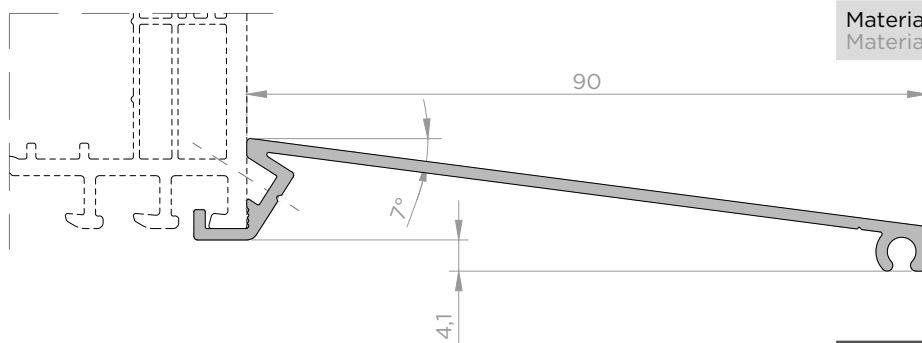


11431	Guía persiana cajón catalán Guia de estore para caixa tradicional Coulisse pour coffre traditionnel (Catalan) Guide rail for traditional "Catalan" shutter box
Material Material	PVC

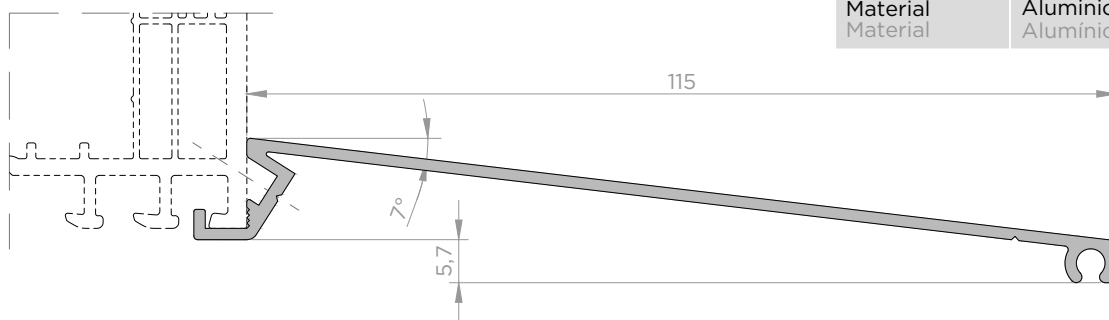
----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped



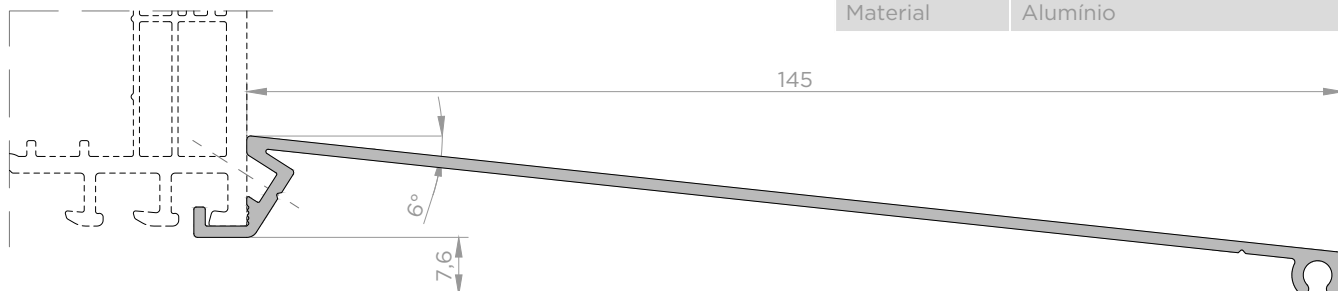
1275	Alargadera de 75 mm Alargador de 75 mm Allège de 75 mm 75 mm Frame extension
Material Material	Aluminio Alumínio



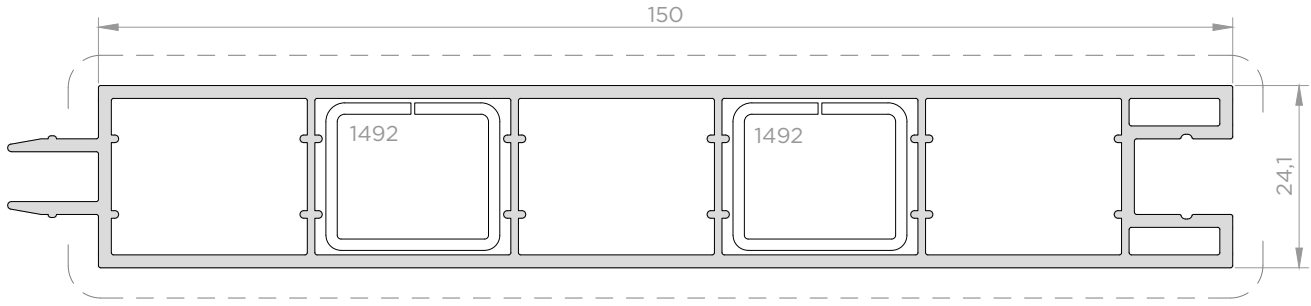
1274	Alargadera de 90 mm Alargador de 90 mm Allège de 90 mm 90 mm Frame extension
Material Material	Aluminio Alumínio



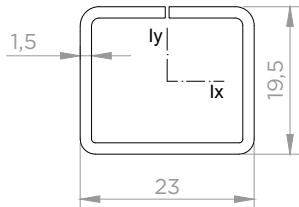
1276	Alargadera de 115 mm Alargador de 115 mm Allège de 115 mm 115 mm Frame extension
Material Material	Aluminio Alumínio



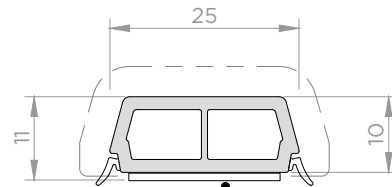
1278	Alargadera de 145 mm Alargador de 145 mm Allège de 145 mm 145 mm Frame extension
Material Material	Aluminio Alumínio



13801	Lama machihembrada de 150 mm Régua macho-fêmea de 150 mm Lame emboitable de 150 mm 150 mm Tongue and groove slat		
Material Material	PVC		
Refuerzo Reforços		1492	

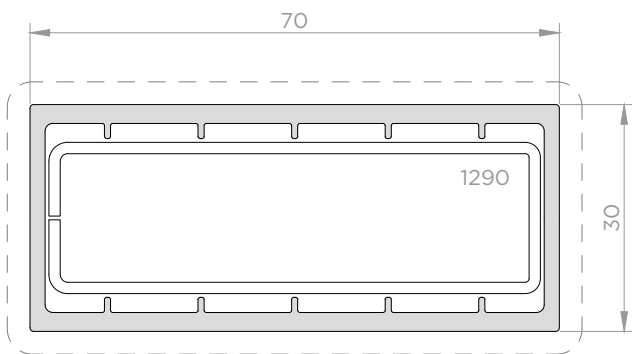



1492	Refuerzo de 23x19,5 mm Reforço de 23x19,5 mm Renfort de 23x19,5 mm 23x19.5 mm Steel reinforcement			
Material Material	Acero galvanizado DX51D - Z140 Aço galvanizado DX51D - Z140			
Peso (gr/m) Peso (gr/m)	883,10			
Inercia (cm ⁴) Inércia (cm ⁴)	Ixx	0,62	Iyy	0,82

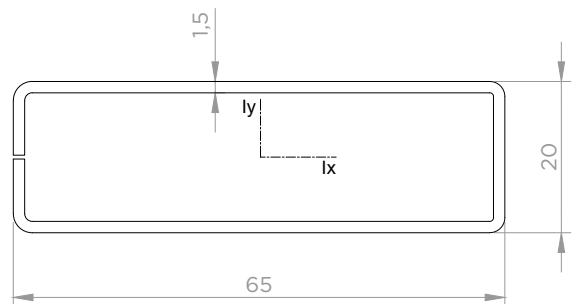


Cinta adhesiva 19x1mm (adhesivo doble cara)
Fita adesiva 19x1mm (adesivo nas duas faces)

13751	Barrotillo divisor 25 mm Barrotinho divisor 25 mm Petit-bois de 25 mm 25 mm Muntin bar	
Material Material	PVC	



12551	Tubo 70x30 mm Tubo 70x30 mm Tube 70x30 mm 70x30 mm Rectangular tube		
Material Material	PVC		
Refuerzo Reforços		1290	



1290	Refuerzo de 65x20 mm Reforço de 65x20 mm Renfort de 65x20 mm 65x20 mm Steel reinforcement			
Material Material	Acero galvanizado DX51D - Z140 Aço galvanizado DX51D - Z140			
Peso (gr/m) Peso (gr/m)	1.883,90			
Inercia (cm ⁴) Inércia (cm ⁴)	Ixx	1,75	Iyy	11,39

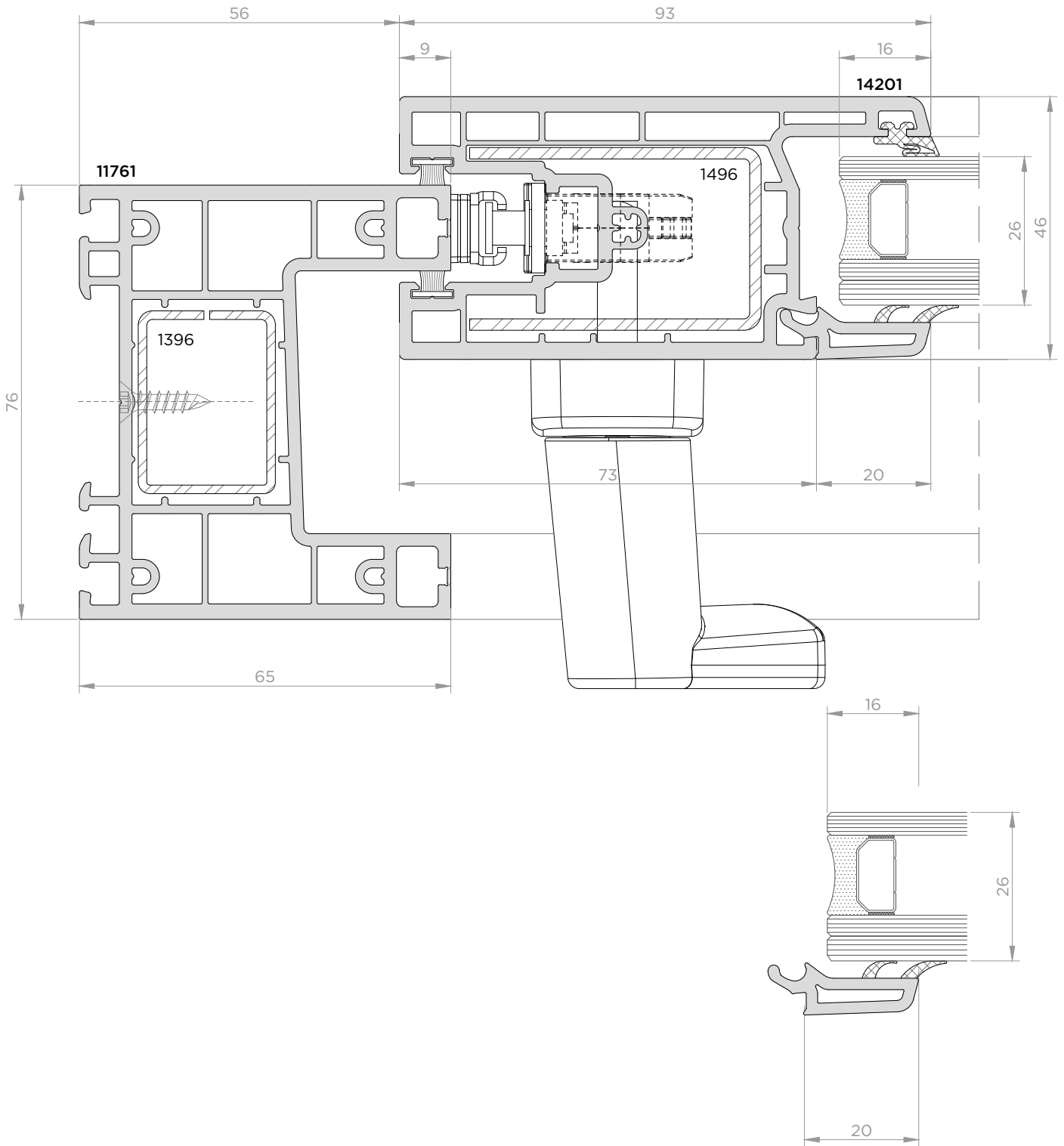
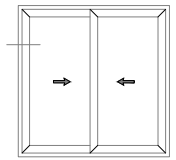
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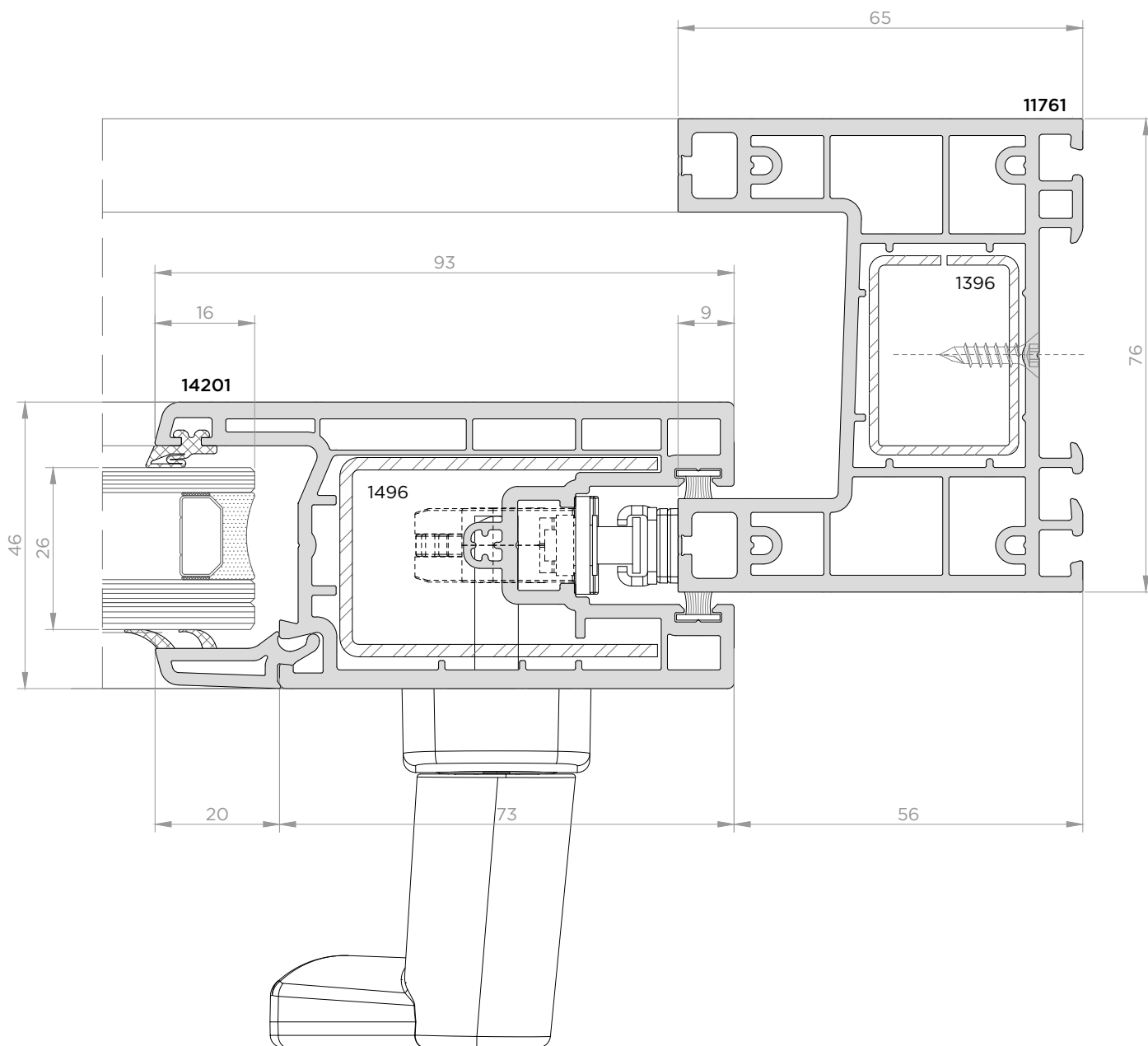
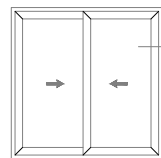
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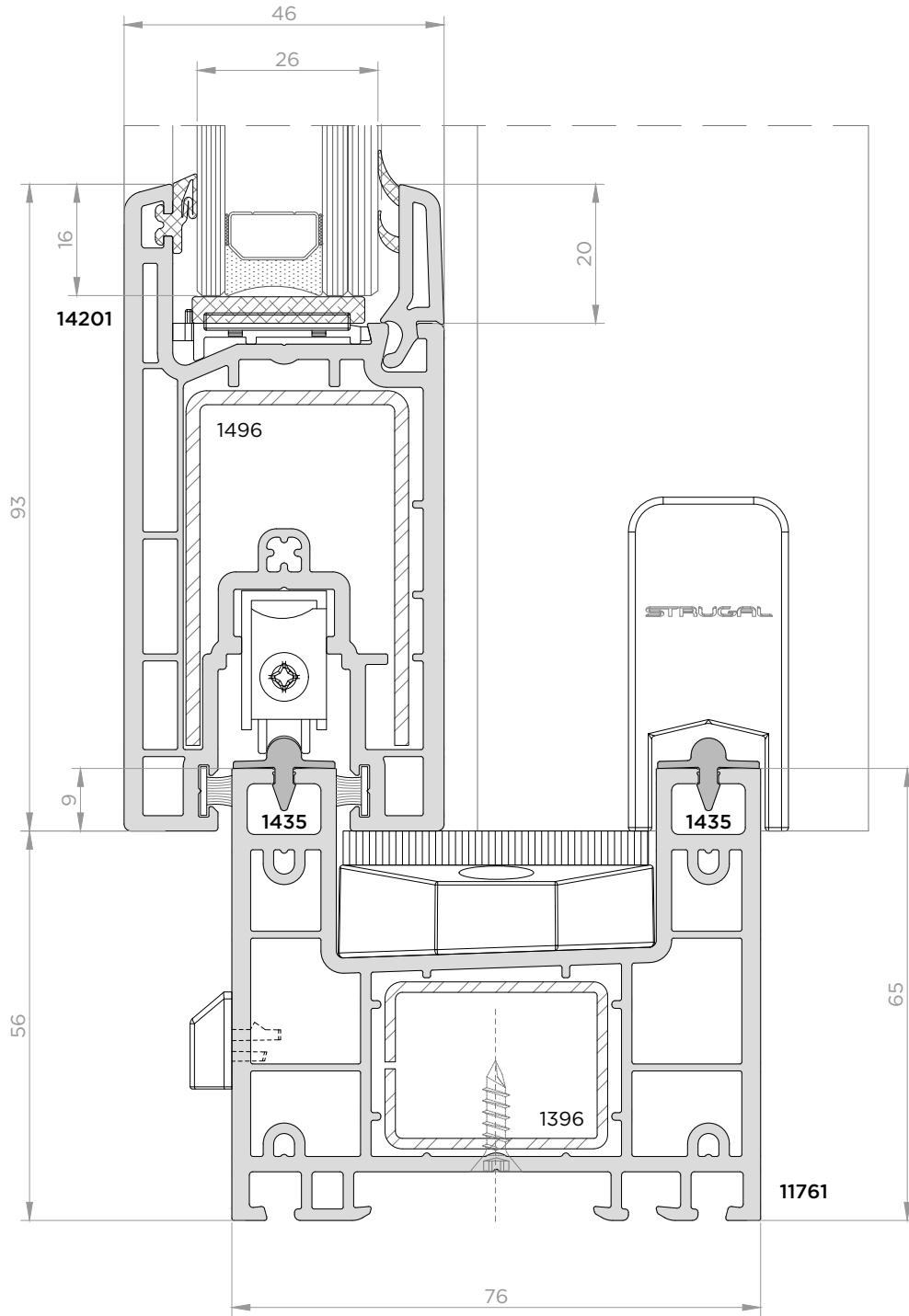
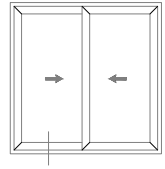
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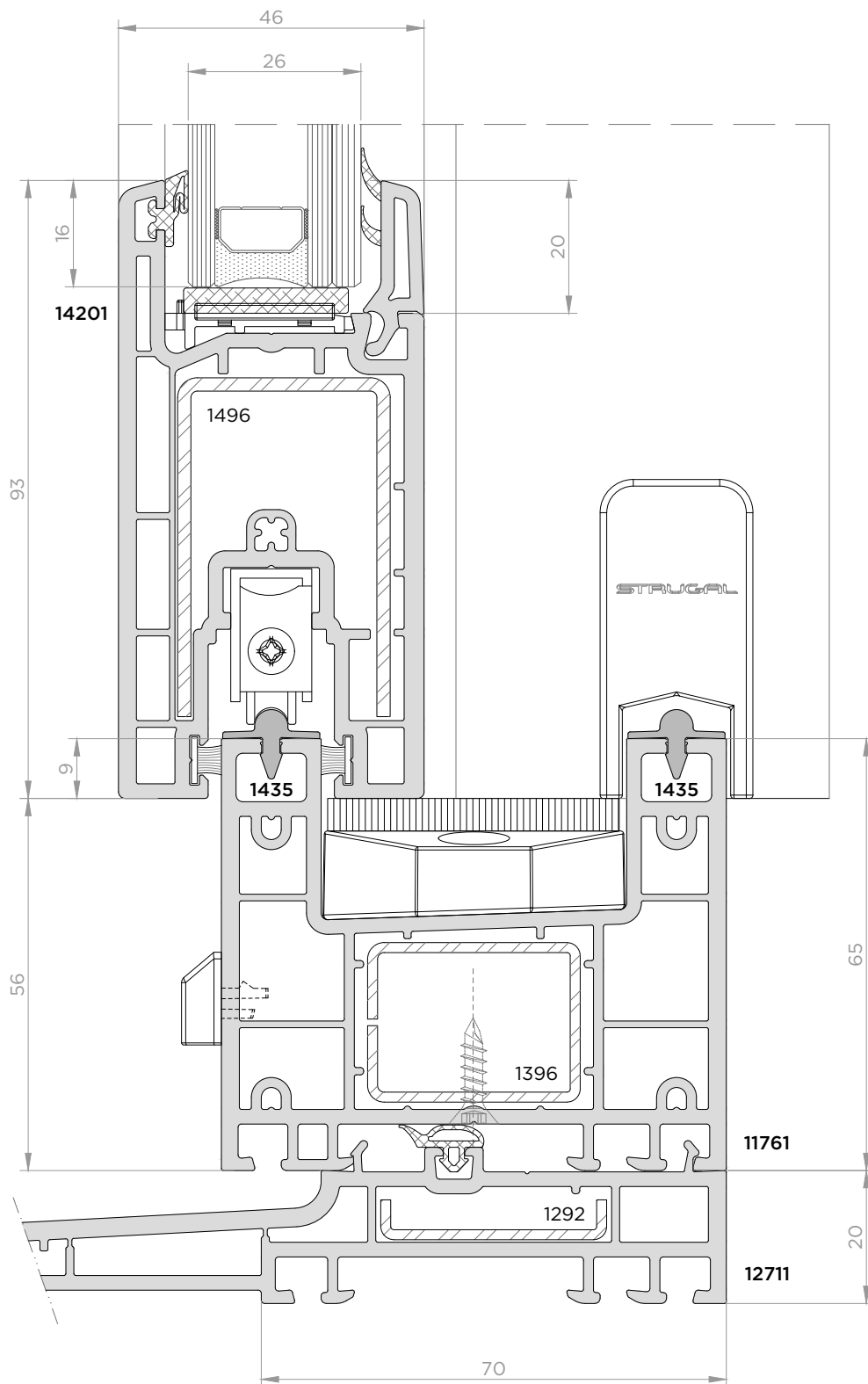
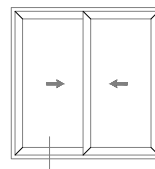
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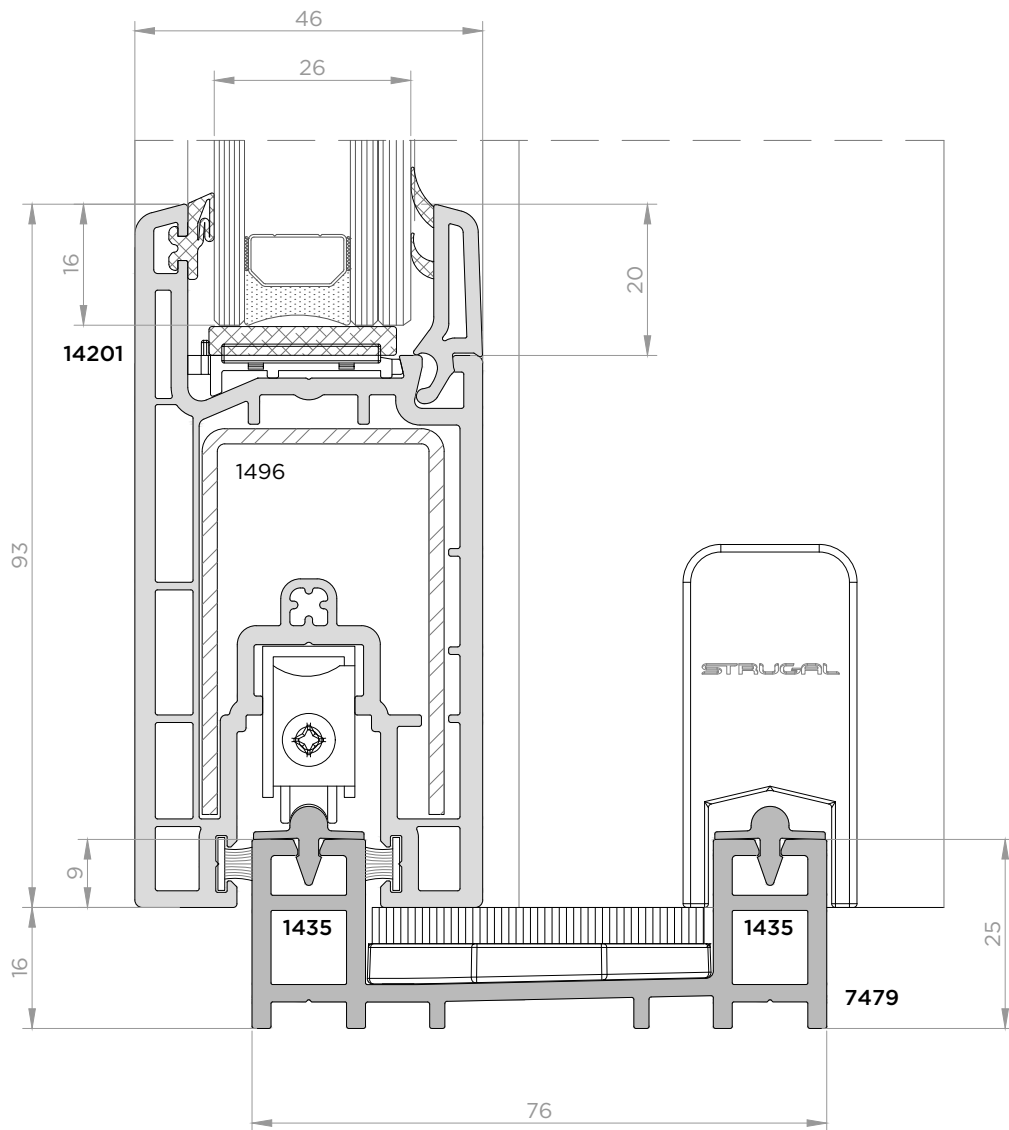
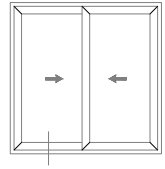
COMPONENTES Y SECCIONES

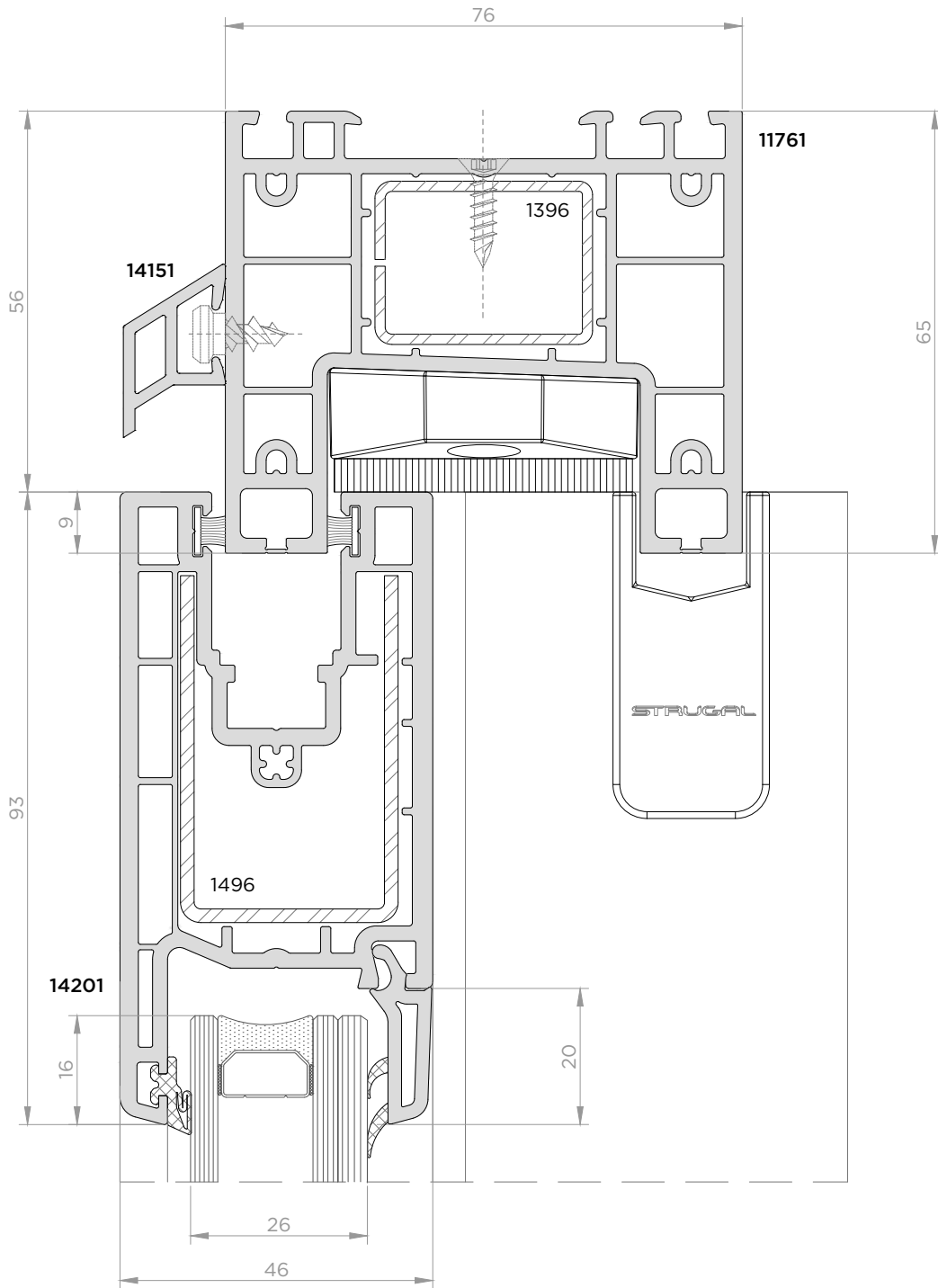
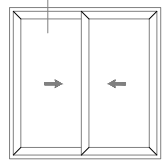


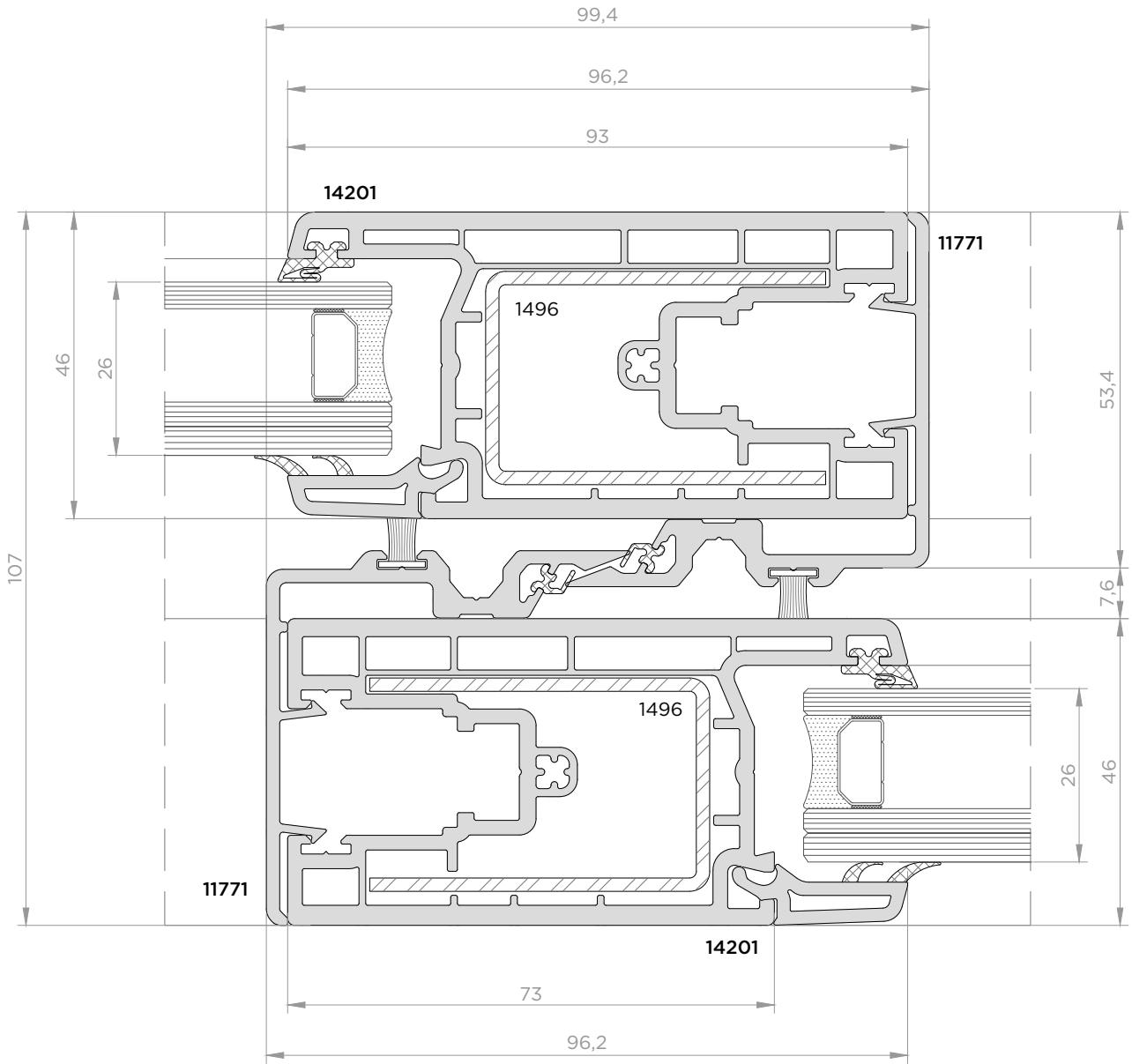
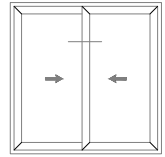


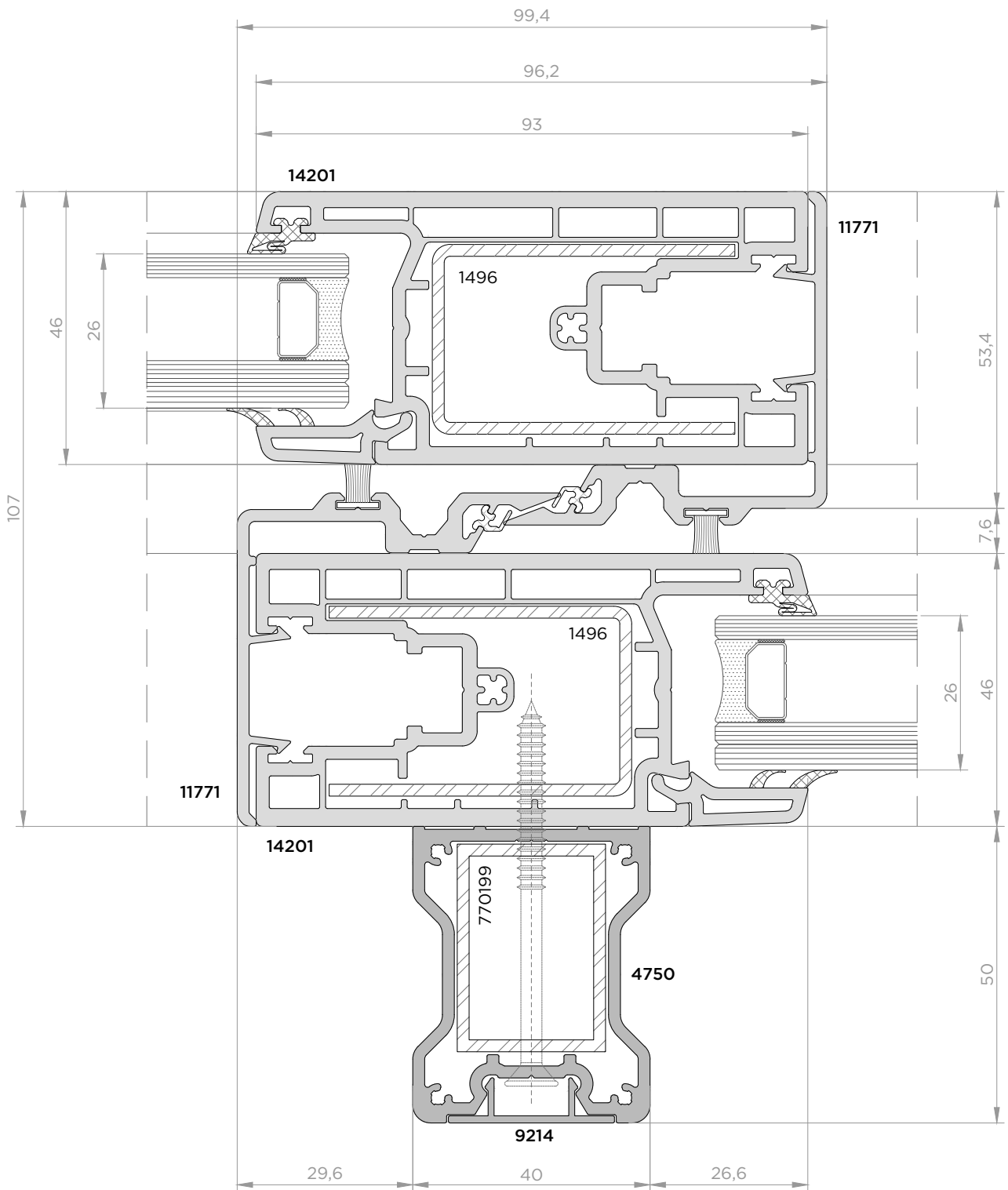
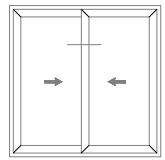


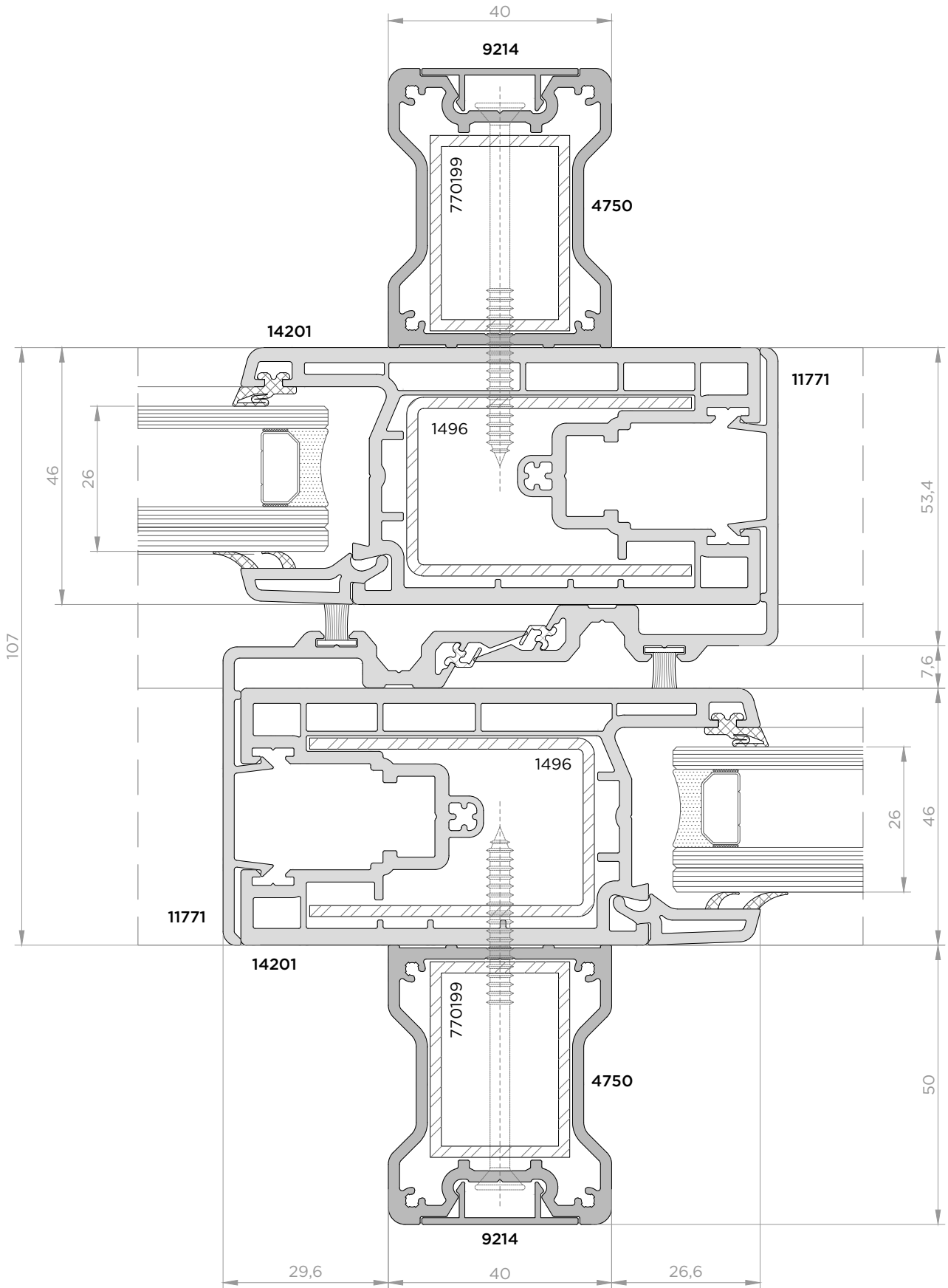
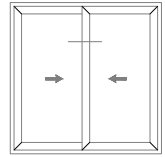


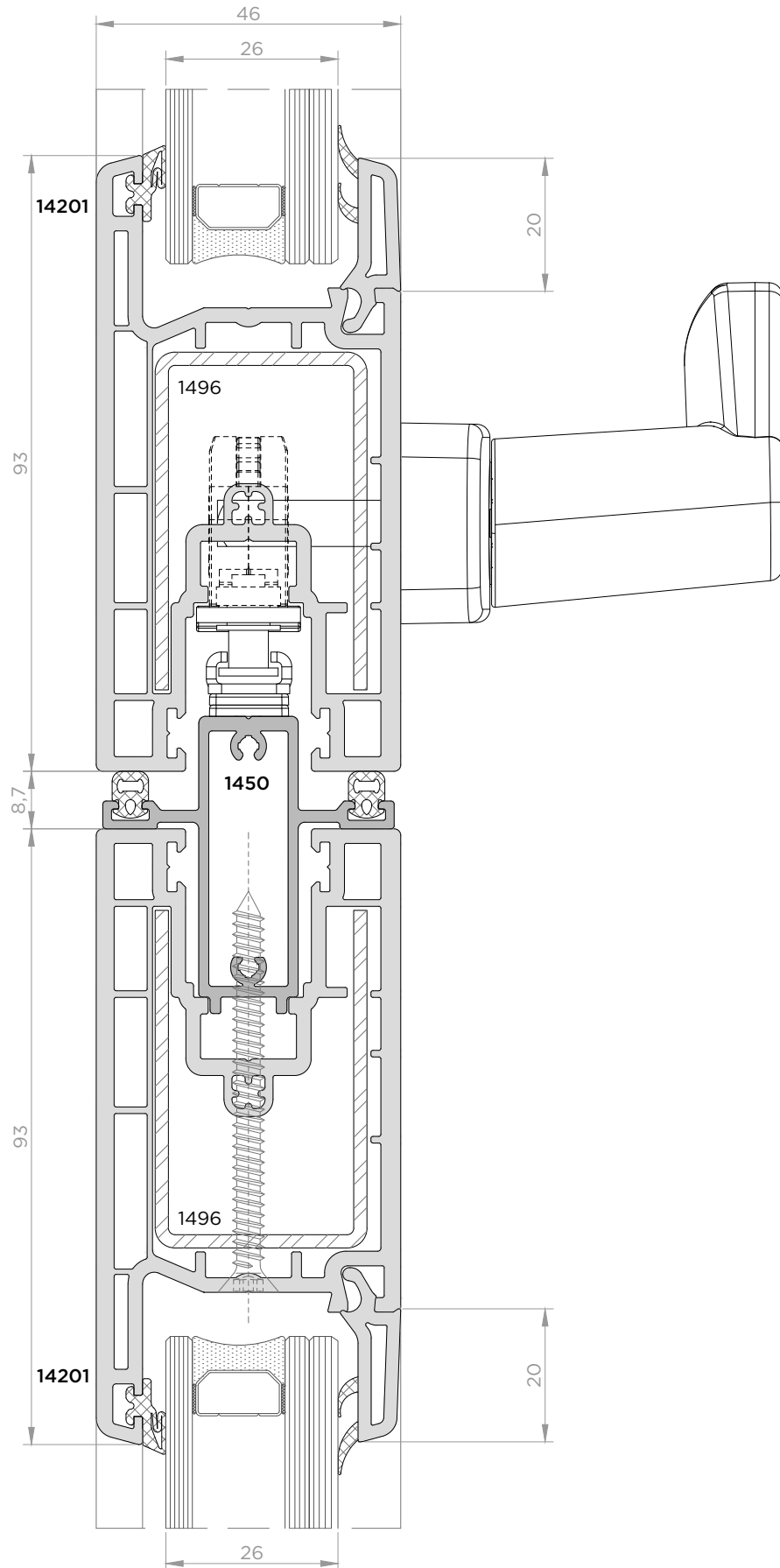
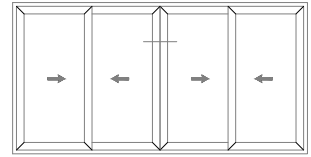


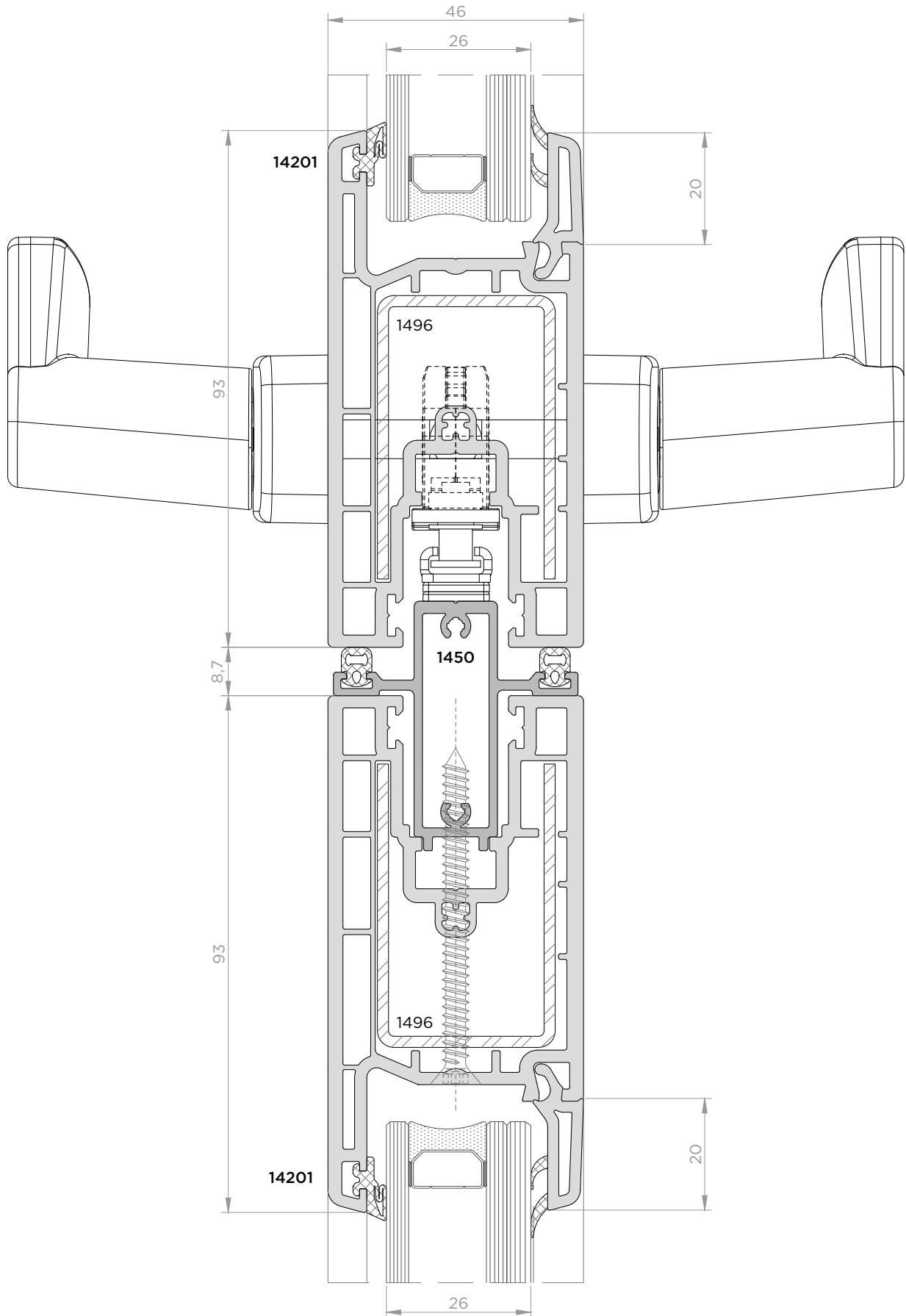
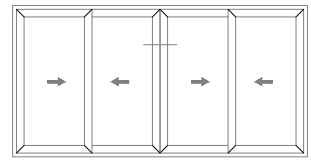


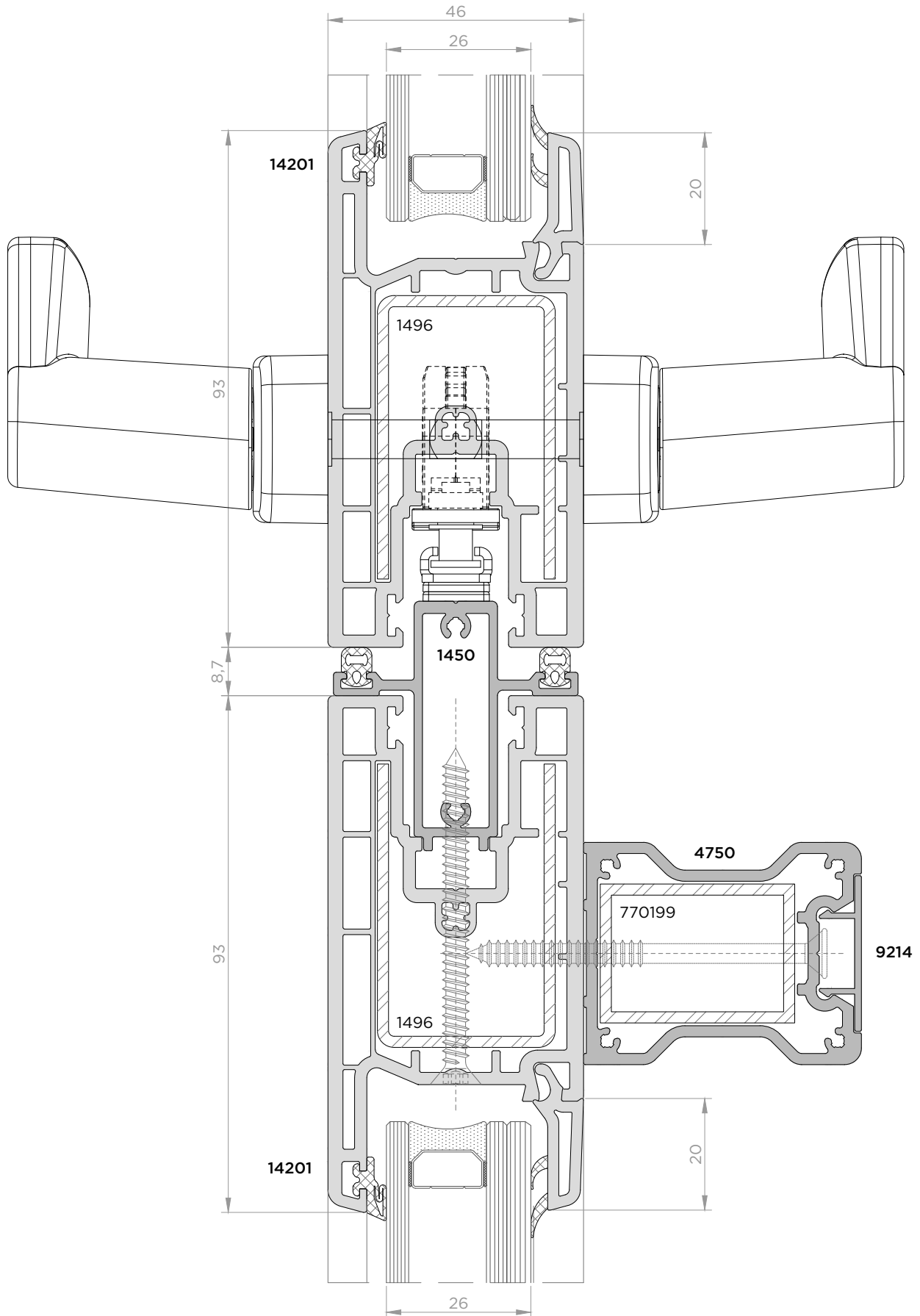
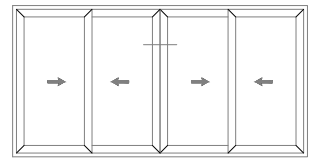


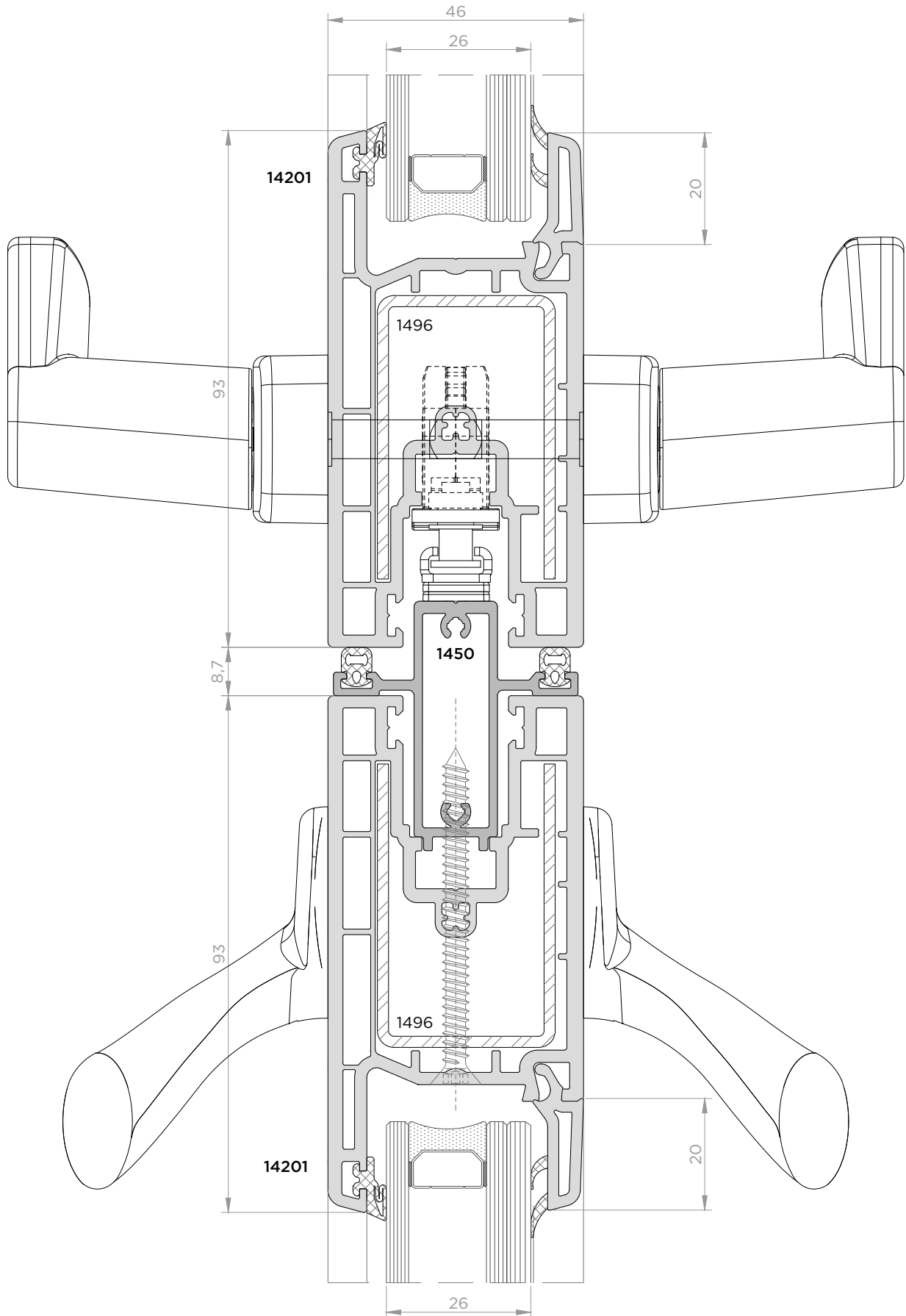
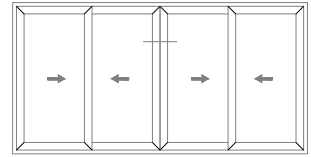


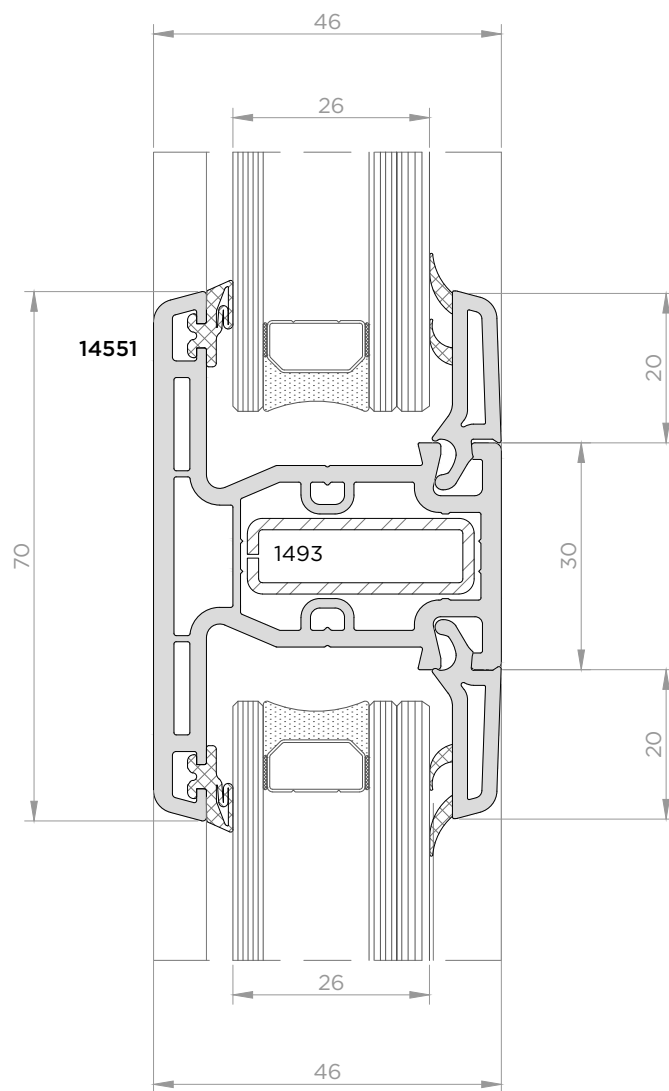
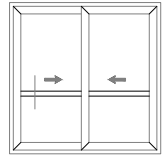


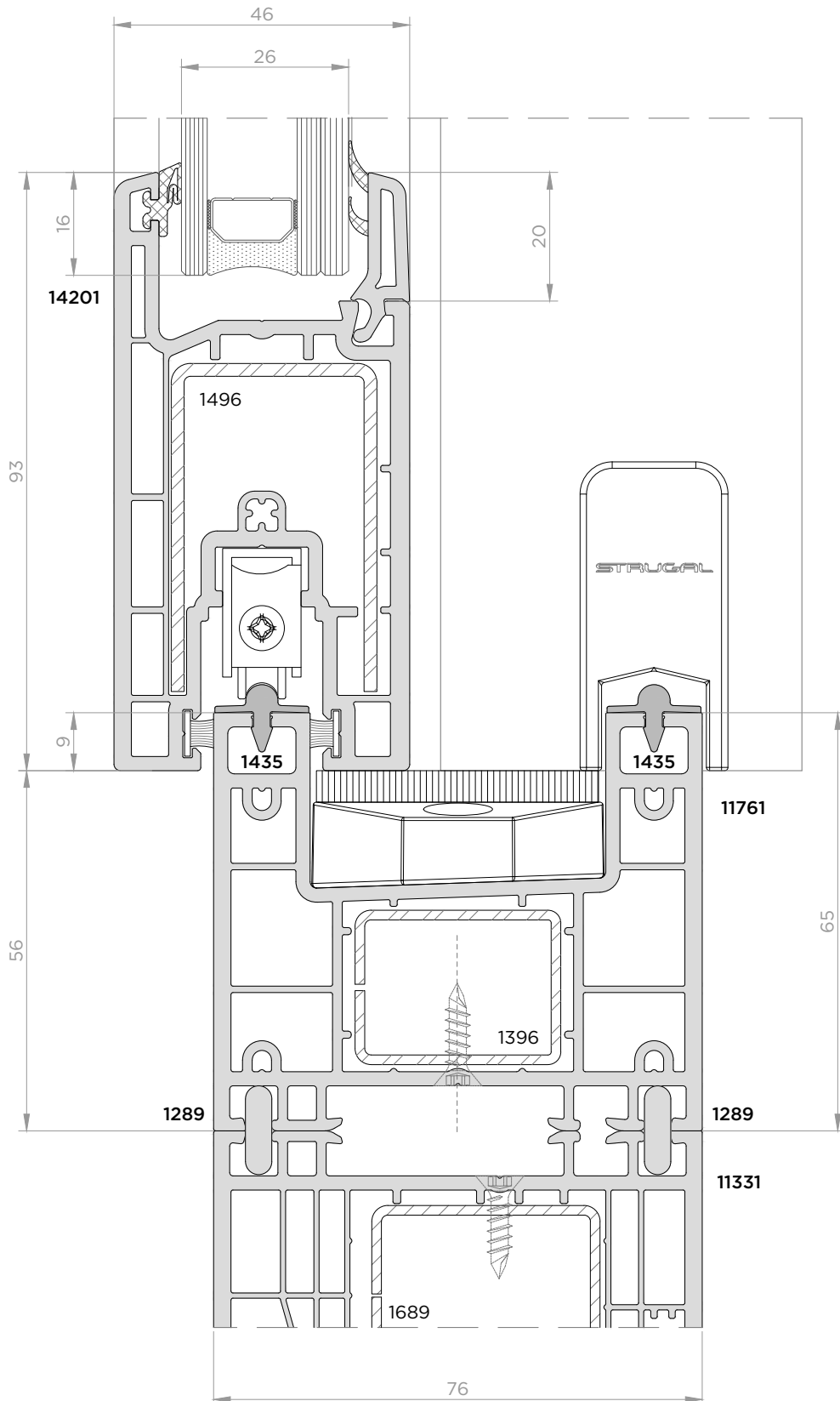
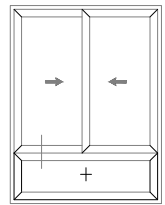


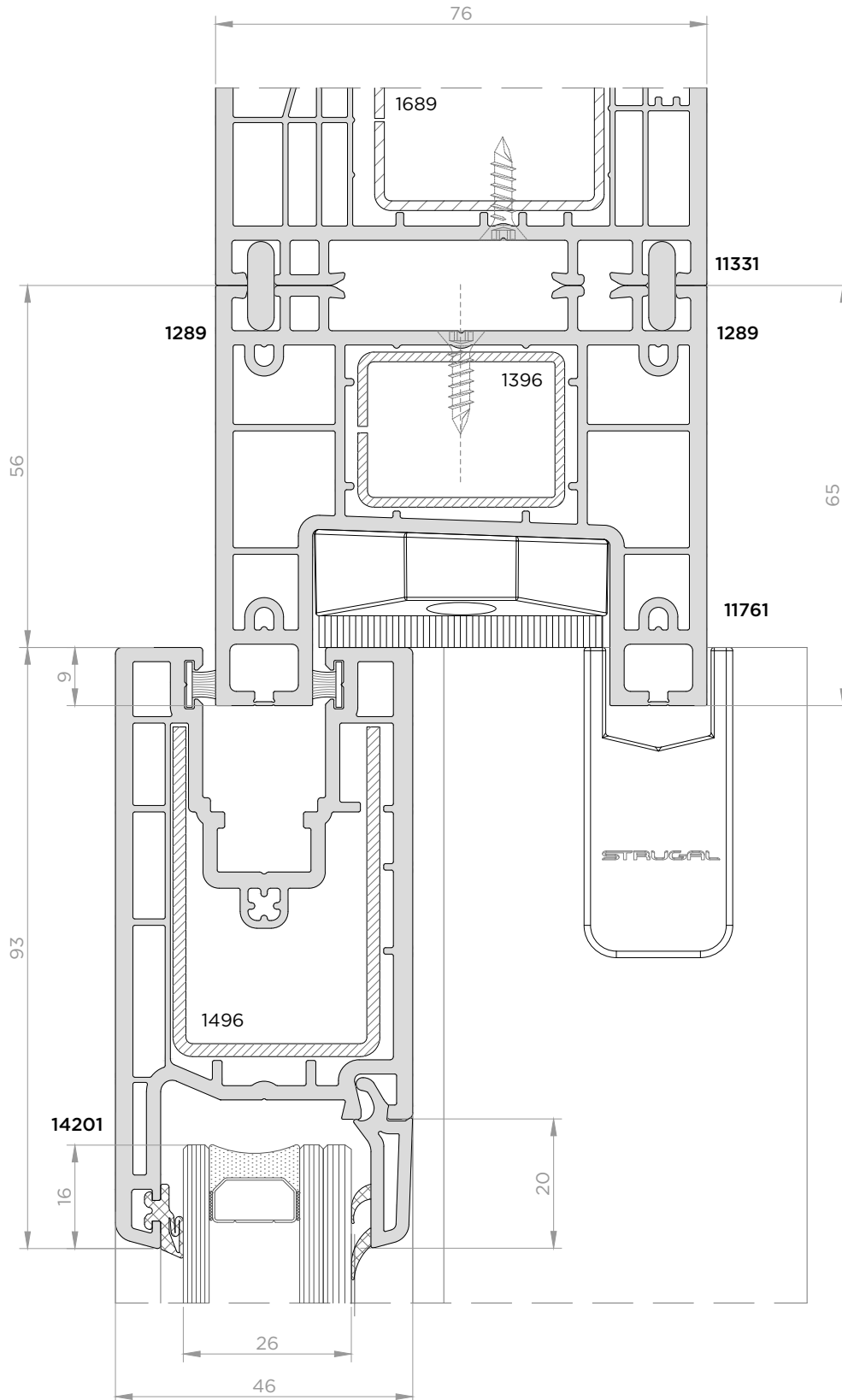
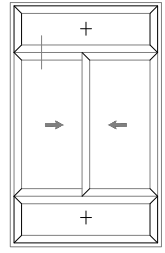


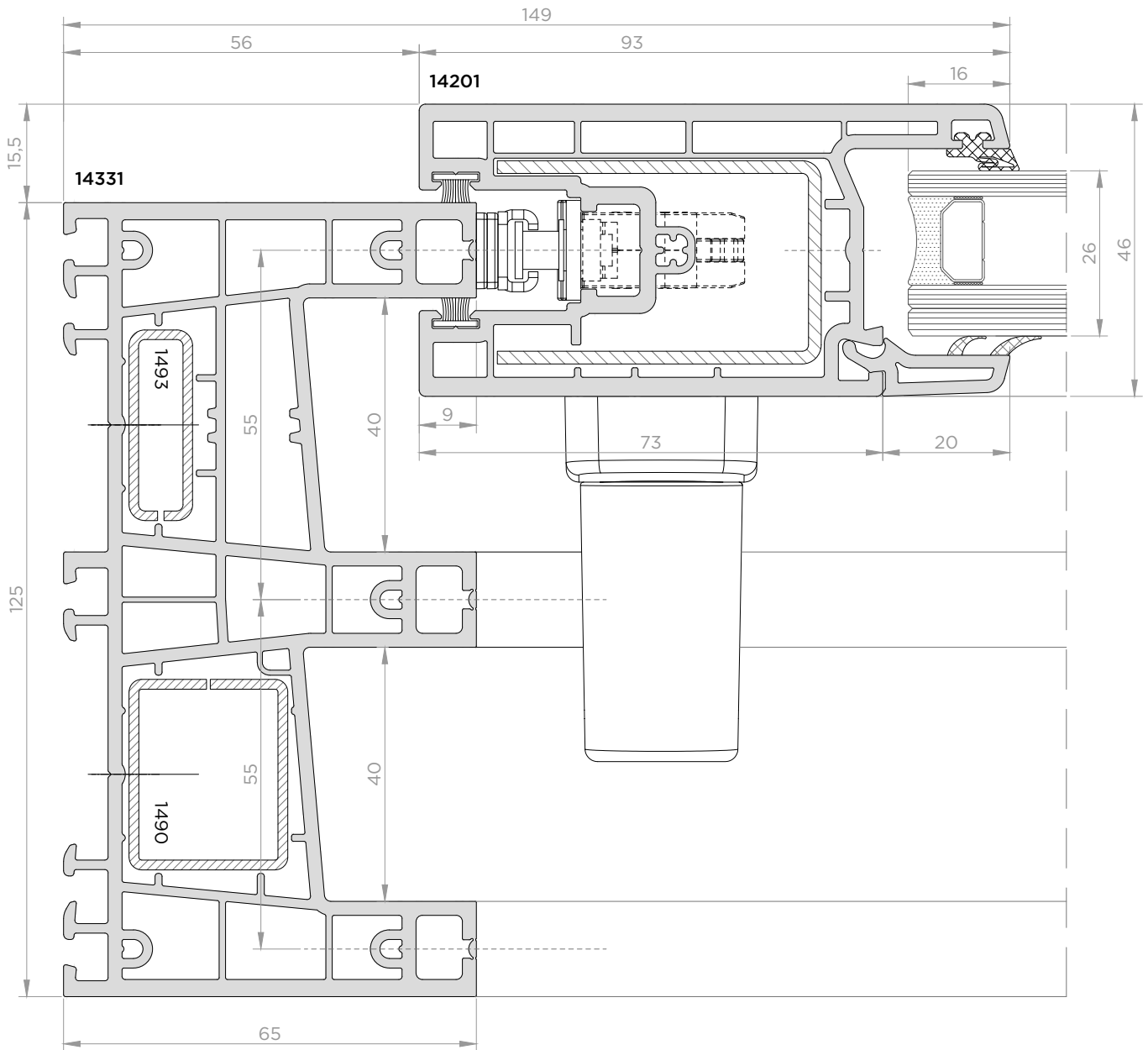
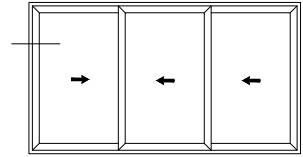


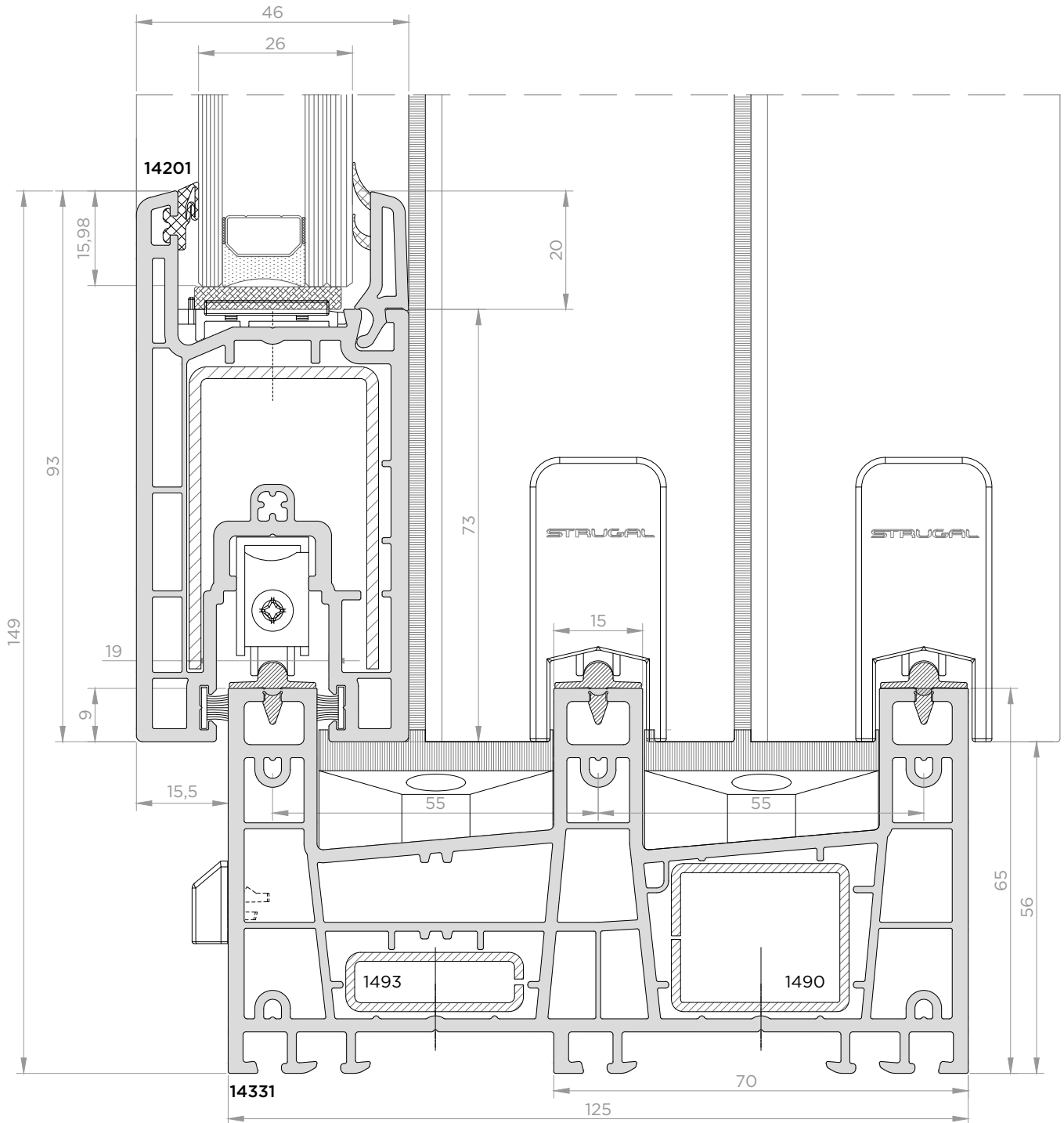
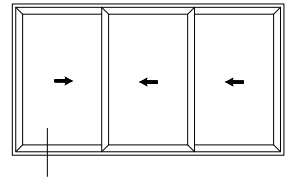


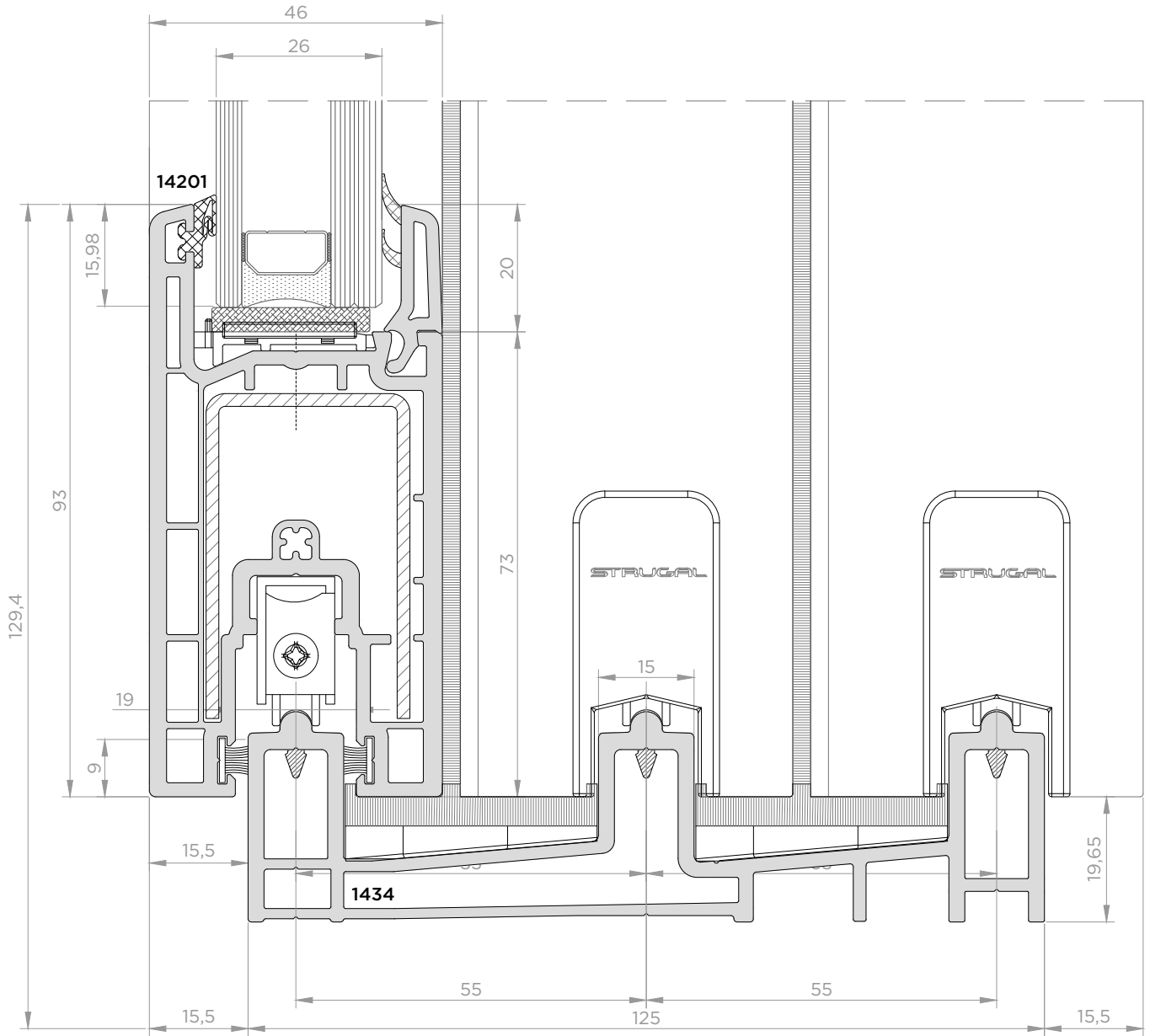
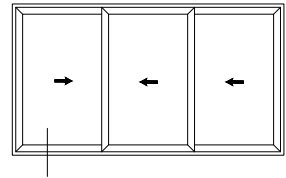












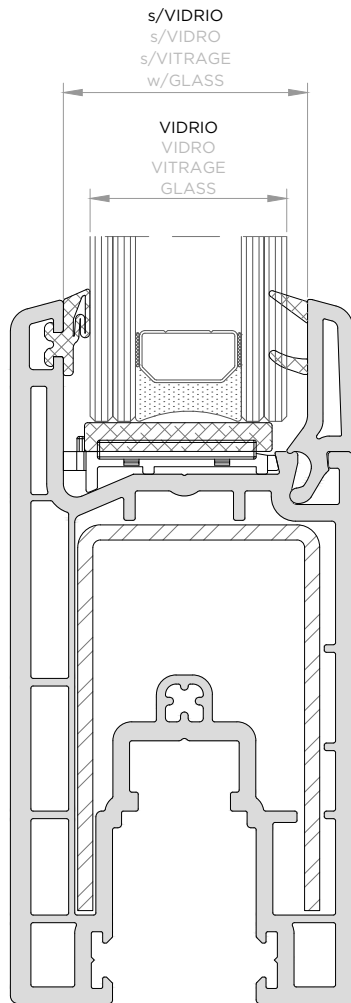
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ACRISTALAMIENTO

Envidraçado

Vitrage

Glazing



Vidrio máximo V (mm) Vidro máximo V Vitrage maximum V Maximum glass V	Asiento hoja Assento da folha Logement de l'ouvrant Sash seat	Calzo Calço Cale Shim	Juntas () exterior / interior Juntas () exterior / interior Joints () extérieur / intérieur Gaskets () exterior / interior		Junquillo (co-extrusión) Bago (co-extrusão) Parclose (co-extrusion) Glazing bead (co-extrusion)	
			Perfil Blanco Perfil Blanco	Perfil Color Perfil Color		
26	361400	311073 311153	Gris	Negro Caramelo		Ref.: 16001 6,5 mm.
24	361400	311073 311153	Gris	Negro Caramelo		Ref.: 16011 9 mm.
12	361400	311073 311153	Gris	Negro Caramelo		Ref.: 16031 20 mm.
8	361400	311073 311153	Gris	Negro Caramelo		Ref.: 16041 25 mm.

(*) NOTAS: | (*) Notas: | (*) Notes: | (*) Notes:

La junta de acristalar exterior se suministra montada y soldada al propio perfil. (Junta PVC+NBR, soldable).

A junta de envidraçamento exterior é fornecida montada e soldada ao próprio perfil. (Junta PVC+NBR, soldável).

Le joint de vitrage extérieur est fourni monté et soudé au profilé lui-même. (Joint PVC+NBR, soudable).

The exterior glazing gasket is supplied pre-assembled and welded to the profile itself. (PVC+NBR gasket, weldable).

*Junta exterior para recambio:

*Junta exterior para substituição:

*Joint extérieur pour pièce de rechange:

*Exterior gasket for replacement:

361301 (Gris) | 361301 (Cinzeno) | 361301 (Gris) | 361301 (Grey)

361302 (Negro) | 361302 (Preto) | 361302 (Noir) | 361302 (Black)

371303 (Caramelo) | 371303 (Caramelo) | 371303 (Caramel) | 371303 (Caramel)

371303 (Caramelo) | 371303 (Caramel)

371303 (Caramelo) | 371303 (Caramel)

371303 (Caramelo) | 371303 (Caramel)

371303 (Caramelo) | 371303 (Caramel)

*Junta de junquillo para recambio:

*Junta de bago para substituição:

*Joint de parclose pour pièce de rechange:

*Glazing bead gasket for replacement:

351221 (Gris) | 351221 (Cinzeno) | 351221 (Gris) | 351221 (Grey)

351222 (Negro) | 351222 (Preto) | 351222 (Noir) | 351222 (Black)

351222 (Black)

351223 (Caramelo) | 351223 (Caramelo) | 351223 (Caramel) | 351223 (Caramel)

351223 (Caramel) | 351223 (Caramel)

351223 (Caramel) | 351223 (Caramel)

Disponibles calces de 1, 3, 4 y 5 mm. de espesor. |

Disponíveis calços de 1, 3, 4 e 5 mm. de espessura. |

Cales disponibles en 1, 3, 4 et 5 mm. d'épaisseur. |

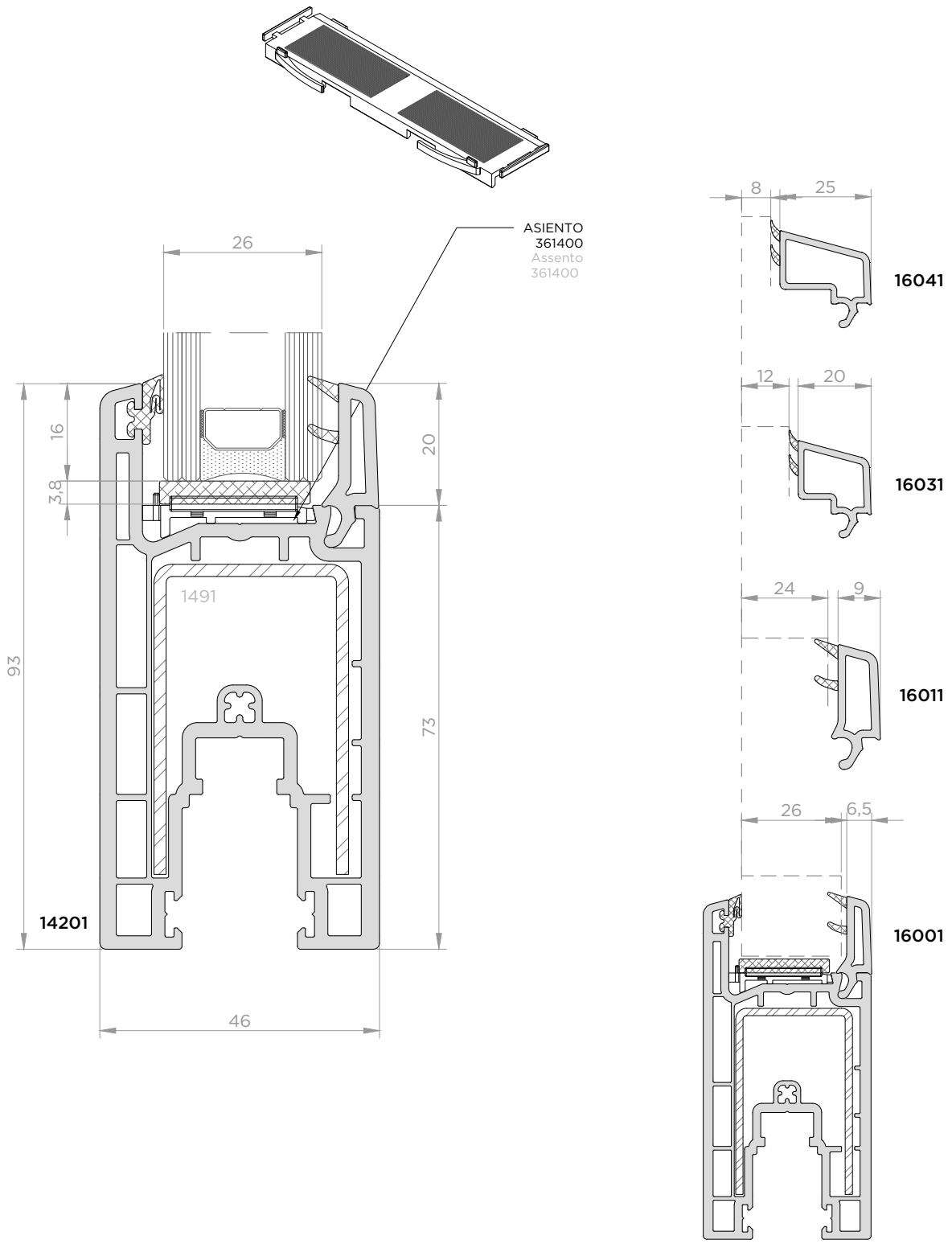
Available shims in 1, 3, 4 and 5 mm. thickness.

- 1 mm: 330120 /24 /34 /40 /44 /52

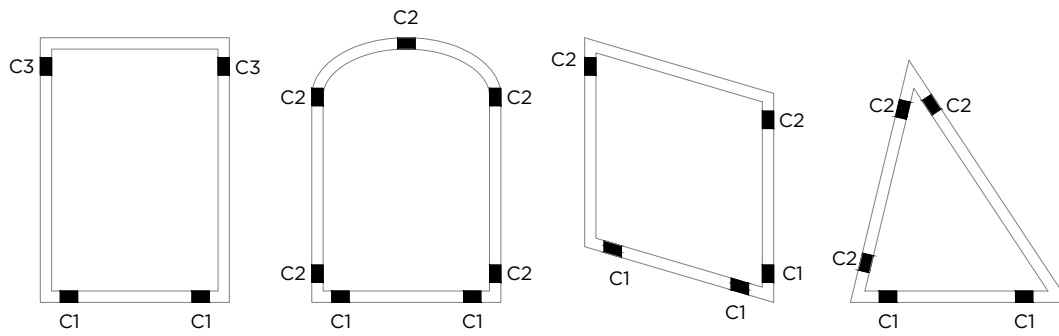
- 3 mm: 330319 /24 /34 /40 /44 /52

- 4 mm: 330420 /24 /34 /40 /44 /52

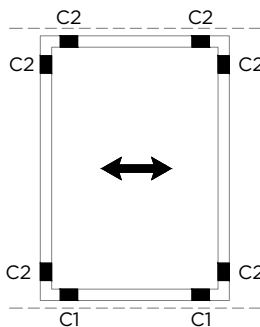
- 5 mm: 330520 /24 /34 /40 /44 /52



Fijos | Fixos | Fixes | Fixed (or Fixed panels)



Corredera | Corredera | Coulissante | Sliding



Nota: Los calzos deben colocarse coincidiendo con la situación de los rodamientos.

Nota: Os calços devem ser colocados coincidindo com a posição dos rolamentos.

Note : Les cales doivent être placées en coïncidence avec la position des roulements.

Note: The packing shims must be placed coinciding with the position of the rollers.

Nomenclatura de los Asientos y Calzos:

C1 = ASIENTO Y CALZO DE APOYO.

C2 = ASIENTO Y CALZO PERIMETRAL.

C3 = ASIENTO Y CALZO DE SEGURIDAD.

Nomenclatura dos Assentos e Calços:

C1 = ASSENTO E CALÇO DE APOIO.

C2 = ASSENTO E CALÇO PERIMETRAL.

C3 = ASSENTO E CALÇO DE SEGURANÇA.

Nomenclature des Logements et Cales :

C1 = LOGEMENT ET CALE D'APPUI.

C2 = LOGEMENT ET CALE PÉRIMÉTRALE.

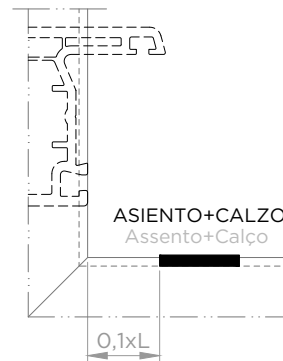
C3 = LOGEMENT ET CALE DE SÉCURITÉ.

Nomenclature of Seats and Shims:

C1 = SUPPORT SEAT AND SHIM.

C2 = PERIMETER SEAT AND SHIM.

C3 = SECURITY SEAT AND SHIM.



NOTAS: Los calzos deben colocarse necesariamente como prevén los croquis arriba indicados, sin añadir otros calzos en otras situaciones. Los calzos dispondrán de una longitud de unos 100 mm. La distancia entre el eje de los calzos y el borde del vidrio, será aprox. L/10 (L = longitud de vidrio.). Estas directrices no serán válidas para vidrios pegados.

NOTAS: Os calços devem ser colocados necessariamente como previsto nos croquis acima indicados, sem adicionar outros calços em outras posições. Os calços deverão ter um comprimento de cerca de 100 mm. A distância entre o eixo dos calços e a borda do vidro será de aprox. L/10 (L = comprimento do vidro). Estas diretrizes não serão válidas para vidros colados.

NOTES : Les cales doivent être impérativement placées comme prévu sur les croquis indiqués ci-dessus, sans ajouter d'autres cales dans d'autres positions. Les cales auront une longueur d'environ 100 mm. La distance entre l'axe des cales et le bord du vitrage sera d'environ L/10 (L = longueur du vitrage). Ces directives ne sont pas valables pour les vitrages collés.

NOTES: The packing shims must necessarily be placed as shown in the sketches above, without adding additional shims in other locations. The shims shall have a length of approximately 100 mm. The distance between the center line of the shims and the edge of the glass shall be approx. L/10 (L = length of the glass). These guidelines are not valid for structural glazing (bonded glass).



NOTAS IMPORTANTES : Para desaguar y/o airear los galces de los marcos y de las hojas, los bastidores dispondrán de unas salidas bien en forma de ranura (12x5) bien por doble taladro consecutivo (Ø5 mm.). Las salidas para drenaje y/o aireación practicadas no deberán quedar tapadas por la ubicación de los asientos y calzos de acristalar. En las carpinterías de PVC no deberán realizarse trabajos de acristalamiento en condiciones de temperaturas inferiores a los + 5°C. Para iniciar el proceso de acristalar la hoja, la misma deberá estar montada sobre el marco. | **NOTAS IMPORTANTES:** Para drenar e/ou ventilar os fechos dos aros e das folhas, os caixilhos devem ter saídas em forma de ranhura (12x5) ou por furação dupla consecutiva (Ø5 mm.). As saídas de drenagem e/ou ventilação efectuadas não devem ser tapadas pela localização dos assentos e calços de vidragem. Nas caixilharias de PVC, os trabalhos de vidragem não devem ser efectuados a temperaturas inferiores a + 5°C. Para iniciar o processo de vidragem da folha, esta deve estar montada no aro. | **NOTES IMPORTANTES :** Pour le drainage et/ou la ventilation des feuillures des dormants et des ouvrants, les cadres disposeront de sorties soit sous forme de rainure (12x5), soit par double perçage consécutif (Ø5 mm.). Les sorties de drainage et/ou de ventilation pratiquées ne doivent pas être obstruées par l'emplacement des logements et des cales de vitrage. Pour les menuiseries en PVC, les travaux de vitrage ne doivent pas être effectués à des températures inférieures à + 5°C. Pour commencer le processus de vitrage de l'ouvrant, celui-ci doit être monté sur le dormant. | **IMPORTANT NOTES:** To drain and/or ventilate the rebates of the frames and sashes, the frames shall have outlets either in the form of a slot (12x5) or by double consecutive drilling (Ø5 mm.). The drainage and/or ventilation outlets provided must not be covered by the location of the glazing seats and shims. In PVC joinery, glazing work must not be carried out at temperatures below + 5°C. To start the process of glazing the sash, it must be mounted on the frame.

No emplear vidrios defectuosos, comprobando antes si presentan algún tipo de daño, sobretodo en las esquinas y bordes. Evitar el acristalamiento a temperaturas inferiores a 5°C, por riesgo de rotura ante el enfriamiento excesivo del perfil de PVC. Antes de proceder a acristalar en obra, la ventana debe estar ya enlucida y empotrada completamente. No descolgar las hojas del marco durante el acristalamiento. Si se emplea junta de recambio, deberá eliminarse previamente cualquier resto de soldadura existente en la ranura o canal de la junta.

Não utilizar vidros defeituosos, verificando previamente se apresentam algum tipo de dano, especialmente nos cantos e arestas. Evitar a vidragem a temperaturas inferiores a 5°C, devido ao risco de rutura perante o arrefecimento excessivo do perfil de PVC. Antes de proceder à vidragem em obra, a janela deve estar já rebocada e encastrada completamente. Não despendurar as folhas do aro durante a vidragem. Se for utilizada uma junta de substituição, deve eliminar-se previamente qualquer resto de soldadura existente na ranhura ou canal da junta.

Ne pas utiliser de vitrages défectueux, en vérifiant au préalable s'ils présentent des dommages, notamment sur les coins et les bords. Éviter le vitrage à des températures inférieures à 5°C, en raison du risque de rupture lié au refroidissement excessif du profilé PVC. Avant de procéder au vitrage sur chantier, la fenêtre doit être déjà enduite et complètement scellée. Ne pas dégonder les ouvrants du dormant pendant le vitrage. Si un joint de rechange est utilisé, tout reste de soudure existant dans la rainure ou le canal du joint doit être préalablement éliminé.

Do not use defective glass, checking beforehand for any type of damage, especially on corners and edges. Avoid glazing at temperatures below 5°C, due to the risk of breakage from excessive cooling of the PVC profile. Before proceeding with glazing on site, the window must already be plastered and completely embedded. Do not remove the sashes from the frame during glazing. If a replacement gasket is used, any remaining welding residue in the groove or gasket channel must be removed beforehand.

Montaje de junquillos | Montagem de bagos | Montage des parcloles | Installation of glazing beads

Procedimiento general:

Comprobar medidas de corte de los junquillos. Los junquillos se cortan preferiblemente a inglete (45°). Para evitar tensiones y roturas durante su colocación deben cortarse sin sobrante al largo. Debe colocarse en primer lugar los junquillos correspondientes a los lados más cortos. Nota: En junquillos de menor dimensión pueden practicarse en la zona central unos cortes para facilitar su flexión y clipado posterior (ver detalle Det.1). Colocar y clipar los junquillos desde el centro hacia los exteriores, haciendo uso de un martillo de nylon. Debe colocarse por el pie de anclaje del junquillo y golpear levemente con el martillo. Los junquillos de los lados más largos se doblarán y guiarán por sus extremos en los ingletes respectivos. Se encajará el junquillo golpeando el mismo con el martillo en dirección siempre hacia los lados. Para desclipar los junquillos se hará uso de un formón o de una paleta estrecha, introduciéndolo en horizontal entre el perfil y la base del junquillo. Extraer los junquillos con cuidado.

Procedimento geral:

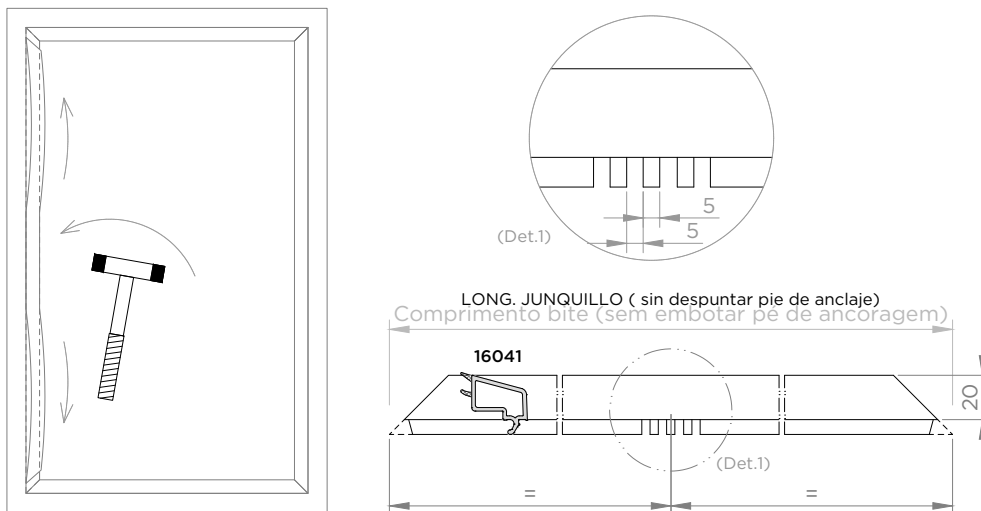
Verificar as medidas de corte dos bagos. Os bagos são cortados preferencialmente em meia-esquadria (45°). Para evitar tensões e ruturas durante a sua colocação, devem ser cortados sem excesso no comprimento. Devem ser colocados em primeiro lugar os bagos correspondentes aos lados mais curtos. Nota: Em bagos de menor dimensão, podem ser feitos alguns cortes na zona central para facilitar a sua flexão e posterior encaixe (ver detalhe Det.1). Colocar e encaixar os bagos do centro para as extremidades, utilizando um martelo de nylon. Deve ser colocado pelo pé de fixação do bago e bater levemente com o martelo. Os bagos dos lados mais longos serão dobrados e guiados pelas suas extremidades nas respetivas meias-esquadradas. O bago será encaixado batendo no mesmo com o martelo sempre em direção aos lados. Para desencaixar os bagos, deve utilizar-se um formão ou uma espátula estreita, introduzindo-a horizontalmente entre o perfil e a base do bago. Remover os bagos com cuidado.

Procédure générale :

Vérifier les mesures de coupe des parcloles. Les parcloles sont de préférence coupées en onglet (45°). Pour éviter les tensions et les ruptures lors de la pose, elles doivent être coupées sans surplus de longueur. Il faut d'abord poser les parcloles correspondant aux côtés les plus courts. Note : Sur les parcloles de petites dimensions, des coupes peuvent être pratiquées dans la zone centrale pour faciliter leur flexion et leur clipsage ultérieur (voir détail Det.1). Poser et clipser les parcloles du centre vers l'extérieur, à l'aide d'un maillet en nylon. Il faut l'insérer par le pied d'ancrage de la parclose et frapper légèrement avec le maillet. Les parcloles des côtés les plus longs seront courbées et guidées par leurs extrémités dans les onglets respectifs. La parclose s'emboîtera en frappant sur celle-ci avec le maillet, toujours en direction des côtés. Pour déclipser les parcloles, on utilisera un ciseau ou une spatule étroite, en l'introduisant horizontalement entre le profilé et la base de la parclose. Retirer les parcloles avec précaution.

General procedure:

Check the cutting measurements of the glazing beads. The glazing beads are preferably miter-cut (45°). To avoid stress and breakage during installation, they must be cut to length without any excess. The glazing beads corresponding to the shortest sides must be installed first. Note: For smaller glazing beads, cuts can be made in the central area to facilitate their bending and subsequent clipping (see detail Det.1). Position and clip the glazing beads from the center towards the outside, using a nylon hammer. It must be placed by the anchoring foot of the glazing bead and tapped lightly with the hammer. The glazing beads on the longer sides will be bent and guided by their ends into the respective miters. The glazing bead will be fitted by tapping it with the hammer, always in the direction of the sides. To unclip the glazing beads, use a chisel or a narrow spatula, inserting it horizontally between the profile and the base of the glazing bead. Remove the glazing beads carefully.



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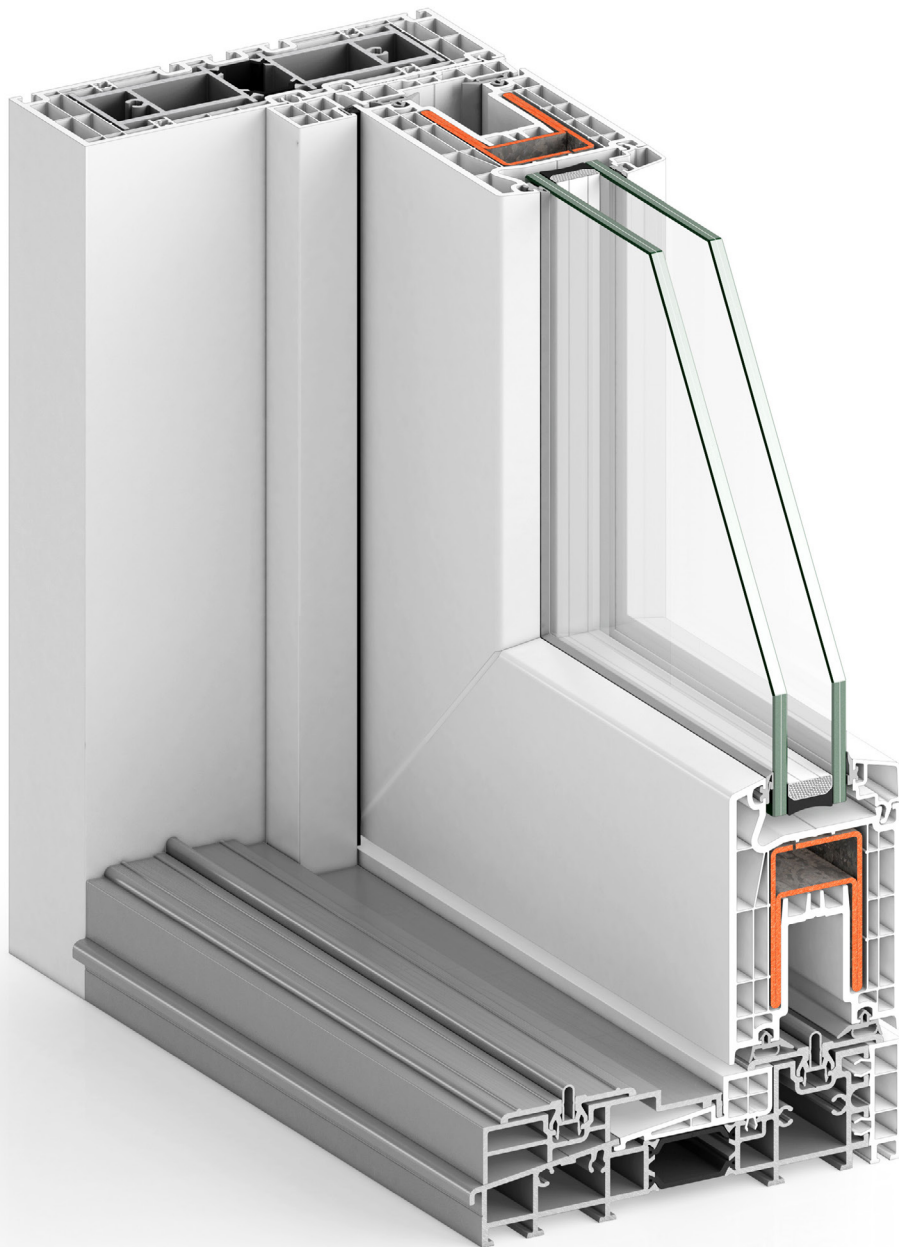
SISTEMA PRACTICABLE

La solución ideal para abrir grandes espacios a la luz

A solução ideal para abrir grandes espaços à luz

La solution idéale pour ouvrir de grands espaces à la lumière

The ideal solution for opening up large spaces to the light



STRUGAL

ÍNDICE

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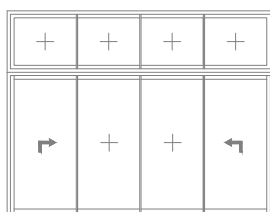
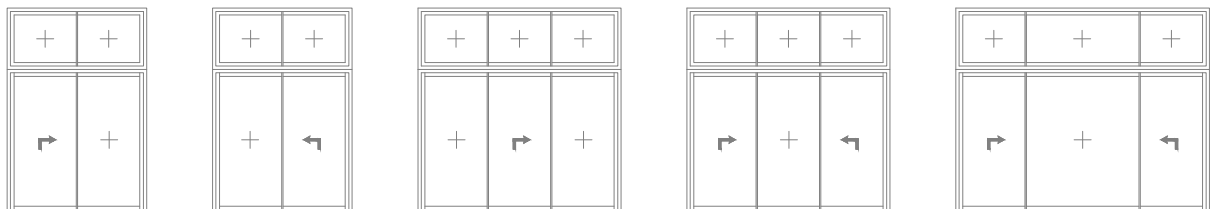
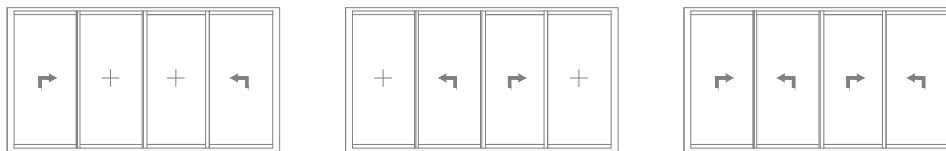
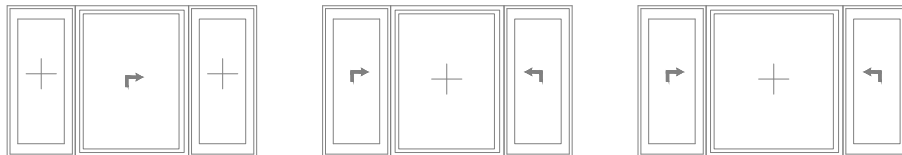
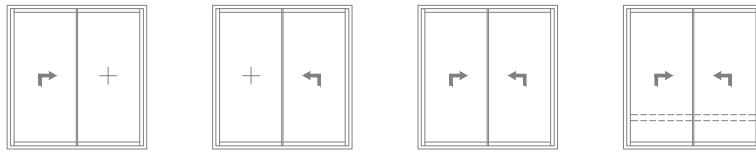
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CARACTERÍSTICAS TÉCNICAS

Características técnicas
Caractéristiques techniques
Technical characteristics

Posibles aperturas y combinaciones | Possíveis aberturas e combinações | Ouvertures et combinaisons possibles | Possible openings and combinations



Dimensiones límite para ventanas fijas | Dimensões limite para janelas fixas | Dimensions limites pour fenêtres fixes | Limit dimensions for fixed windows

PERFILES PVC - Relación con la junta de co-extrusión

Perfil en base Blanco	Junta en acabado color Gris
Perfil en base Marrón	Junta en acabado color Negro
Perfil en base Caramelo	Junta en acabado color Caramelo
Perfil en base Gris Oscuro	Junta en acabado color Negro
PERFIS PVC - Correspondência com a junta coextrudada	
Perfil base Branco	Junta na cor Cinzento
Perfil base Castanho	Junta na cor Preto
Perfil base Caramelo	Junta na cor Caramelo
Perfil base Cinzento Escuro	Junta na cor Preto
PROFILÉS PVC - Relation avec le joint de co-extrusion	
Profilé base Blanc	Joint en finition couleur Gris
Profilé base Marron	Joint en finition couleur Noir
Profilé base Caramel	Joint en finition couleur Caramel
Profilé base Gris Foncé	Joint en finition couleur Noir
PVC PROFILES - Relationship with the co-extruded gasket	
White base profile	Grey finish gasket
Brown base profile	Black finish gasket
Caramel base profile	Caramel finish gasket
Dark Grey base profile	Black finish gasket

Nota: Excepción de color de la junta en las opciones de perfiles con foliado bicolor. Consultar.

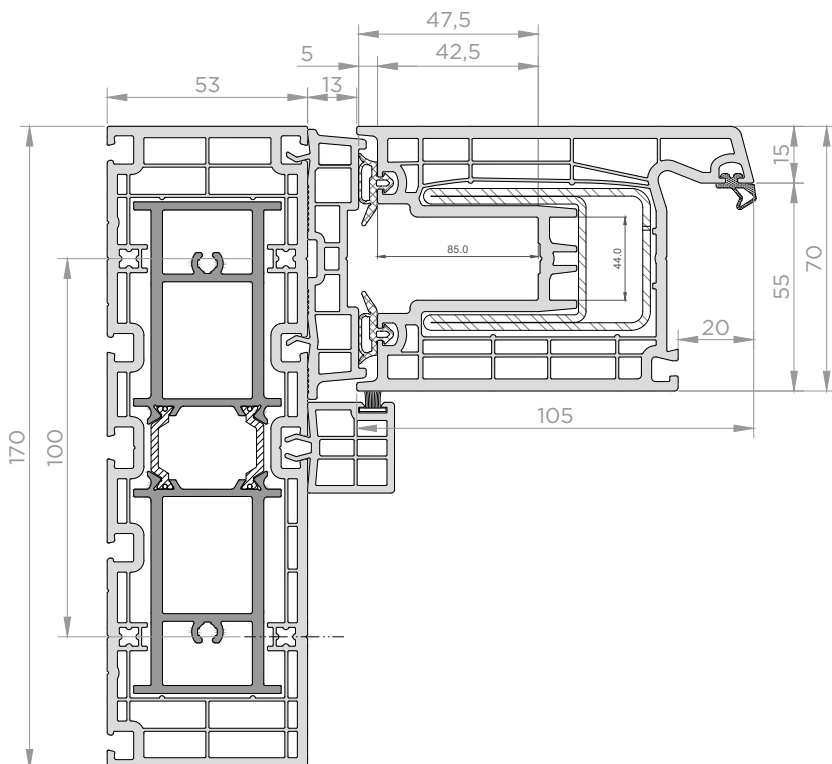
Nota: Exceção da cor da junta nas opções de perfis com folheado bicolor. Consultar.

Note : Exception de couleur du joint dans les options de profilés avec plaxage bicolore. Consulter.

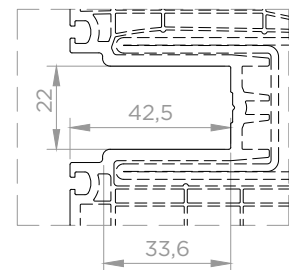
Note: Gasket color exception in profile options with bicolor foil. Consult.

DIMENSIONES FUNCIONALES | Dimensões funcionais | Dimensions fonctionnelles | Functional dimensions

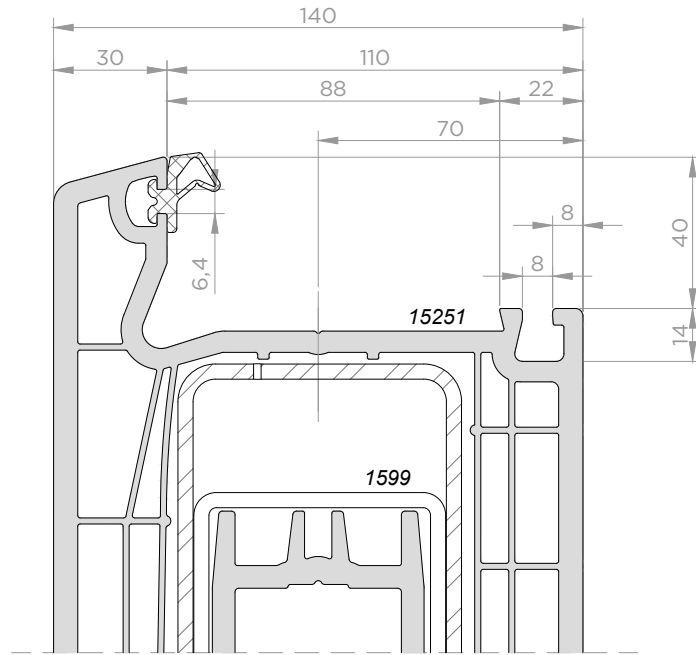
Hoja y marco | Folha e marco | Montant et cadre | Sash and frame



Canal de herraje | Canal de ferragem | Gorge de ferrage | Hardware groove

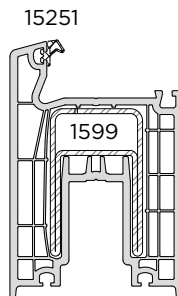
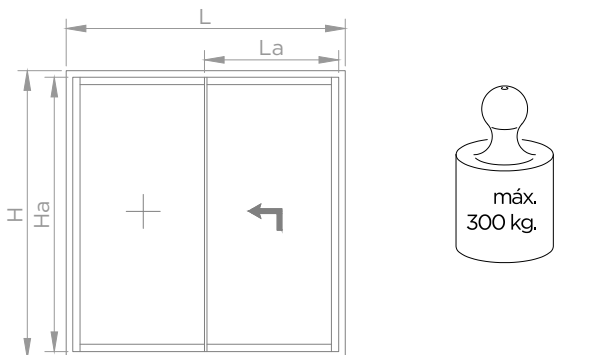


Galce en hoja | Galce na folha | Feuillure sur montant | Sash rebate



Limitaciones según el perfil empleado | Limitações segundo o perfil utilizado | Limitations selon le profilé utilisé | Limitations according to the profile used

Hoja Corredera (1H+1F) (2H+2F) | Folha de correr (1H+1F) (2H+2F) | Montant Couissant (1H+1F) (2H+2F) | Sliding Sash (1H+1F) (2H+2F)



Perfiles en acabado blanco | Perfis em acabamento branco | Profils en finition blanc

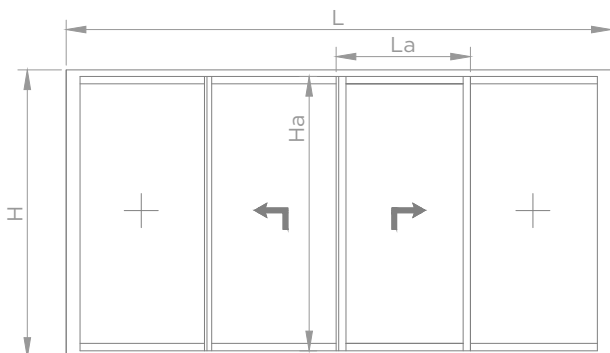


Con refuerzo **1599**:
La máx. = 3.300 mm.
Ha máx. = 2.800 mm.

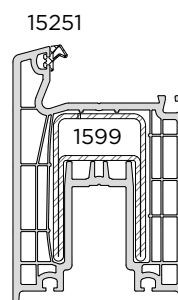
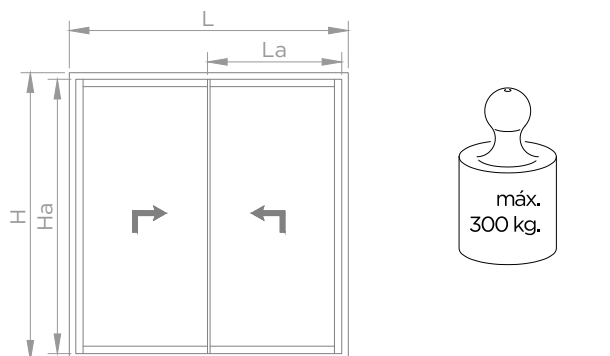
Perfiles en acabado color | Perfis em acabamento colorido | Profils en finition couleur | Profils in colour finish



Con refuerzo **1599**:
La máx. = 3.300 mm.
Ha máx. = 2.800 mm.



Hoja Corredera (2H) (4H) | Folha de correr (2H) (4H) | Montant Couissant (2H) (4H) | Sliding Sash (2H) (4H)



Perfiles en acabado blanco | Perfis em acabamento branco | Profils en finition blanc

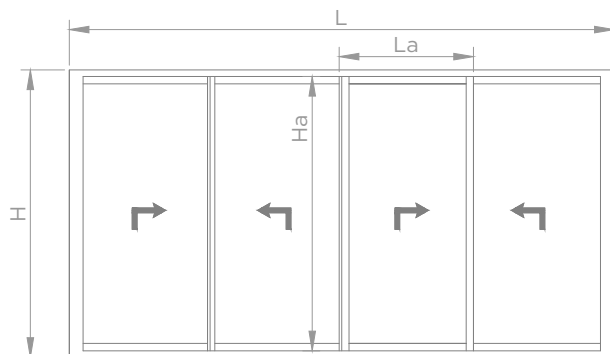


Con refuerzo **1599**:
La máx. = 3.300 mm.
Ha máx. = 2.800 mm.

Perfiles en acabado color | Perfis em acabamento colorido | Profils en finition couleur | Profils in colour finish



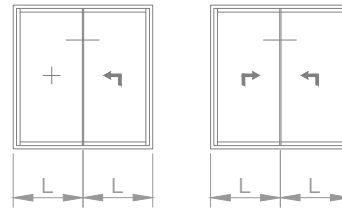
Con refuerzo **1599**:
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Ha máx. = 2.800 mm.



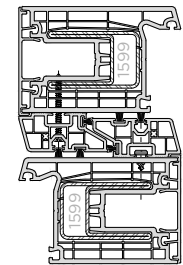
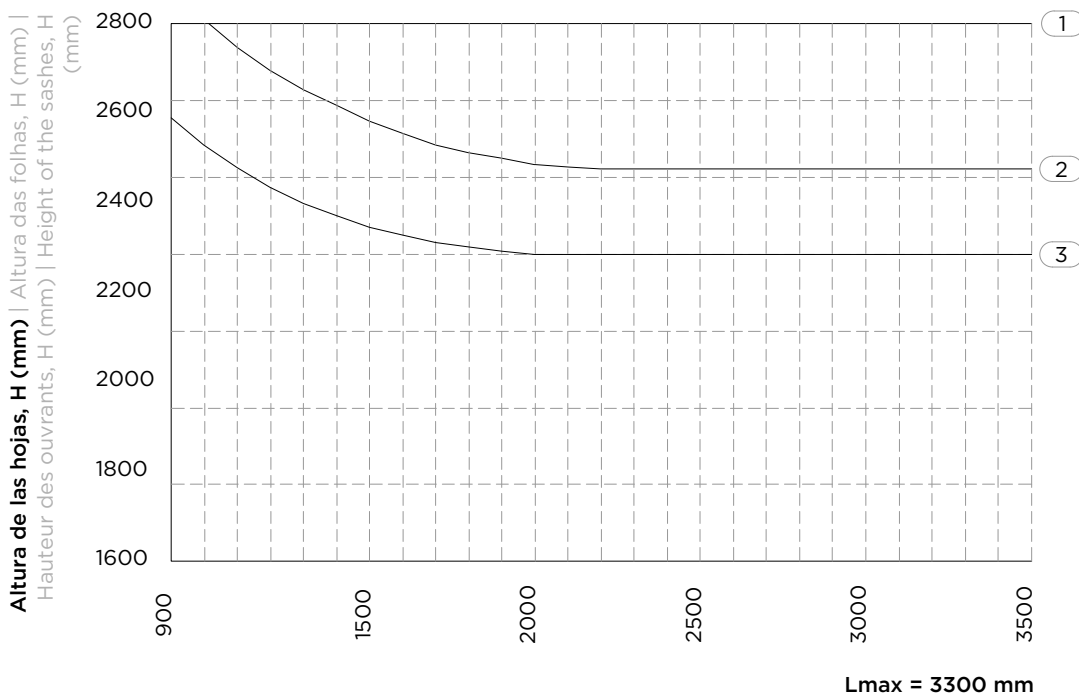
Dimensiones límite para nudo central bicarril | Dimensões limite para nó central bicarril | Dimensions limites pour nœud central deux rails | Limit dimensions for double track interlocking node

CARGA DE VIENTO. Flecha máx: H/200 ó 15mm |
 CARGA DE VENTO. Flexão máx: H/200 ou 15mm |
 CHARGE DE VENT. Flèche max : H/200 ou 15mm |
 WIND LOAD. Max. deflection: H/200 or 15mm

- 1- 400 Pa - 93 km/h
- 2- 800 Pa - 131 km/h
- 3- 1200 Pa - 161 km/h



La hoja fija se construye al atornillar esta misma al marco |
 A folha fixa é construída ao aparafusar a mesma ao marco |
 L'ouvrant fixe est construit en vissant celui-ci au cadre |
 The fixed sash is constructed by screwing it to the frame.



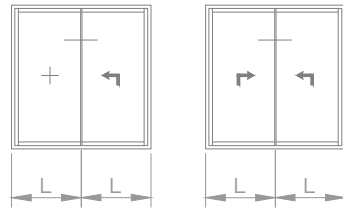
Ixx (cm⁴) = 24,84

Nota: A mayores deben considerarse las limitaciones dimensionales máximas de hoja en función de la coloración del perfil |
 Nota: Adicionalmente, devem ser consideradas as limitações dimensionais máximas da folha em função da coloração do perfil |
 Note : En outre, les limitations dimensionnelles maximales de l'ouvrant doivent être prises en compte en fonction de la coloration du profilé |
 Note: Additionally, the maximum dimensional limitations of the sash must be considered based on the profile coloring

Dimensiones para nudo central bicarril | Dimensões para nó central bicarril | Dimensions pour nœud central deux rails | Dimensions for double track interlocking node

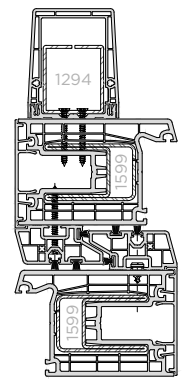
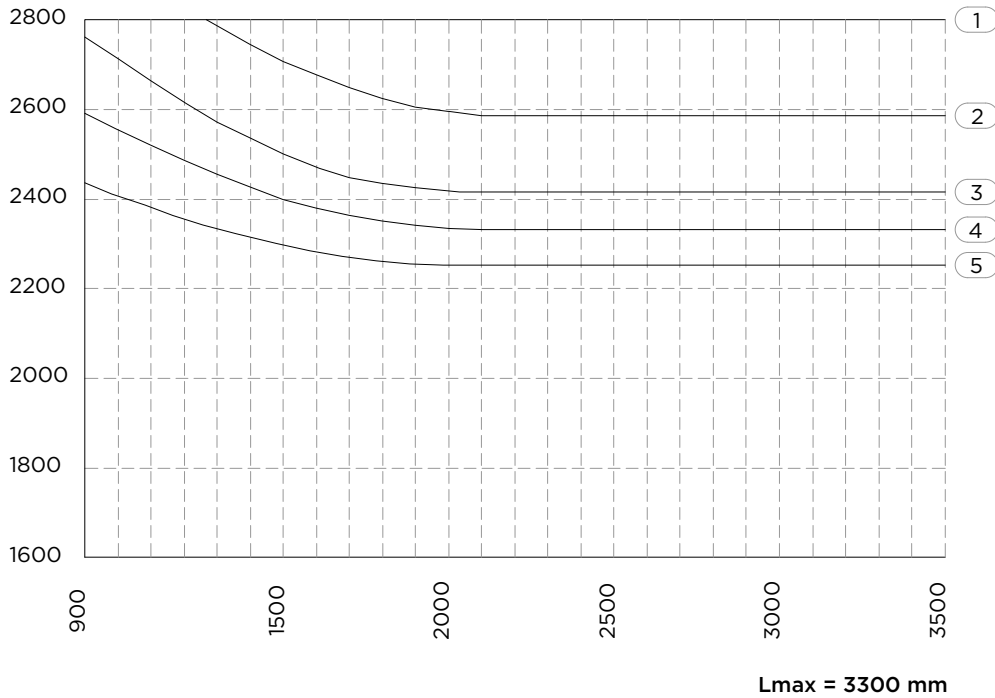
CARGA DE VIENTO. Flecha máx: H/200 ó 15mm |
 CARGA DE VENTO. Flexão máx: H/200 ou 15mm |
 CHARGE DE VENT. Flèche max : H/200 ou 15mm |
 WIND LOAD. Max. deflection: H/200 or 15mm

- 1- 400 Pa - 93 km/h
- 2- 800 Pa - 131 km/h
- 3- 1200 Pa - 161 km/h
- 4- 1600 Pa - 186 km/h
- 5- 2000 Pa - 208 km/h

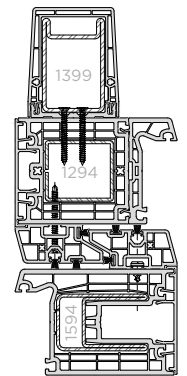


La hoja fija se construye al atornillar esta misma al marco |
 A folha fixa é construída ao aparafusar a mesma ao marco |
 L'ouvrant fixe est construit en vissant celui-ci au cadre | The fixed sash is constructed by screwing it to the frame.

Altura de las hojas, H (mm) | Altura das folhas, H (mm) |
 Hauteur des ouvrants, H (mm) | Height of the sashes, H (mm)



$I_{xx} \text{ (cm}^4\text{)} = 152,49$



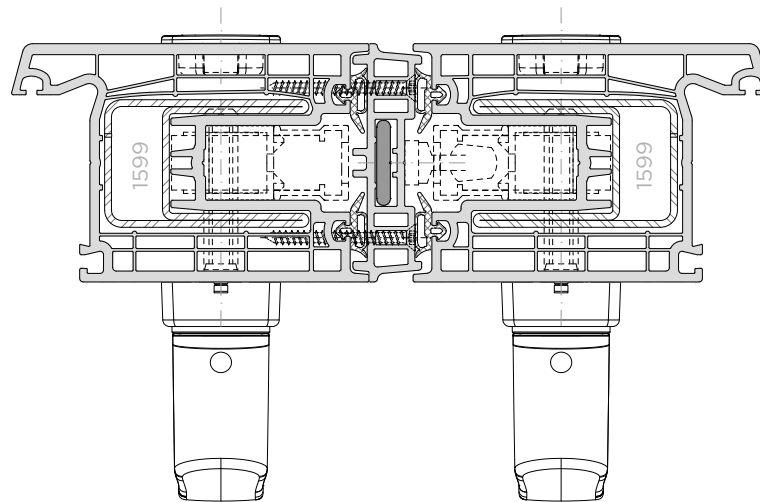
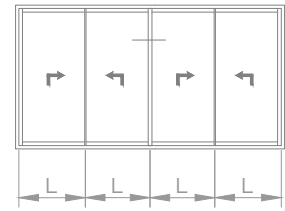
$I_{xx} \text{ (cm}^4\text{)} = 306,29$

Nota: A mayores deben considerarse las limitaciones dimensionales máximas de hoja en función de la coloración del perfil |
 Nota: Adicionalmente, devem ser consideradas as limitações dimensionais máximas da folha em função da coloração do perfil |
 Note : En outre, les limitations dimensionnelles maximales de l'ouvrant doivent être prises en compte en fonction de la coloration du profilé |
 Note: Additionally, the maximum dimensional limitations of the sash must be considered based on the profile coloring

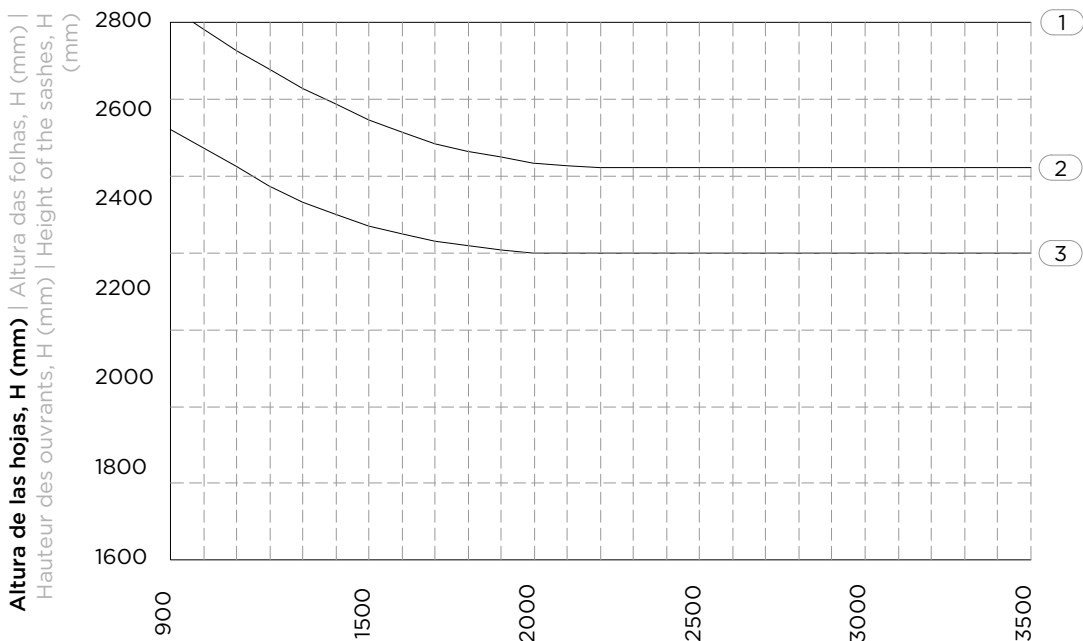
Dimensiones límite para nudo central bicarril unión de 4 hojas | Dimensões limite para nó central bicarril união de 4 folhas | Dimensions limites pour nœud central deux rails jonction de 4 vantaux | Limit dimensions for double track interlocking node (4-sash junction)

CARGA DE VIENTO. Flecha máx: H/200 ó 15mm |
 CARGA DE VENTO. Flexão máx: H/200 ou 15mm |
 CHARGE DE VENT. Flèche max : H/200 ou 15mm |
 WIND LOAD. Max. deflection: H/200 or 15mm

1- 400 Pa - 93 km/h
 2- 800 Pa - 131 km/h
 3- 1200 Pa - 161 km/h



$I_{xx} \text{ (cm}^4\text{)} = 24,84$



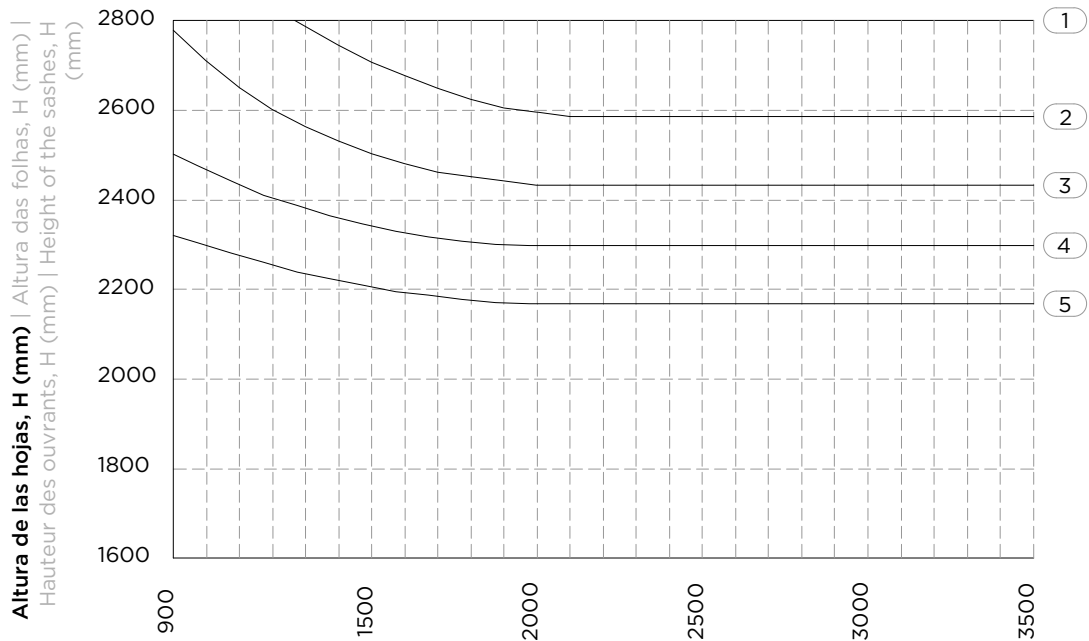
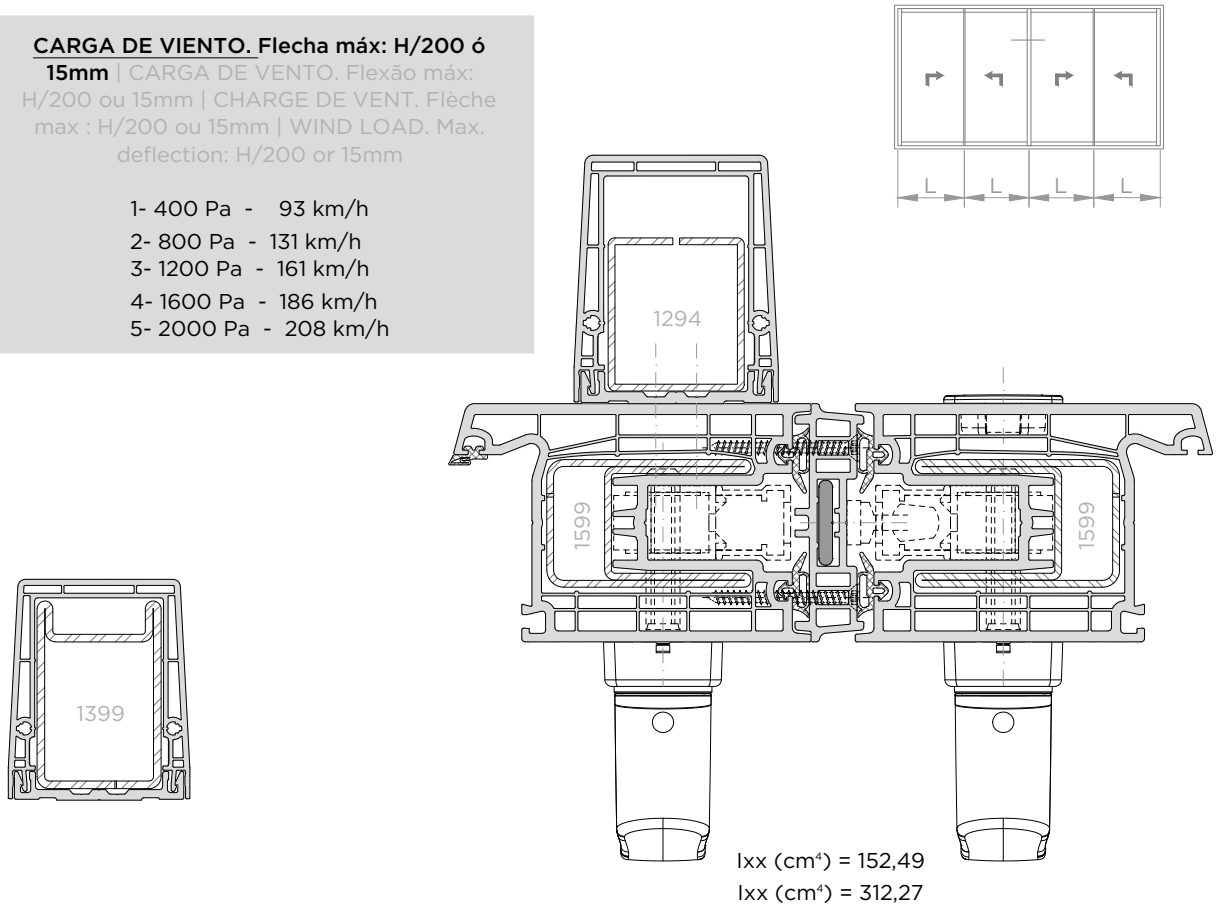
Lmax = 3300 mm

Nota: A mayores deben considerarse las limitaciones dimensionales máximas de hoja en función de la coloración del perfil | Nota: Adicionalmente, devem ser consideradas as limitações dimensionais máximas da folha em função da coloração do perfil | Note : En outre, les limitations dimensionnelles maximales de l'ouvrant doivent être prises en compte en fonction de la coloration du profilé | Note: Additionally, the maximum dimensional limitations of the sash must be considered based on the profile coloring

Dimensiones límite para nudo central bicarril unión de 4 hojas reforzada | Dimensões limite para nó central bicarril união de 4 folhas reforçada | Dimensions limites pour nœud central deux rails jonction de 4 vantaux renforcée | Limit dimensions for reinforced double track interlocking node (4-sash junction)

CARGA DE VIENTO. Flecha máx: H/200 ó 15mm | CARGA DE VENTO. Flexão máx: H/200 ou 15mm | CHARGE DE VENT. Flèche max : H/200 ou 15mm | WIND LOAD. Max. deflection: H/200 or 15mm

- 1- 400 Pa - 93 km/h
- 2- 800 Pa - 131 km/h
- 3- 1200 Pa - 161 km/h
- 4- 1600 Pa - 186 km/h
- 5- 2000 Pa - 208 km/h

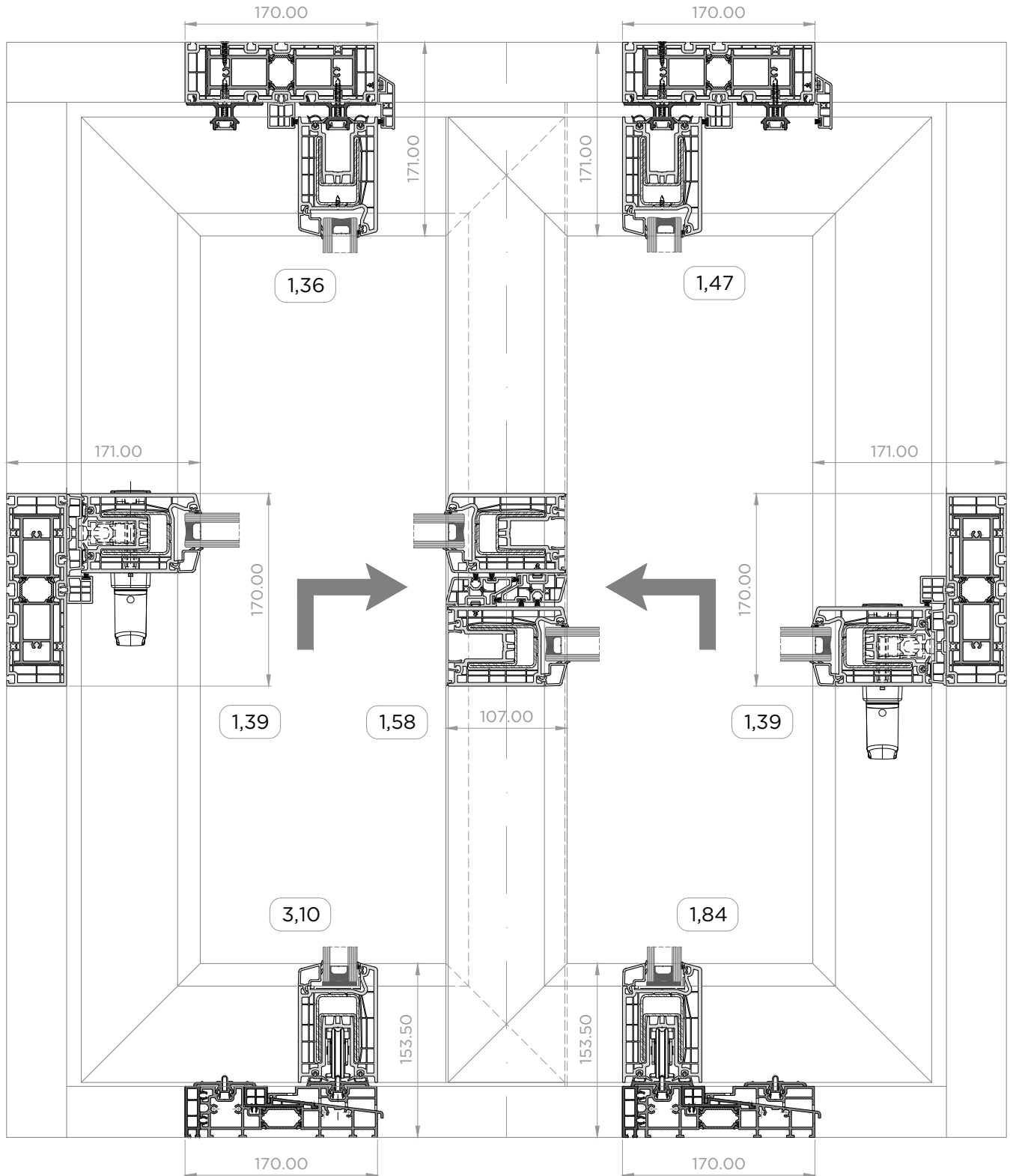


Lmax = 3300 mm

Nota: A mayores deben considerarse las limitaciones dimensionales máximas de hoja en función de la coloración del perfil | Nota: Adicionalmente, devem ser consideradas as limitações dimensionais máximas da folha em função da coloração do perfil | Note : En outre, les limitations dimensionnelles maximales de l'ouvrant doivent être prises en compte en fonction de la coloration du profilé | Note: Additionally, the maximum dimensional limitations of the sash must be considered based on the profile coloring

Cálculo del valor de transmitancia (U_f) | Cálculo do valor de transmitância (U_f) | Calcul de la valeur de transmittance (U_f) | Calculation of the transmittance value (U_f)

Solución cerramiento dos hojas correderas | Solução fechamento duas folhas de correr | Solution fermeture deux vantaux coulissants | Two-sash sliding enclosure solution



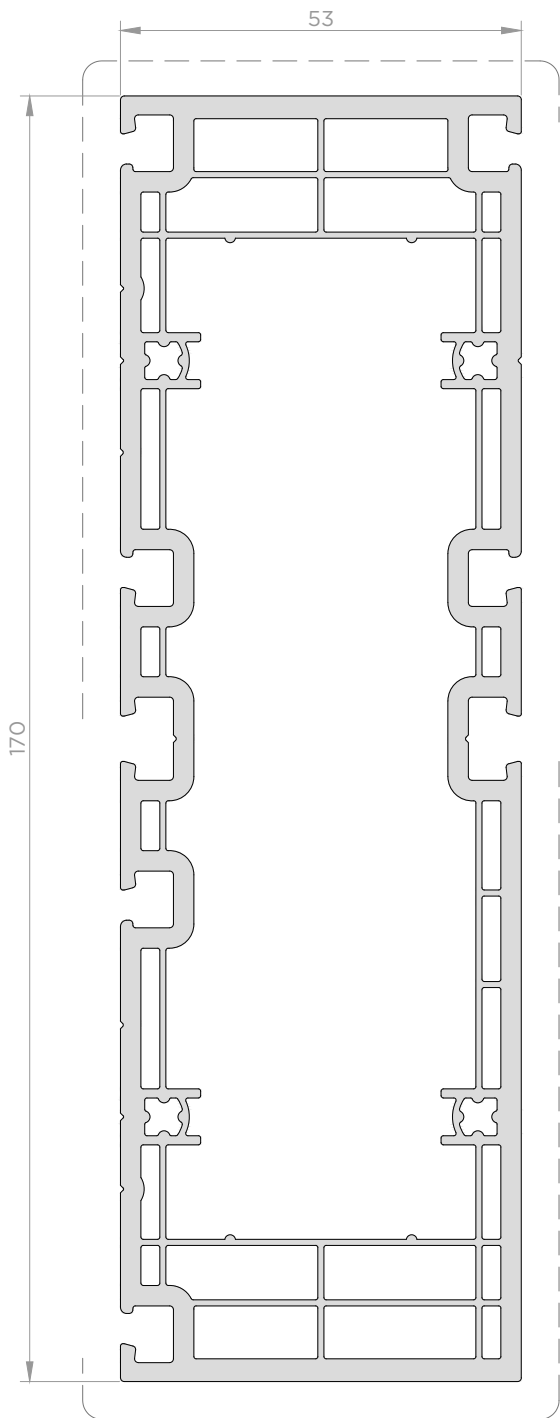
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RELACIÓN DE PERFILES

Relação de perfis

Liste de profilés

List of profiles



15601	Marco lateral y superior Marco lateral e superior Montant latéral et supérieur Lateral and top frame	
Material Material	PVC de co-extrusión PVC de coextrusão	
Peso (gr/m) Peso (gr/m)	2817,2	
Refuerzos Reforços		1591

----- Caras para ser foliadas
 | Faces a serem folheadas | Faces à folierer | Faces to be foil-wrapped

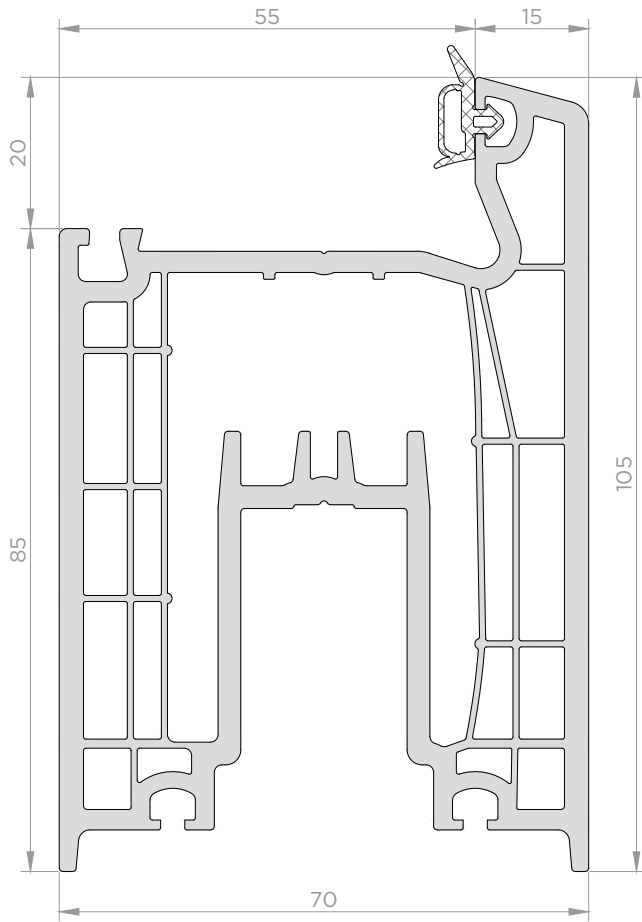
BL
 Blanco

Nota:
 El perfil base blanco se utilizará tanto para acabado en blanco como para acabados foliados en cualquier color





Nota:
 O perfil base branco será utilizado tanto para acabamento branco como para acabamentos folheados em qualquer cor

Note :
 Le profil de base blanc sera utilisé aussi bien pour la finition blanche que pour les finitions plaxées de n'importe quelle couleur

Note:
 The white base profile will be used both for white finish and for foil-wrapped finishes in any colour



15251	Hoja corredera elevable Folha de correr elevatória Ouvrant coulissant à levage Lift-and-slide sash	
Material Material	PVC de co-extrusión PVC de coextrusão	
Peso (gr/m) Peso (gr/m)	2505,5	
Refuerzos Reforços		1599
Juntas Juntas		361501  /02 
Asiento vidrio Assento vidro		351300

   
 Negro Blanco Marrón Caramelo

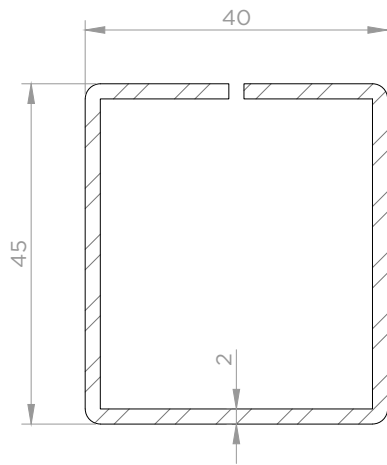
Nota:
 El perfil viene con juntas soldables.
 Junta en color gris para perfiles con base en blanco.
 Junta en color caramelo para perfiles con base en caramelo.
 Junta en color negro para perfiles con base en marrón y negro

Nota:
 O perfil é fornecido com juntas soldáveis.
 Junta de cor cinzenta para perfis com base branca.
 Junta de cor caramelo para perfis com base caramelo.
 Junta de cor preta para perfis com base castanha e preta

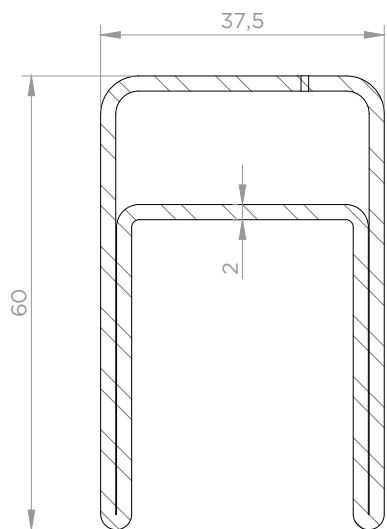
Note :
 Le profil est fourni avec des joints soudables.
 Joint de couleur grise pour les profils à base blanche.
 Joint de couleur caramel pour les profils à base caramelo.
 Joint de couleur noire pour les profils à base marron et noire

Note:
 The profile is supplied with weldable gaskets.
 Grey gasket for profiles with white base.
 Caramel gasket for profiles with caramel base.
 Black gasket for profiles with brown and black base.

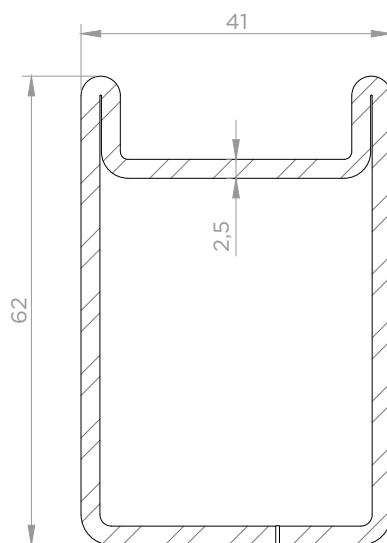
Refuerzo | Reforço



1294	Refuerzo 40x45 mm Reforço 40x45 mm Renfort 40x45 mm 40x45 mm reinforcement			
Material Material	Acero galvanizado Aço galvanizado			
Peso (gr/m) Peso (gr/m)	2458,1			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	9,18	Iyy	7,8

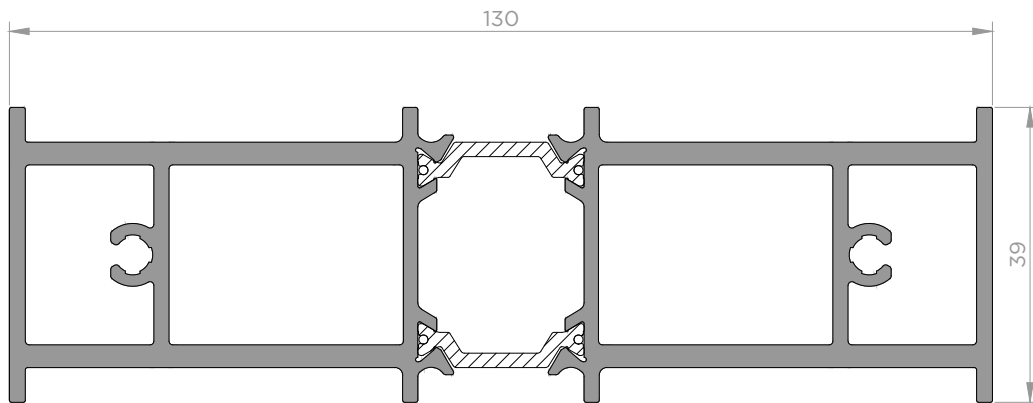


1599	Refuerzo U de 60x37.5x2 Reforço U de 60x37.5x2 Renfort U de 60x37.5x2 U-shaped reinforcement 60x37.5x2			
Material Material	Acero galvanizado Aço galvanizado			
Peso (gr/m) Peso (gr/m)	4115			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	12,42	Iyy	16,43



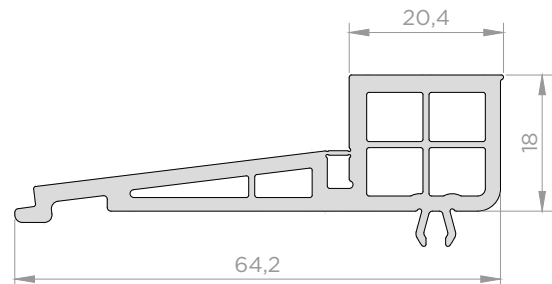
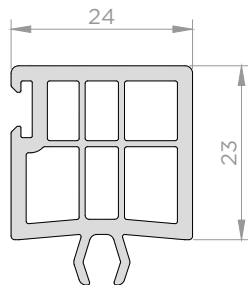
1399	Refuerzo de 62x41 Reforço de 62x41 Renfort de 62x41 62x41 reinforcement			
Material Material	Acero galvanizado Aço galvanizado			
Peso (gr/m) Peso (gr/m)	4150			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	23,5	Iyy	14,4







Refuerzo | Reforço









1591	Refuerzo marco lateral y superior RPT Reforço marco lateral e superior RPT Renfort de cadre latéral et supérieur RPT Lateral and top frame reinforcement
Material Material	Aluminio con RPT Alumínio com RPT

Divisores | Divisores

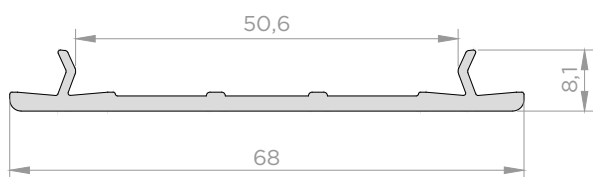


15651	Divisor marco lateral y superior Divisor marco lateral e superior Diviseur de cadre latéral et supérieur Lateral and top frame divider				
Material Material	PVC de co-extrusión PVC de coextrusão				
Peso (gr/m) Peso (gr/m)	353,3				
Juntas Juntas	<table border="0"> <tr> <td></td> <td>354603 ■</td> </tr> <tr> <td></td> <td>950015 ■ /16 ■</td> </tr> </table>		354603 ■		950015 ■ /16 ■
	354603 ■				
	950015 ■ /16 ■				

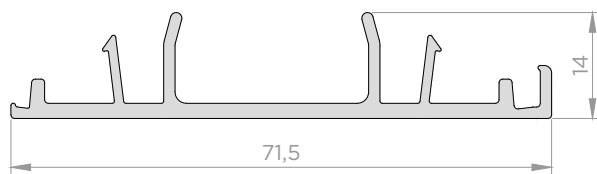
15721	Divisor zapata inferior Divisor sapata inferior Diviseur de sabot inférieur Lower shoe divider				
Material Material	PVC PVC				
Peso (gr/m) Peso (gr/m)	353,3				
Juntas Juntas	<table border="0"> <tr> <td></td> <td>354603 ■</td> </tr> <tr> <td></td> <td>950015 ■ /16 ■</td> </tr> </table>		354603 ■		950015 ■ /16 ■
	354603 ■				
	950015 ■ /16 ■				

RELACIÓN DE PERFILES | Relação de perfis

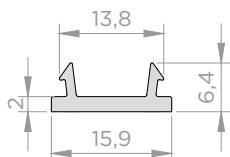
Tapetas / Tapas | Tapas / Apliques



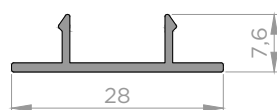
15641	Tapa marco superior con fijo Tampa marco superior com fixo Cache de cadre supérieur avec partie fixe Top frame cover for fixed panel
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	237,7



15451	Tapeta central hoja Tampa central folha Couvre-joint central ouvrant Central sash cover
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	324,4

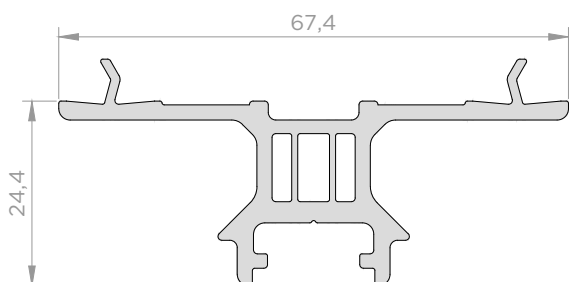


13161	Tapa C16 Tampa C16 Cache C16 C16 Cover
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	62,4

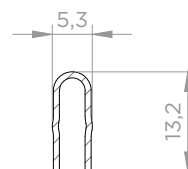


9214	Tapeta Tampa Couvre-joint Trim
Material Material	Aluminio Aluminio

Guías | Guias | Coulisses | Shutter guide



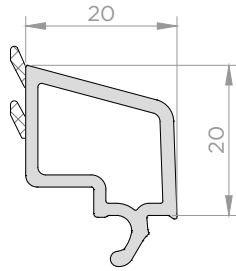
15631	Guía marco superior hoja Guia marco superior folha Guide cadre supérieur ouvrant Upper frame sash guide
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	483,7



4503	Guía inferior Guia inferior Guide inférieur Bottom guide
Material Material	Acero inoxidable AISI 316 Aço inoxidável AISI 316

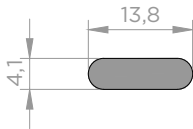
RELACIÓN DE PERFILES | Relação de perfis

Junquillos | Bite

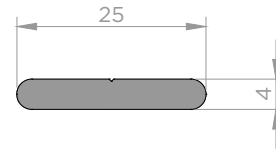


16031	Junquillo de 20 mm Junquillo de 20 mm Parclose de 20 mm 20 mm Glazing bead
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	216,3

Pletinas | Pletinas

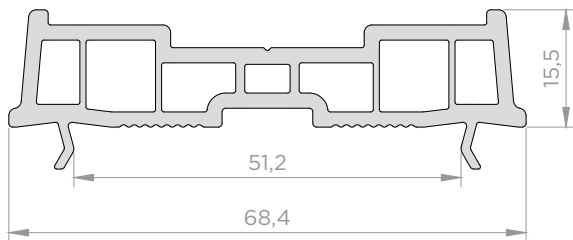


1289	Pletina 14x4 Platina 14x4 Plat 14x4 Flat bar 14x4
Material Material	Aluminio Alumínio

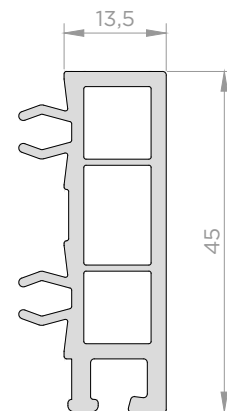


1589	Pletina Platina Plat Flat bar
Material Material	Aluminio Alumínio

Varios | Varios | Autres | Assorted



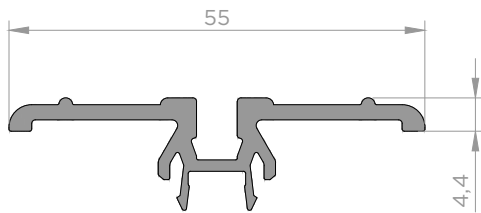
15611	Acople lateral y superior Acoplamento lateral e superior Raccord latéral et supérieur Lateral and top coupling profile
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	570,4



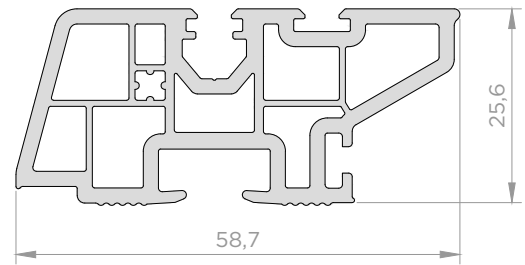
15711	Embelecedor interior zapata inferior Embelezador interior sapata inferior Enjoliveur intérieur sabot inférieur Interior bottom shoe trim
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	417,1

RELACIÓN DE PERFILES | Relação de perfis

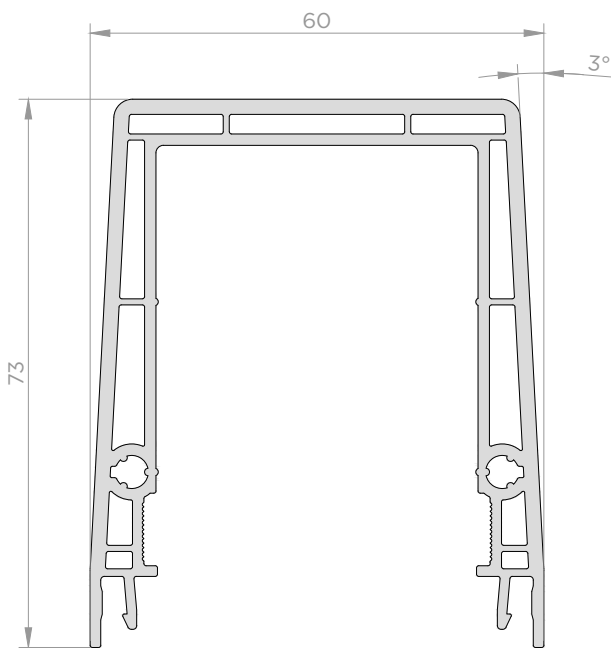
Varios | Varios



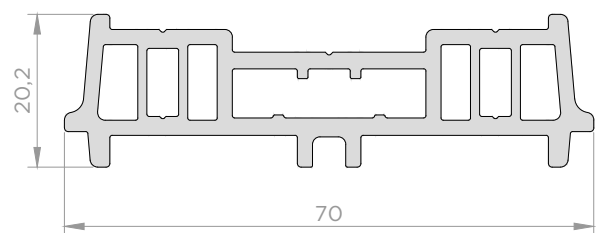
1578	Soporte guía carril Suporte guia carril Support guide rail Rail guide support
Material Material	Aluminio anodizado natural Aluminio anodização natural



15461	Engatillado cruce de hojas Engatilhamento cruzamento de folhas Chicane croisement d'ouvrants Interlocking sash profile						
Material Material	PVC PVC						
Peso (gr/m) Peso (gr/m)	701,1						
Juntas Juntas	<table border="1"> <tr> <td></td> <td>354603</td> <td>■</td> </tr> <tr> <td></td> <td>950015</td> <td>■/16 ■</td> </tr> </table>		354603	■		950015	■/16 ■
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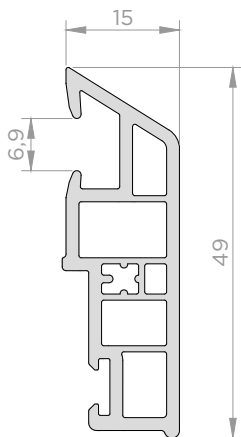
12181	Cobertor refuerzo travesaño Cobertura reforço travessa Cache renfort traverse Transom reinforcement cover
Material Material	PVC de co-extrusión PVC de coextrusão
Peso (gr/m) Peso (gr/m)	2817,2
Refuerzos Reforços	1294








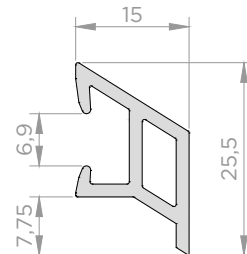
15511	Unión de 4 hojas União de 4 folhas Jonction de 4 ouvrants 4-sash junction
Material Material	PVC PVC
Peso (gr/m) Peso (gr/m)	700,8

RELACIÓN DE PERFILES | Relação de perfis

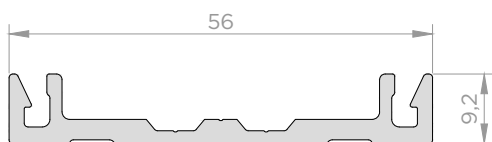
Varios | Varios



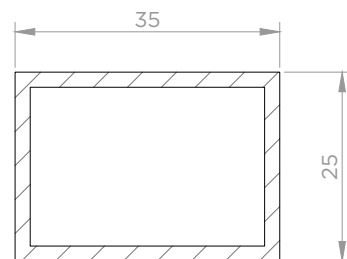
15161	Goterón hoja exterior Pingadeira folha exterior Jet d'eau ouvrant extérieur Exterior sash drip bar		
Material Material	PVC PVC		
Peso (gr/m) Peso (gr/m)	701,1		
Juntas Juntas		354603	
		950015	 /16 



12151	Vierte-aguas Pingadeira Rejet d'eau Weather bar		
Material Material	PVC PVC		
Peso (gr/m) Peso (gr/m)	150,8		

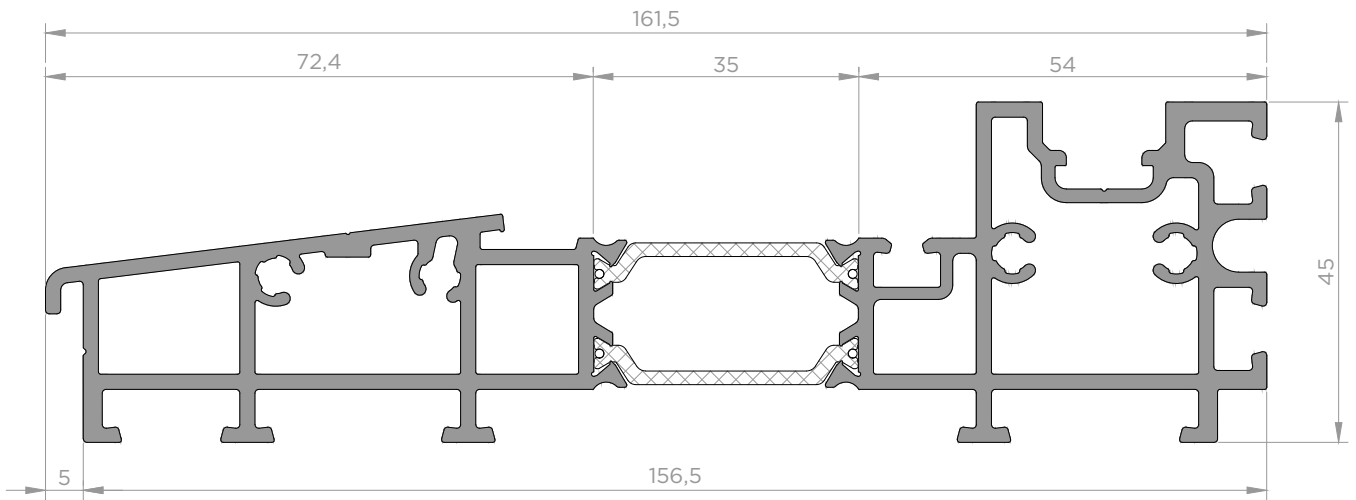


12191	Base cobertor ref. travesaño Base cobertura ref. travessa Base cache renf. traverse Transom reinf. cover base		
Material Material	PVC PVC		
Peso (gr/m) Peso (gr/m)	292,6		

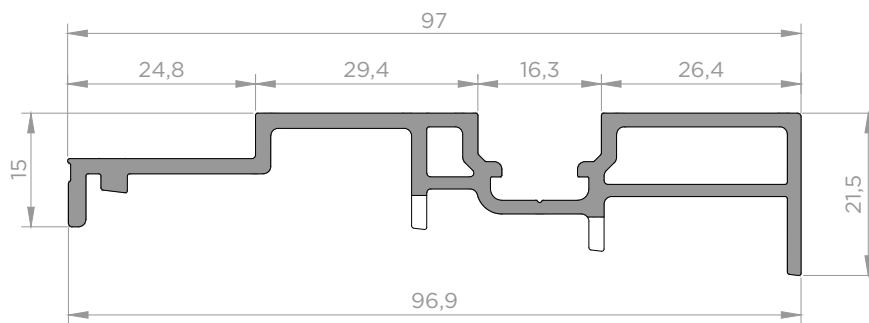


770199	Tubo de 35x25 mm Tubo de 35x25 mm Tube de 35x25 mm 35x25 mm Tube			
Material Material	Acero galvanizado Aço galvanizado			
Peso (gr/m) Peso (gr/m)	604,8			
Inercia (cm ⁴) Inercia (cm ⁴)	Ixx	2,76	Iyy	3,72

Varios | Varios



1570	Zapata inferior Sapata inferior Sabot inférieur Bottom shoe
Material	Aluminio anodizado natural Alumínio anodização natural



1577	Complemento zapata inferior hoja exterior - Troquelado Complemento sapata inferior folha exterior - Puncionado Complément sabot inférieur ouvrant extérieur - Poinçonné Exterior sash bottom shoe accessory - Punched
Material	Aluminio anodizado natural Alumínio anodização natural

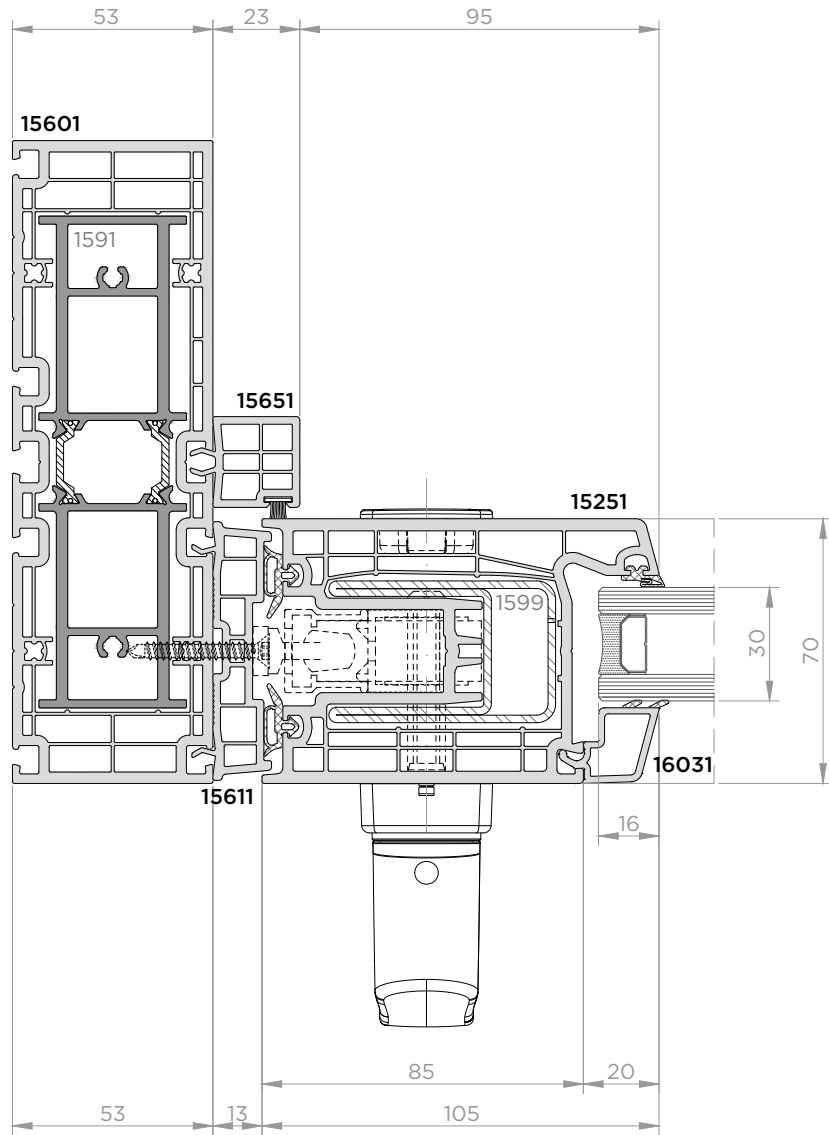
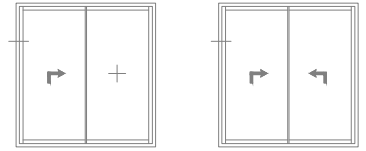
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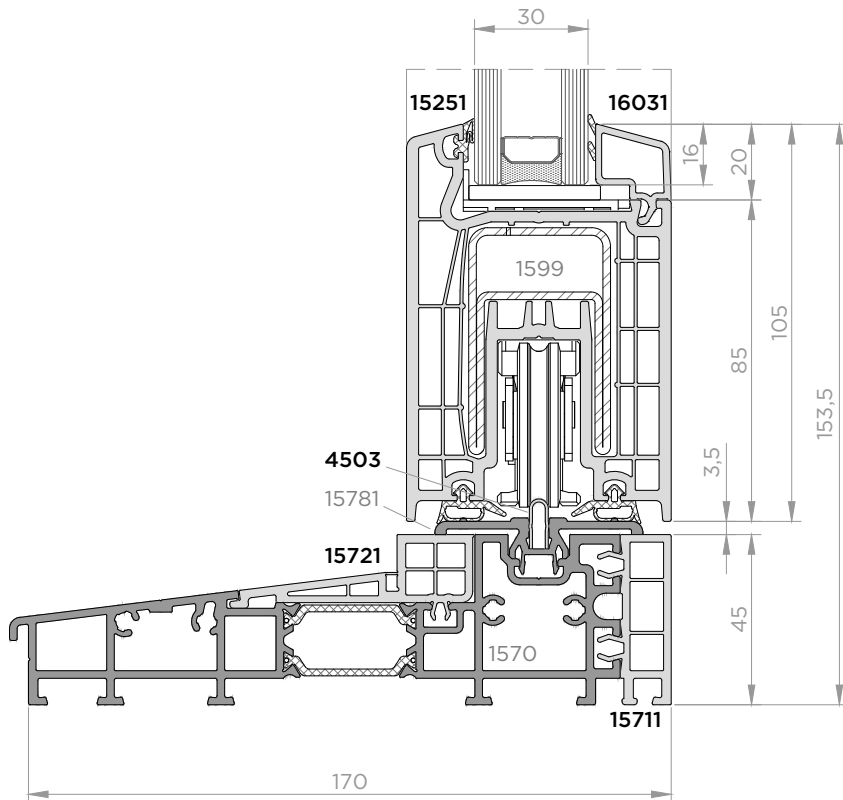
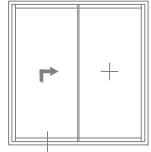
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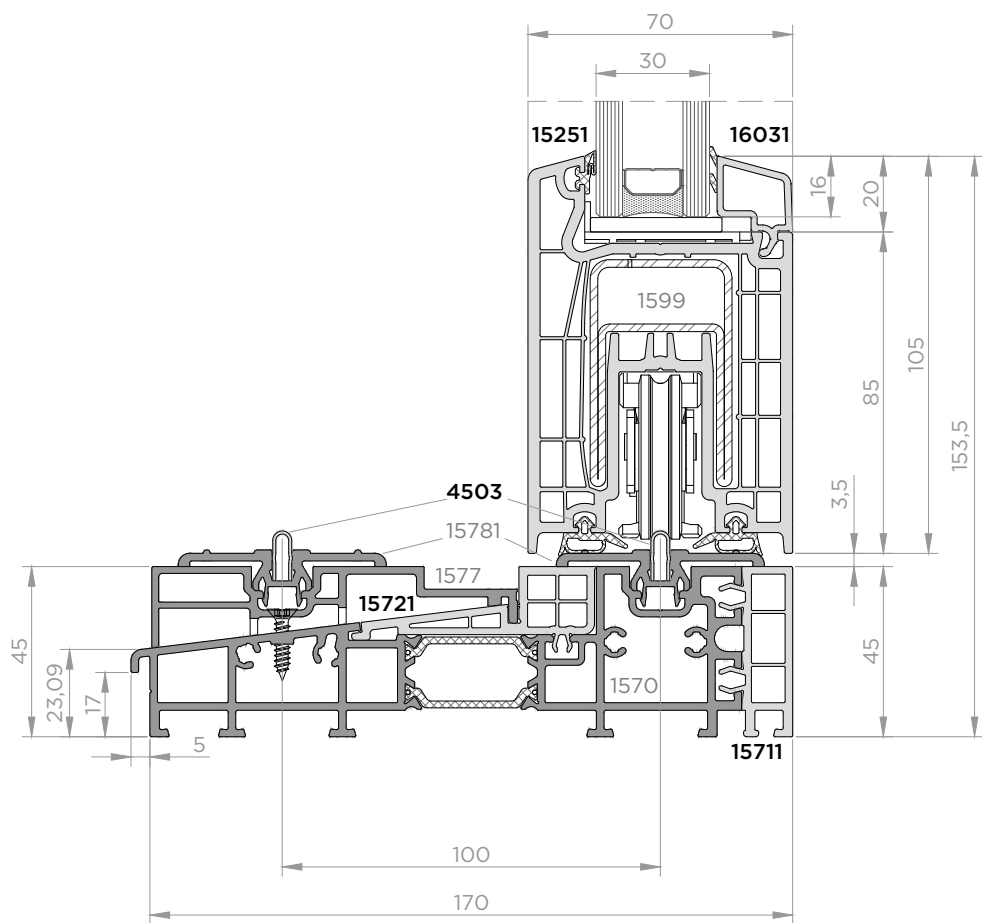
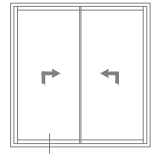
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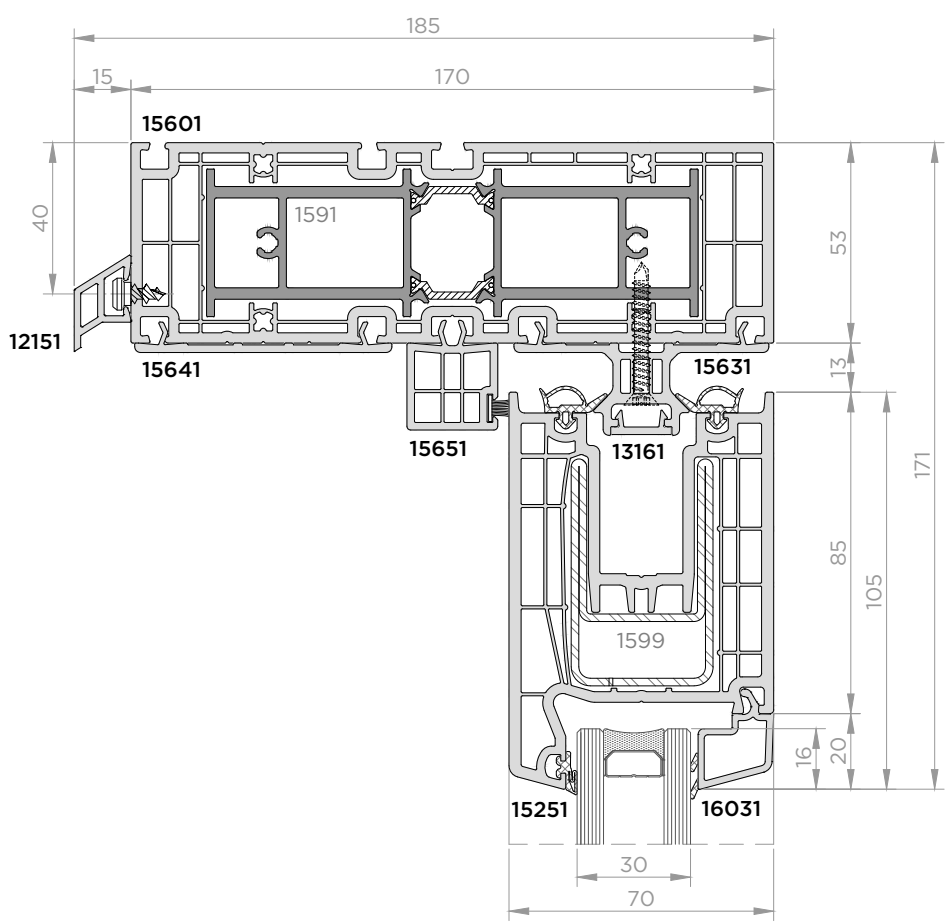
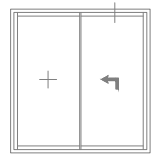
Componentes e secções | Composants et sections | Components and sections

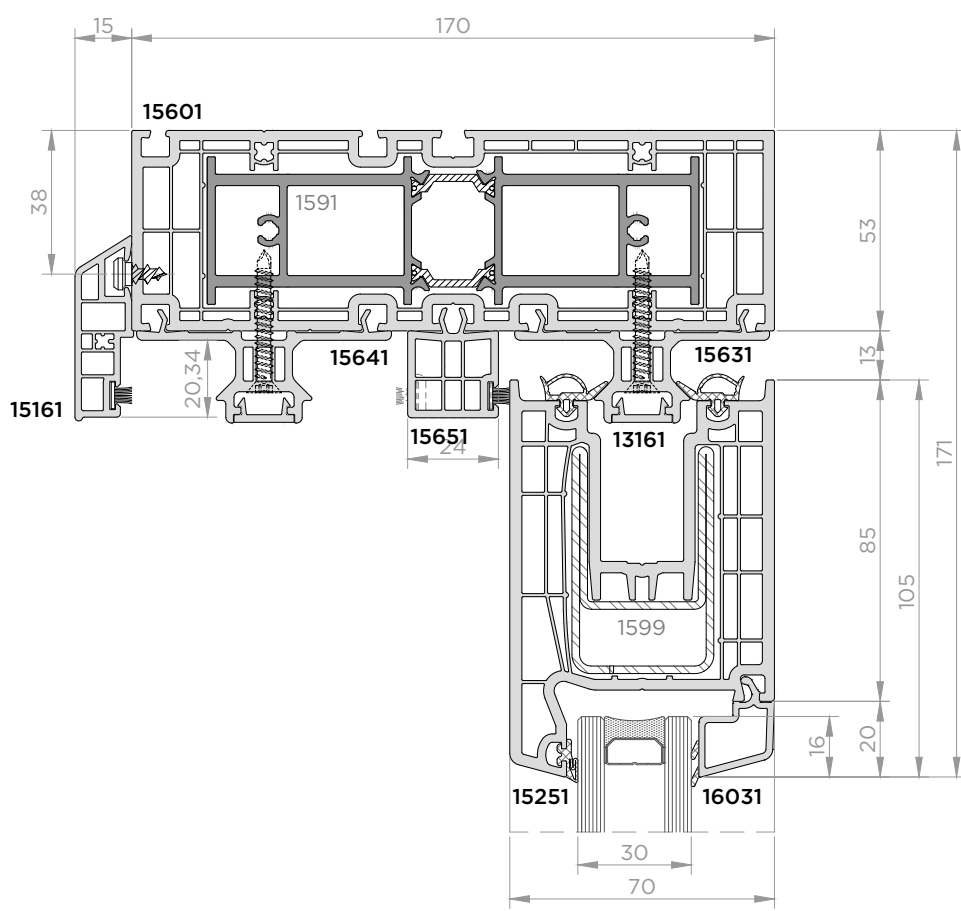
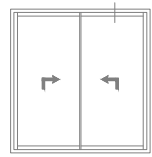
COMPONENTES Y SECCIONES

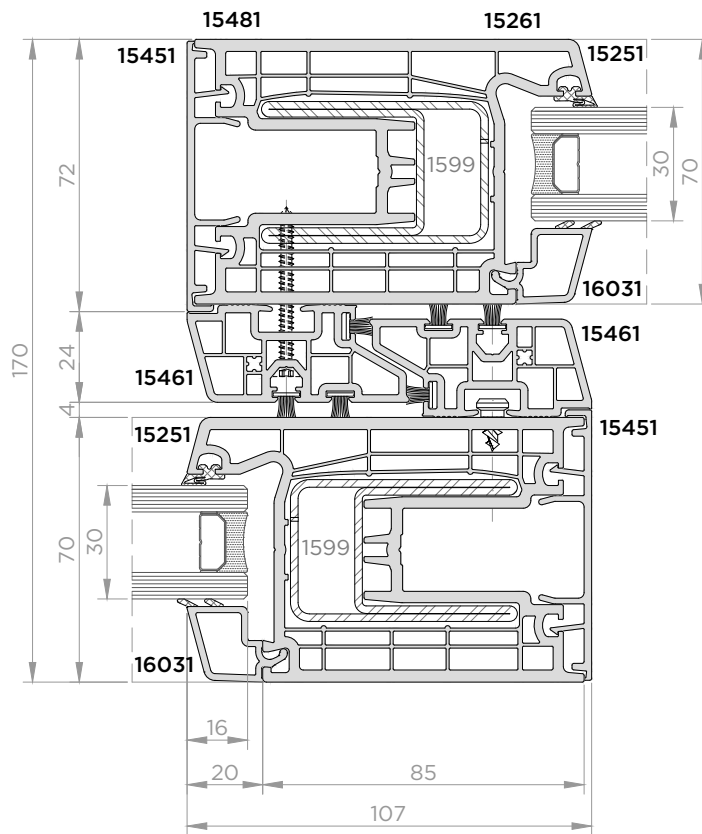
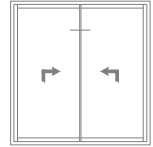


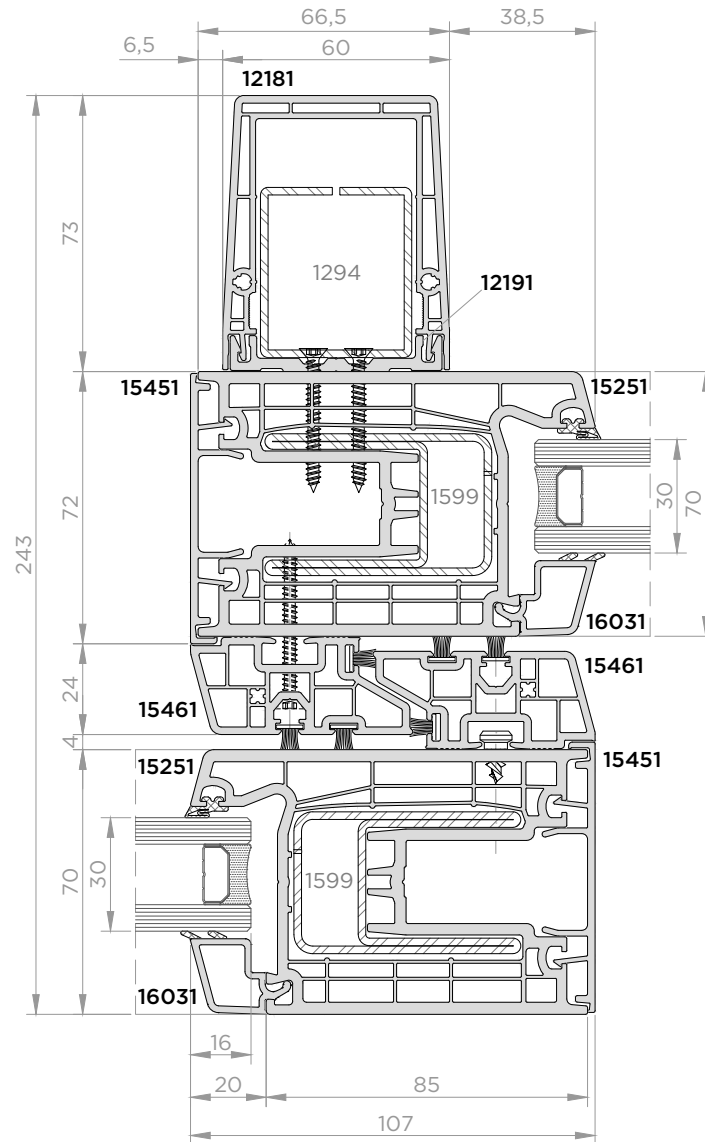
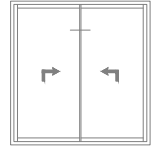


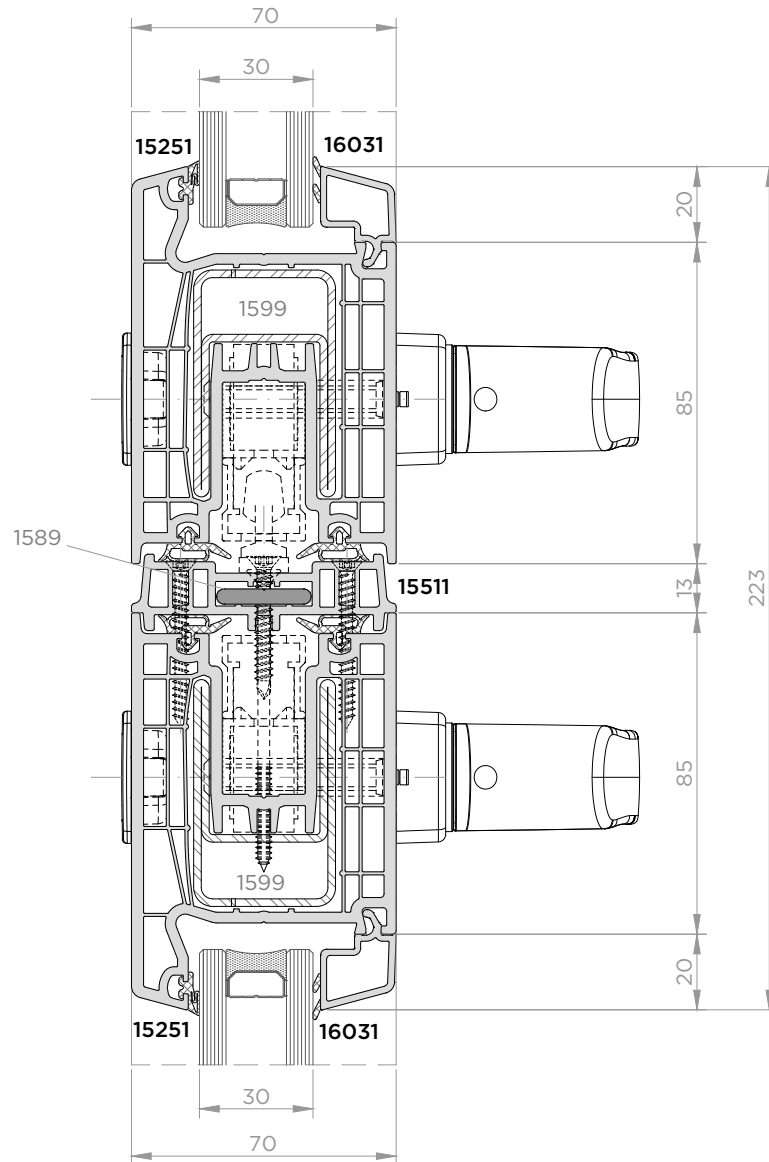
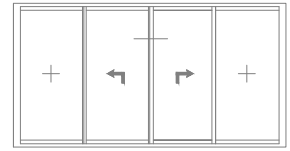












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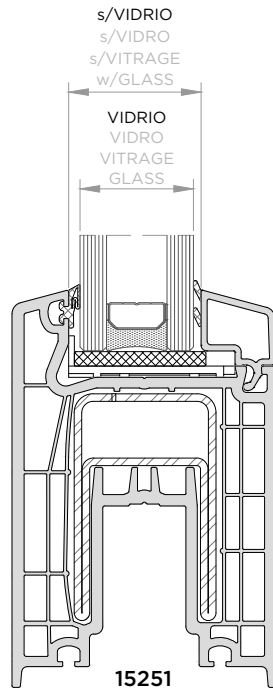
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ACRISTALAMIENTO

Envidraçado

Vitrage

Glazing



Vidrio máximo V (mm) Vidro máximo V Vitrage maximum V Maximum glass V	Asiento hoja Assento da folha Logement de l'ouvrant Sash seat	Calzo Calço Cale Shim	Juntas () exterior / interior Juntas () extérieur / intérieur Gaskets () exterior / interior		Junquillo (co-extrusión) Bago (co-extrusão) Parclose (co-extrusion) Glazing bead (co-extrusion)	
			Perfil Blanco	Perfil Color		
42	351300	330452	Gris	Negro Caramelo		Ref.: 16001 6,5 mm.
38	351300	330452	Gris	Negro Caramelo		Ref.: 16011 9 mm.
32	351300	330444	Gris	Negro Caramelo		Ref.: 16021 15 mm.
28	351300	330444	Gris	Negro Caramelo		Ref.: 16031 20 mm.
24	351300	330444	Gris	Negro Caramelo		Ref.: 16041 25 mm.

(*) NOTAS: | (*) Notas: | (*) Notes: | (*) Notes:

La junta de acristalar exterior se suministra montada y soldada al propio perfil. (Junta PVC+NBR, soldable).

A junta de envidraçamento exterior é fornecida montada e soldada ao próprio perfil. (Junta PVC+NBR, soldável).
Le joint de vitrage extérieur est fourni monté et soudé au profilé lui-même. (Joint PVC+NBR, soudable).
The exterior glazing gasket is supplied pre-assembled and welded to the profile itself. (PVC+NBR gasket, weldable).

*Junta exterior para recambio:

*Junta exterior para substituição:

*Joint extérieur pour pièce de rechange:

*Exterior gasket for replacement:

361301 (Gris) | 361301 (Cinzeno) | 361301 (Gris) | 361301 (Grey)

361302 (Negro) | 361302 (Preto) | 361302 (Noir) | 361302 (Black)

371303 (Caramelo) | 371303 (Caramelo) | 371303 (Caramel) | 371303 (Caramel)

*Junta de junquillo para recambio:

*Junta de bago para substituição:

*Joint de parclose pour pièce de rechange:

*Glazing bead gasket for replacement:

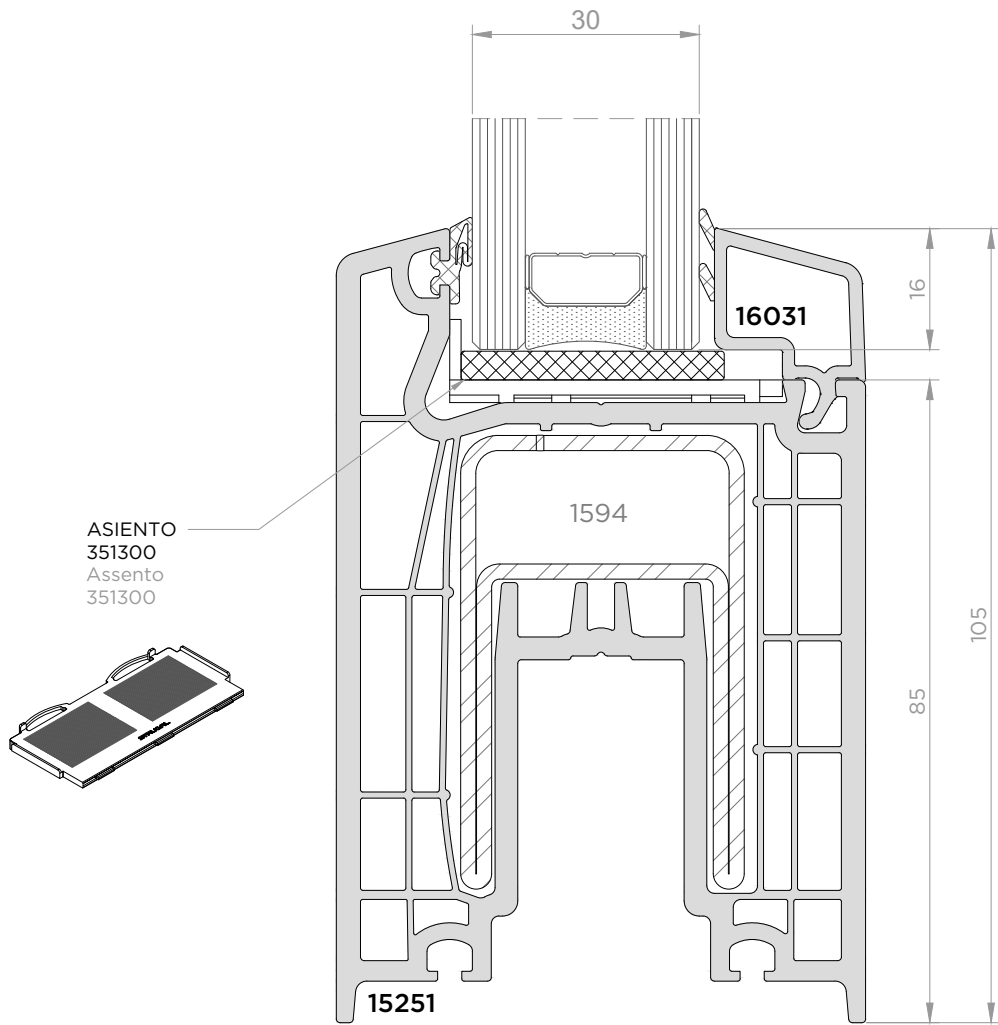
351221 (Gris) | 351221 (Cinzeno) | 351221 (Gris) | 351221 (Grey)

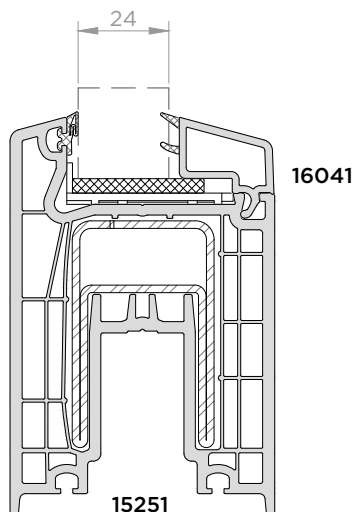
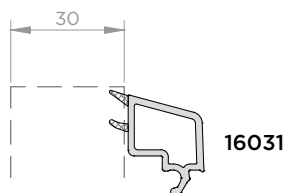
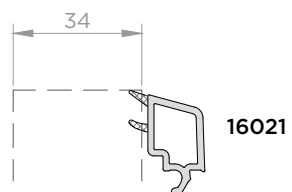
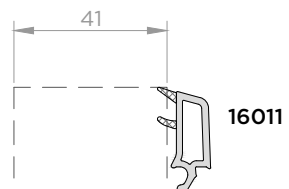
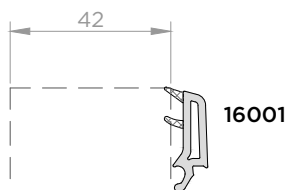
351222 (Negro) | 351222 (Preto) | 351222 (Noir) | 351222 (Black)

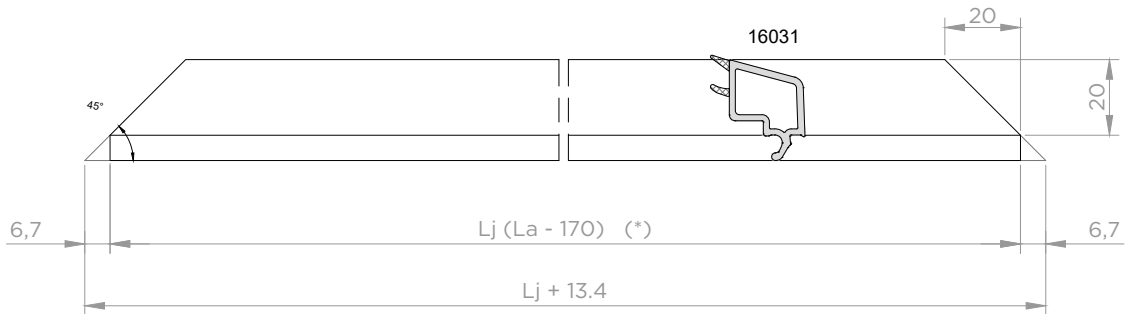
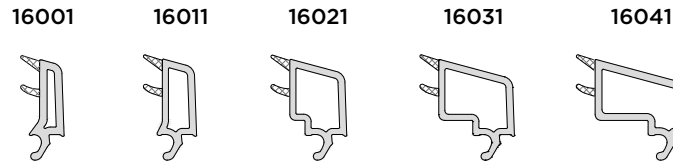
351223 (Caramelo) | 351223 (Caramelo) | 351223 (Caramel) | 351223 (Caramel)

Disponibles calces de 1, 3, 4 y 5 mm. de espesor. | Disponíveis calços de 1, 3, 4 e 5 mm. de espessura. | Calcs disponibles en 1, 3, 4 et 5 mm. d'épaisseur. | Available shims in 1, 3, 4 and 5 mm. thickness.

- 1 mm: 330120 /24 /34 /40 /44 /52
- 3 mm: 330319 /24 /34 /40 /44 /52
- 4 mm: 330420 /24 /34 /40 /44 /52
- 5 mm: 330520 /24 /34 /40 /44 /52







Notas:

Ejemplo de uso con Junquillo 16031. Corte de junquillo a inglete (45°), y eliminación de patilla de enganche. Misma disposición con el resto de junquillos. (*) Los descuentos varían en función de la hoja y/o marco en donde se monte el junquillo.

Notas:

Exemplo de utilização com Bago 16031. Corte do bago em meia-esquadria (45°) e eliminação da patilha de encaixe. Mesma disposição com os restantes bago. (*) Os descontos variam em função da folha e/ou aro onde o bago é montado.

Notes:

Exemple d'utilisation avec Parclose 16031. Coupe de la parclose en onglet (45°) et élimination de la patte d'accrochage. Même disposition avec le reste des parcloses. (*) Les déductions varient en fonction de l'ouvrant et/ou du dormant où la parclose est montée.

Notes:

Example of use with Glazing bead 16031. Miter cut of the glazing bead (45°) and removal of the hooking leg. Same arrangement for the rest of the glazing beads. (*) Deductions vary depending on the sash and/or frame where the glazing bead is mounted.



Nota importante:

medidas de corte indicadas en la hoja sin tener en cuenta la soldadura [la (+6) y ha (+6)].

Nota importante:

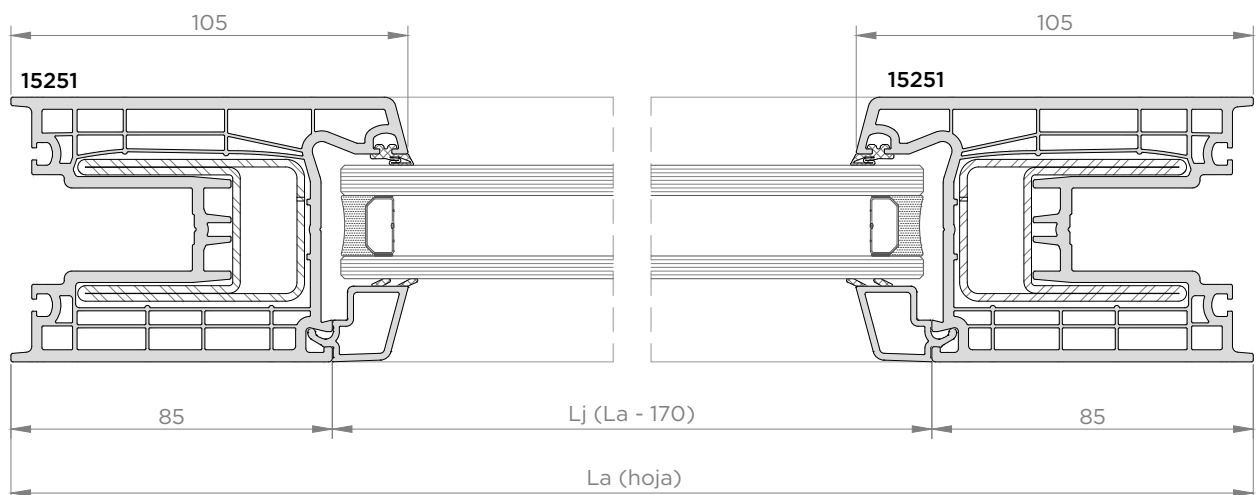
medidas de corte indicadas na folha sem ter em conta a soldadura [la (+6) e ha (+6)].

Note importante:

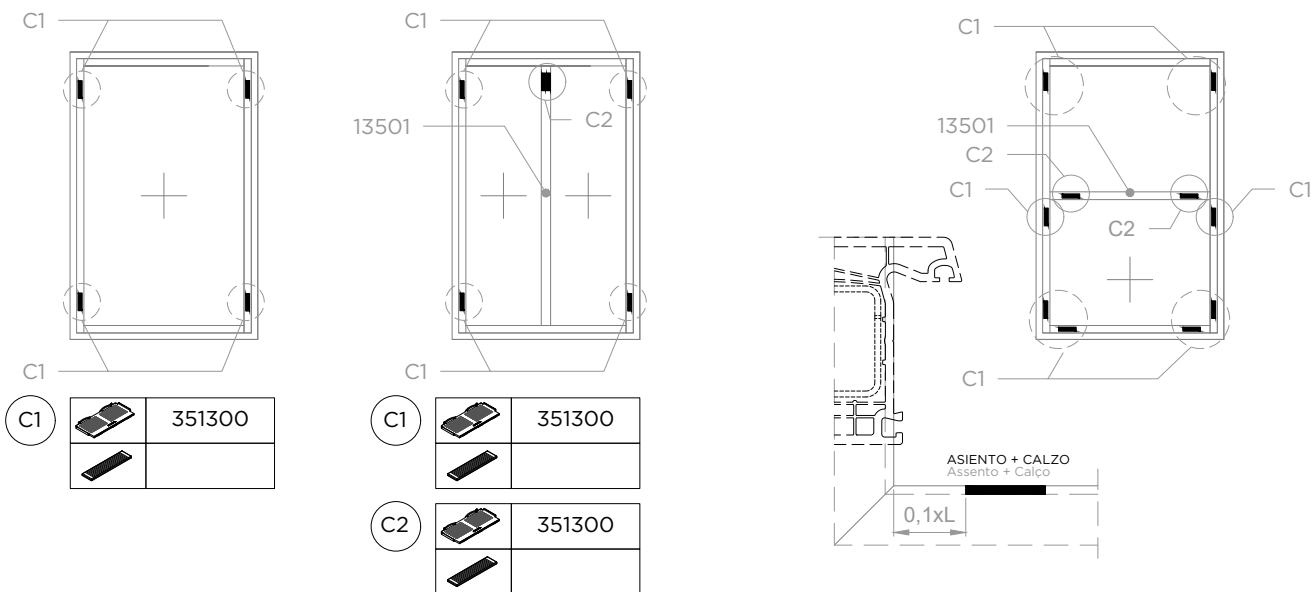
mesures de coupe indiquées sur la fiche sans tenir compte de la soudure [la (+6) et ha (+6)].

Important note:

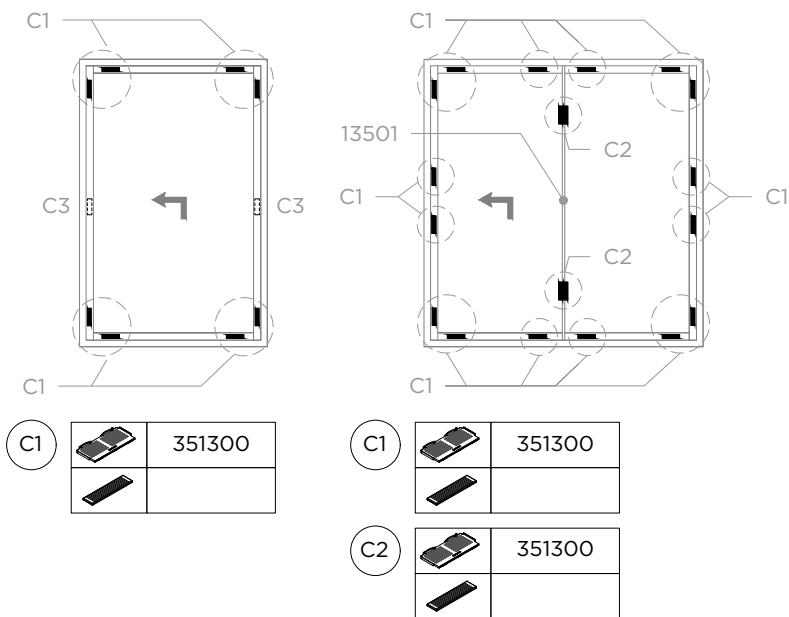
cutting measurements indicated on the sheet without taking welding into account [la (+6) and ha (+6)].



Marco para fijos | Aro para fixos | Dormant pour fixes | Frame for fixed units



Corredera | Corrediça | Coulissant | Sliding



Los calzos deben colocarse necesariamente como prevén los croquis anteriormente indicados, sin añadir otros calzos en otras situaciones. Los calzos dispondrán de una longitud de unos 100 mm. | Os calços devem ser colocados necessariamente como previsto nos croquis anteriormente indicados, sem adicionar outros calços noutras situações. Os calços terão um comprimento de cerca de 100 mm. | Les cales doivent être impérativement placées comme prévu sur les croquis indiqués précédemment, sans ajouter d'autres cales dans d'autres positions. Les cales auront une longueur d'environ 100 mm. | The shims must necessarily be placed as provided in the previously indicated sketches, without adding other shims in other positions. The shims will have a length of about 100 mm.

La distancia entre el eje de los calzos y el borde del vidrio, será aprox. de L/10 (L = longitud de vidrio.) | A distância entre o eixo dos calços e a borda do vidro será aprox. de L/10 (L = comprimento do vidro.) | La distance entre l'axe des cales et le bord du vitrage sera d'environ L/10 (L = longueur du vitrage.) | The distance between the axis of the shims and the edge of the glass will be approx. L/10 (L = glass length.)

- Nomenclatura de los Asientos y Calzos:**
 C1 = ASIENTO Y CALZO DE APOYO.
 C2 = ASIENTO Y CALZO PERIMETRAL.
 C3 = ASIENTO Y CALZO DE SEGURIDAD.
- Nomenclatura dos Assentos e Calços:**
 C1 = ASSENTO E CALÇO DE APOIO.
 C2 = ASSENTO E CALÇO PERIMETRAL.
 C3 = ASSENTO E CALÇO DE SEGURANÇA.
- Nomenclature des Logements et Cales :**
 C1 = LOGEMENT ET CALE D'APPUI.
 C2 = LOGEMENT ET CALE PÉRIMÉTRALE.
 C3 = LOGEMENT ET CALE DE SÉCURITÉ.
- Nomenclature of Seats and Shims:**
 C1 = SUPPORT SEAT AND SHIM.
 C2 = PERIMETER SEAT AND SHIM.
 C3 = SECURITY SEAT AND SHIM.



NOTAS IMPORTANTES : Para desaguar y/o airear los galces de los marcos y de las hojas, los bastidores dispondrán de unas salidas en forma de ranura (12x5) bien por doble taladro consecutivo (Ø5 mm.). Las salidas para drenaje y/o aireación practicadas no deberán quedar tapadas por la ubicación de los asientos y calzos de acristalar. En las carpinterías de PVC no deberán realizarse trabajos de acristalamiento en condiciones de temperaturas inferiores a los + 5°C. Para iniciar el proceso de acristalar la hoja, la misma deberá estar montada sobre el marco. | **NOTAS IMPORTANTES:** Para drenar e/ou ventilar os fechos dos aros e das folhas, os caixilhos devem ter saídas em forma de ranhura (12x5) ou por furação dupla consecutiva (Ø5 mm.). As saídas de drenagem e/ou ventilação efectuadas não devem ser tapadas pela localização dos assentos e calços de vidragem. Nas caixilharias de PVC, os trabalhos de vidragem não devem ser efectuados a temperaturas inferiores a + 5°C. Para iniciar o processo de vidragem da folha, esta deve estar montada no aro. | **NOTES IMPORTANTES :** Pour le drainage et/ou la ventilation des feuillures des dormants et des ouvrants, les cadres disposeront de sorties soit sous forme de rainure (12x5), soit par double perçage consécutif (Ø5 mm.). Les sorties de drainage et/ou de ventilation pratiquées ne doivent pas être obstruées par l'emplacement des logements et des cales de vitrage. Pour les menuiseries en PVC, les travaux de vitrage ne doivent pas être effectués à des températures inférieures à + 5°C. Pour commencer le processus de vitrage de l'ouvrant, celui-ci doit être monté sur le dormant. | **IMPORTANT NOTES:** To drain and/or ventilate the rebates of the frames and sashes, the frames shall have outlets either in the form of a slot (12x5) or by double consecutive drilling (Ø5 mm.). The drainage and/or ventilation outlets provided must not be covered by the location of the glazing seats and shims. In PVC joinery, glazing work must not be carried out at temperatures below + 5°C. To start the process of glazing the sash, it must be mounted on the frame.

No emplear vidrios defectuosos, comprobando antes si presentan algún tipo de daño, sobretodo en las esquinas y bordes. Evitar el acristalamiento a temperaturas inferiores a 5°C, por riesgo de rotura ante el enfriamiento excesivo del perfil de PVC. Antes de proceder a acristalar en obra, la ventana debe estar ya enlucida y empotrada completamente. No descolgar las hojas del marco durante el acristalamiento. Si se emplea junta de recambio, deberá eliminarse previamente cualquier resto de soldadura existente en la ranura o canal de la junta.

Não utilizar vidros defeituosos, verificando previamente se apresentam algum tipo de dano, especialmente nos cantos e arestas. Evitar a vidragem a temperaturas inferiores a 5°C, devido ao risco de rutura perante o arrefecimento excessivo do perfil de PVC. Antes de proceder à vidragem em obra, a janela deve estar já rebocada e encastrada completamente. Não despendurar as folhas do aro durante a vidragem. Se for utilizada uma junta de substituição, deve eliminar-se previamente qualquer resto de soldadura existente na ranhura ou canal da junta.

Ne pas utiliser de vitrages défectueux, en vérifiant au préalable s'ils présentent des dommages, notamment sur les coins et les bords. Éviter le vitrage à des températures inférieures à 5°C, en raison du risque de rupture lié au refroidissement excessif du profilé PVC. Avant de procéder au vitrage sur chantier, la fenêtre doit être déjà enduite et complètement scellée. Ne pas dégonder les ouvrants du dormant pendant le vitrage. Si un joint de rechange est utilisé, tout reste de soudure existant dans la rainure ou le canal du joint doit être préalablement éliminé.

Do not use defective glass, checking beforehand for any type of damage, especially on corners and edges. Avoid glazing at temperatures below 5°C, due to the risk of breakage from excessive cooling of the PVC profile. Before proceeding with glazing on site, the window must already be plastered and completely embedded. Do not remove the sashes from the frame during glazing. If a replacement gasket is used, any remaining welding residue in the groove or gasket channel must be removed beforehand.

Montaje de junquillos | Montagem de bagos | Montage des parcloles | Installation of glazing beads

Procedimiento general:

Comprobar medidas de corte de los junquillos. Los junquillos se cortan preferiblemente a inglete (45°). Para evitar tensiones y roturas durante su colocación deben cortarse sin sobrante al largo. Debe colocarse en primer lugar los junquillos correspondientes a los lados más cortos. Nota: En junquillos de menor dimensión pueden practicarse en la zona central unos cortes para facilitar su flexión y clipado posterior (ver detalle Det.1). Colocar y clipar los junquillos desde el centro hacia los exteriores, haciendo uso de un martillo de nylon. Debe colocarse por el pie de anclaje del junquillo y golpear levemente con el martillo. Los junquillos de los lados más largos se doblarán y guiarán por sus extremos en los ingletes respectivos. Se encajará el junquillo golpeando el mismo con el martillo en dirección siempre hacia los lados. Para desclipar los junquillos se hará uso de un formón o de una paleta estrecha, introduciéndolo en horizontal entre el perfil y la base del junquillo. Extraer los junquillos con cuidado.

Procedimento geral:

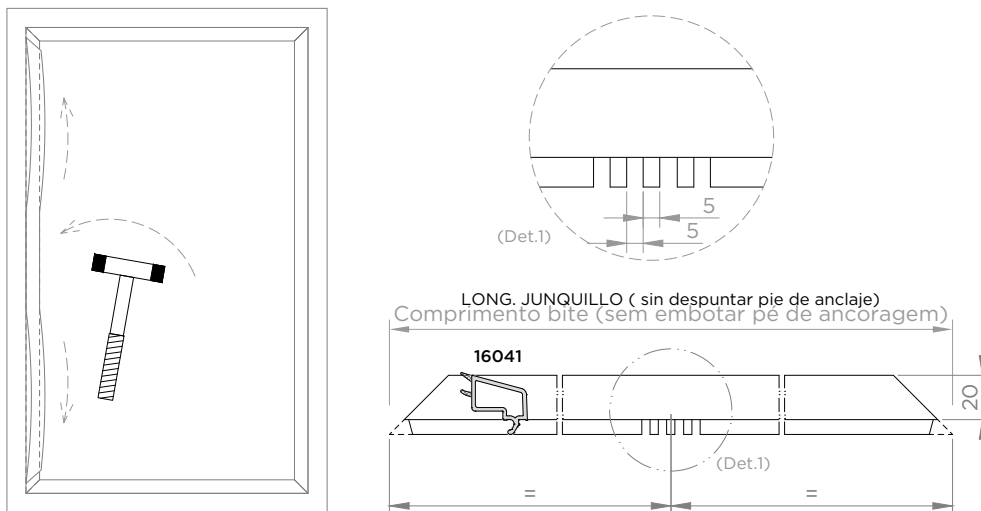
Verificar as medidas de corte dos bagos. Os bagos são cortados preferencialmente em meia-esquadria (45°). Para evitar tensões e ruturas durante a sua colocação, devem ser cortados sem excesso no comprimento. Devem ser colocados em primeiro lugar os bagos correspondentes aos lados mais curtos. Nota: Em bagos de menor dimensão, podem ser feitos alguns cortes na zona central para facilitar a sua flexão e posterior encaixe (ver detalhe Det.1). Colocar e encaixar os bagos do centro para as extremidades, utilizando um martelo de nylon. Deve ser colocado pelo pé de fixação do bago e bater levemente com o martelo. Os bagos dos lados mais longos serão dobrados e guiados pelas suas extremidades nas respetivas meias-esquadrias. O bago será encaixado batendo no mesmo com o martelo sempre em direção aos lados. Para desencaixar os bagos, deve utilizar-se um formão ou uma espátula estreita, introduzindo-a horizontalmente entre o perfil e a base do bago. Remover os bagos com cuidado.

Procédure générale :

Vérifier les mesures de coupe des parcloles. Les parcloles sont de préférence coupées en onglet (45°). Pour éviter les tensions et les ruptures lors de la pose, elles doivent être coupées sans surplus de longueur. Il faut d'abord poser les parcloles correspondant aux côtés les plus courts. Note : Sur les parcloles de petites dimensions, des coupes peuvent être pratiquées dans la zone centrale pour faciliter leur flexion et leur clipsage ultérieur (voir détail Det.1). Poser et clipser les parcloles du centre vers l'extérieur, à l'aide d'un maillet en nylon. Il faut l'insérer par le pied d'ancrage de la parclose et frapper légèrement avec le maillet. Les parcloles des côtés les plus longs seront courbées et guidées par leurs extrémités dans les onglets respectifs. La parclose s'emboîtera en frappant sur celle-ci avec le maillet, toujours en direction des côtés. Pour déclipser les parcloles, on utilisera un ciseau ou une spatule étroite, en l'introduisant horizontalement entre le profilé et la base de la parclose. Retirer les parcloles avec précaution.

General procedure:

Check the cutting measurements of the glazing beads. The glazing beads are preferably miter-cut (45°). To avoid stress and breakage during installation, they must be cut to length without any excess. The glazing beads corresponding to the shortest sides must be installed first. Note: For smaller glazing beads, cuts can be made in the central area to facilitate their bending and subsequent clipping (see detail Det.1). Position and clip the glazing beads from the center towards the outside, using a nylon hammer. It must be placed by the anchoring foot of the glazing bead and tapped lightly with the hammer. The glazing beads on the longer sides will be bent and guided by their ends into the respective miters. The glazing bead will be fitted by tapping it with the hammer, always in the direction of the sides. To unclip the glazing beads, use a chisel or a narrow spatula, inserting it horizontally between the profile and the base of the glazing bead. Remove the glazing beads carefully.



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