

Panorama by **QFORT®**



Aluminium sliding system Panorama 5Stars Technical brochure 2026

Technical data

Coefficient of thermal insulation $U_w \geq 1,47 \text{ W/m}^2\text{K}$ (depending on typology, dimensions and glazing)

* $U_w = 1.48 \text{ W/m}^2\text{K}$ value was obtained for a construction with L - 4182mm, H - 2100mm, two sashes and glazing with $U_g = 1.0 \text{ W/m}^2\text{K}$

Air-water-wind tests

Air permeability - Class 4 - (EN 12207:2000)

Water permeability - Class 7A*/9A** - (EN 12208:2000)

Resistance to wind load - Class C5 - (EN 12210:2000)

Construction reference test: mobile double-sash, L - 1.230m, H - 1.480mm

Glazing characteristics: Glazing thickness - **28mm**

Assembly depth:

Frame with two rails - **116mm**

Frame with three rails - **182mm**

Profiles exterior wall thickness - 1,7mm

Construction schemas: constructions with 2,3,4 and 6 mobile sashes.

Maximum sash dimensions (consult the maximum possible weight and dimensions in accordance with the chosen typology and glazing)

conditions: $H_{\text{sash}} / L_{\text{sash}} \leq 3$

Maximum width $L_{\text{max}} - 2.200\text{mm}$

Maximum height $H_{\text{max}} - 3.000\text{mm}$

Maximum sash weight - 320kg

Maximum sash area - 6m^2

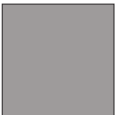
Central crossover dimension (visible section) - 20mm



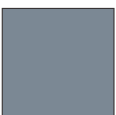
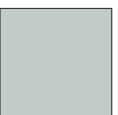
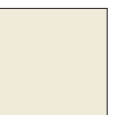
Available colours

All RAL colours are delivered in standard colours with structural finish, but, optionally, they can be ordered with matte finish.

Group 1 - Standard colours

							
RAL 9016 (PE9016TD)	RAL 9010 (PE9010TD)	RAL 9006 (PE9006TX)	RAL 9007 (P9007TX)	RAL 7016 (PE7016TD)	RAL 9005 (PE9005TD)	RAL 8017 (P8017T)	RAL 6005 (PE6005TD)

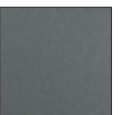
Group 2 - Custom colours

									
RAL 1013 (PE1013TD)	RAL 1015 (P1015T)	RAL 3004 (P3004T)	RAL 3005 (P3005T)	RAL 5001 (P5001T)	RAL 5003 (PE5003TD)	RAL 5008 (PE5008TD)	RAL 5024 (P5024T)	RAL 5010 (P5010T)	RAL 6009 (P6009T)
									
RAL 6019 (P6019T)	RAL 6021 (P6021T)	RAL 7001 (P7001T)	RAL 7012 (PE7012TD)	RAL 7022 (TX7022DE)	RAL 7035 (P7035T)	RAL 7039 (P7039T)	RAL 8014 (PE8014TD)	RAL 9001 (P9001T)	

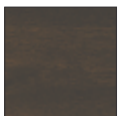
Group 2 - Decorative finishing (Non - RAL)

						
Sandblast Black 2100	Sandblast Green 2500	Sandblast Grey 2900	Marte (Mars) 2525	Punto Grigio	Grigio Antico	DB 703

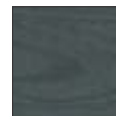
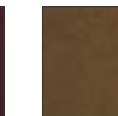
Group 3 - Anodized imitation colors

									
Anodic Gold	Anodic Bronze	Anodic Natura	Anodic Champagne	Steel Blue Platinum	Golden Beach	Azzurro 4601	Champagne 4601	Approx. C0 Anodized	Approx. C32 Anodized

Group 3 - Wood imitation colors *

					
Walnut	Golden Oak	Medium Oak	Dark Walnut	Dark Brown	Light Oak

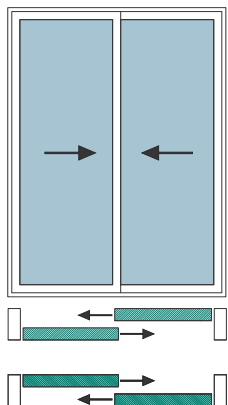
Group 4 *

								
Light pine	Grey Oak	Grey Cherry	Dark Pine	Arctic Oak	Concrete Dark	Concrete Light	Reddish Corten	Brown Corten

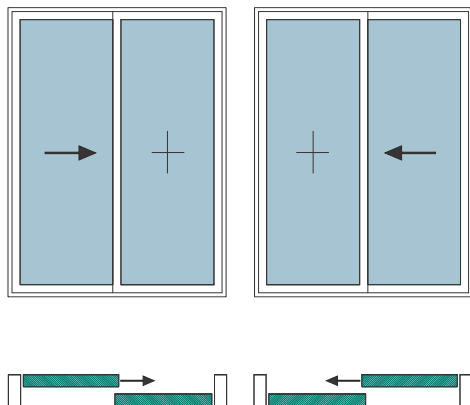
* Not available for 90° angle constructions and 3-rail frame constructions.

Opening typologies with standard frame

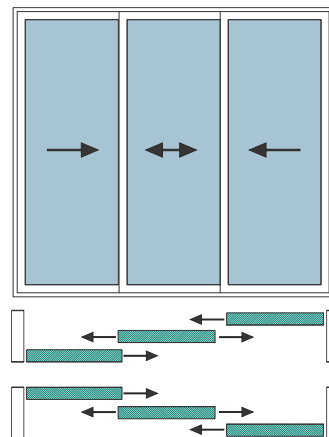
2 sashes



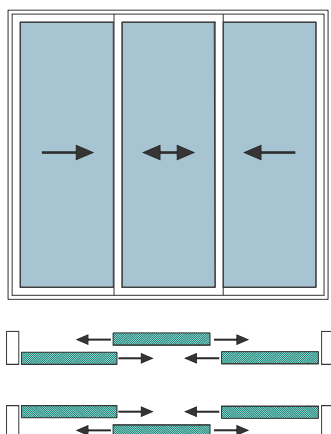
2 sashes - fixed + mobile



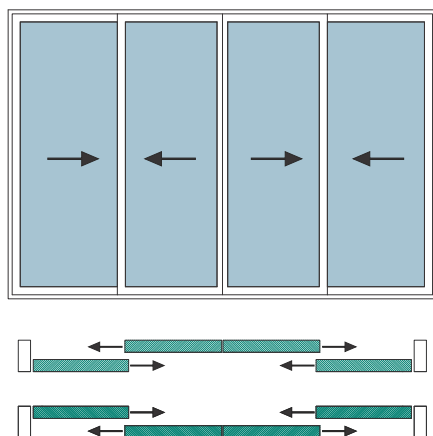
3 sashes - 3 rails



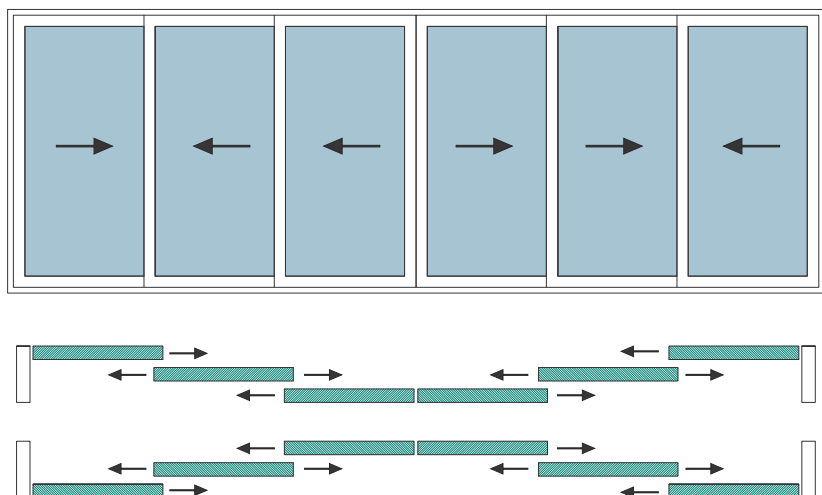
3 sashes - 2 rails



4 sashes

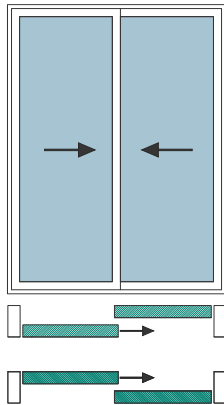


6 sashes

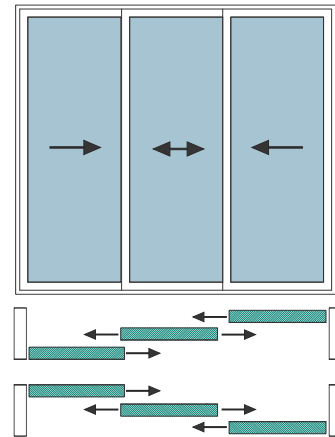


Opening typologies for the frame with embedded threshold

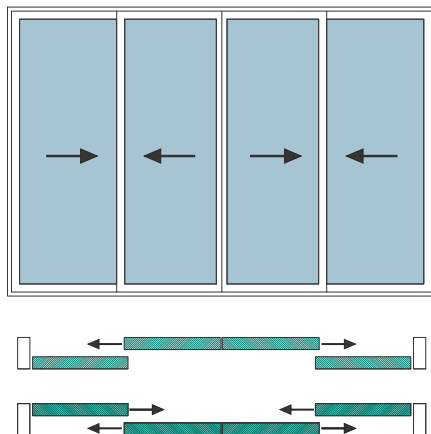
2 sashes



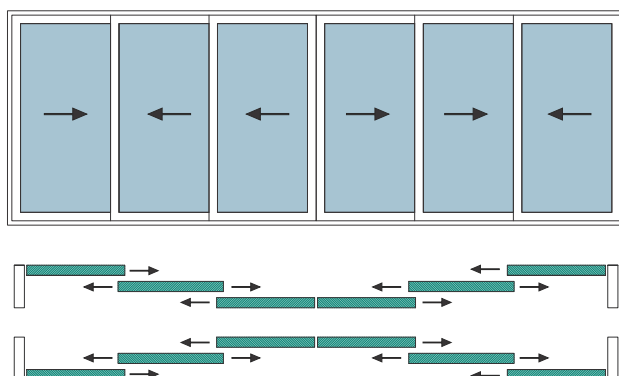
3 sashes - 3 rails



4 sashes - 2 rails

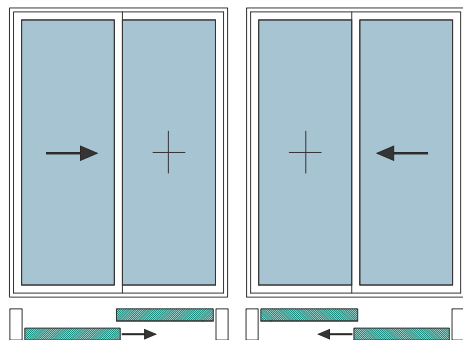


6 sashes - 3 rails

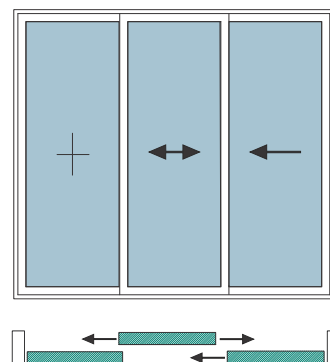


Opening typologies with handle on the interlock and standard frame

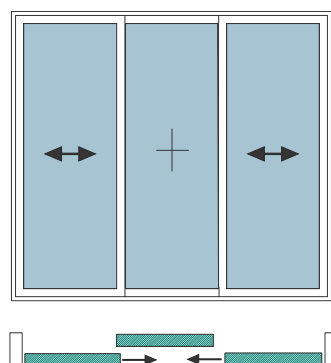
2 sashes - fixed + mobile



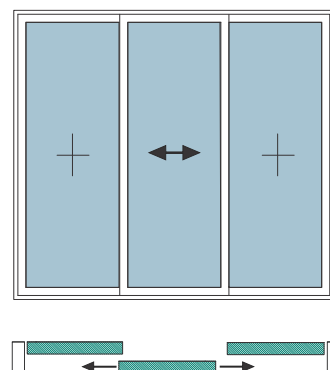
3 sashes - 2 rails



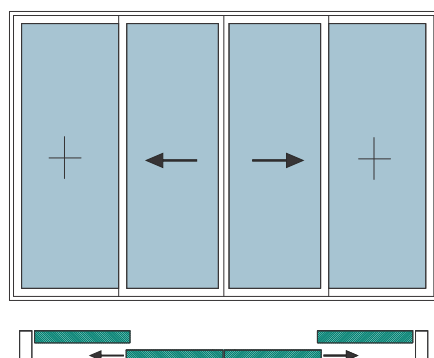
3 sashes - 2 rails



3 sashes - 2 rails

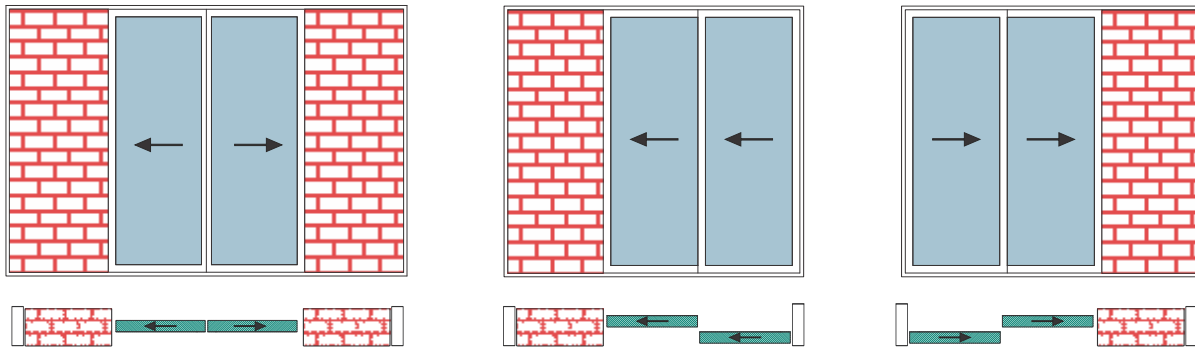


4 sashes - 2 rails

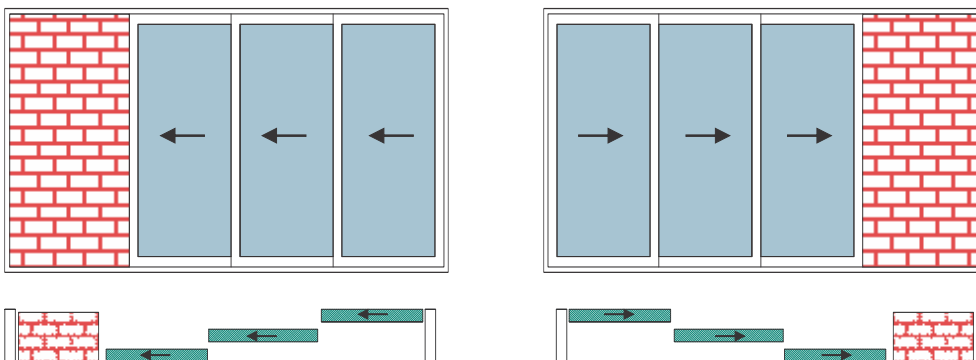


Opening typologies for frames with embedded threshold and pocket fold

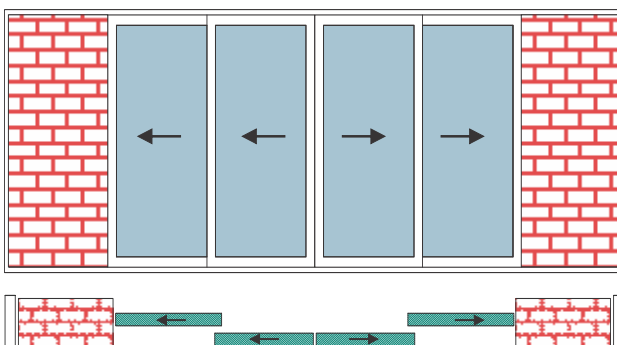
Galandage - 2 sashes



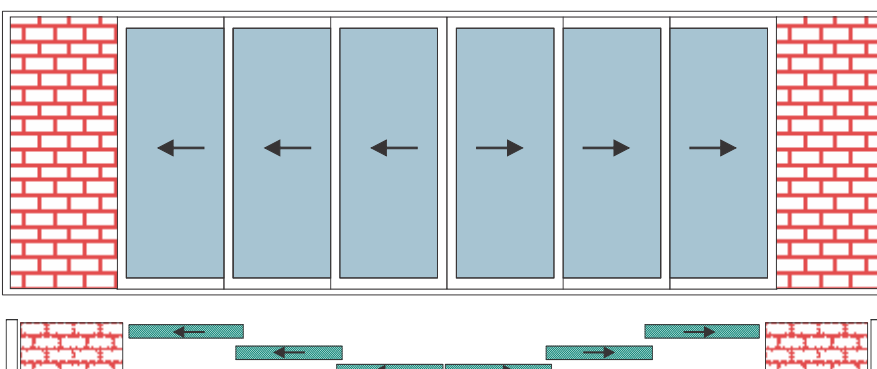
Galandage - 3 sashes



Galandage - 4 sashes

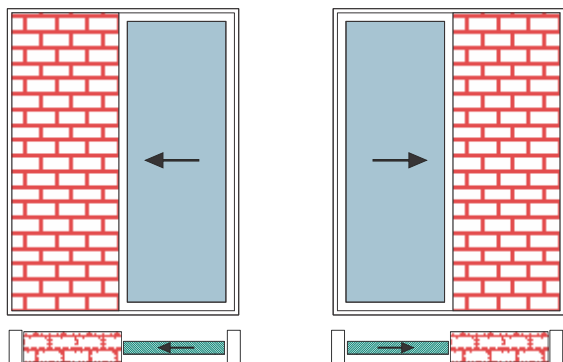


Galandage - 6 sashes

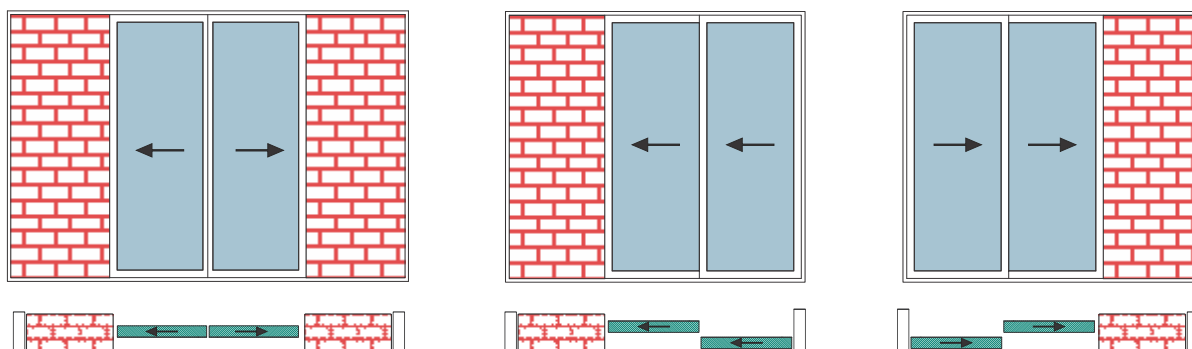


Pocket doors typology with standard frame

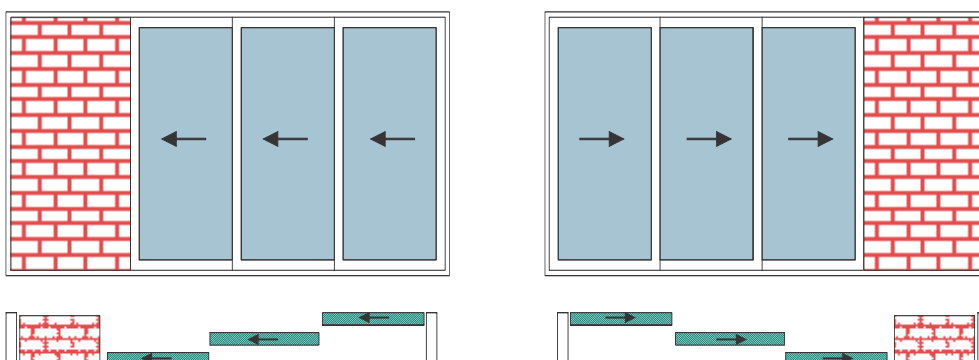
Galandage - 1 sash



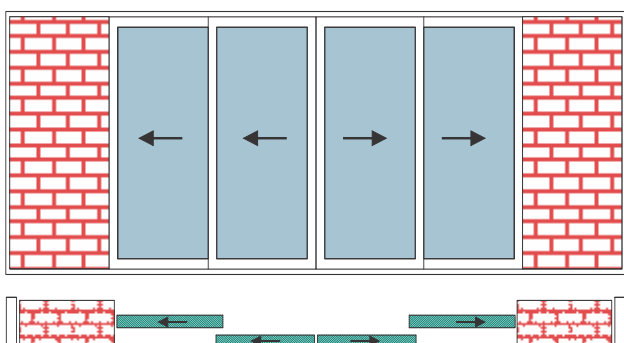
Galandage - double-sash



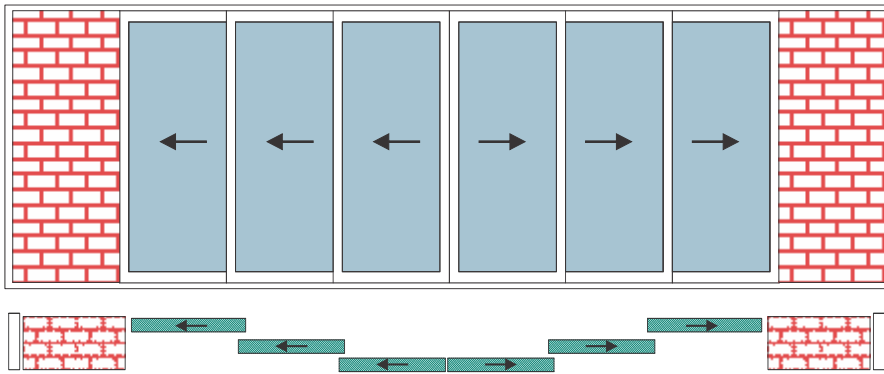
Galandage - triple-sashes



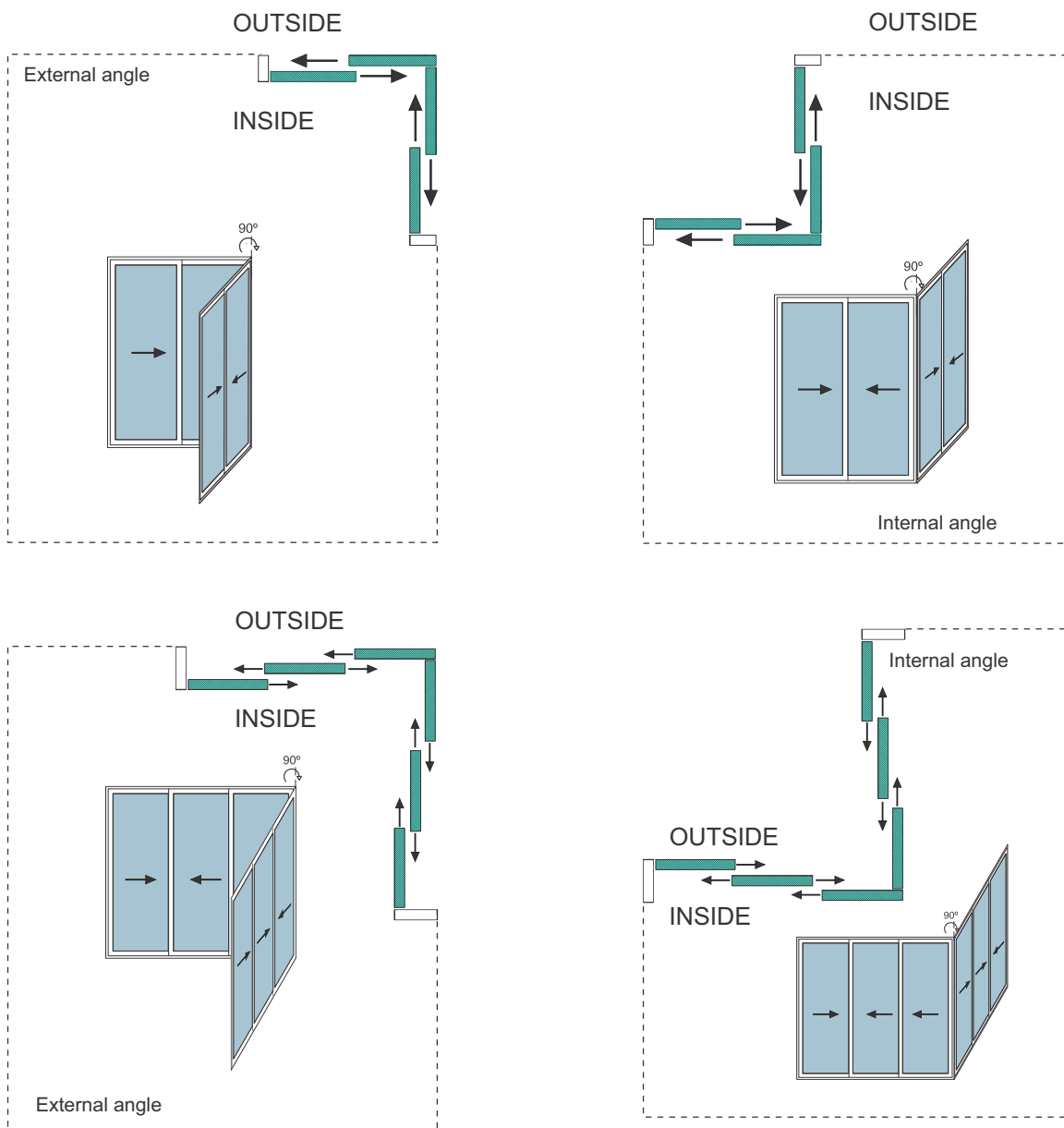
Galandage - four-sashes



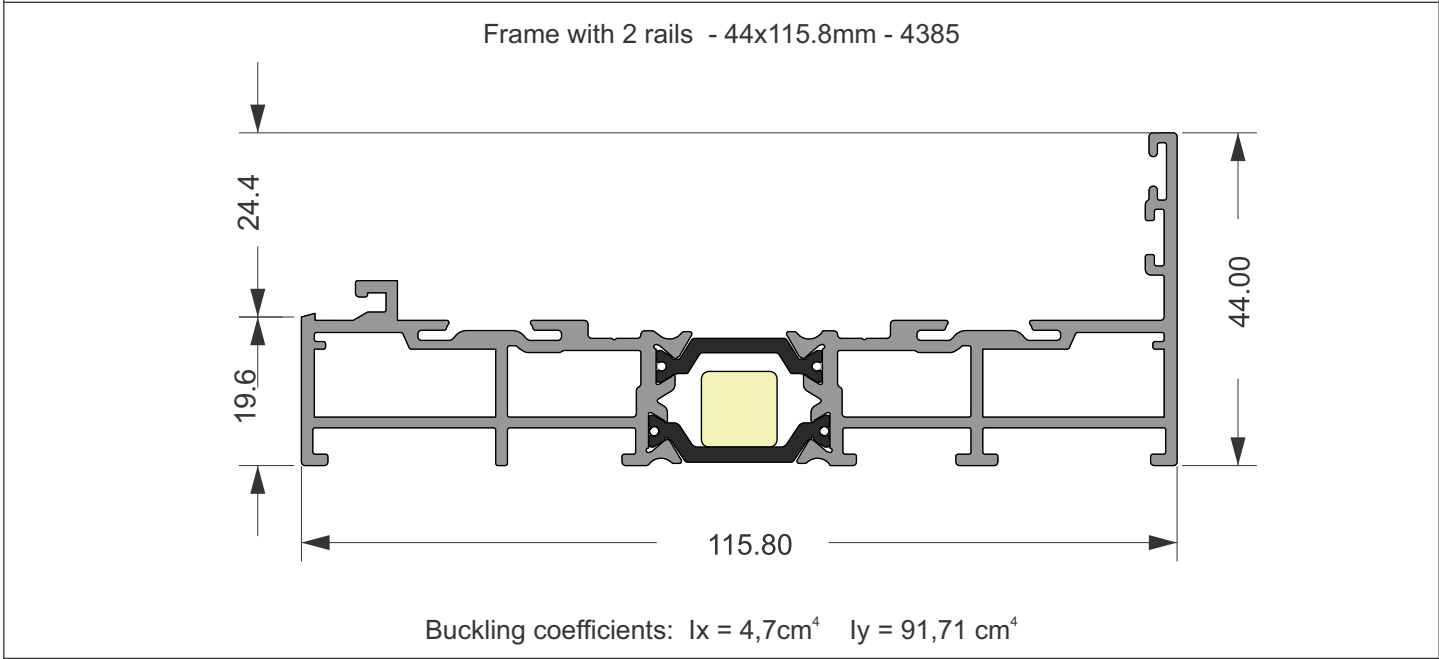
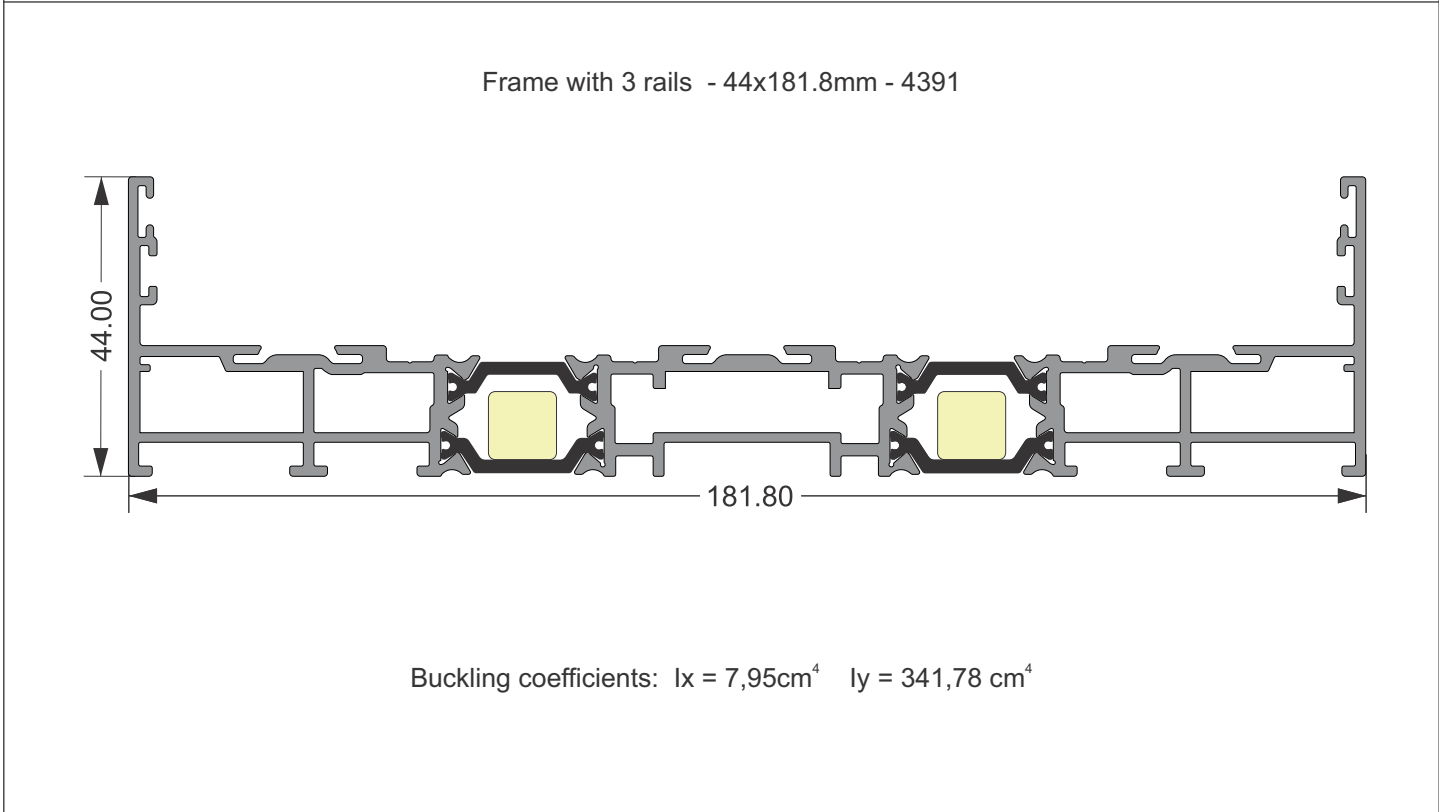
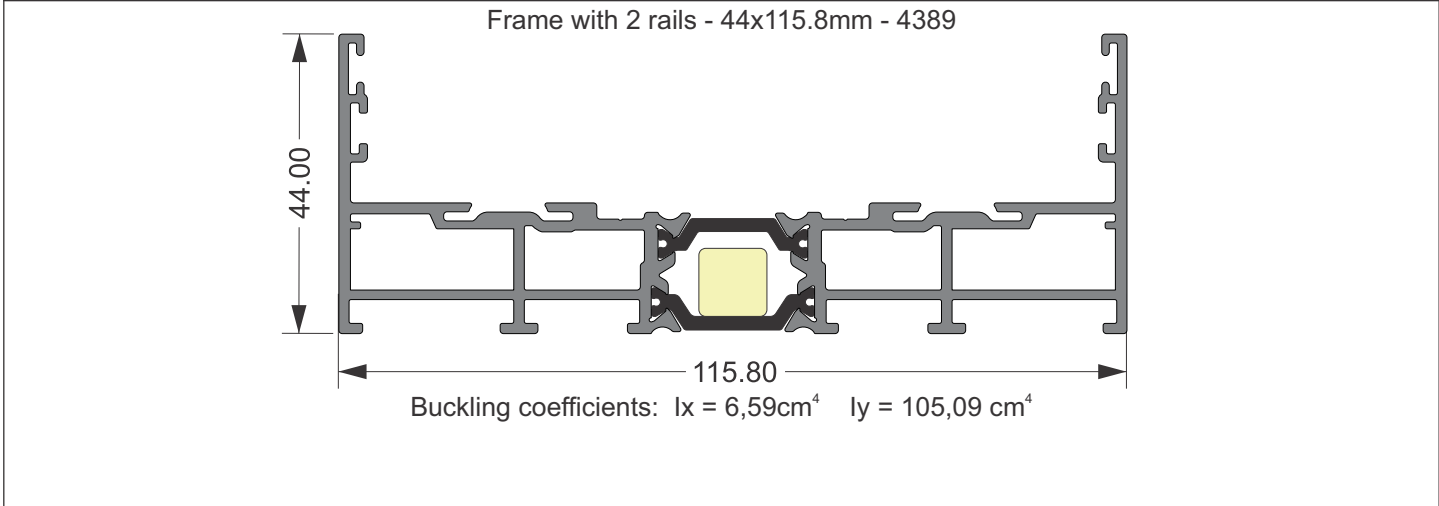
Galandage - six-sashes



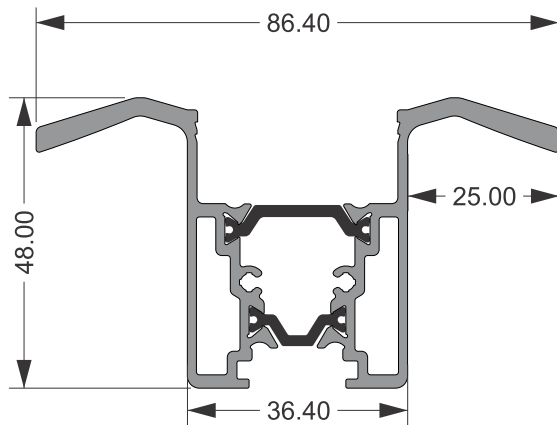
90 degrees coupling



Main profile sections

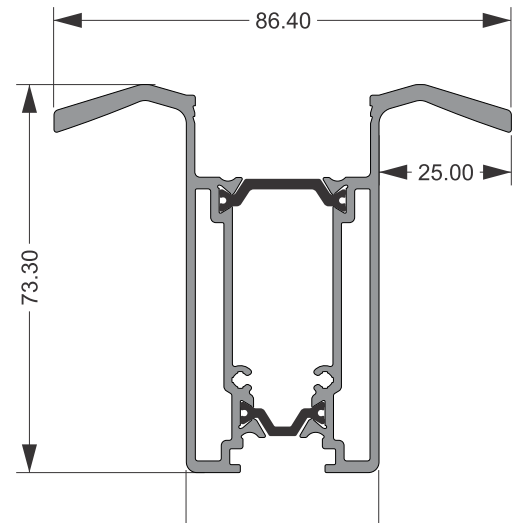


Vertical sash - 4320
(only with interior handle latch type)



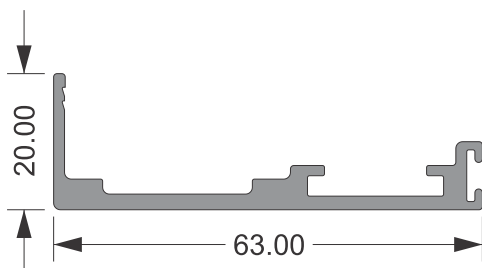
Buckling coefficients: $I_x = 13,22\text{cm}^4$ $I_y = 25,2\text{cm}^4$

Vertical sash (STANDARD) - 4323



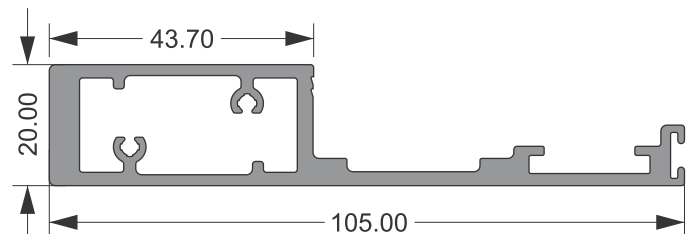
Buckling coefficients: $I_x = 42,21\text{cm}^4$ $I_y = 28,98\text{cm}^4$

Vertical sash node - 4326



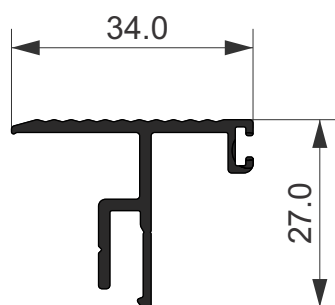
Buckling coefficients: $I_x = 0,35\text{cm}^4$ $I_y = 10,26\text{cm}^4$

Vertical sash node - 4327



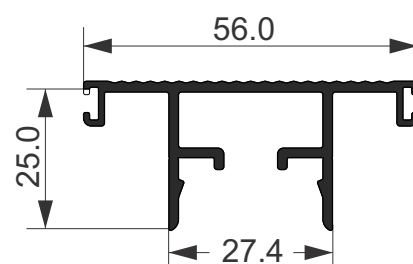
Buckling coefficients: $I_x = 54,84\text{cm}^4$ $I_y = 2,61\text{cm}^4$

Side cover cap - 4308

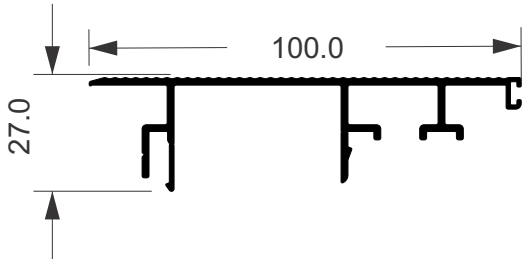
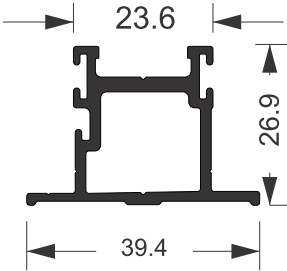
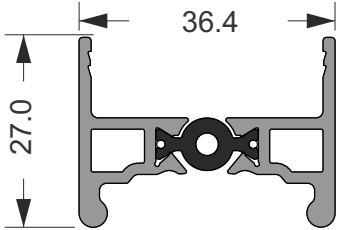
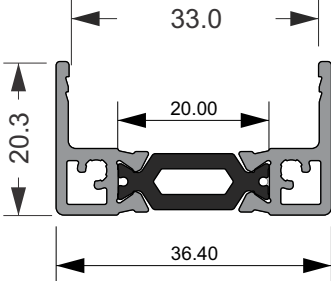
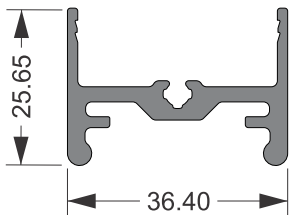
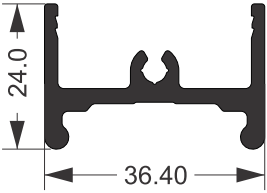
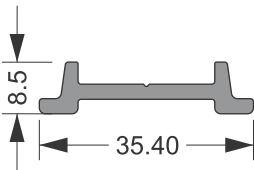
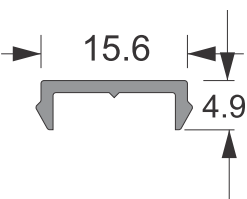
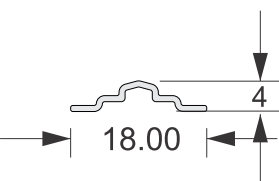


Buckling coefficients: $I_x = 0,79\text{cm}^4$ $I_y = 0,74\text{cm}^4$

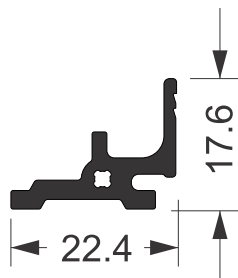
Central cover cap - 4309



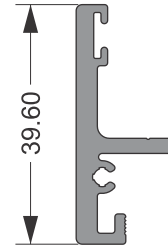
Buckling coefficients: $I_x = 1,07\text{cm}^4$ $I_y = 5,05\text{cm}^4$

Side cover cap for pocket fold - 4307 		Rolling rail insulation profile - 4331 	
Horizontal sash - 4344  Buckling coefficients: $I_x = 0,82\text{cm}^4$ $I_y = 4,27\text{cm}^4$		Side sash - 4371  Buckling coefficients: $I_x = 0,42\text{cm}^4$ $I_y = 3,11\text{cm}^4$	
Horizontal aluminum sash - 4314 (OPTIONAL) 		Horizontal polyamide sash - 4324 (STANDARD) 	
Roller holder profile - 4325 	Lid - 15919 (for profile 4331) 	Stainless steel rail - 4311 	

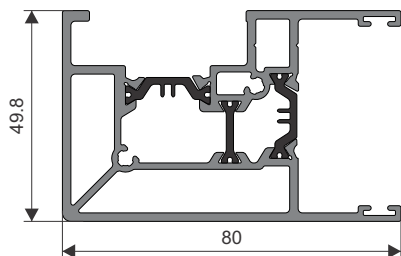
Interlock closing profile - 4329



Floating mullion - 4350

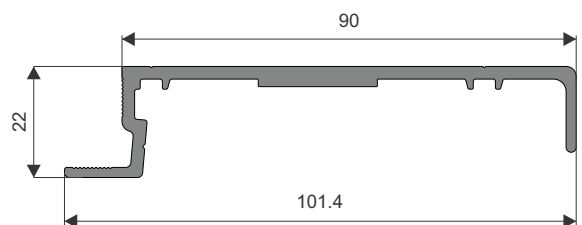


Profile for 90° degrees free corner - 4361



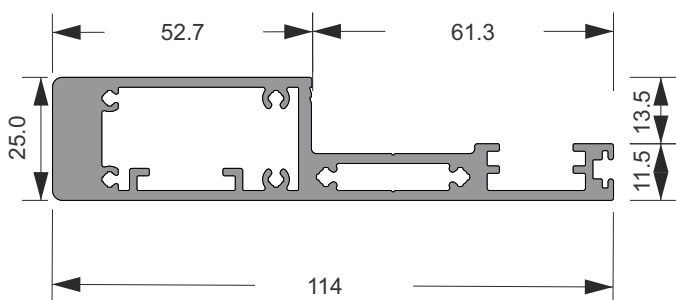
Buckling coefficients: $I_x = 20,8\text{cm}^4$ $I_y = 38,4\text{cm}^4$

Complementary profile for 3 rails pocket door - 4357



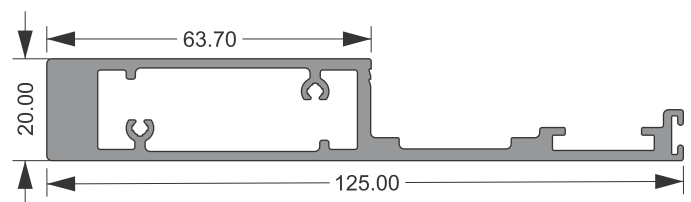
Buckling coefficients: $I_x = 1,52\text{cm}^4$ $I_y = 36,36\text{cm}^4$

Central sash for closing - 4378



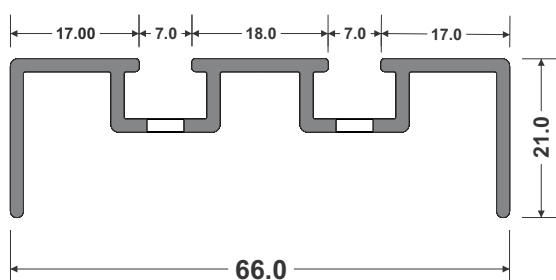
Buckling coefficients: $I_x = 5,64\text{cm}^4$ $I_y = 100,26\text{cm}^4$

Vertical sash node - 4328

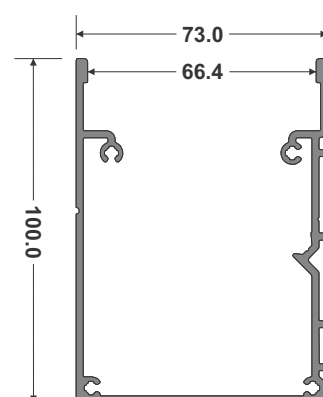


Buckling coefficients: $I_x = 101,39\text{cm}^4$ $I_y = 3,49\text{cm}^4$

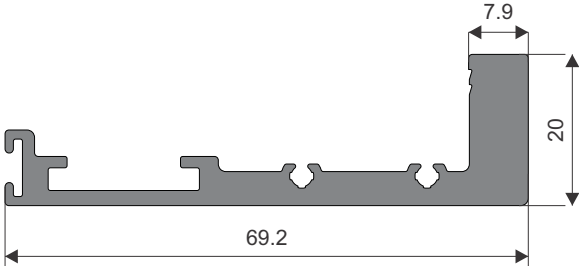
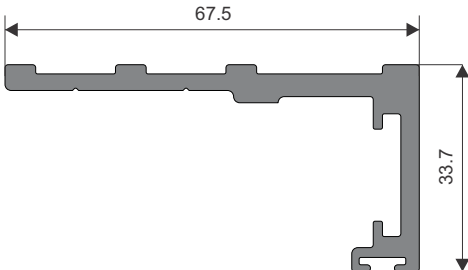
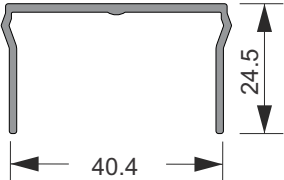
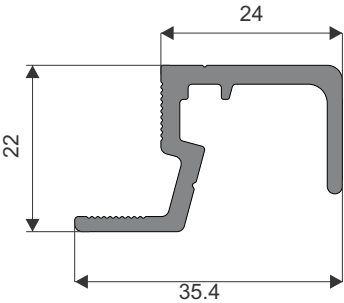
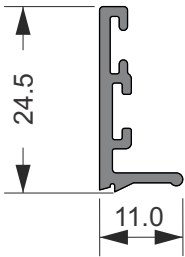
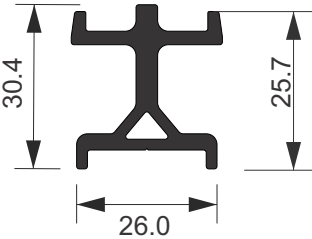
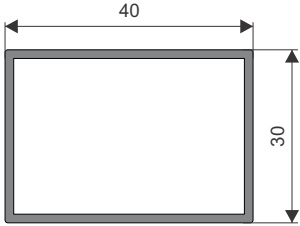
Aluminium gutter, anodic silver - 2999



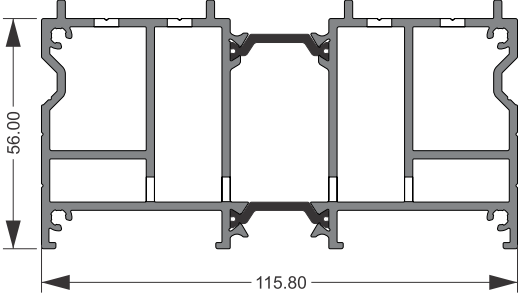
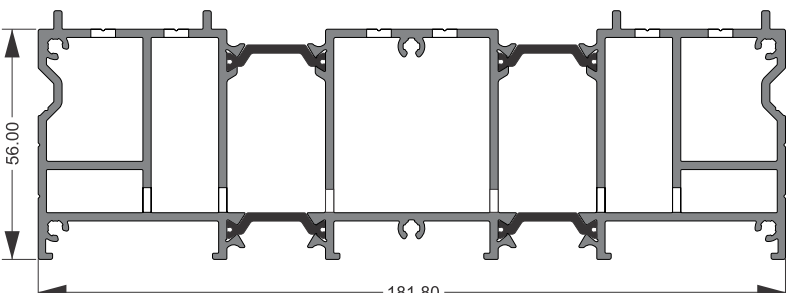
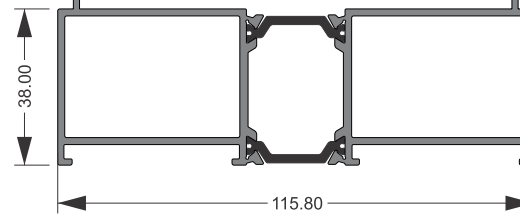
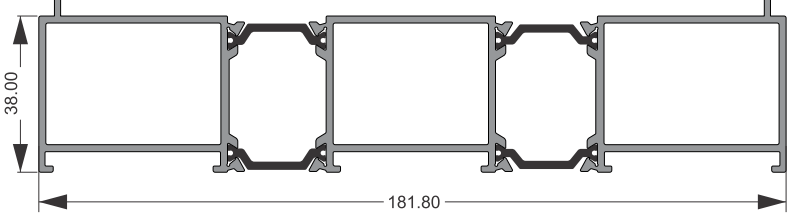
Gutter profile - 4891



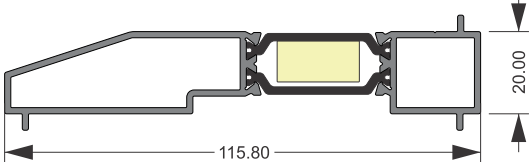
Main profiles sections for 90 degrees coupling and pocket door

Central interlock sash for 1 rail pocket door - 4362  Buckling coefficients: $I_x = 1,14\text{cm}^4$ $I_y = 19,1\text{cm}^4$	
Wall sealing profile for 2 rails pocket door - 4355  Buckling coefficients: $I_x = 1031,4\text{cm}^4$ $I_y = 24,38\text{cm}^4$	Frame cover - 4336  Buckling coefficients: $I_x = 0,77\text{cm}^4$ $I_y = 3,48\text{cm}^4$
Complementary profile for 2 rails pocket door - 4356  Buckling coefficients: $I_x = 0,97\text{cm}^4$ $I_y = 1,65\text{cm}^4$	Interior bead for fixed frame - 4356  Buckling coefficients: $I_x = 0,39\text{cm}^4$ $I_y = 0,04\text{cm}^4$
Rail profile - 4310  Buckling coefficients: $I_x = 2,33\text{cm}^4$ $I_y = 1,36\text{cm}^4$	Rectangular profile 30 x 43 mm - 770048  Buckling coefficients: $I_x = 5,46\text{cm}^4$ $I_y = 3,1\text{cm}^4$

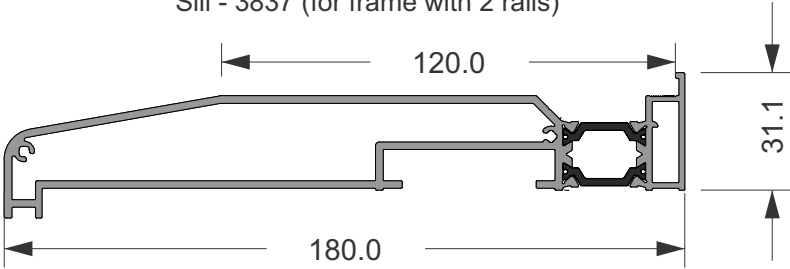
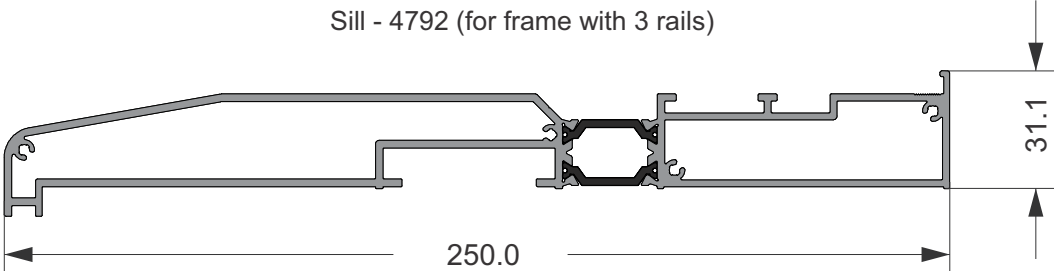
Additional profile for frame

 4302 - additional profile for 2 rails frame	 4304 - additional profile for 3 rails frame
 4397 - additional profile for 2 rails frame Attention! – this profile cannot be used with gutter	 4398 - additional profile for 3 rails frame Attention! – this profile cannot be used with gutter

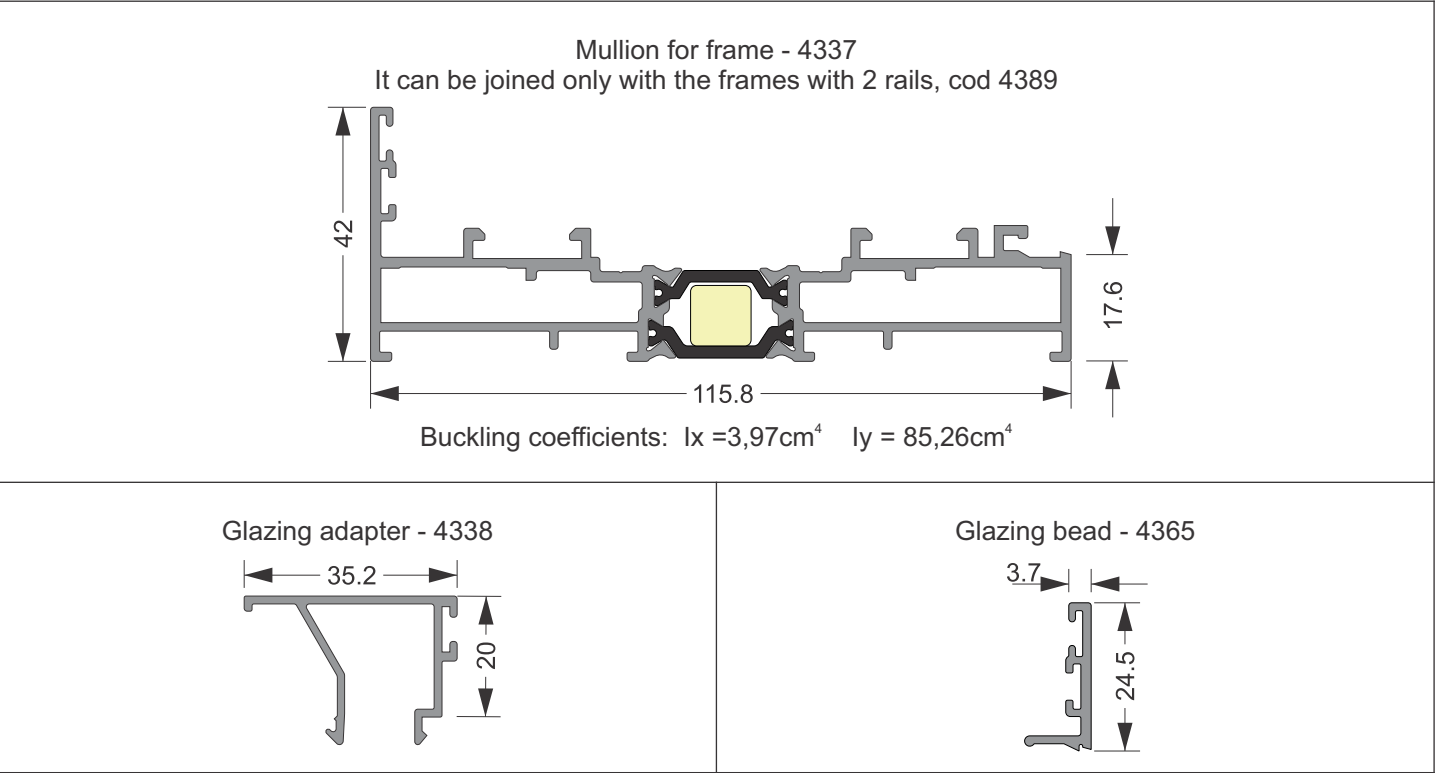
Coupling element

 4352 - Coupling adapter for fixed frames

Sill

Sill - 3837 (for frame with 2 rails) 
Sill - 4792 (for frame with 3 rails) 

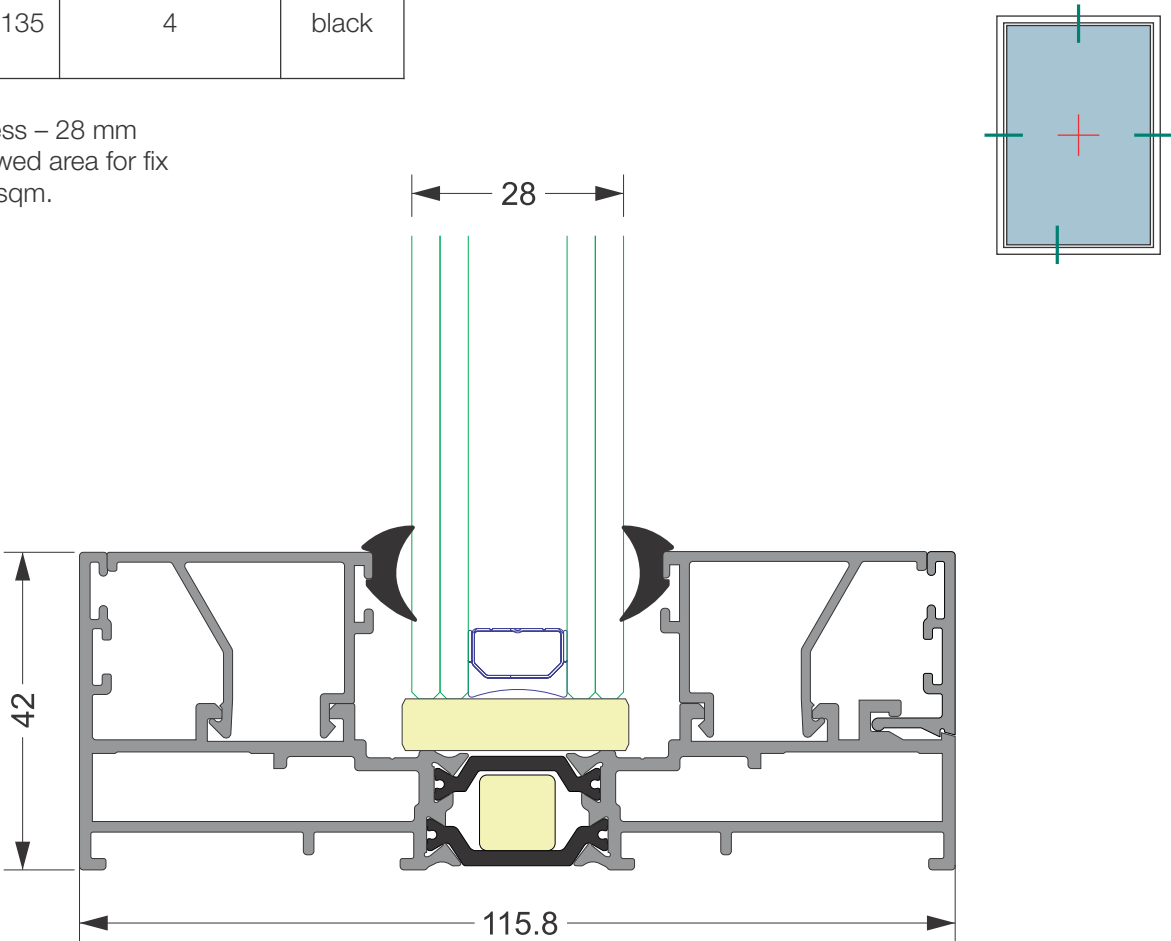
Fix wing in a single frame



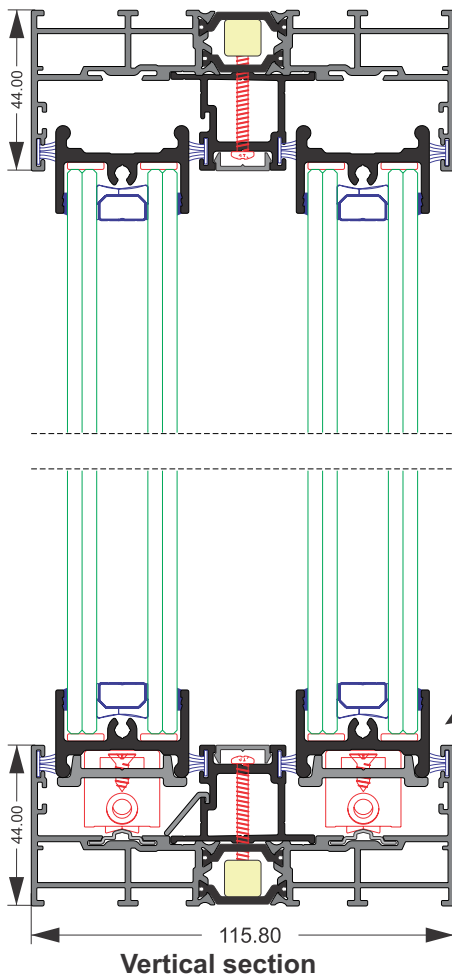
Glazing gaskets

Schema	Code	Thickness (mm)	Colour
	240135	4	black

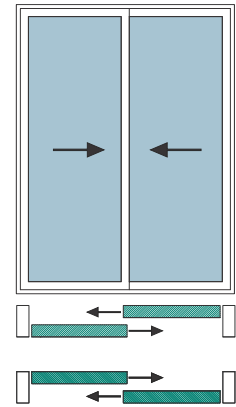
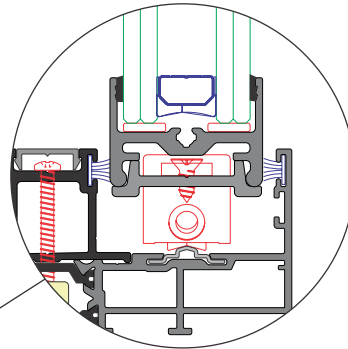
Glass pack thickness – 28 mm
The maximum allowed area for fix assemblies is of 6 sqm.



Main typology sections



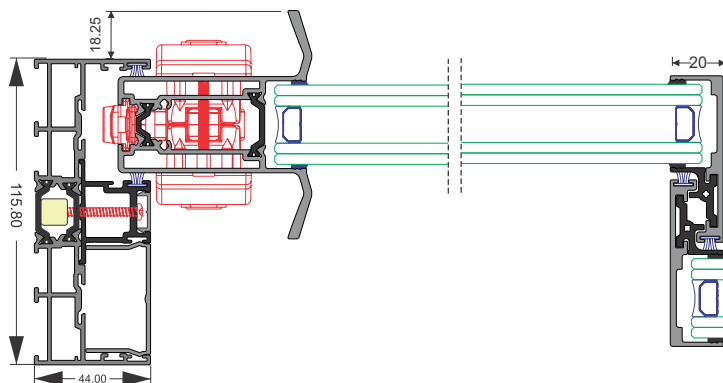
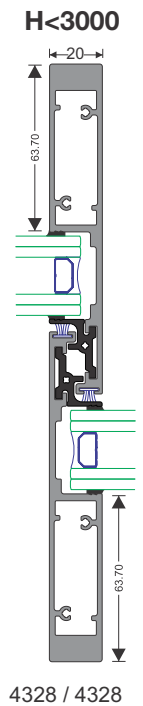
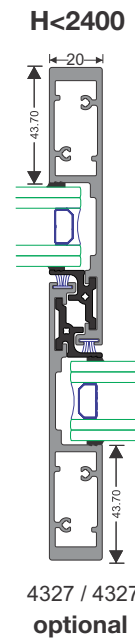
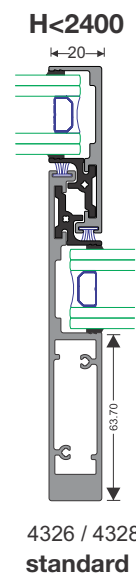
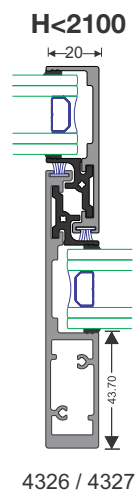
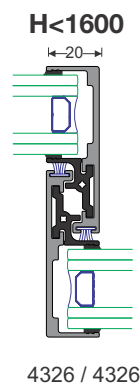
OPTIONAL
Horizontal aluminum sash - 4314



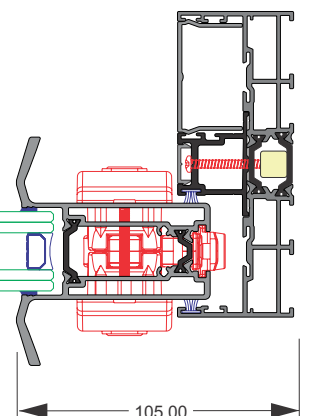
Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

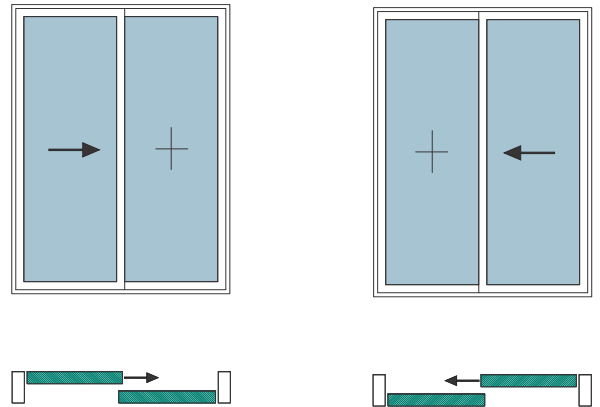
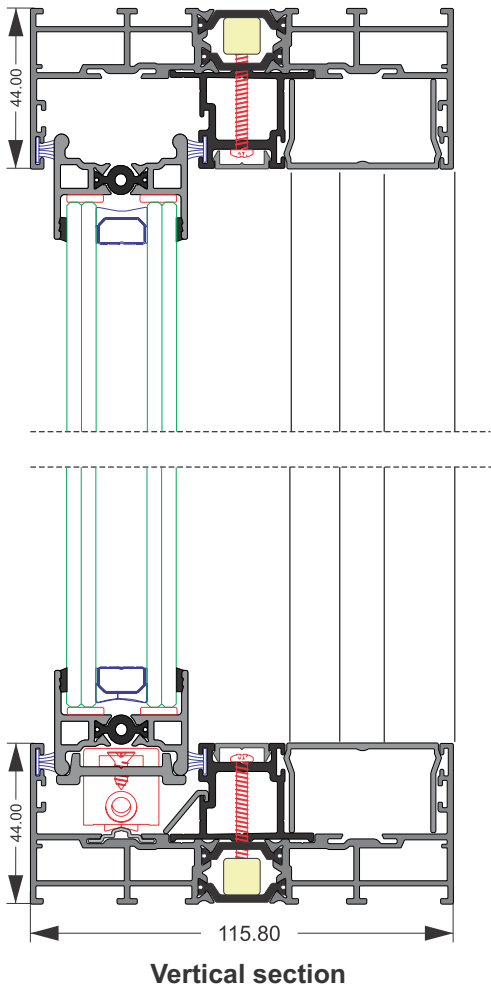
Node sections



Horizontal section



Main typology sections



Sash minimum width - **500 mm**

Sash minimum height - **800mm**

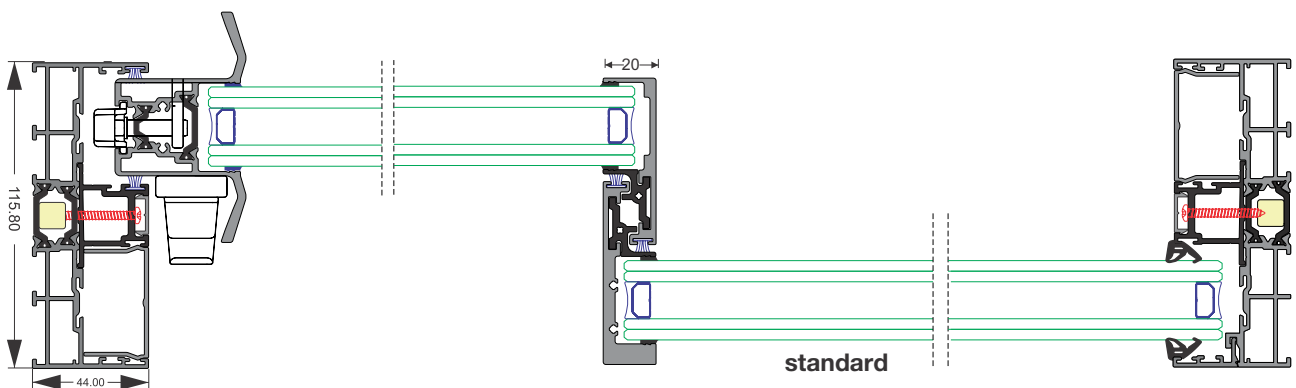
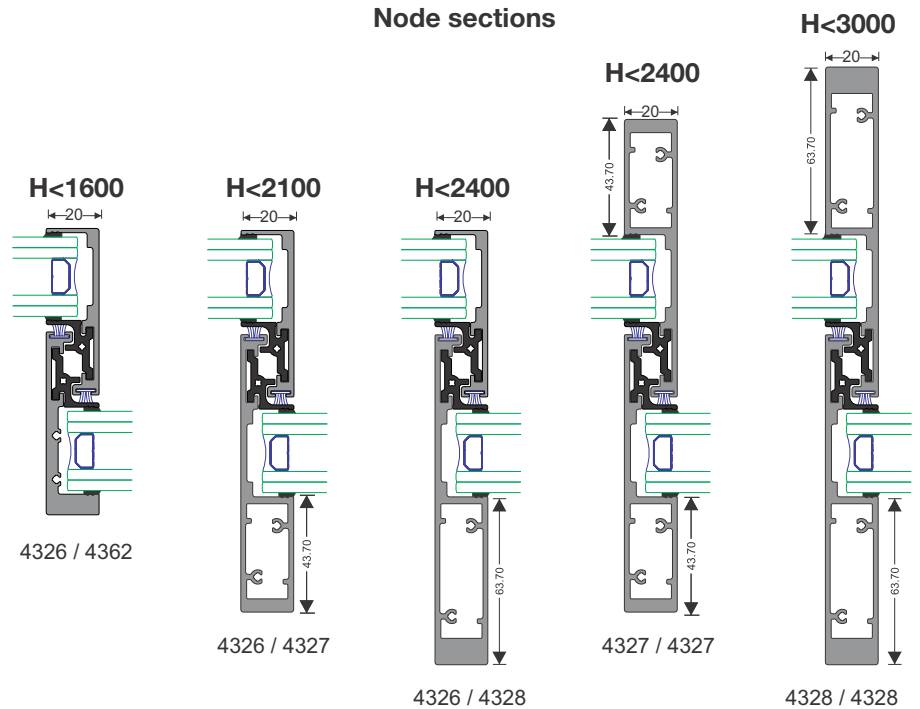
Sash maximum weight - **320 Kg**

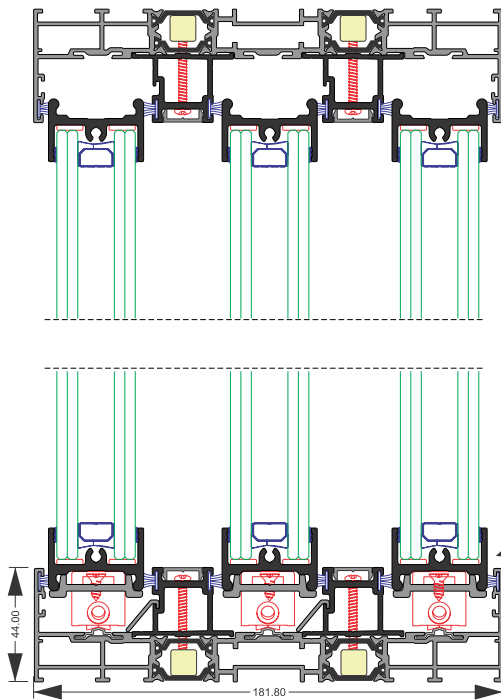
Maximum sash area - **6 m²**

Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

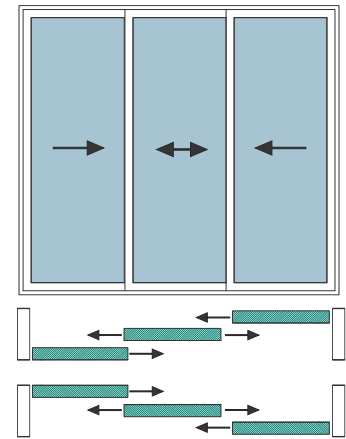
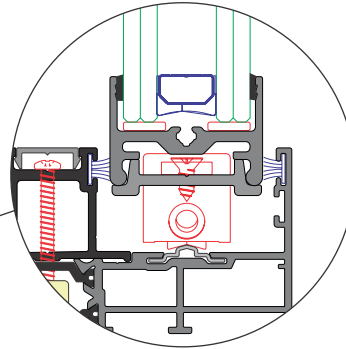
Node sections





Vertical section

OPTIONAL
Horizontal aluminum sash - 4314

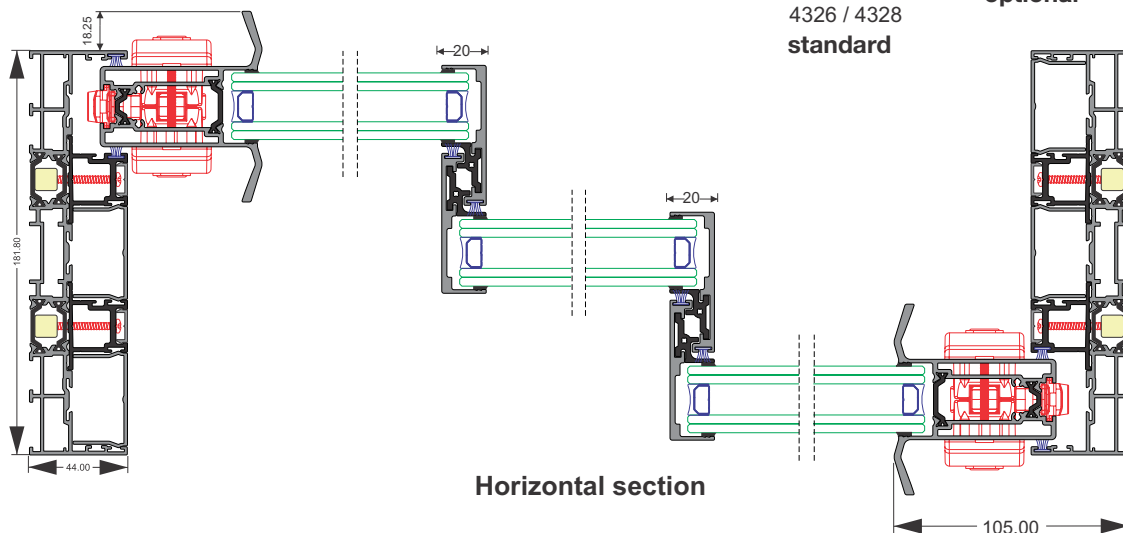
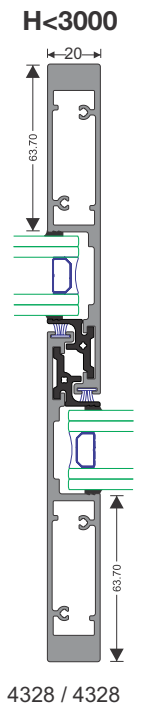
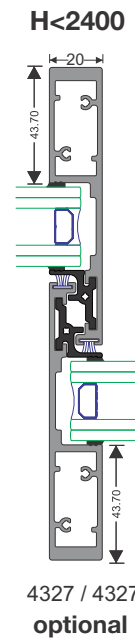
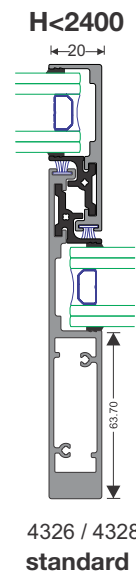
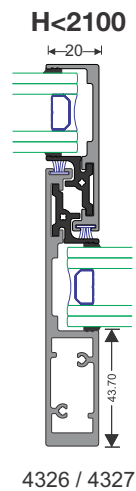
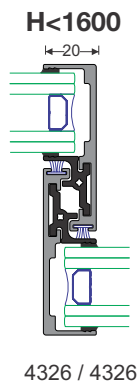


Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**

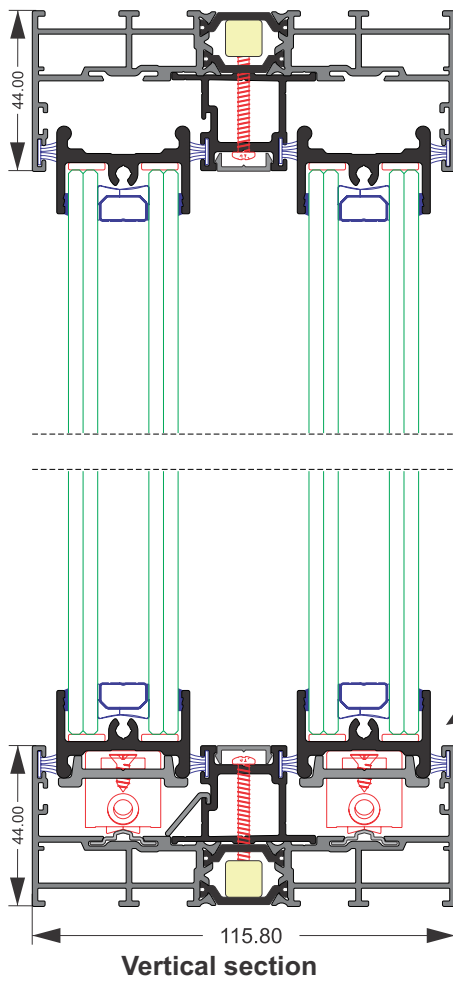
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

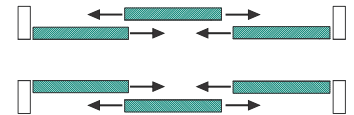
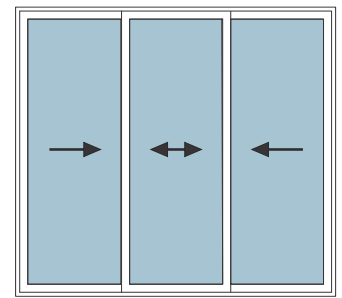
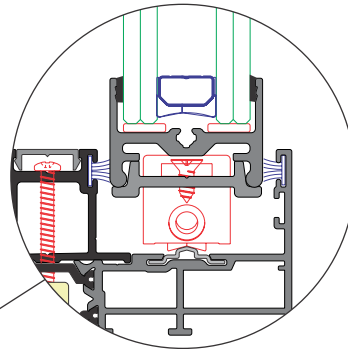
Node sections



Horizontal section



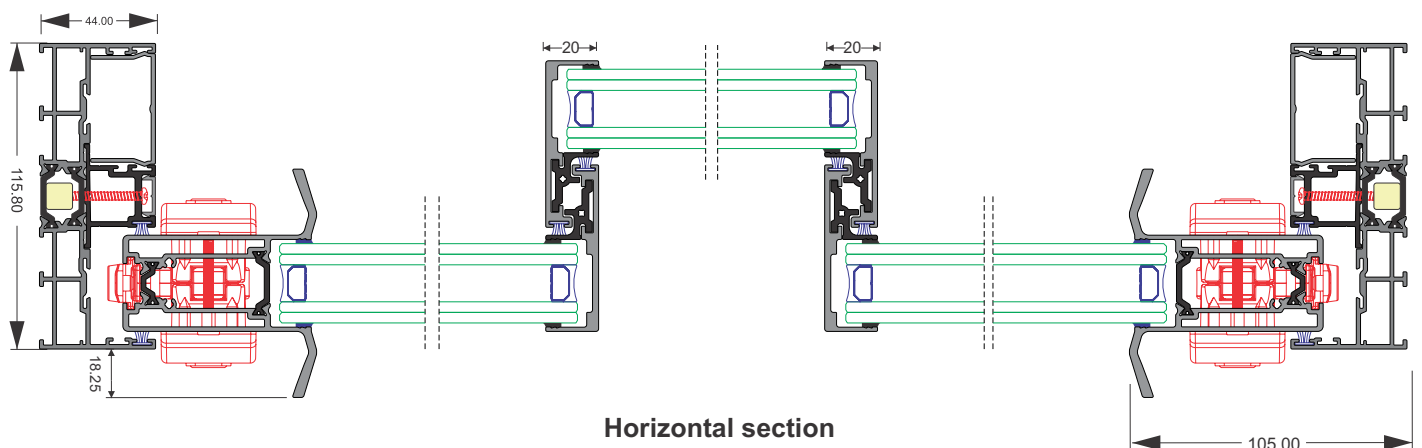
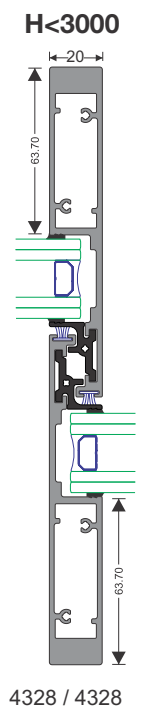
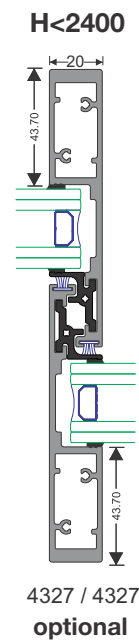
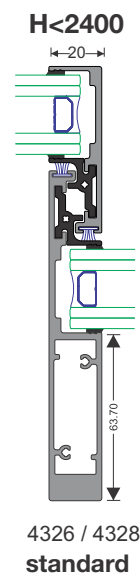
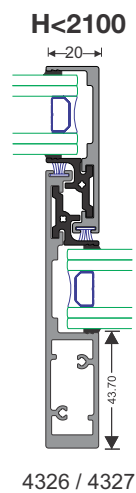
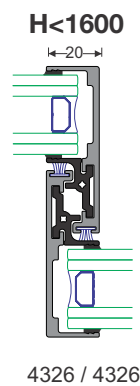
OPTIONAL
Horizontal aluminum sash - 4314

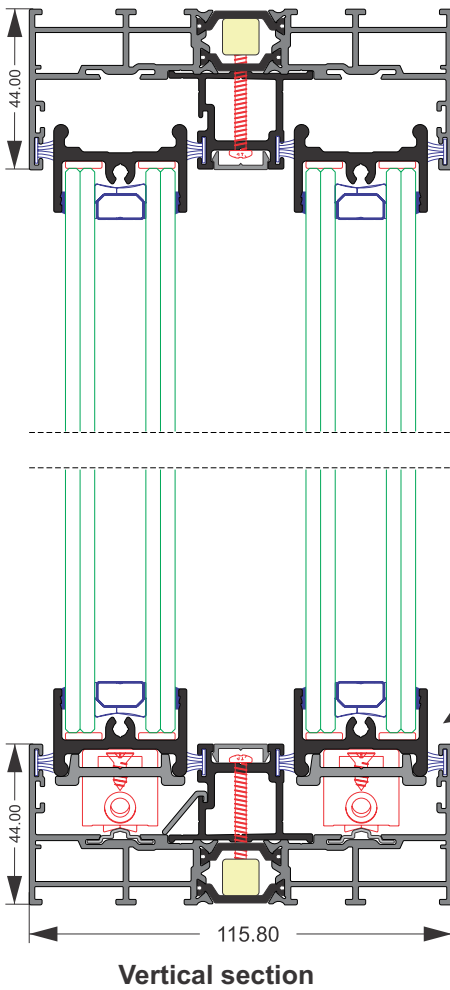


Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**
Nota: The glass dimension comes equal as standard.

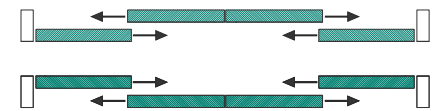
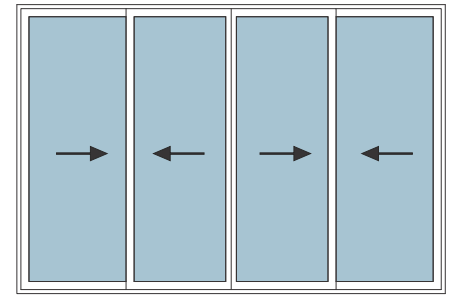
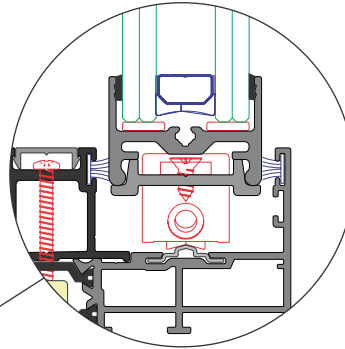
$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

Node sections





OPTIONAL
Horizontal aluminum sash - 4314

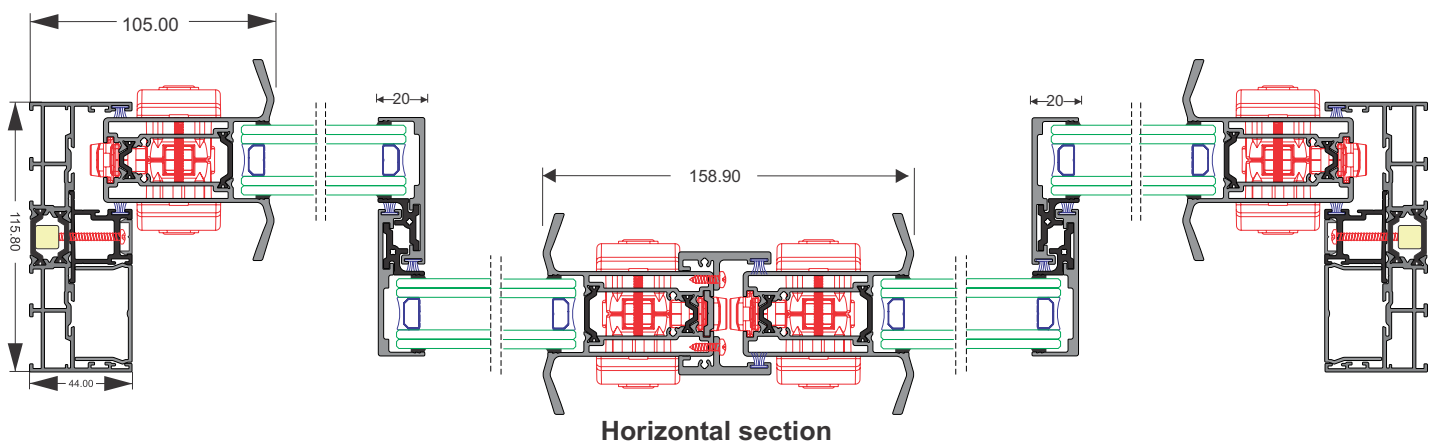
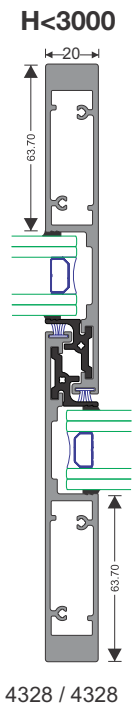
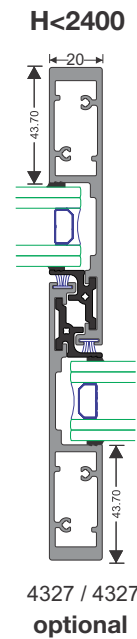
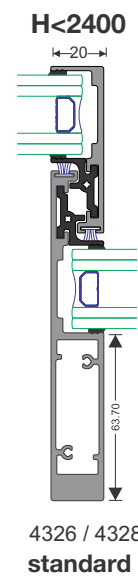
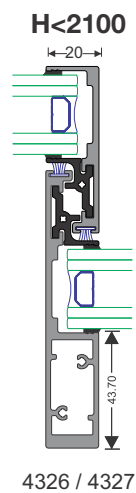
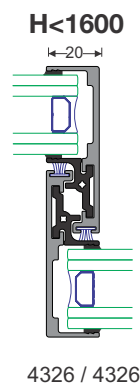


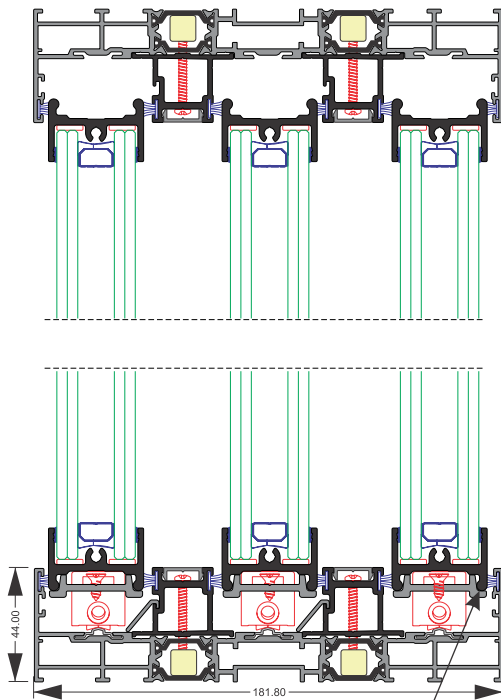
Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**

Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

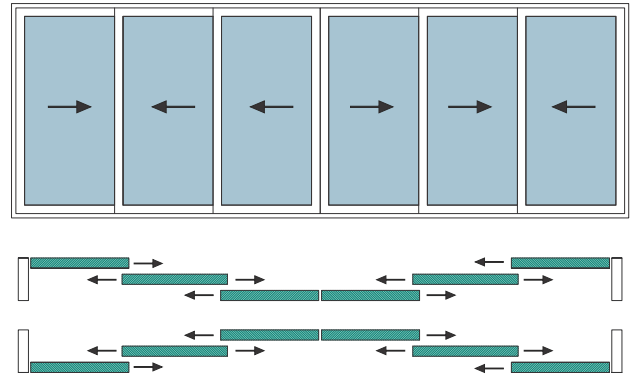
Node sections





Vertical section

OPTIONAL
Horizontal aluminum sash - 4314



Sash minimum width - **500 mm**

Sash minimum height - **800mm**

Sash maximum weight - **320 Kg**

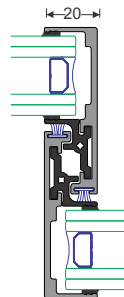
Maximum sash area - **6 m²**

Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

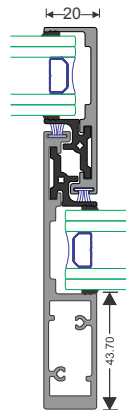
Node sections

H<1600



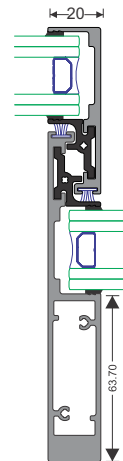
4326 / 4326

H<2100



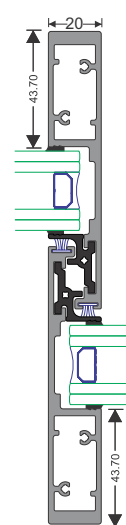
4326 / 4327

H<2400



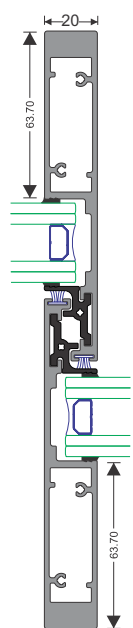
4326 / 4328
standard

H<2400



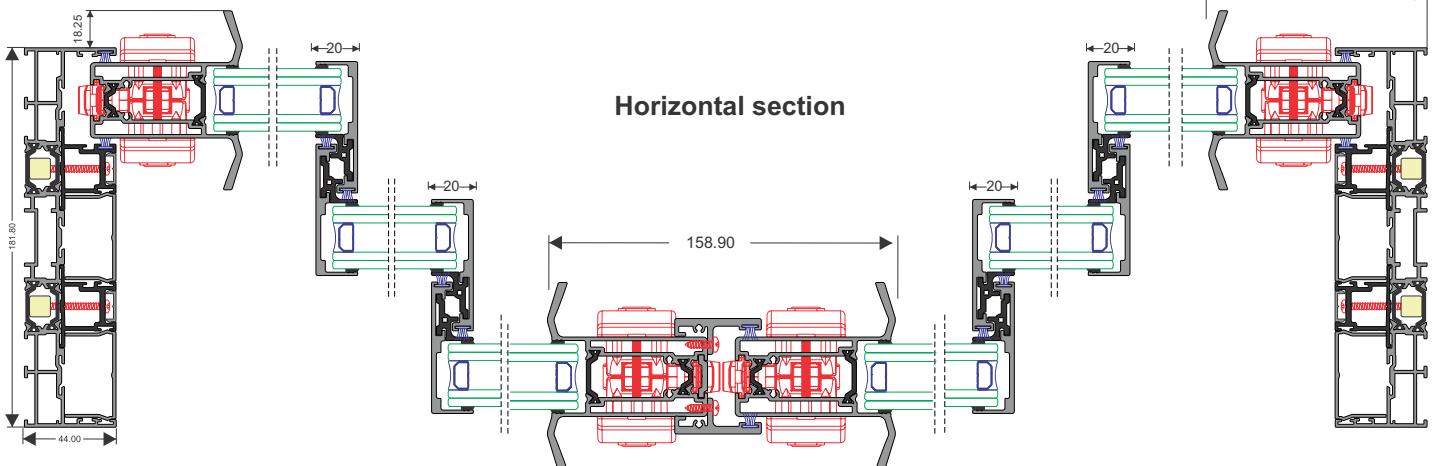
4327 / 4327
optional

H<3000



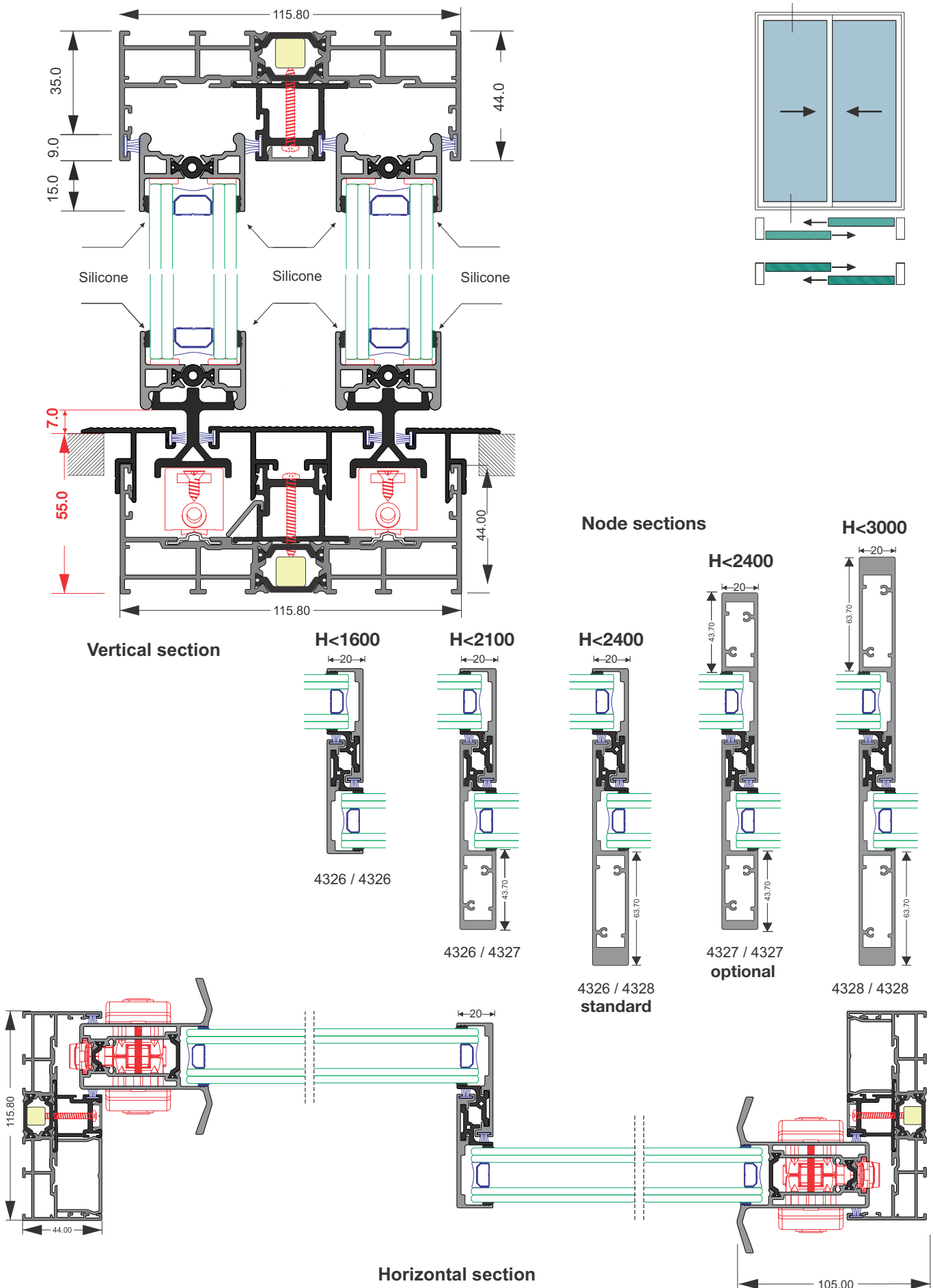
4328 / 4328

Horizontal section

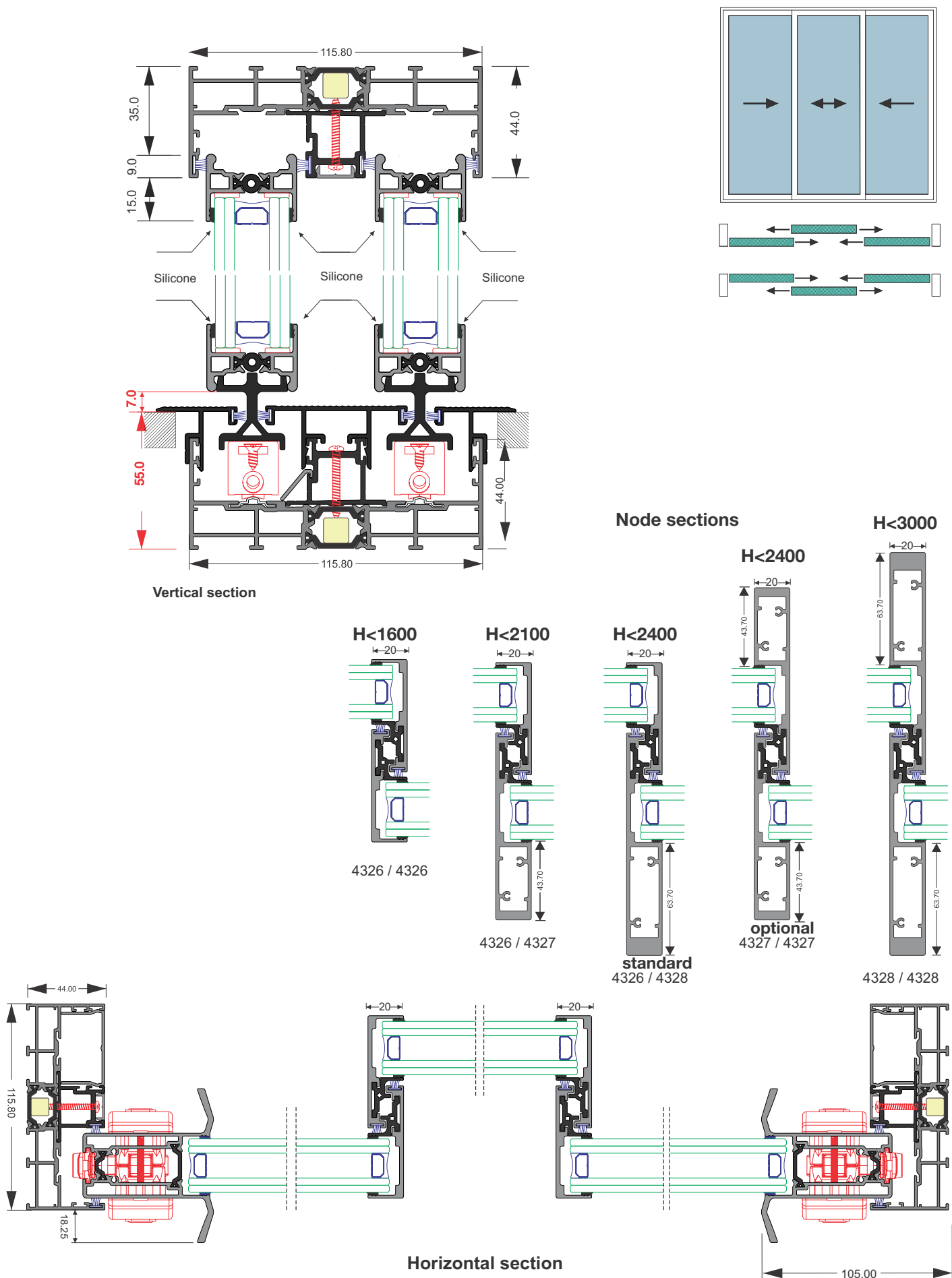


Opening typologies for the frame with embedded threshold

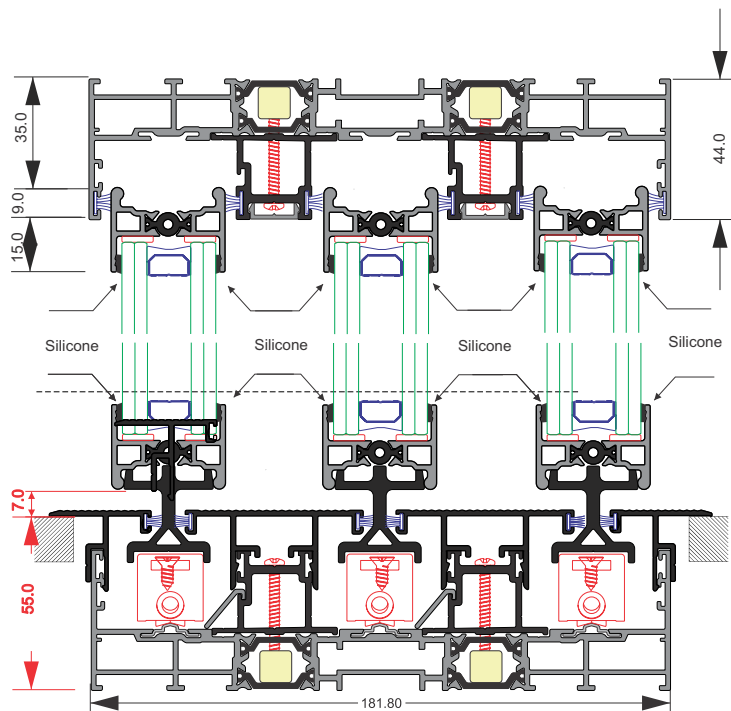
NOTE: This typology does not have a drainage solution.



NOTE: This typology does not have a drainage solution.

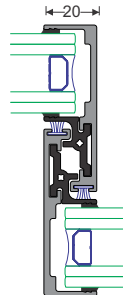


NOTE: This typology does not have a drainage solution.



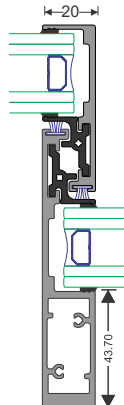
Vertical section

H<1600



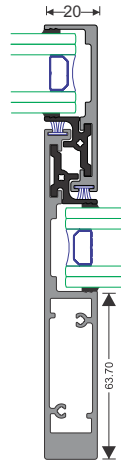
4326 / 4326

H<2100



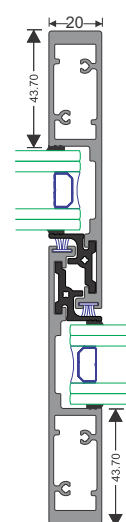
4326 / 4327

H<2400



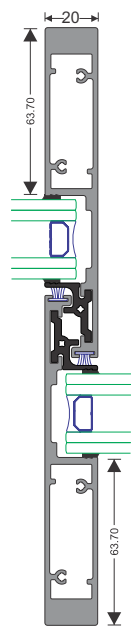
4326 / 4328
standard

H<2400

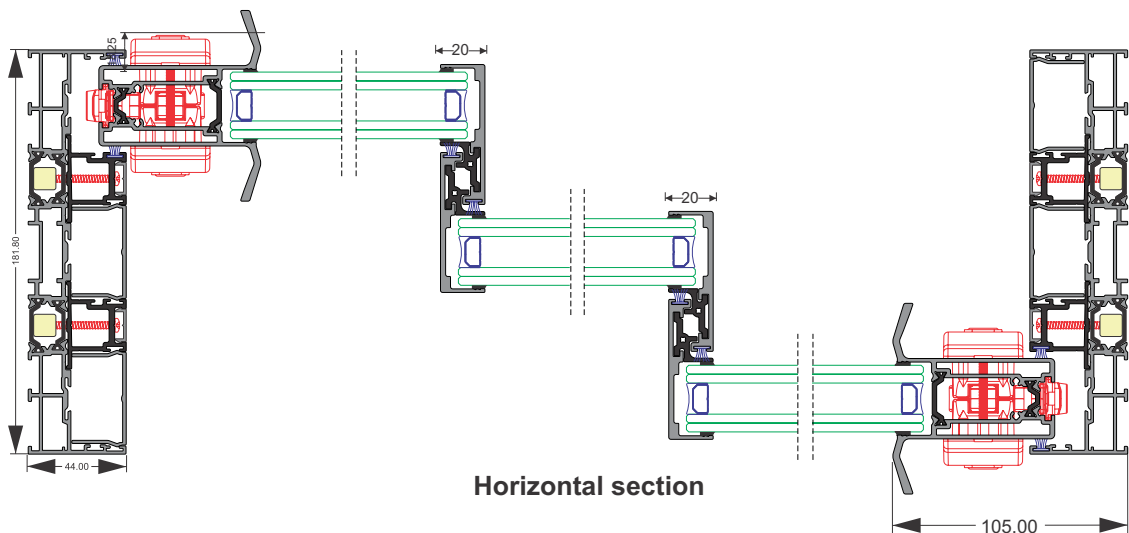
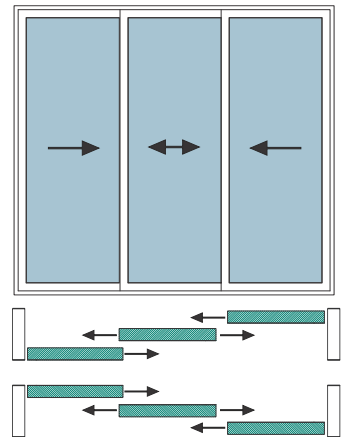


4327 / 4327
optional

H<3000

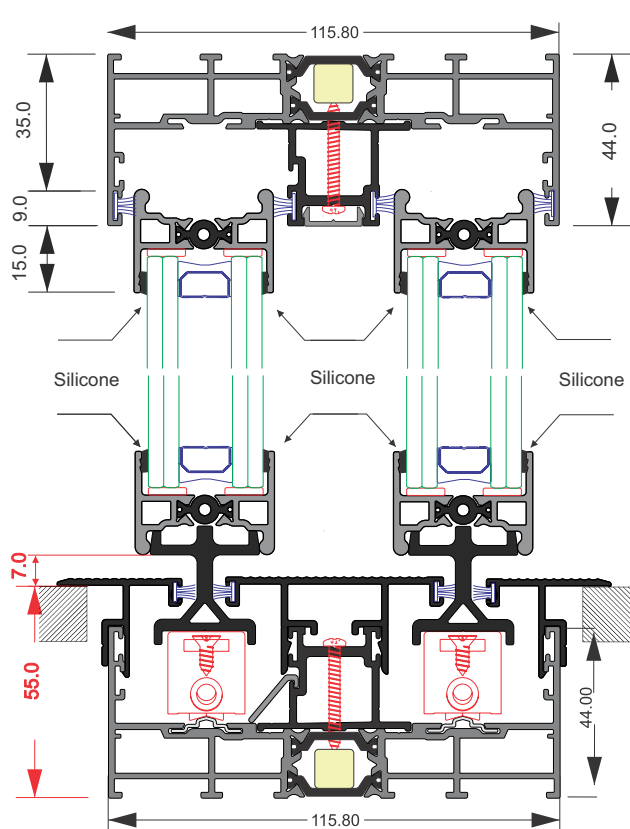


4328 / 4328

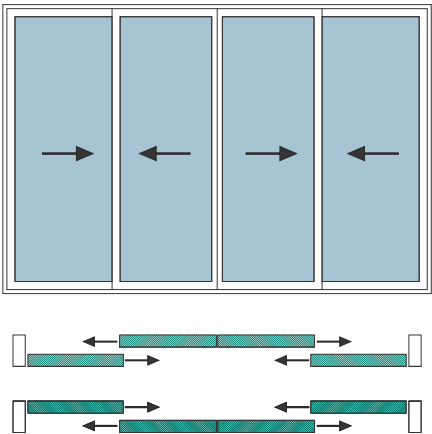


Horizontal section

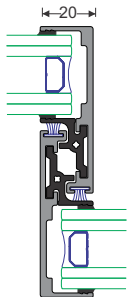
NOTE: This typology does not have a drainage solution.



Vertical section

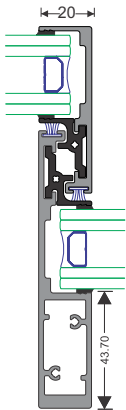


H<1600



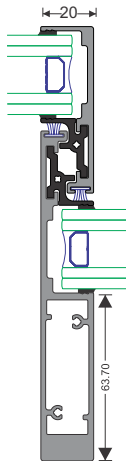
4326 / 4326

H<2100



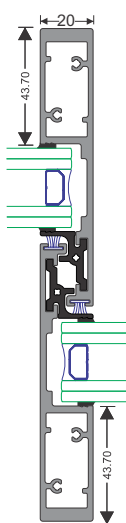
4326 / 4327

H<2400



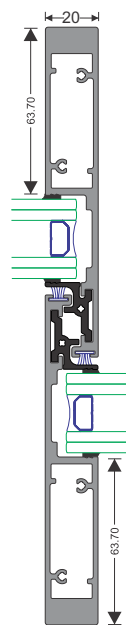
4326 / 4328
standard

H<2400

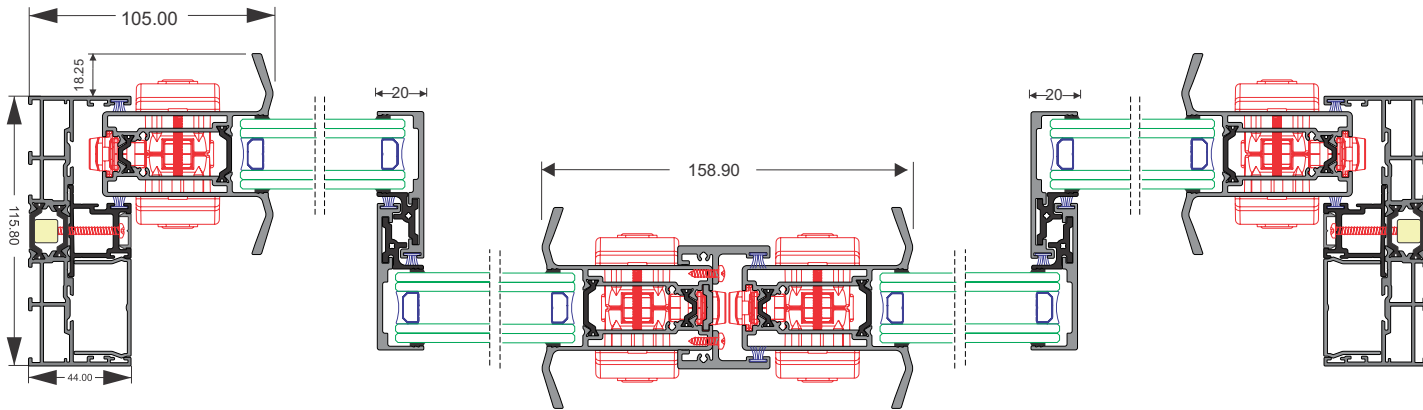


4327 / 4327
optional

H<3000

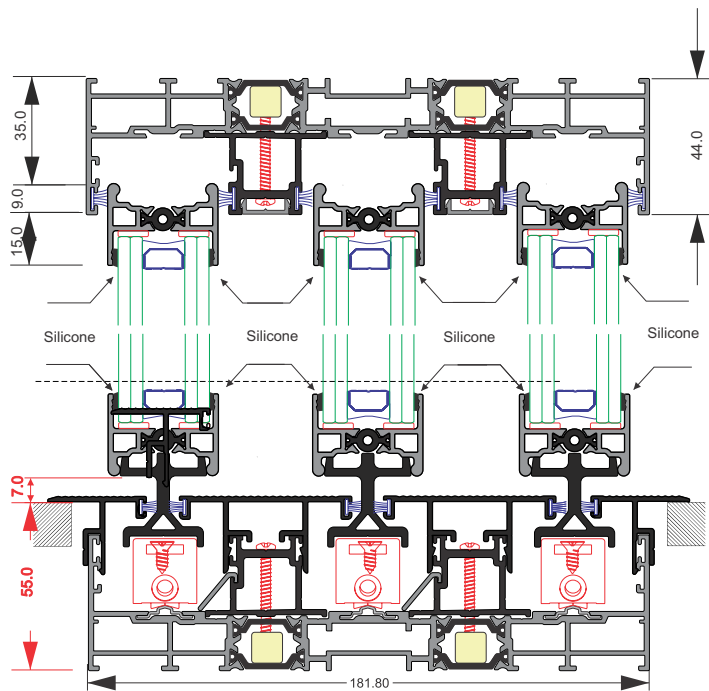


4328 / 4328

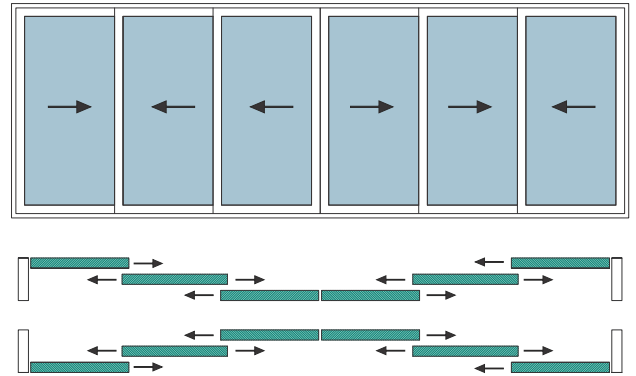


Horizontal section

NOTE: This typology does not have a drainage solution.

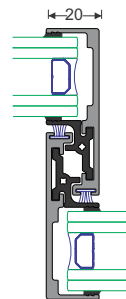


Vertical section



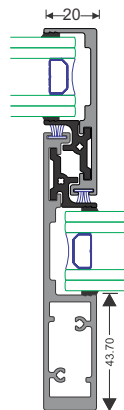
Node sections

H<1600



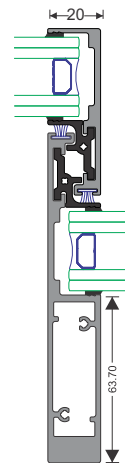
4326 / 4326

H<2100



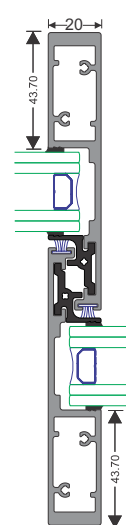
4326 / 4327

H<2400



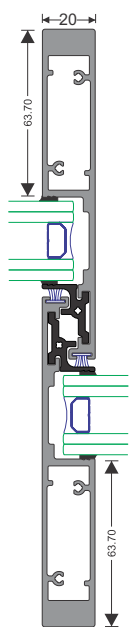
4326 / 4328
standard

H<2400



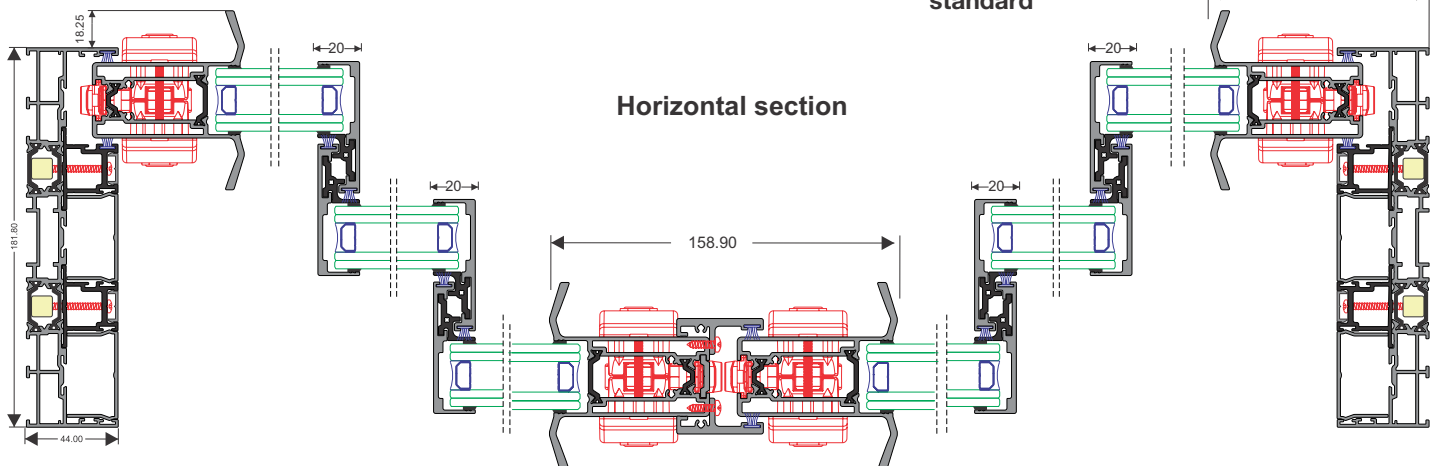
4327 / 4327
optional

H<3000

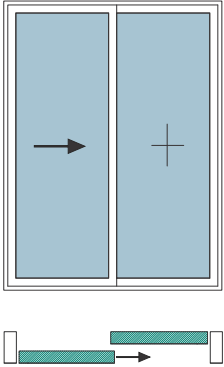
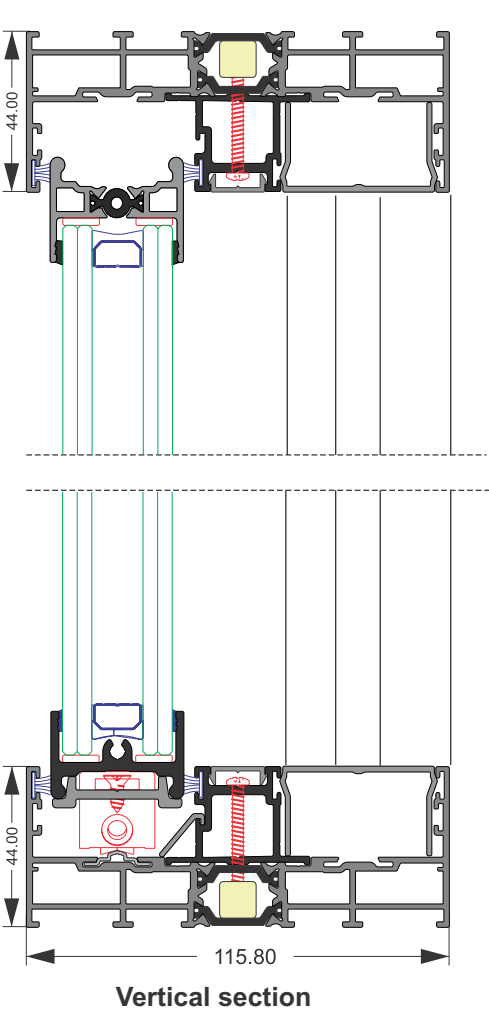


4328 / 4328
105.00

Horizontal section



Opening typologies with handle on the interlock

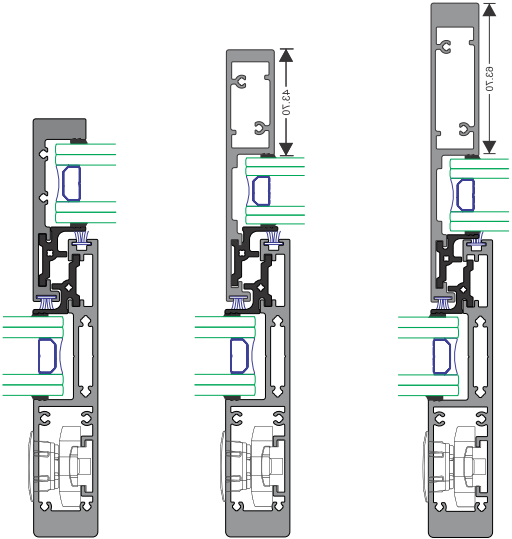


Node sections

H<2100

H<2400

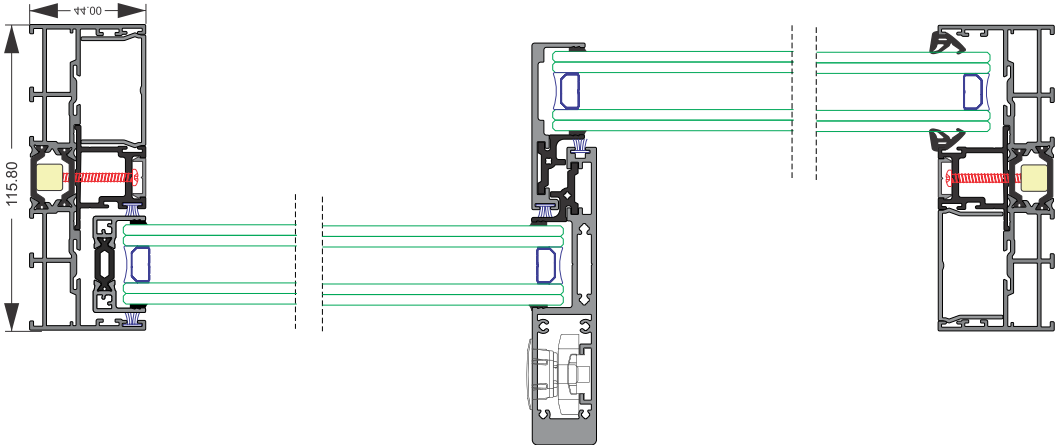
H<3000

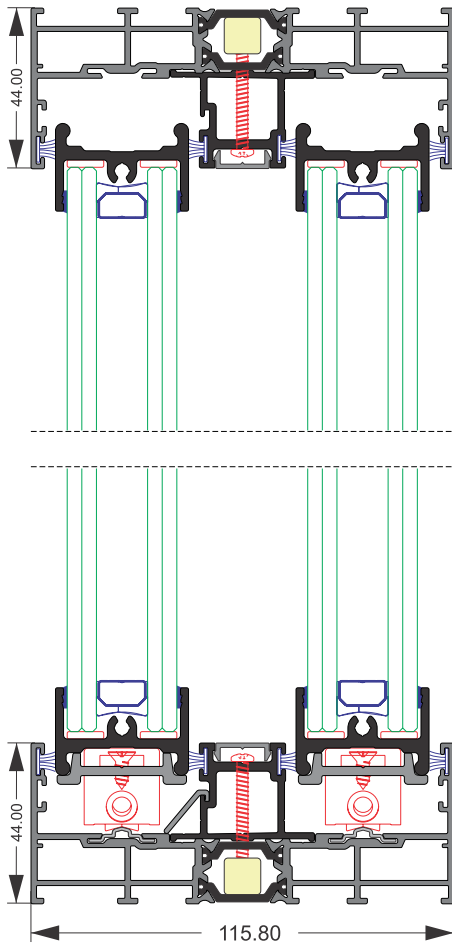


4378 / 4362

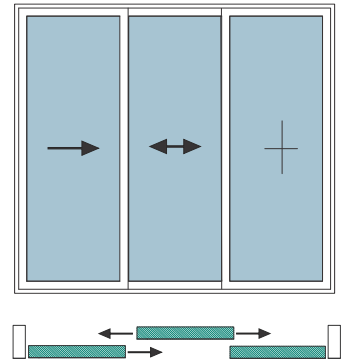
4378 / 4327

4378 / 4328



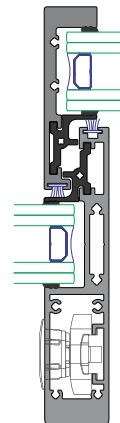


Vertical section



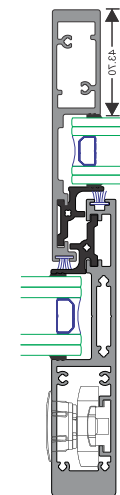
Node sections

H<2100



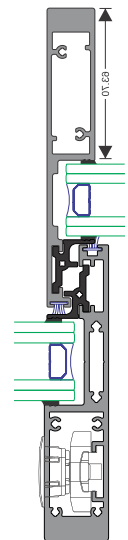
4378 / 4362

H<2400

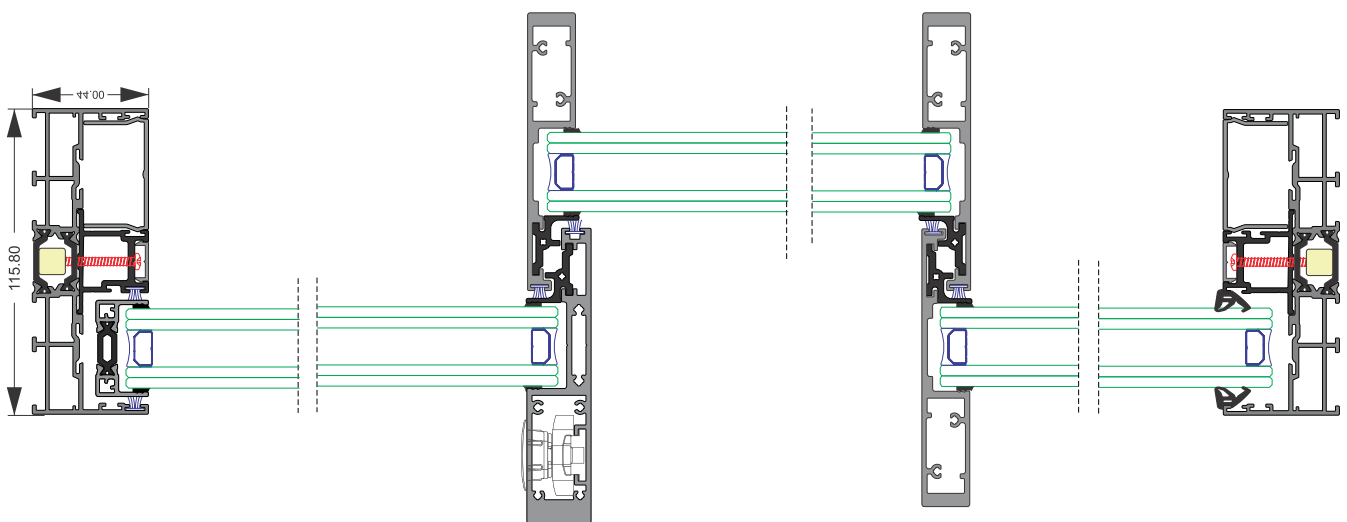


4378 / 4327

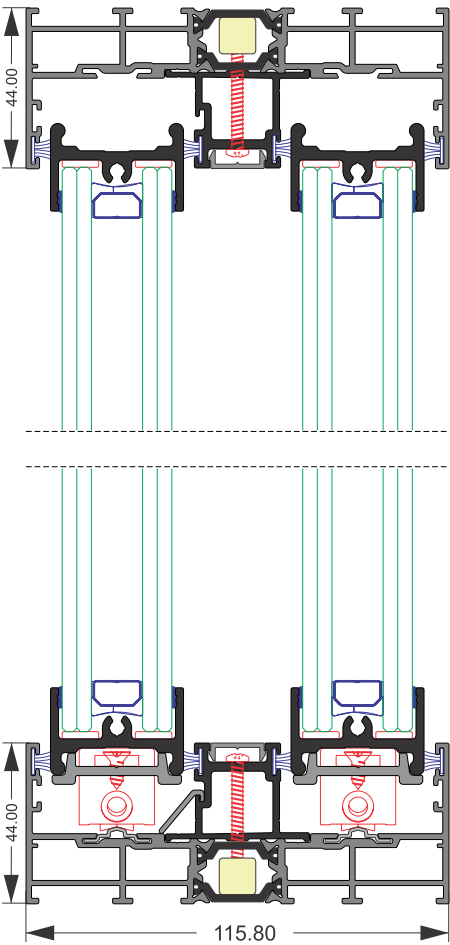
H<3000



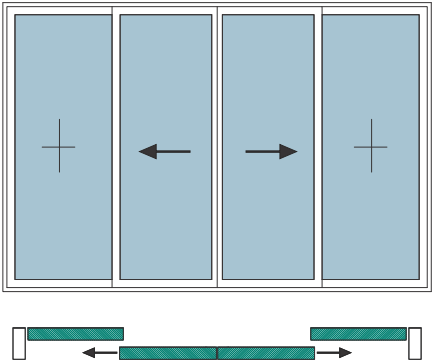
4378 / 4328



Horizontal section

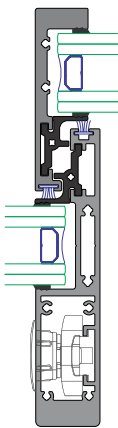


Vertical section



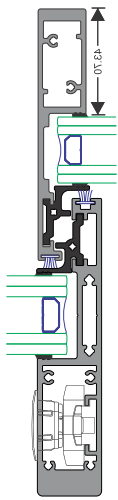
Node sections

H<2100



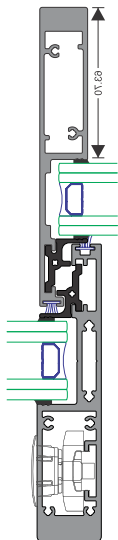
4378 / 4362

H<2400

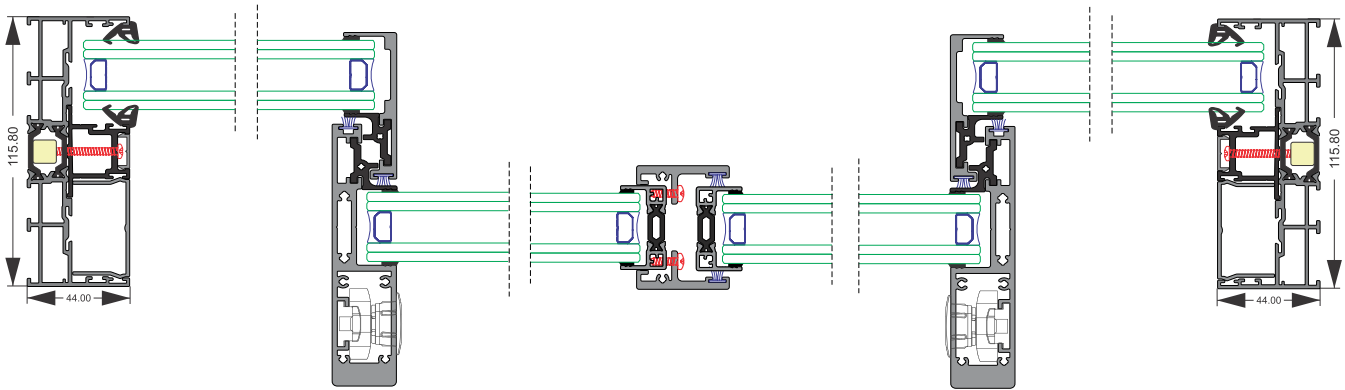


4378 / 4327

H<3000



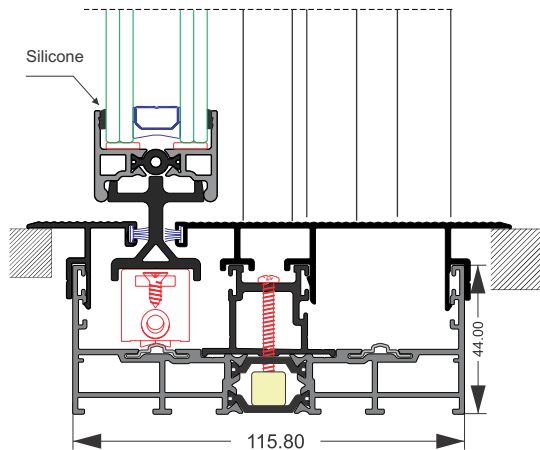
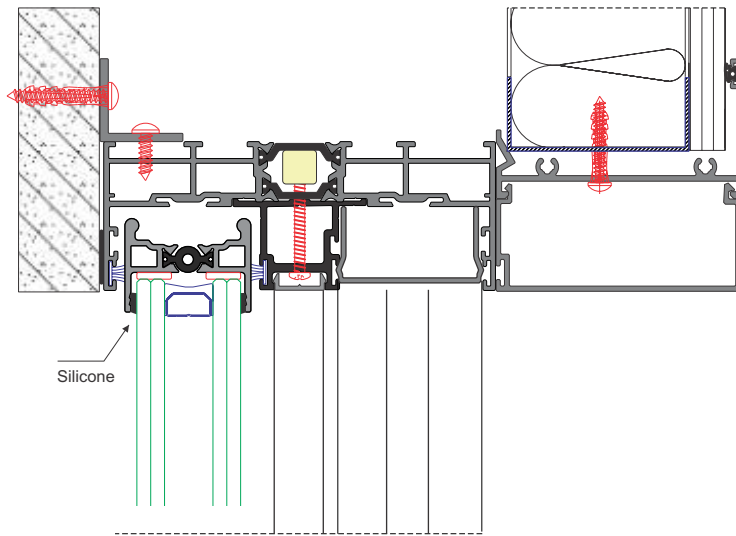
4378 / 4328



Horizontal section

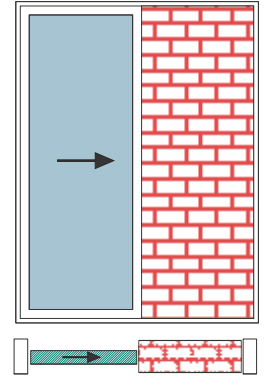
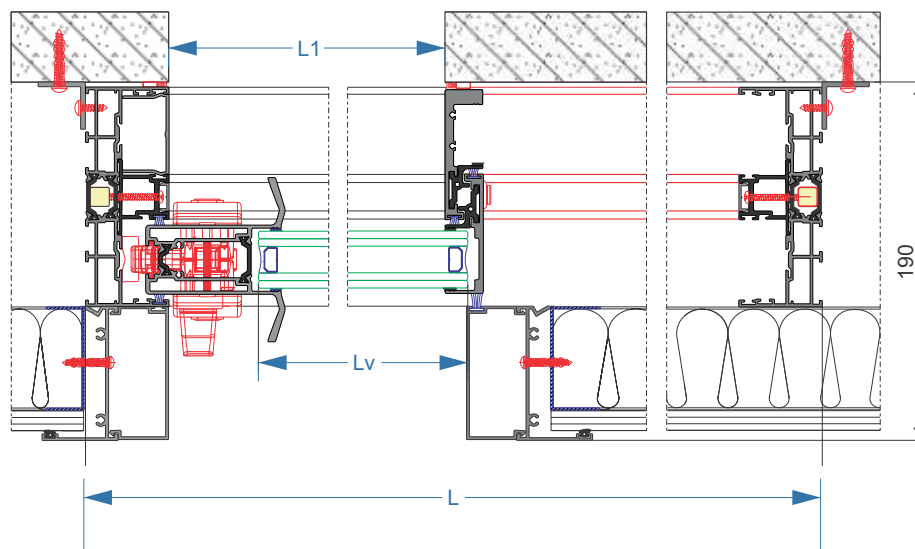
Opening typologies for frames with embedded threshold and pocket fold

NOTE: This typology does not have a drainage solution.



Vertical section

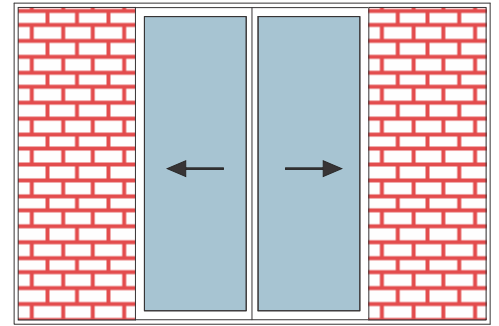
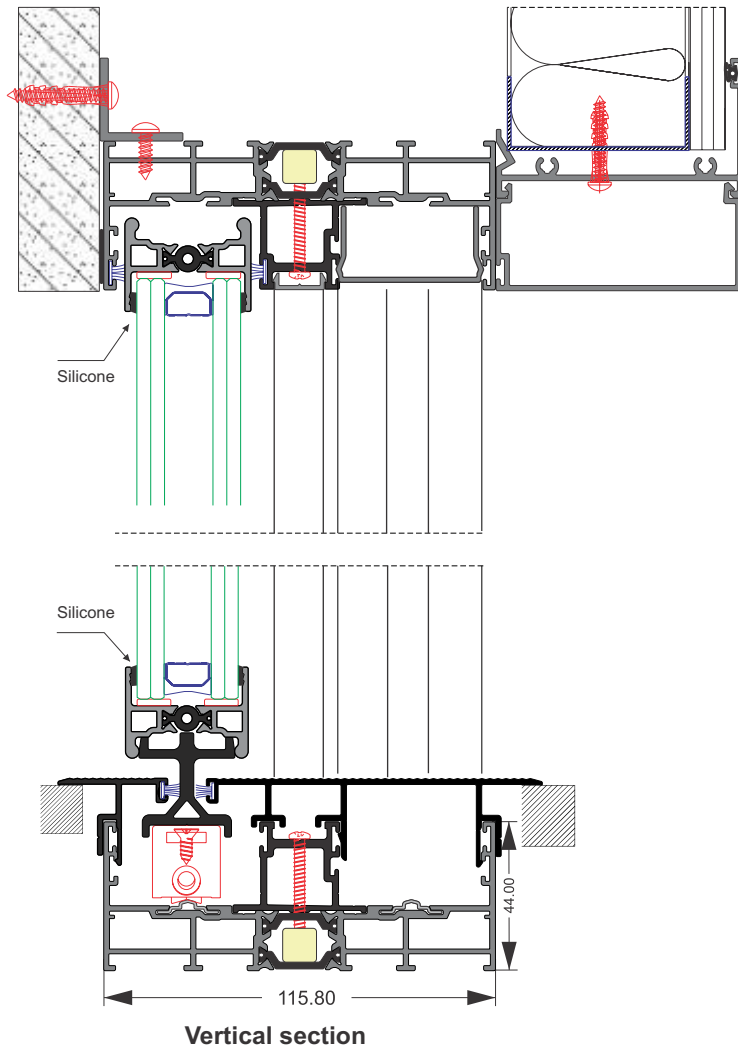
Horizontal section



Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

NOTE: This typology does not have a drainage solution.

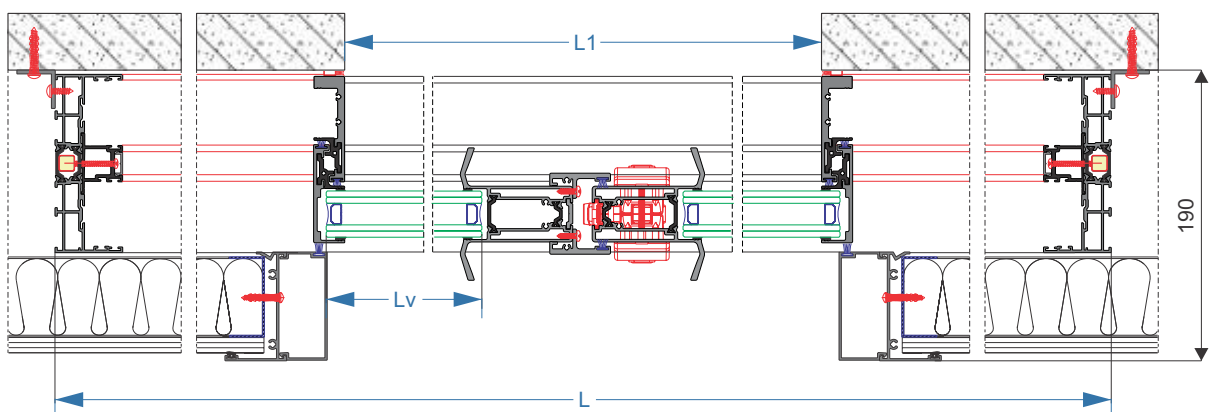


Sash minimum width - **500 mm**
 Sash minimum height - **800mm**
 Sash maximum weight - **320 Kg**
 Maximum sash area - **6 m²**

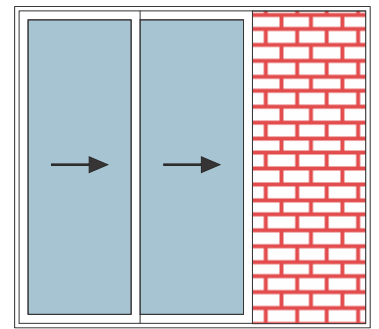
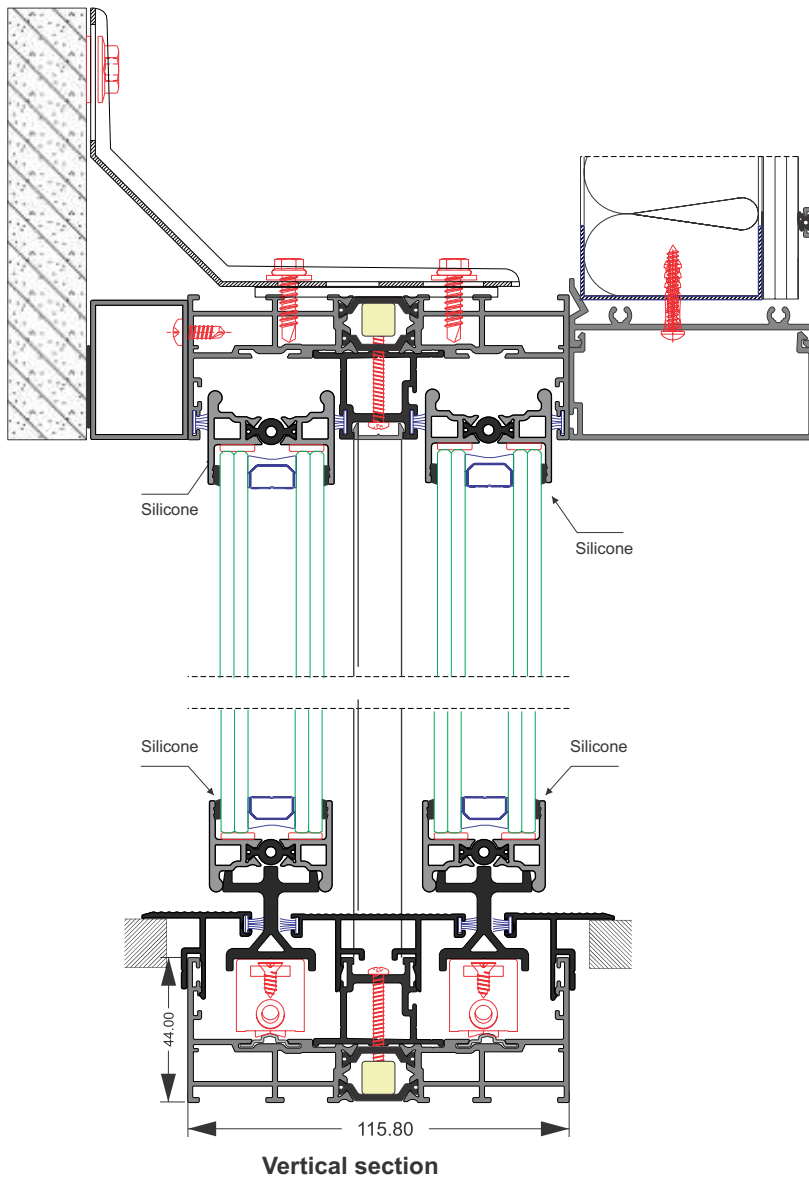
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

Horizontal section



NOTE: This typology does not have a drainage solution.



Sash minimum width - **500 mm**

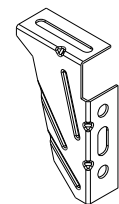
Sash minimum height - **800mm**

Sash maximum weight - **320 Kg**

Maximum sash area - **6 m²**

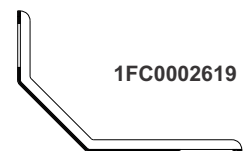
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



418115

Reinforced grip T square 100x150 mm



1FC0002619

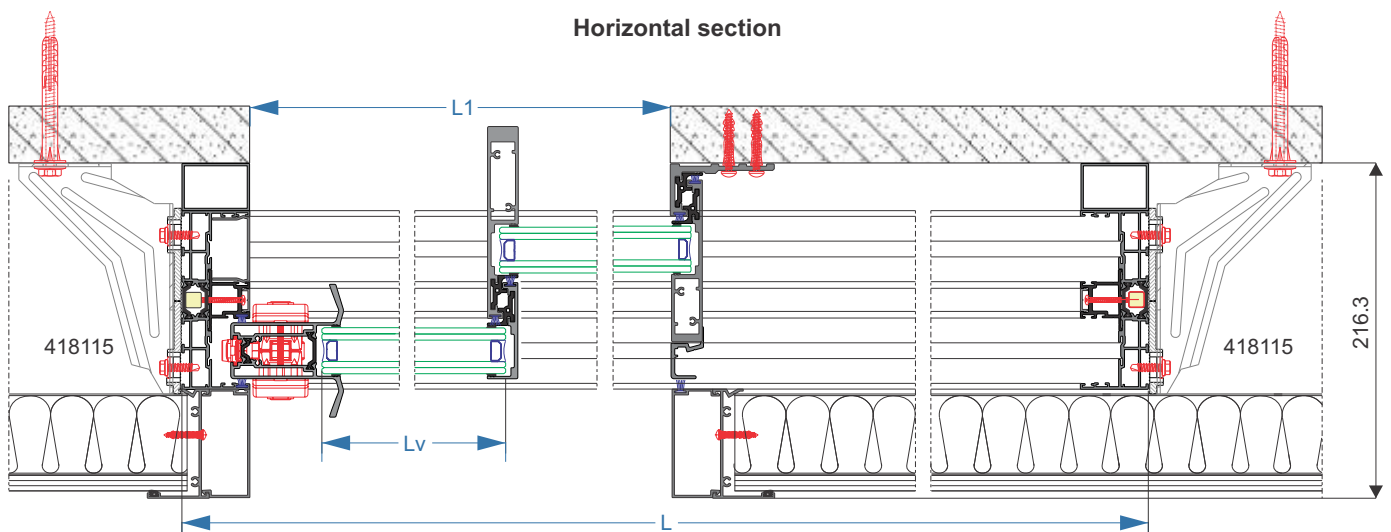
Grip T square 80x127 mm



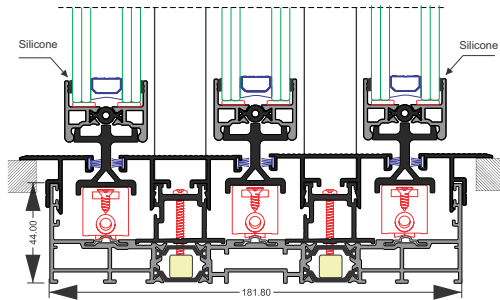
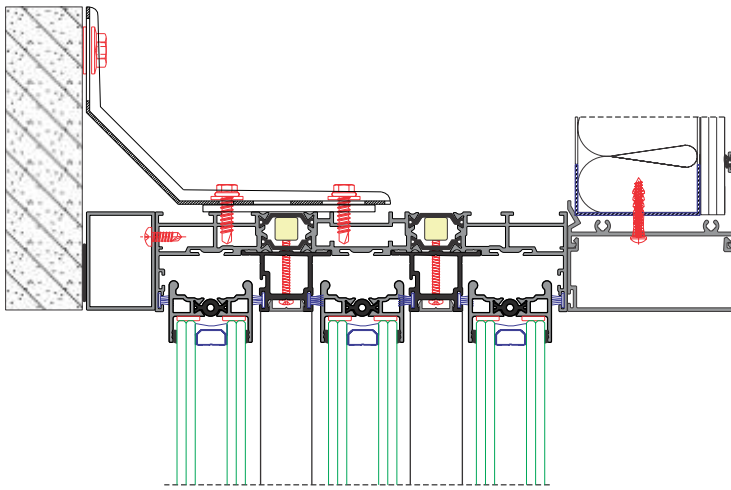
4CP0000008

Thermal bridge spacer

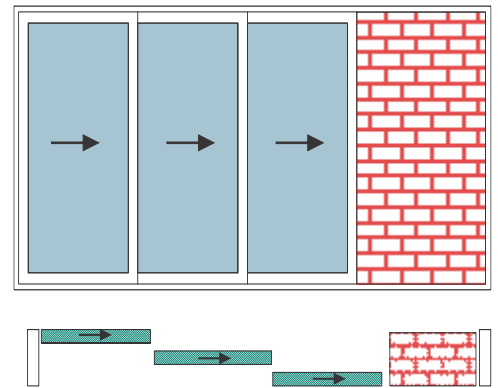
Horizontal section



NOTE: This typology does not have a drainage solution.

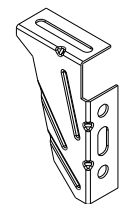


Vertical section



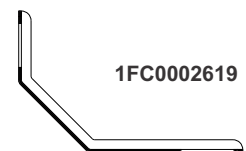
Sash minimum width - 500 mm
 Sash minimum height - 800mm
 Sash maximum weight - 320 Kg
 Maximum sash area - 6 m²
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



418115

Reinforced grip T square 100x150 mm



1FC0002619

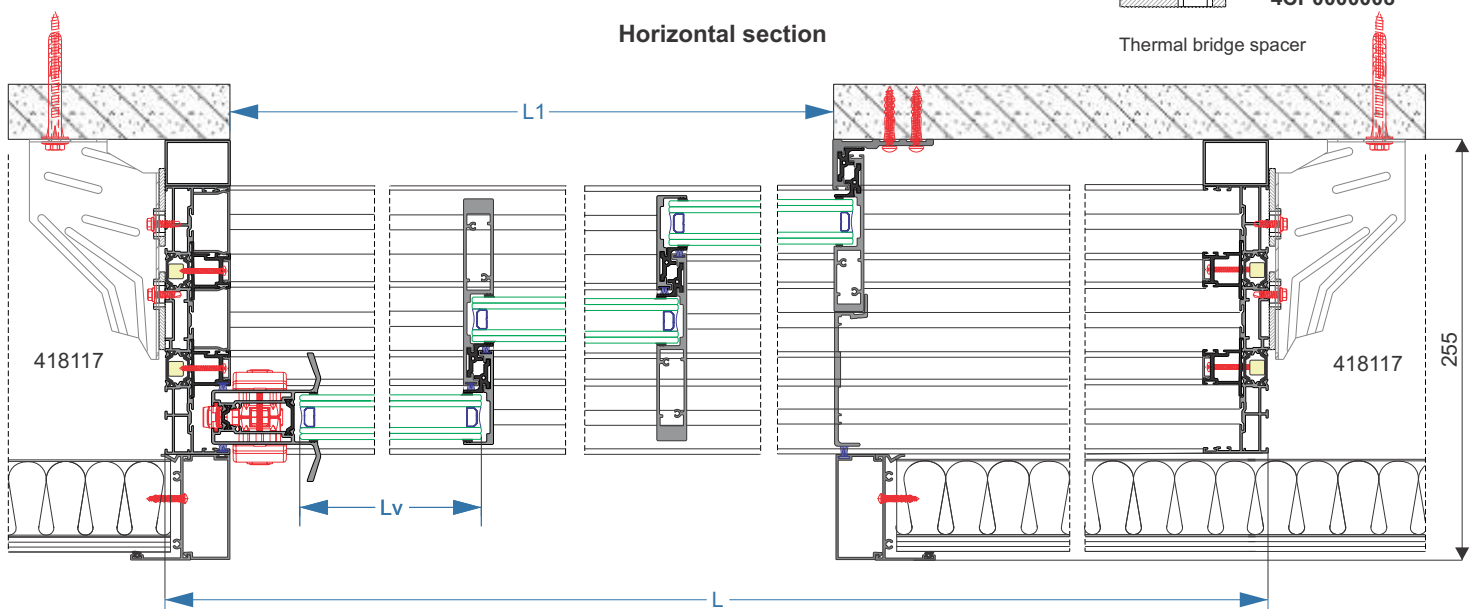
Grip T square 80x127 mm



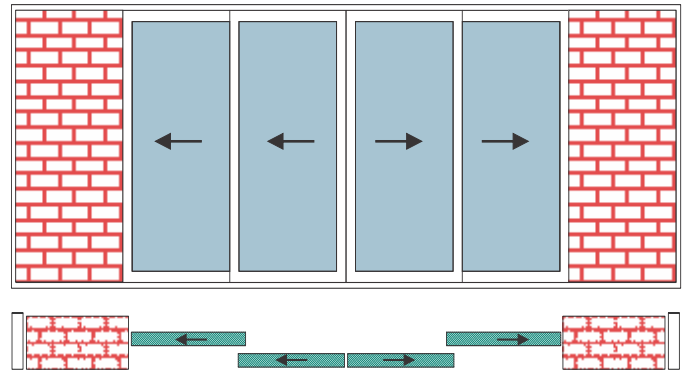
4CP0000008

Thermal bridge spacer

Horizontal section



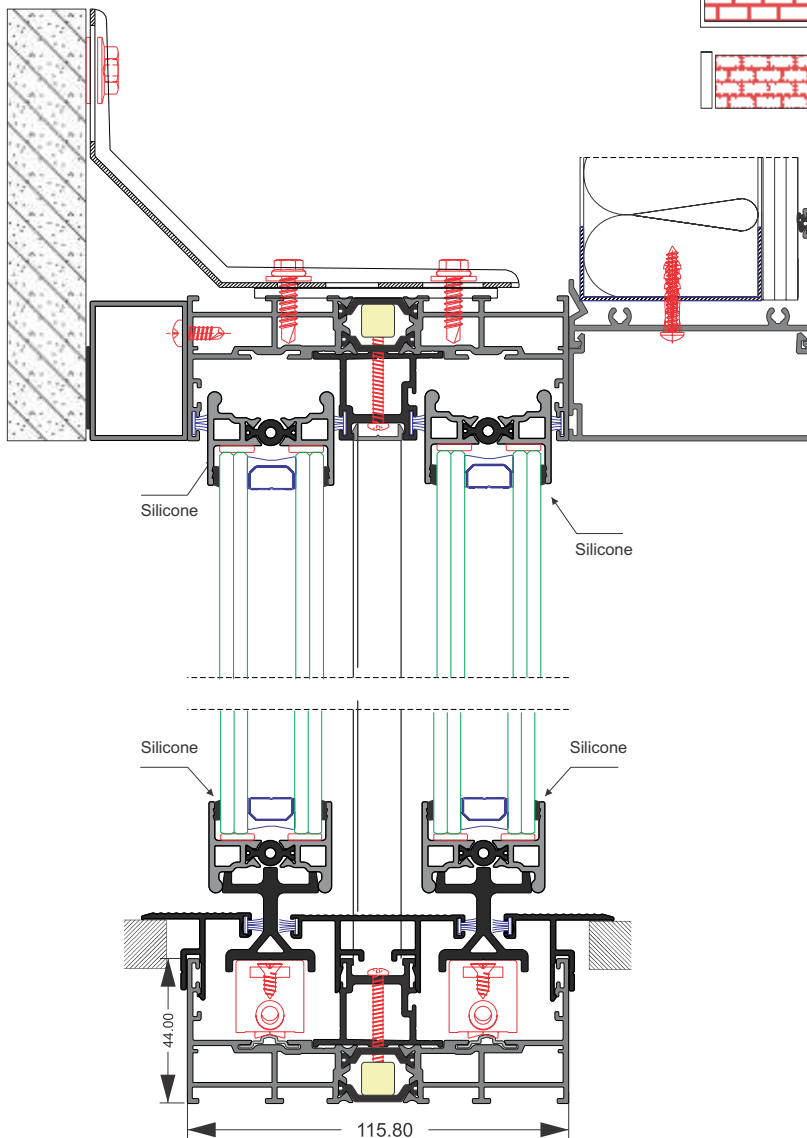
NOTE: This typology does not have a drainage solution.



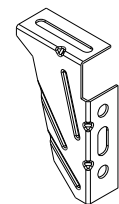
Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**

Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

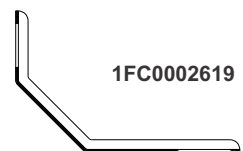


Vertical section



418115

Reinforced grip T square 100x150 mm



1FC0002619

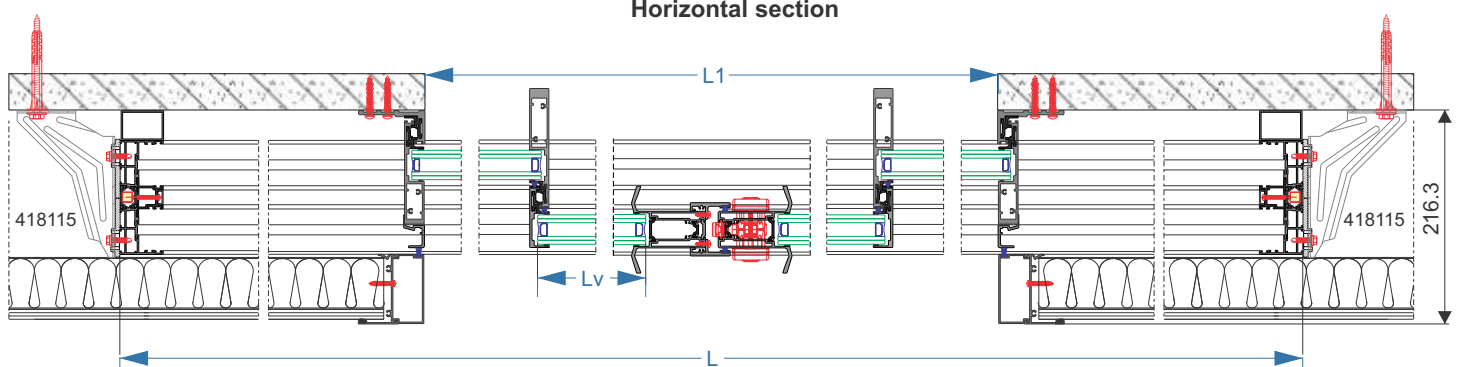
Grip T square 80x127 mm



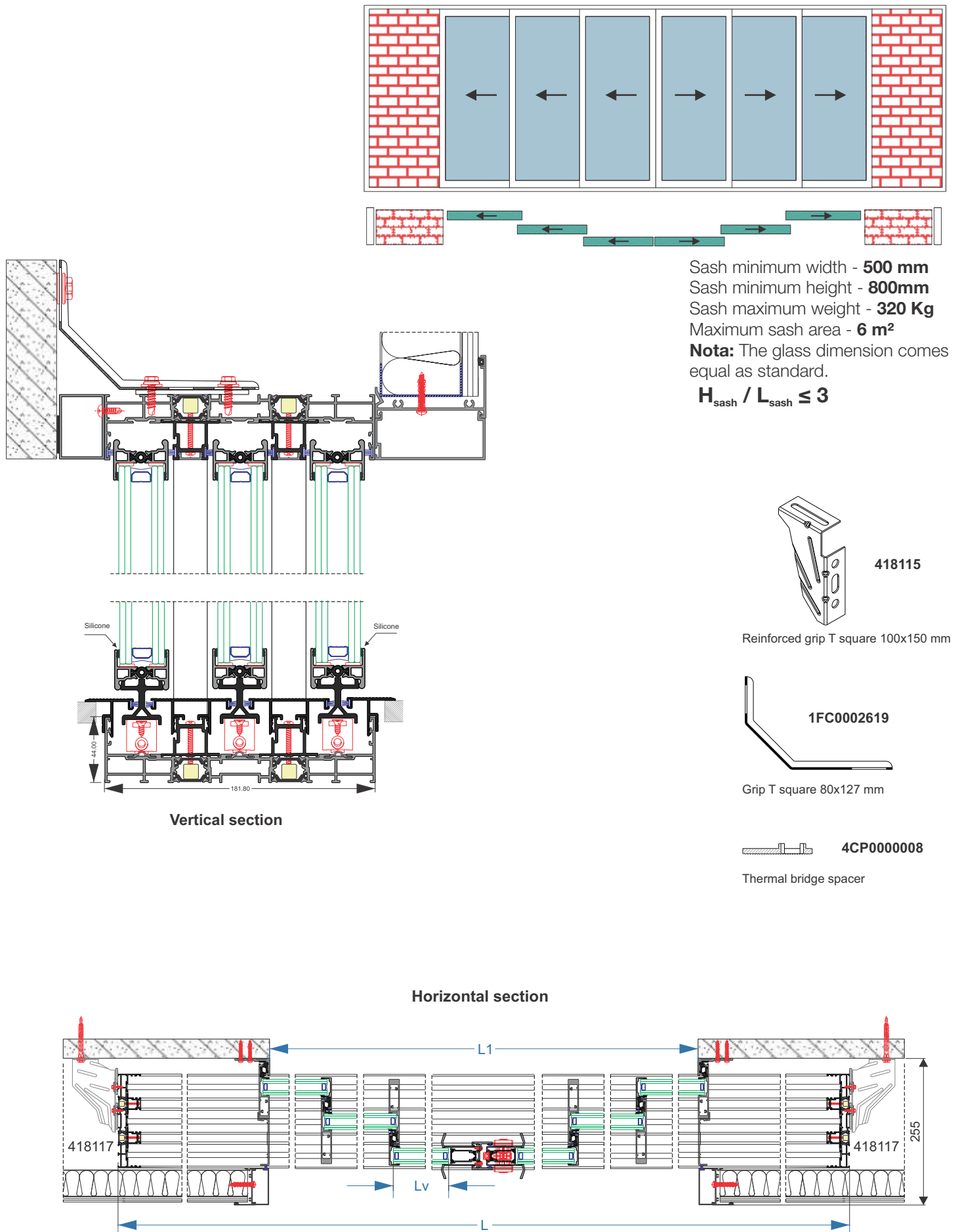
4CP0000008

Thermal bridge spacer

Horizontal section



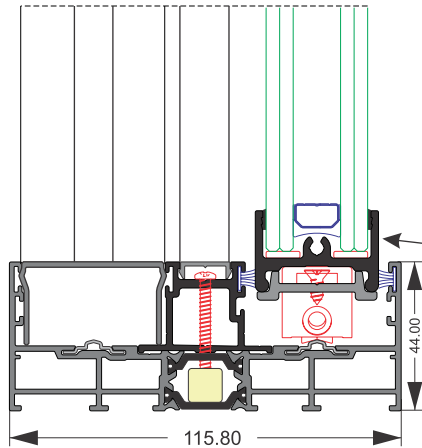
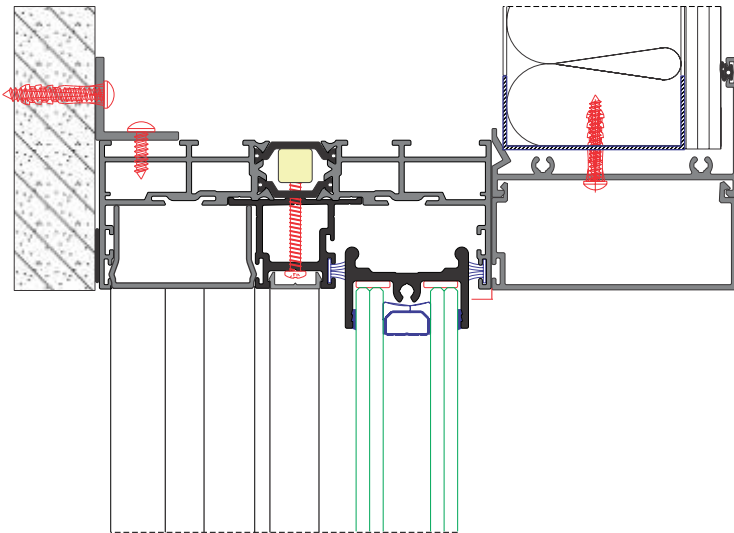
NOTE: This typology does not have a drainage solution.



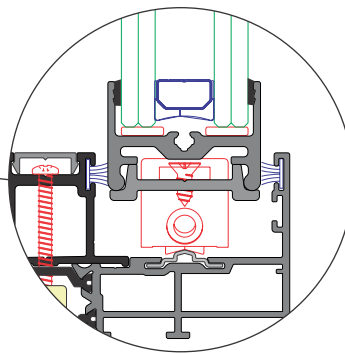
Sash minimum width - **500 mm**
 Sash minimum height - **800mm**
 Sash maximum weight - **320 Kg**
 Maximum sash area - **6 m²**

Nota: The glass dimension comes equal as standard.

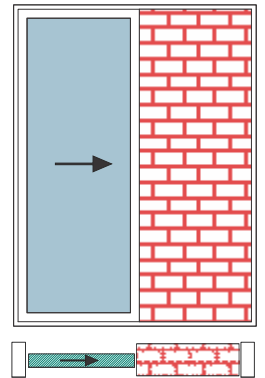
$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



Vertical section



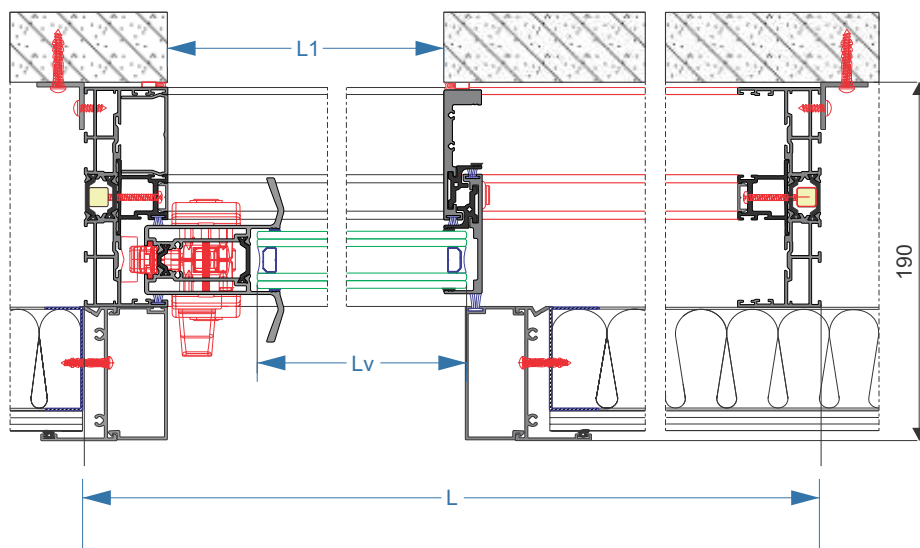
OPTIONAL
Horizontal aluminum sash - 4314

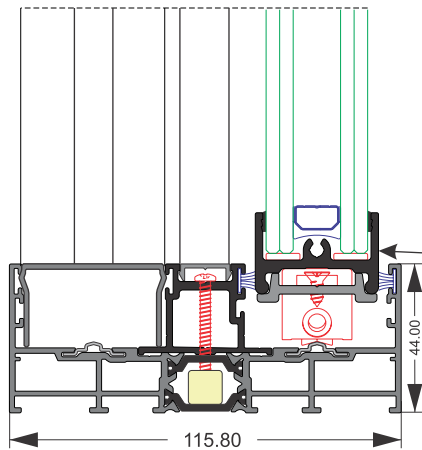
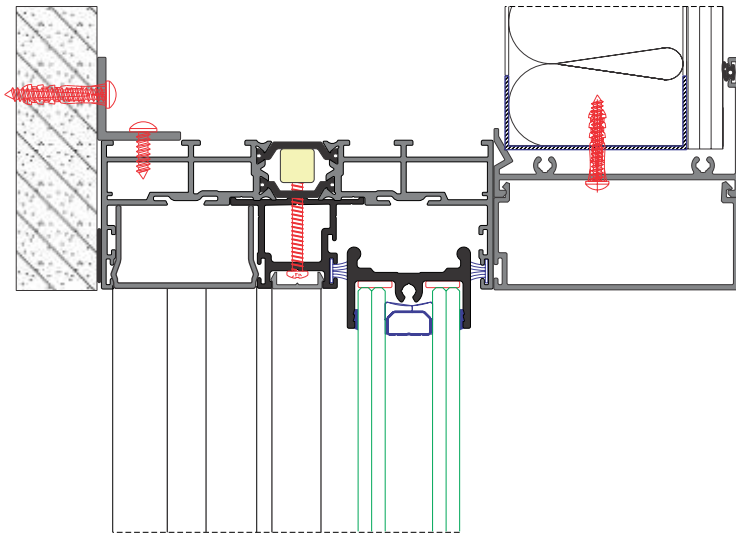


Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**
Nota: The glass dimension comes equal as standard.

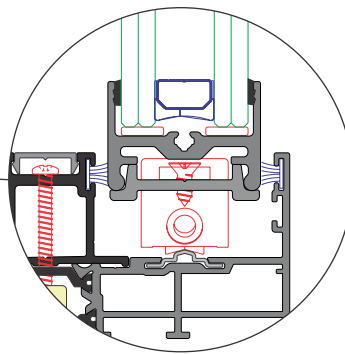
$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

Horizontal section



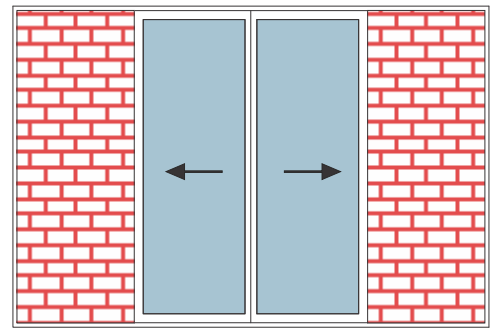


Vertical section



OPTIONAL

Horizontal aluminum sash - 4314

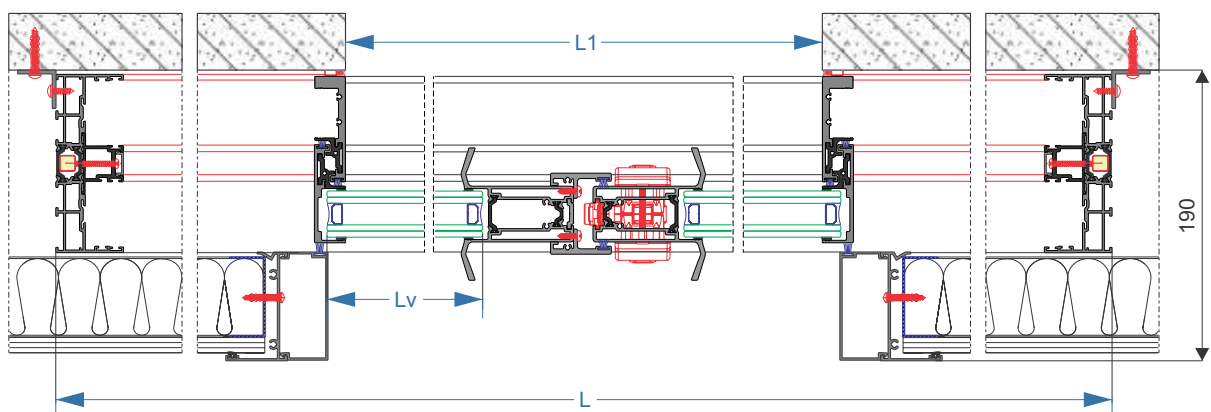


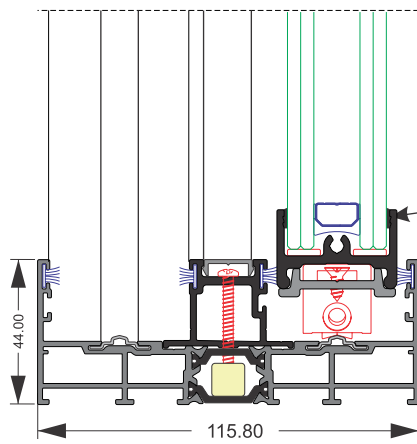
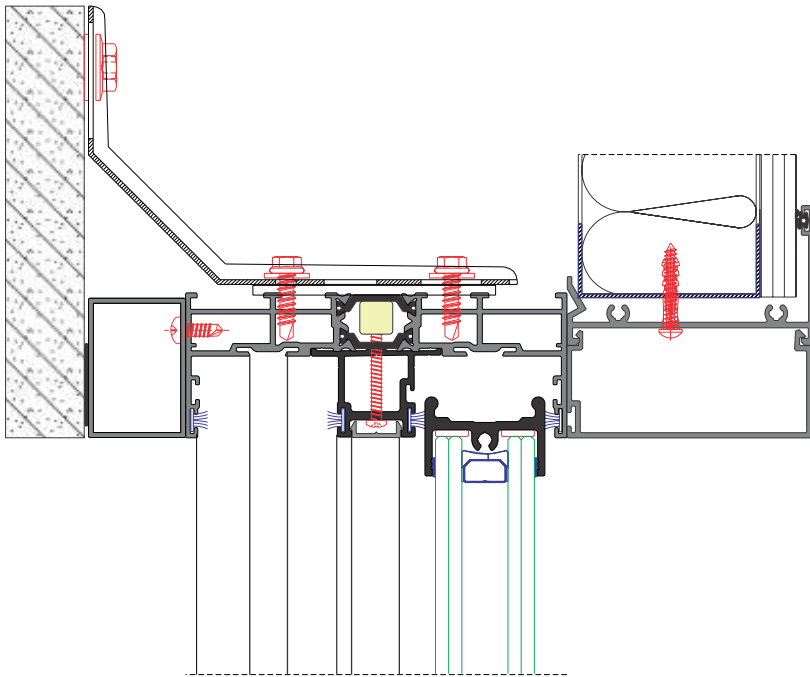
Sash minimum width - **500 mm**
 Sash minimum height - **800mm**
 Sash maximum weight - **320 Kg**
 Maximum sash area - **6 m²**

Nota: The glass dimension comes equal as standard.

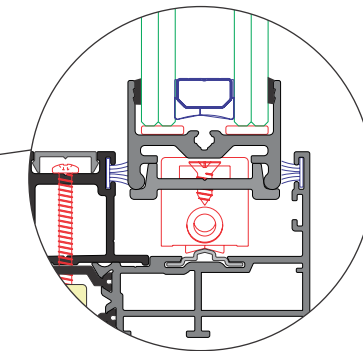
$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$

Horizontal section



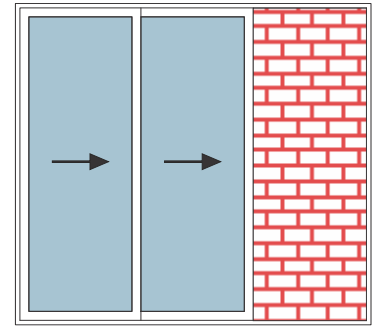


Vertical section



OPTIONAL

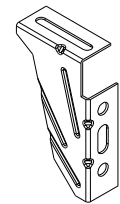
Horizontal aluminum sash - 4314



Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**

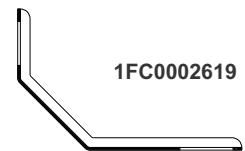
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



418115

Reinforced grip T square 100x150 mm



1FC0002619

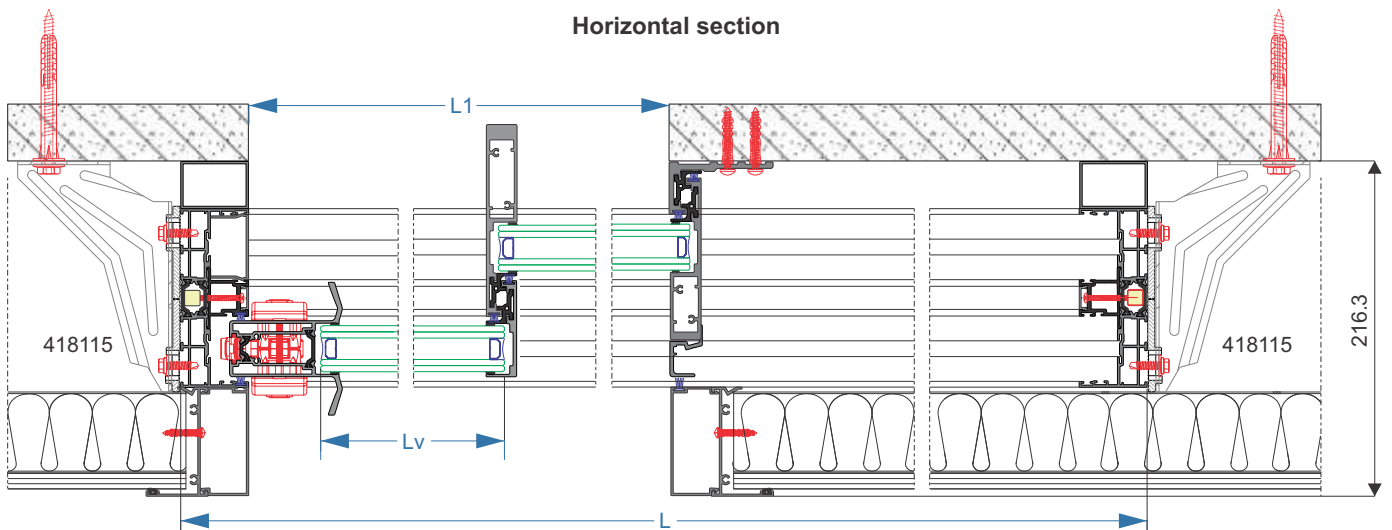
Grip T square 80x127 mm

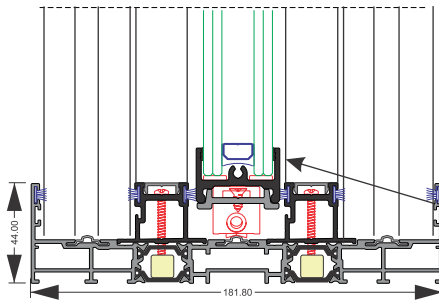
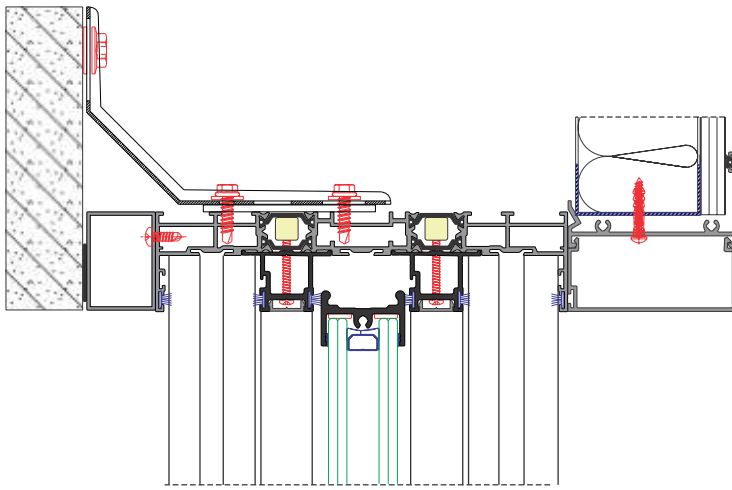


4CP0000008

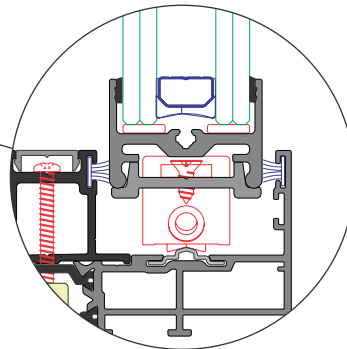
Thermal bridge spacer

Horizontal section



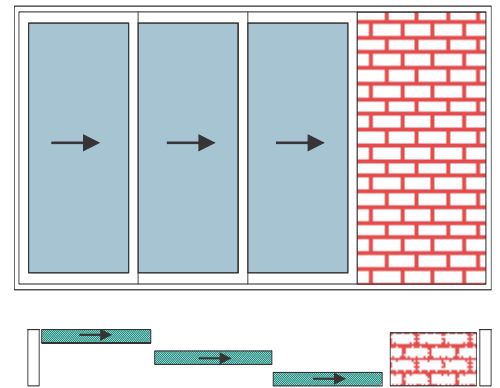


Vertical section



OPTIONAL

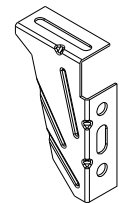
Horizontal aluminum sash - 4314



Sash minimum width - **500 mm**
 Sash minimum height - **800mm**
 Sash maximum weight - **320 Kg**
 Maximum sash area - **6 m²**

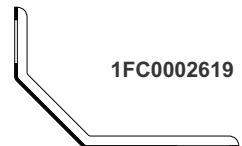
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



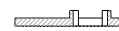
418115

Reinforced grip T square 100x150 mm



1FC0002619

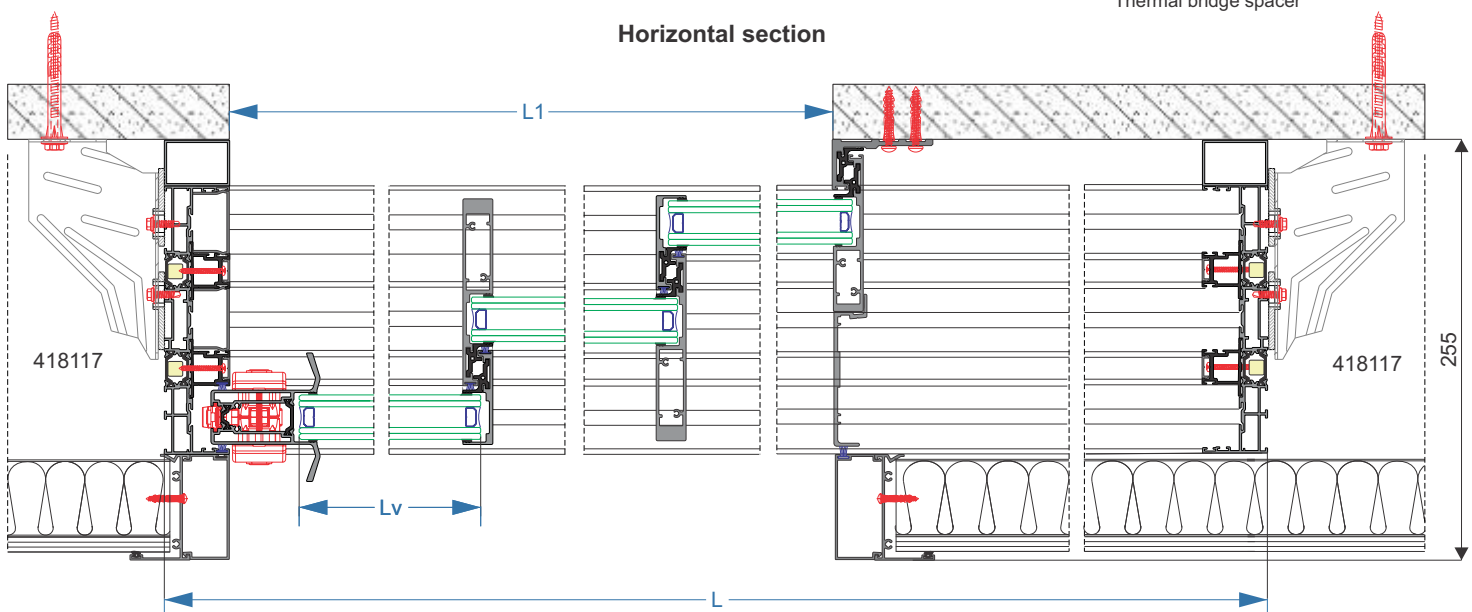
Grip T square 80x127 mm

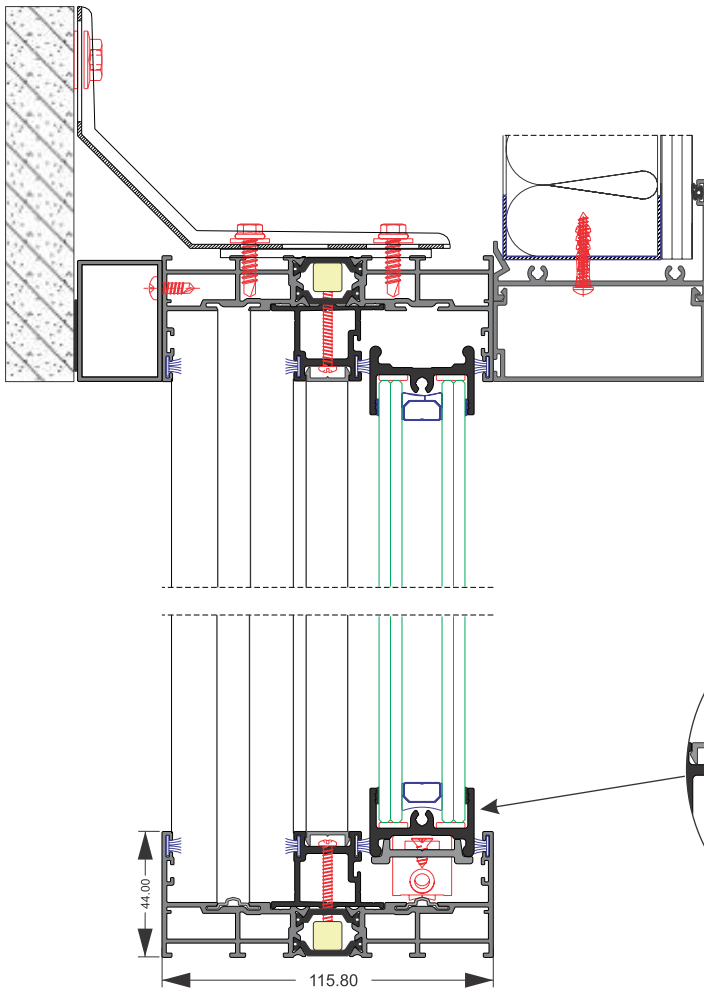


4CP0000008

Thermal bridge spacer

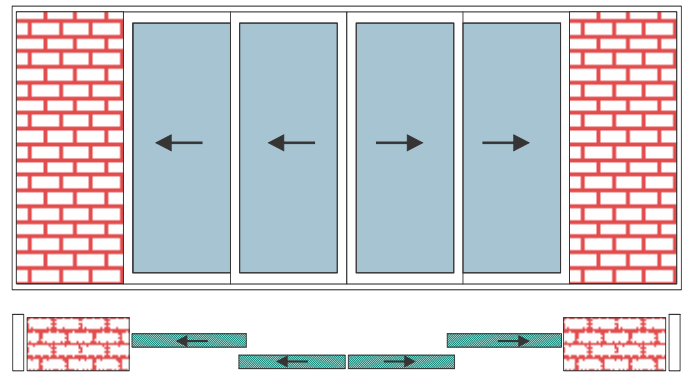
Horizontal section





Vertical section

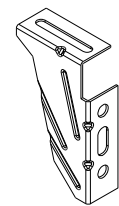
OPTIONAL
Horizontal aluminum sash - 4314



Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**

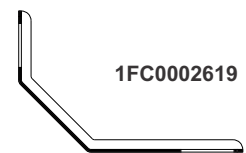
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



418115

Reinforced grip T square 100x150 mm



1FC0002619

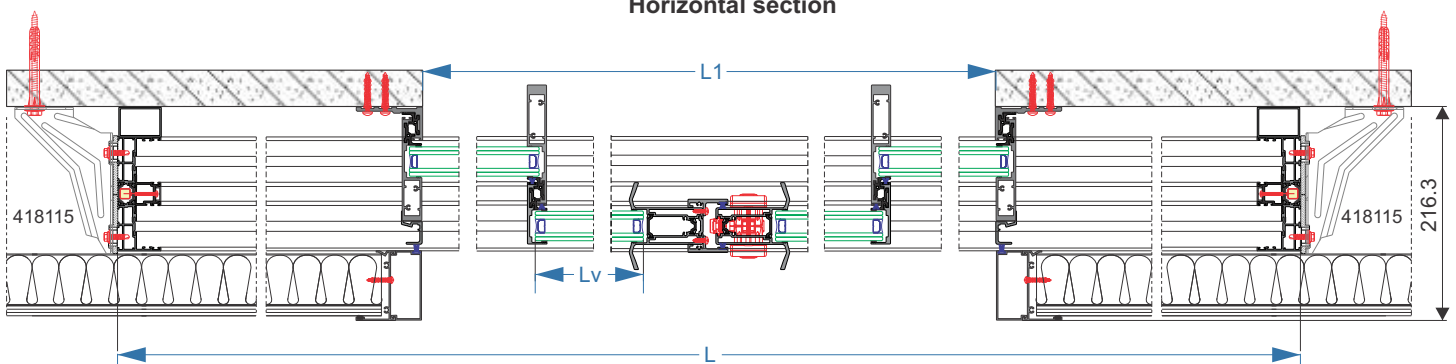
Grip T square 80x127 mm

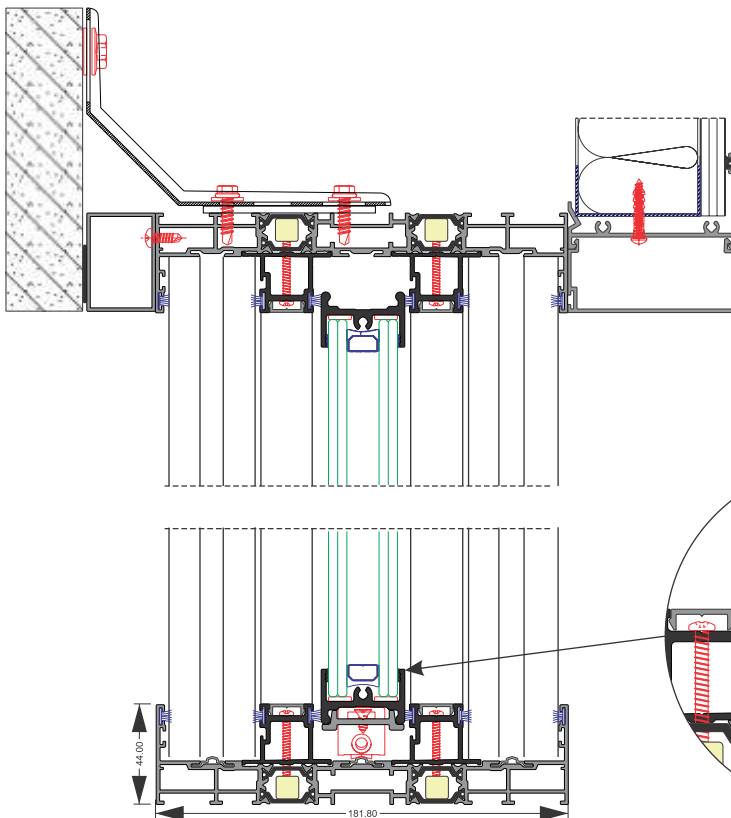
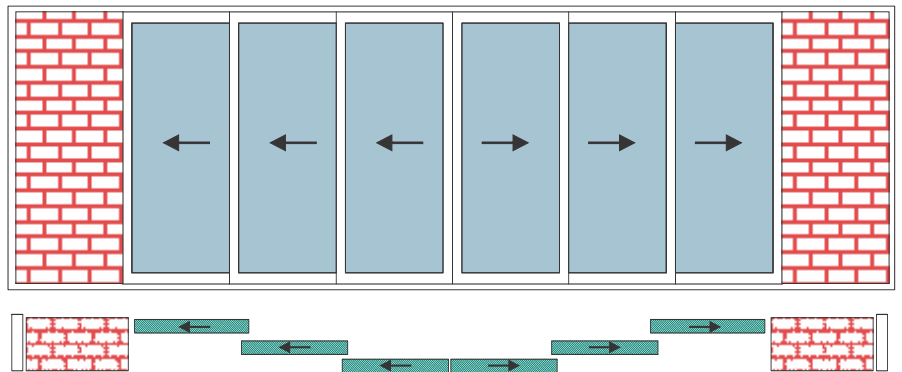


4CP0000008

Thermal bridge spacer

Horizontal section



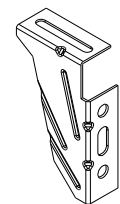


Vertical section

OPTIONAL
Horizontal aluminum sash - 4314

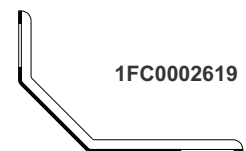
Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



418115

Reinforced grip T square 100x150 mm



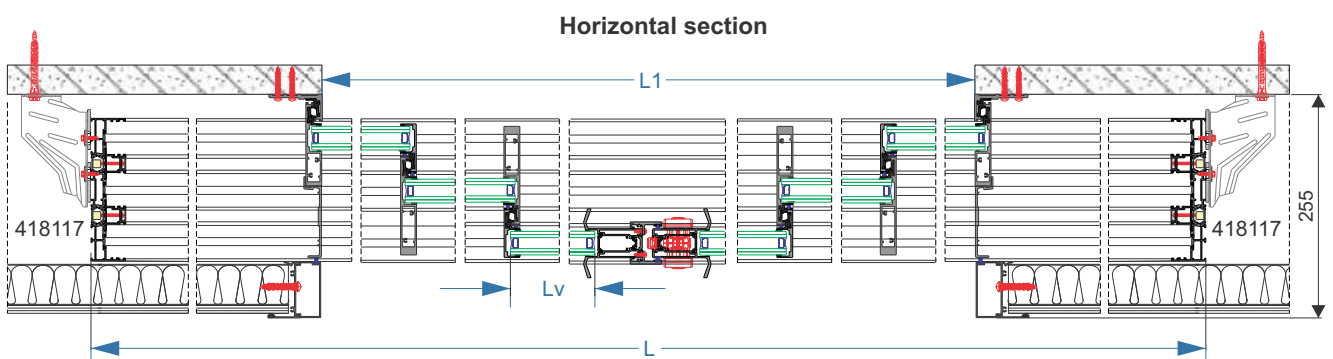
1FC0002619

Grip T square 80x127 mm



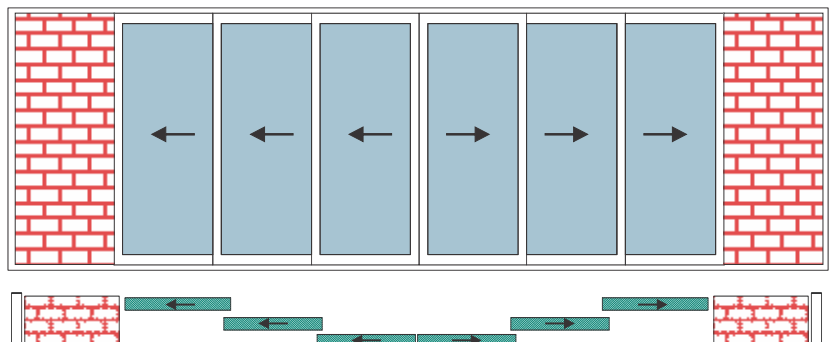
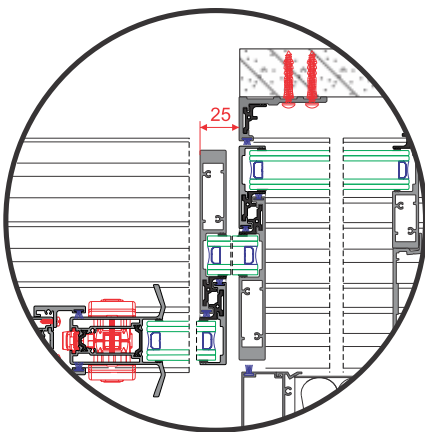
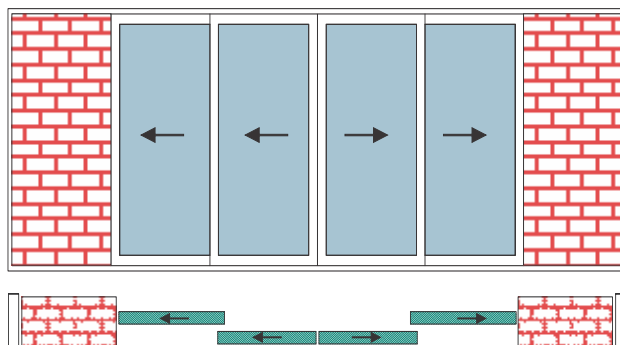
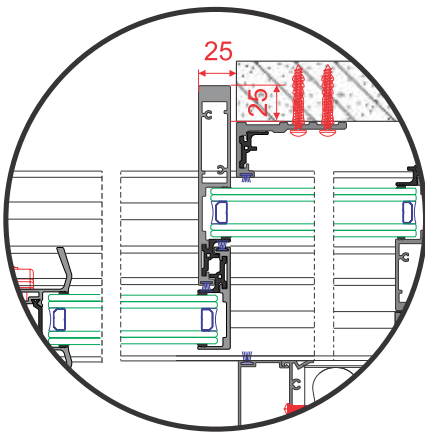
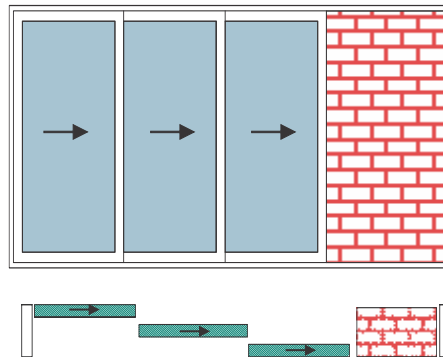
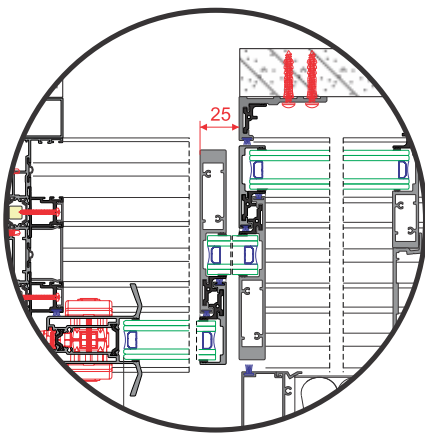
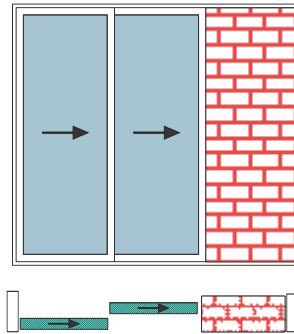
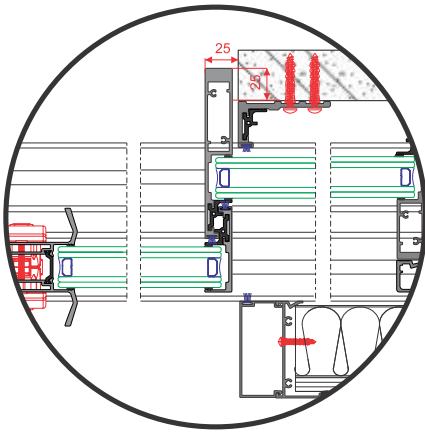
4CP0000008

Thermal bridge spacer

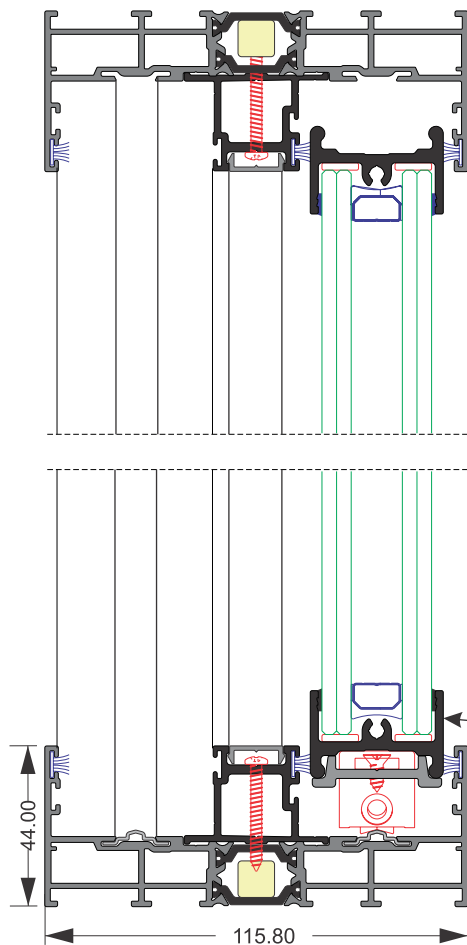


Horizontal section

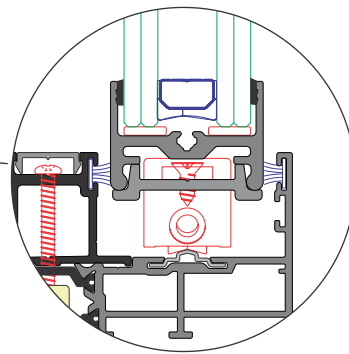
Central interlock pocket door schemes details



NOTE: for constructions with two sliding rails, from quota $H > 1.600\text{mm}$, the reinforced profile is used, and this one limits the opening by approximately 25mm, in some cases even overhanging outside the brickwork.

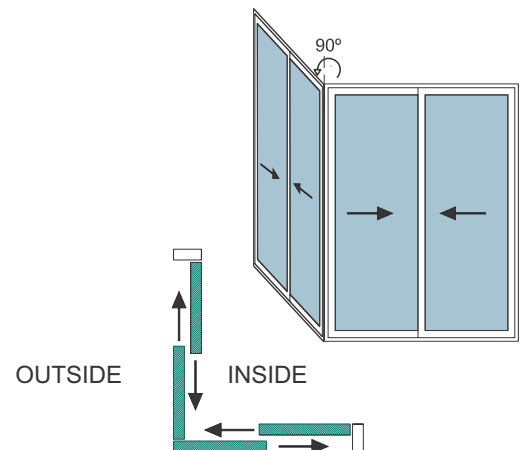


Vertical section



OPTIONAL

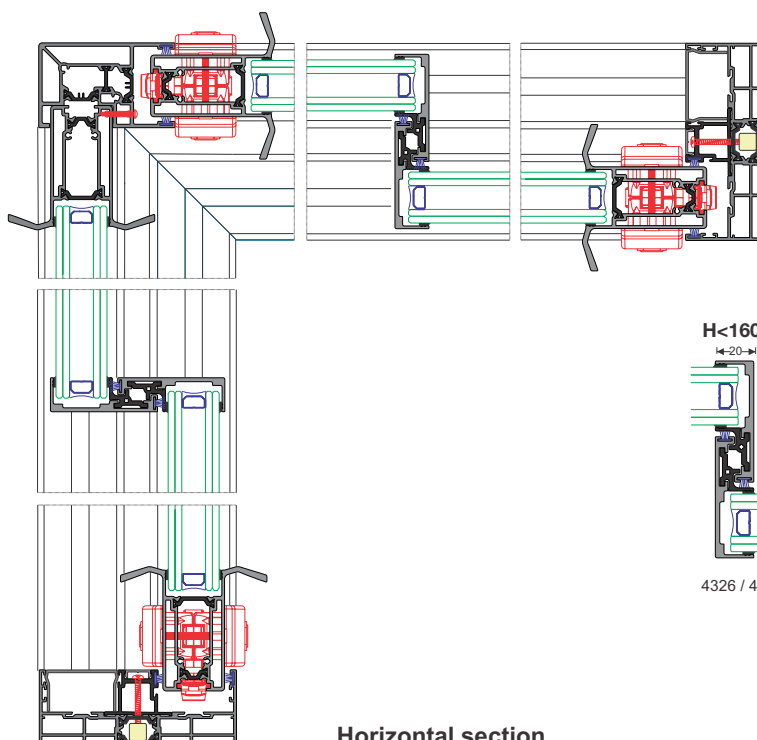
Horizontal aluminum sash - 4314



Sash minimum width - **500 mm**
 Sash minimum height - **800mm**
 Sash maximum weight - **320 Kg**
 Maximum sash area - **6 m²**

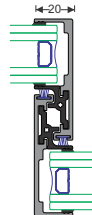
Nota: The glass dimension comes equal as standard.

$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



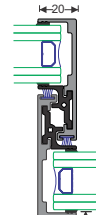
Horizontal section

H<1600



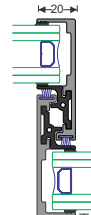
4326 / 4326

H<2100



4326 / 4327

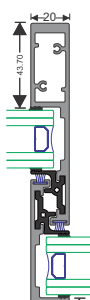
H<2400



4326 / 4328

standard

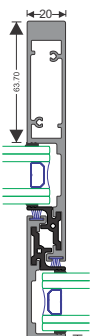
H<2400



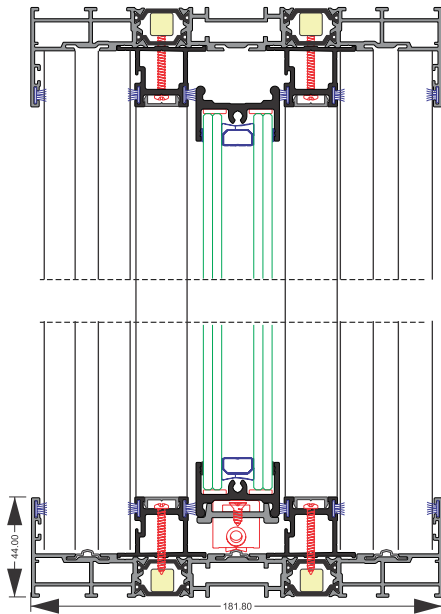
4327 / 4327

optional

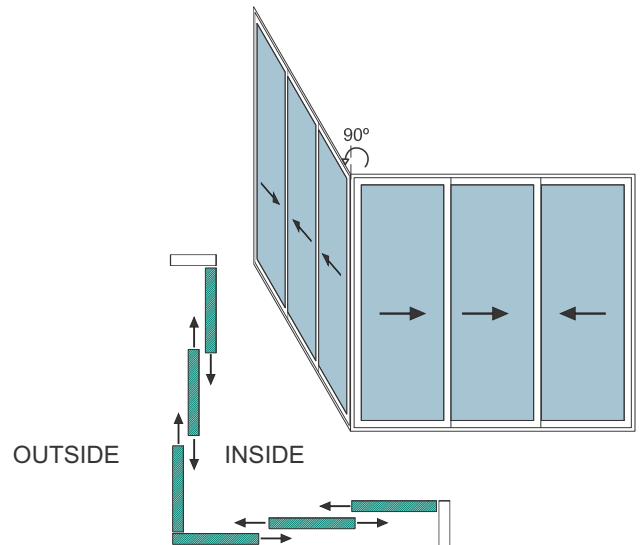
H<3000



4328 / 4328



Vertical section

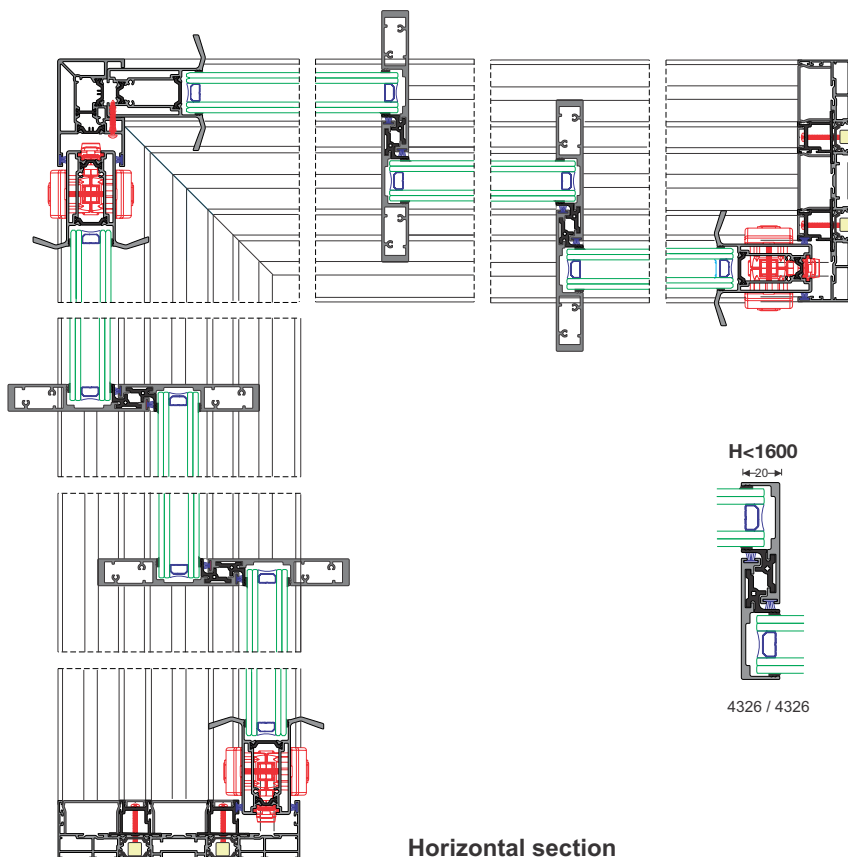


Condition: $H_{\text{sash}} / L_{\text{sash}} \leq 3$

Sash minimum width - **500 mm**
Sash minimum height - **800mm**
Sash maximum weight - **320 Kg**
Maximum sash area - **6 m²**

Nota: The glass dimension comes equal as standard.

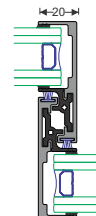
$$H_{\text{sash}} / L_{\text{sash}} \leq 3$$



Horizontal section

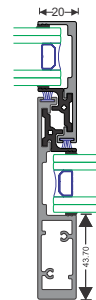
Node sections

H<1600



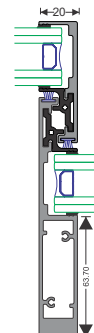
4326 / 4326

H<2100



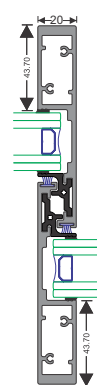
4326 / 4327

H<2400



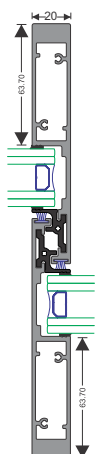
4326 / 4328
standard

H<2400



4327 / 4327
optional

H<3000



4328 / 4328

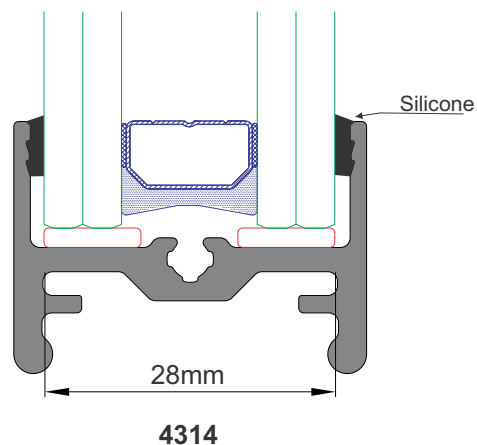
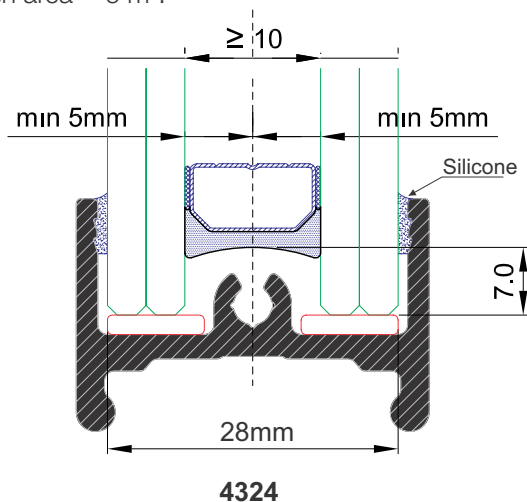
Gaskets and glazing

For the sashes, gaskets are not used.

Their sealing is done with silicone.

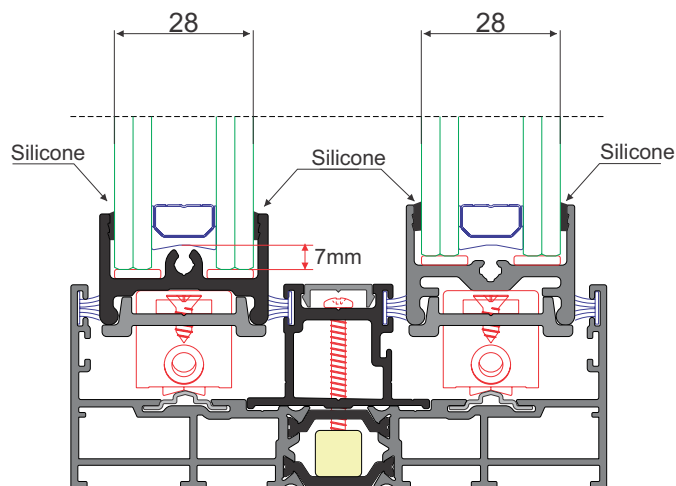
Glassing thickness – 28 mm.

Maximum sash area - 6 m².

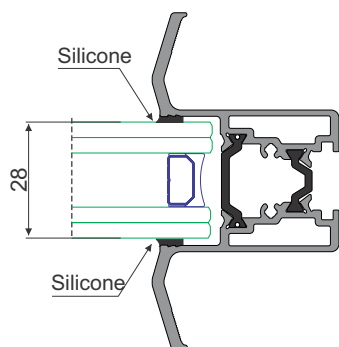


ATTENTION! In case of using the 4324 polyamide sash, a spacer of 7mm must be left on the upper and lower side from the edge of the glass to the material used for the second sealing. The spacer used cannot be less than 10mm. The polyamide sash cannot be painted.

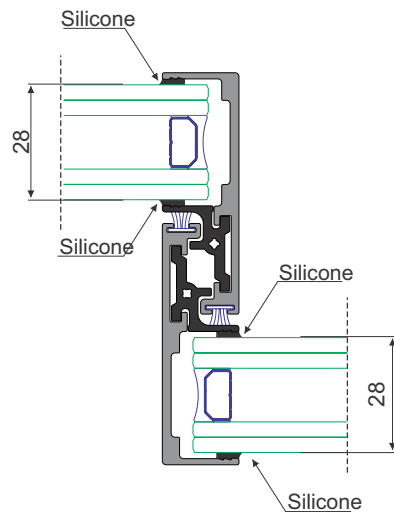
It will remain black regardless the color of the piece.



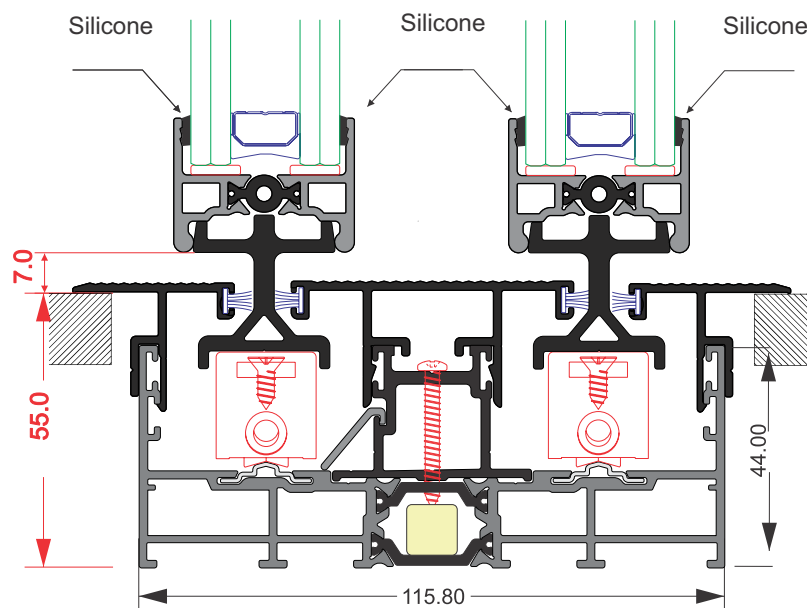
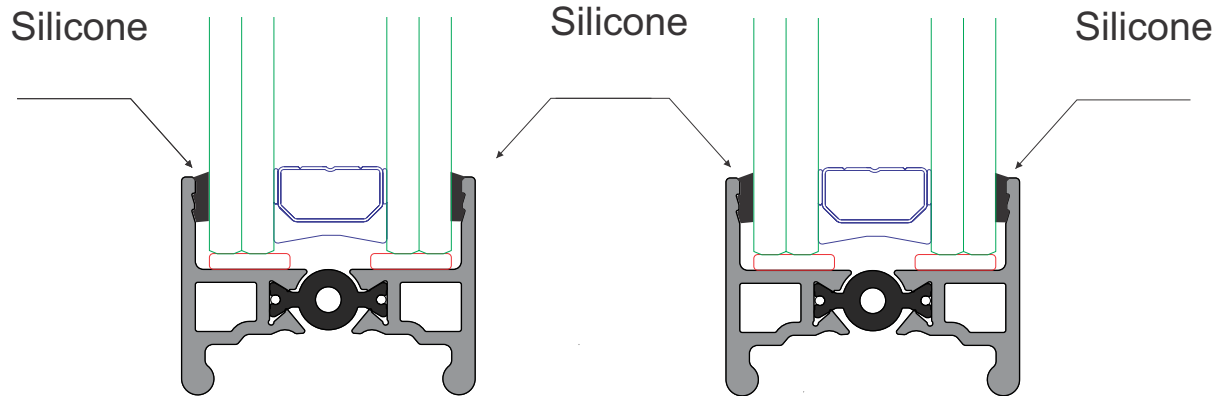
comparison of horizontal sashes



vertical sash

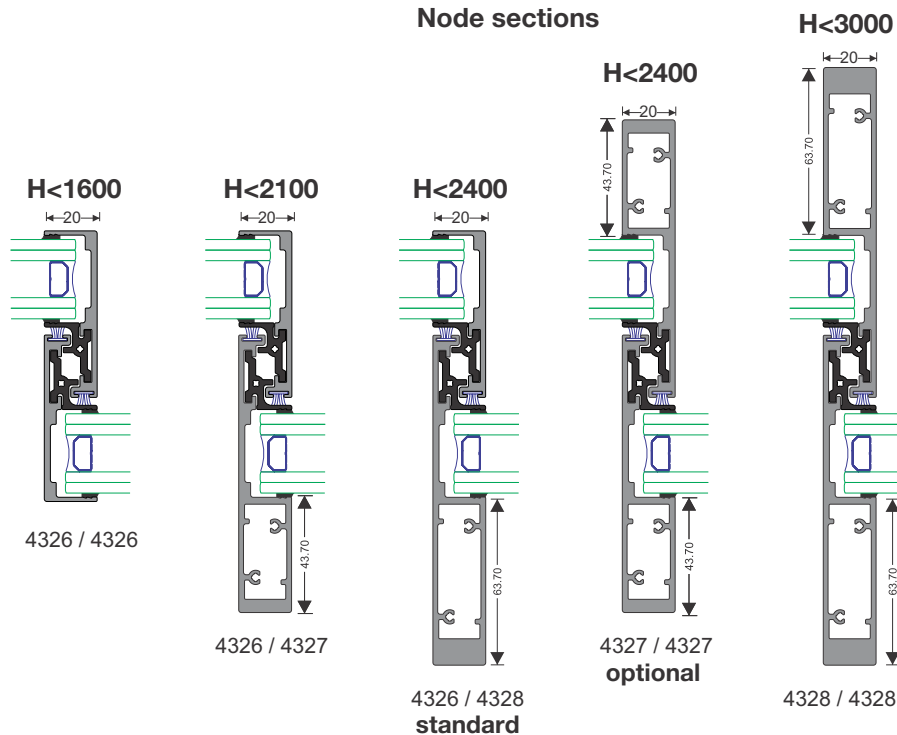


sash node



Vertical section

Node sections



Thermal insulating glass Georgian bars

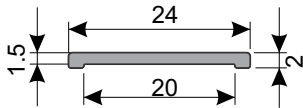
APPLIED GEORGIAN BARS

For applied Georgian bars the thermal insulation coefficient increases:

- 0,2W/m K for 2 sheets of glass;
- 0,4W/m K for 3 sheets of glass.

Caution!

- Cannot be placed on fixed mesh in the panel;
- The size of the spacer must be of **12 mm, 14 mm or 16 mm** (e.g. 24mm 4+16+4; 24mm 4+14+6; 24mm 6+12+6; etc);
- Aluminum Georgian bar is painted together with the cladding profiles only in the colors from the QFORT Aluminum color palette.
- No arched or sunrays-shaped georgian bars are made.

Georgian bar material	Dimension	Horizontal Georgian bar	Vertical Georgian bar	Available colors
ALUMINUM	24mm	775629		All colors in the QFORT Aluminum color palette

Remarks:

- The sound insulation coefficient cannot be determined;
- The number of vertical or horizontal Georgian bars should not exceed 5 units.
- The minimum distance between the Georgian bars, respectively the minimum distance between the edge of the thermal insulation package and the **first coupling point** not less than 150 mm and the maximum distance between two Georgian bars not exceeding 1000 mm. **If the Georgian bar does not intersect with other Georgian bars and there are no coupling points, its maximum length shall not exceed 1000 mm.**

Handles

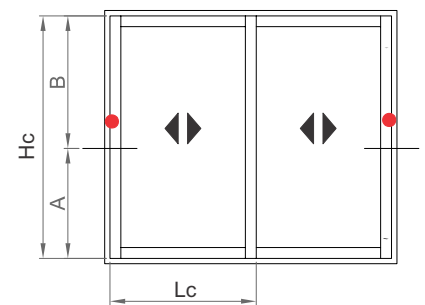
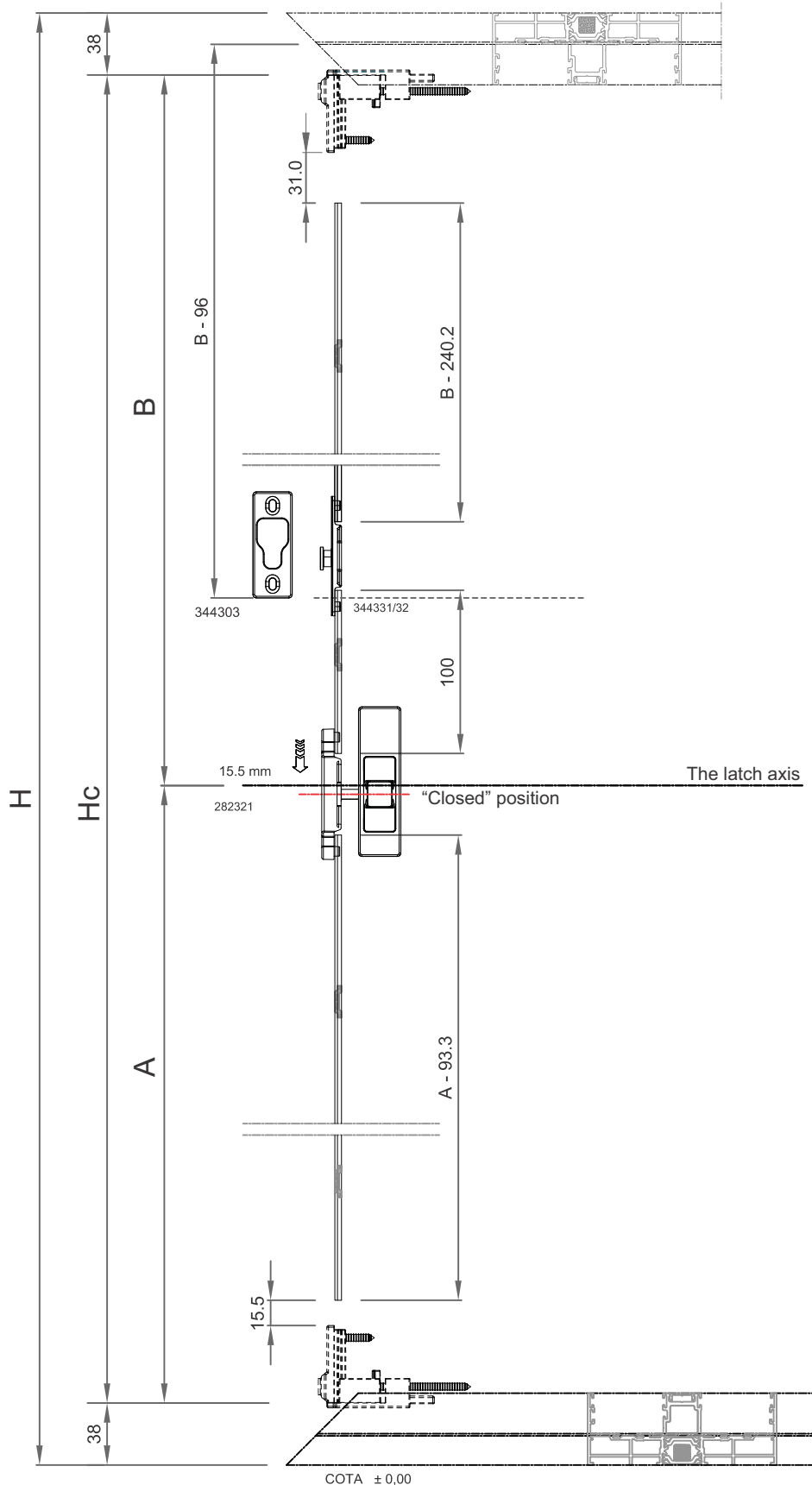
Handle name	Available colours	Observations
Double handle with cylinder 	Silver Anthracite grey White Black	It can be installed only on the sash 4323 Silver - 344320 + 344320 Anthracite grey - 344316 + 344316 White - 344311 + 344311 Black - 344312 + 344311
Double handle with semi-cylinder 	Silver Anthracite grey White Black	It can be installed only on the sash 4323 Silver - 354320 + 344320 Anthracite grey - 354316 + 344316 White - 354311 + 344311 Black - 354312 + 344311
Interior handle with semi-cylinder 	Silver Anthracite grey White Black	It can be installed only on the sash 4323 Silver - 344320 Anthracite grey - 344316 White - 344311 Black - 344312

Handles

Handle name	Available colours	Observations
Interior handle without cylinder 	Silver Anthracite grey White Black	It can be installed only on the sash 4323 Silver - 354320 Anthracite grey - 354316 White - 354311 Black - 354312
Interior handle latch type 	Silver Anthracite grey White Black	It can be installed only on the sash 4320 Silver - 344340 Anthracite grey - 344336 White - 344331 Black - 344332
Closing handle on central node 	Silver Anthracite grey White Black	It can be installed only on the sash 4378 Silver - 394016 Anthracite grey - 394017 White - 394011 Black - 394012

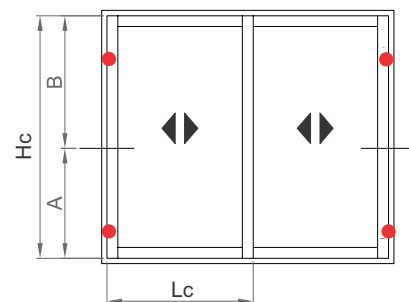
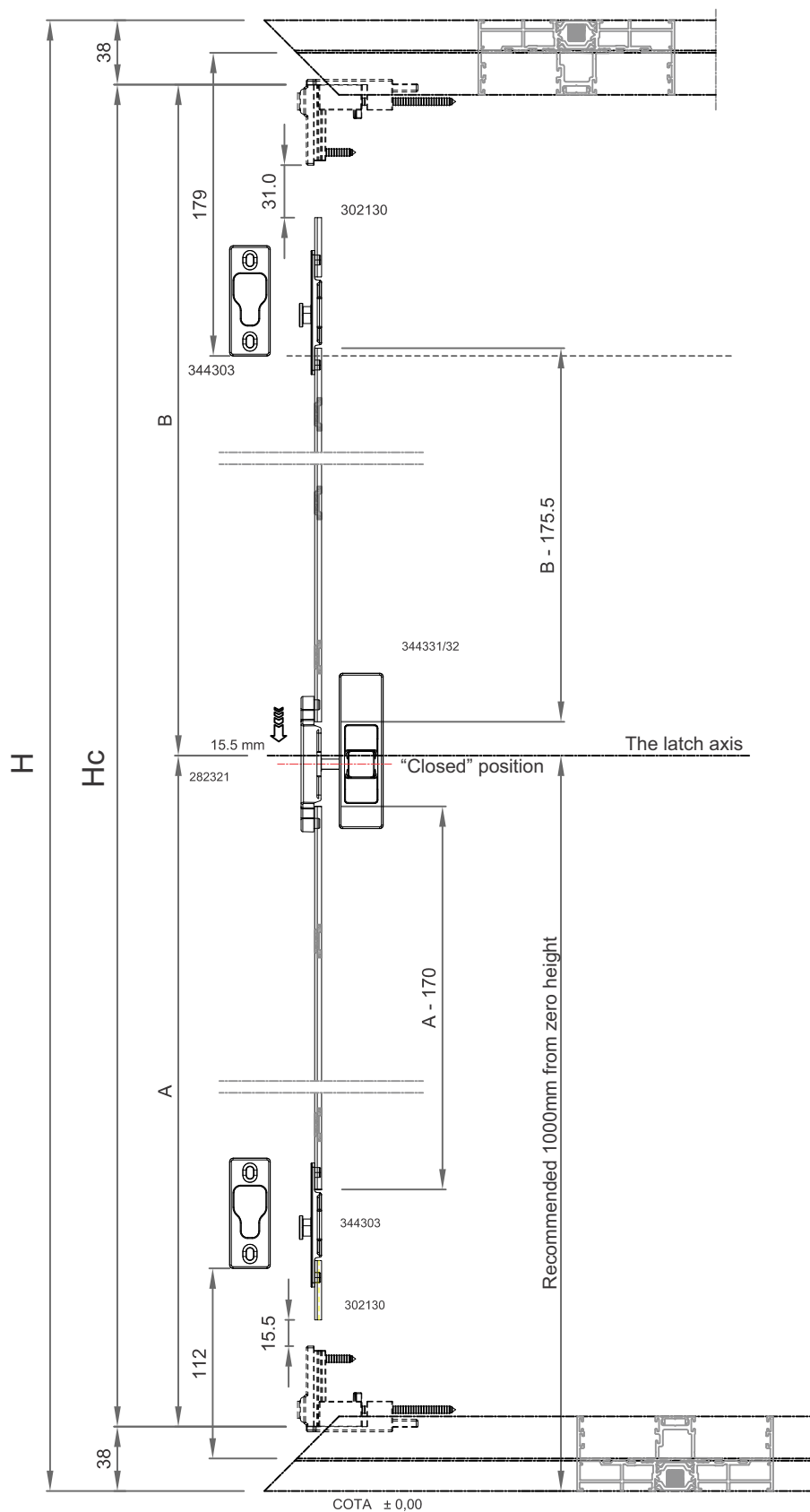
Hardware

Hardware with monopoint closure - Heights under 1000mm (sash 4320)



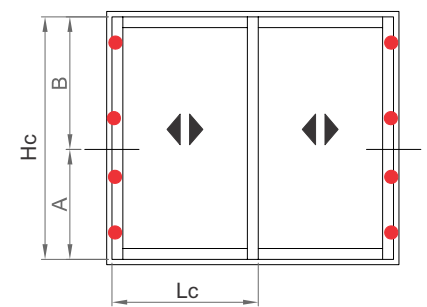
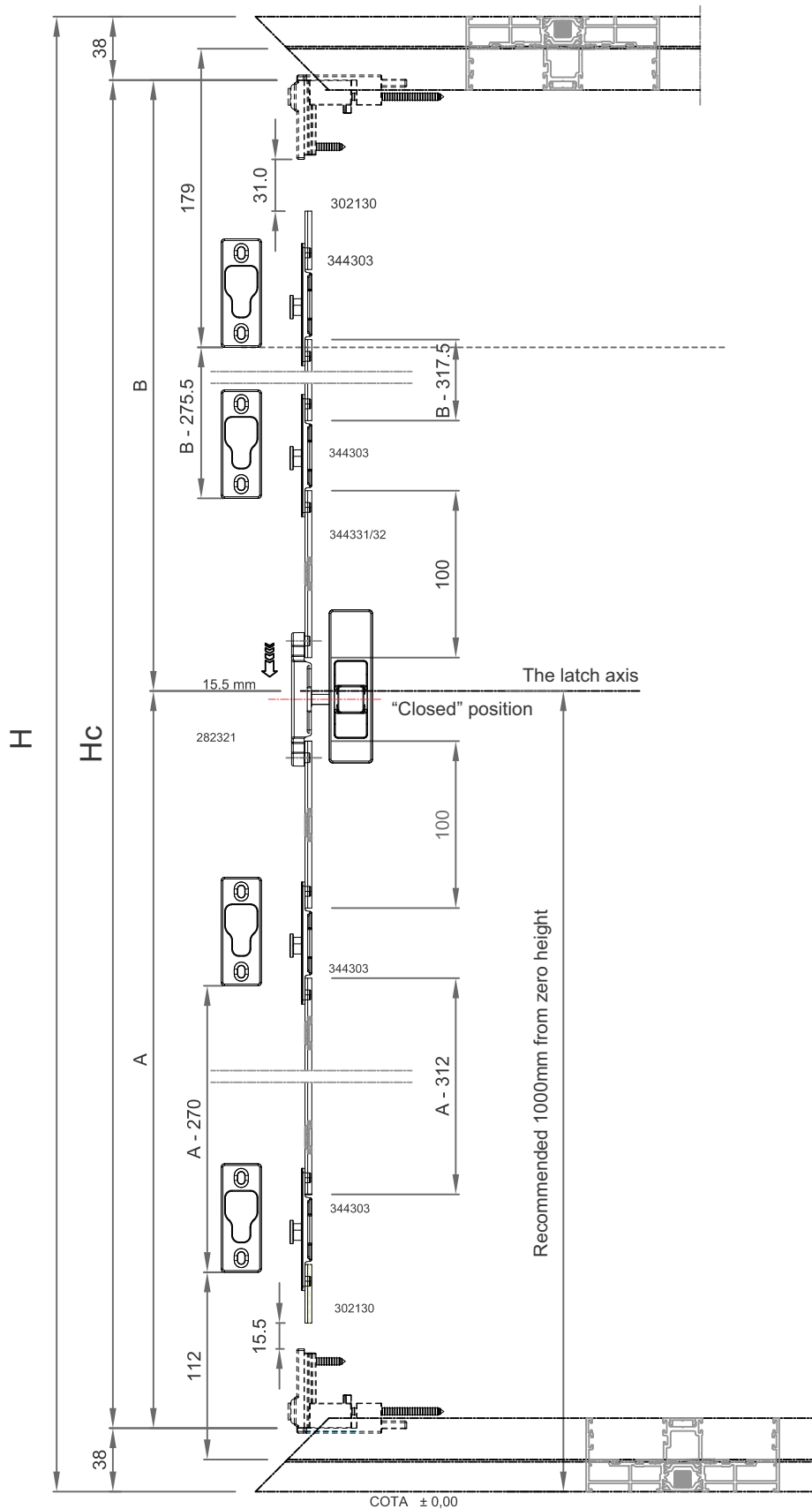
Lc = Sash width
Hc = Sash height
A = Height till the latch axis
B = Height from the latch axis

Hardware with 2 locking-points – heights between 1001mm and 1800mm (sash 4320)



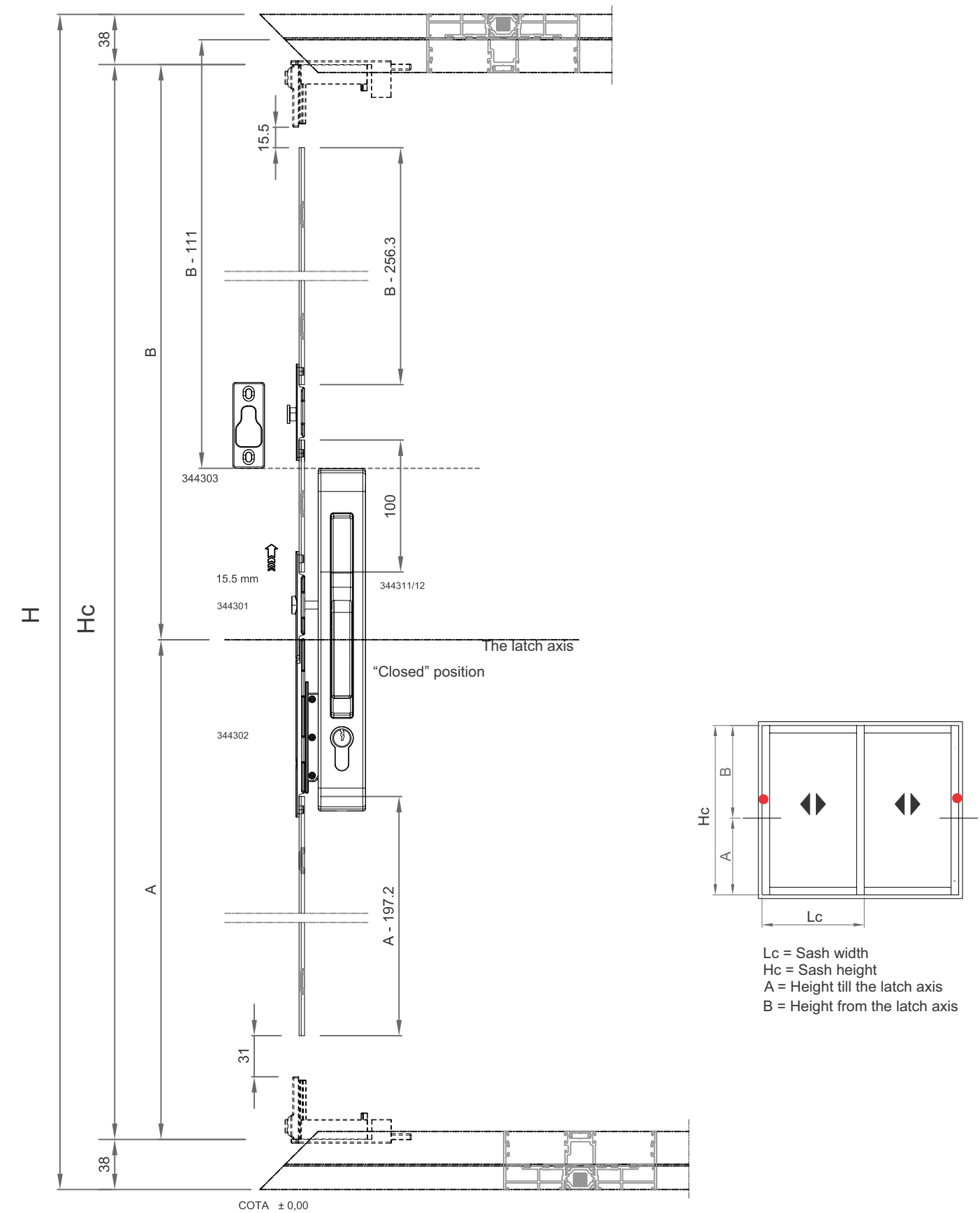
L_c = Sash width
 H_c = Sash height
 A = Height till the latch axis
 B = Height from the latch axis

Hardware with 4 locking-points – heights between 1801mm and 3000mm (sash 4320)

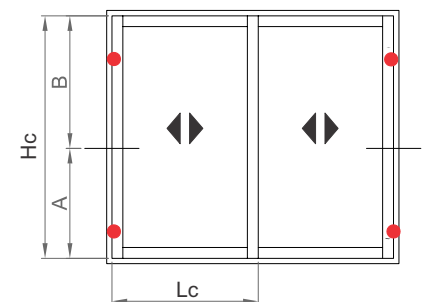
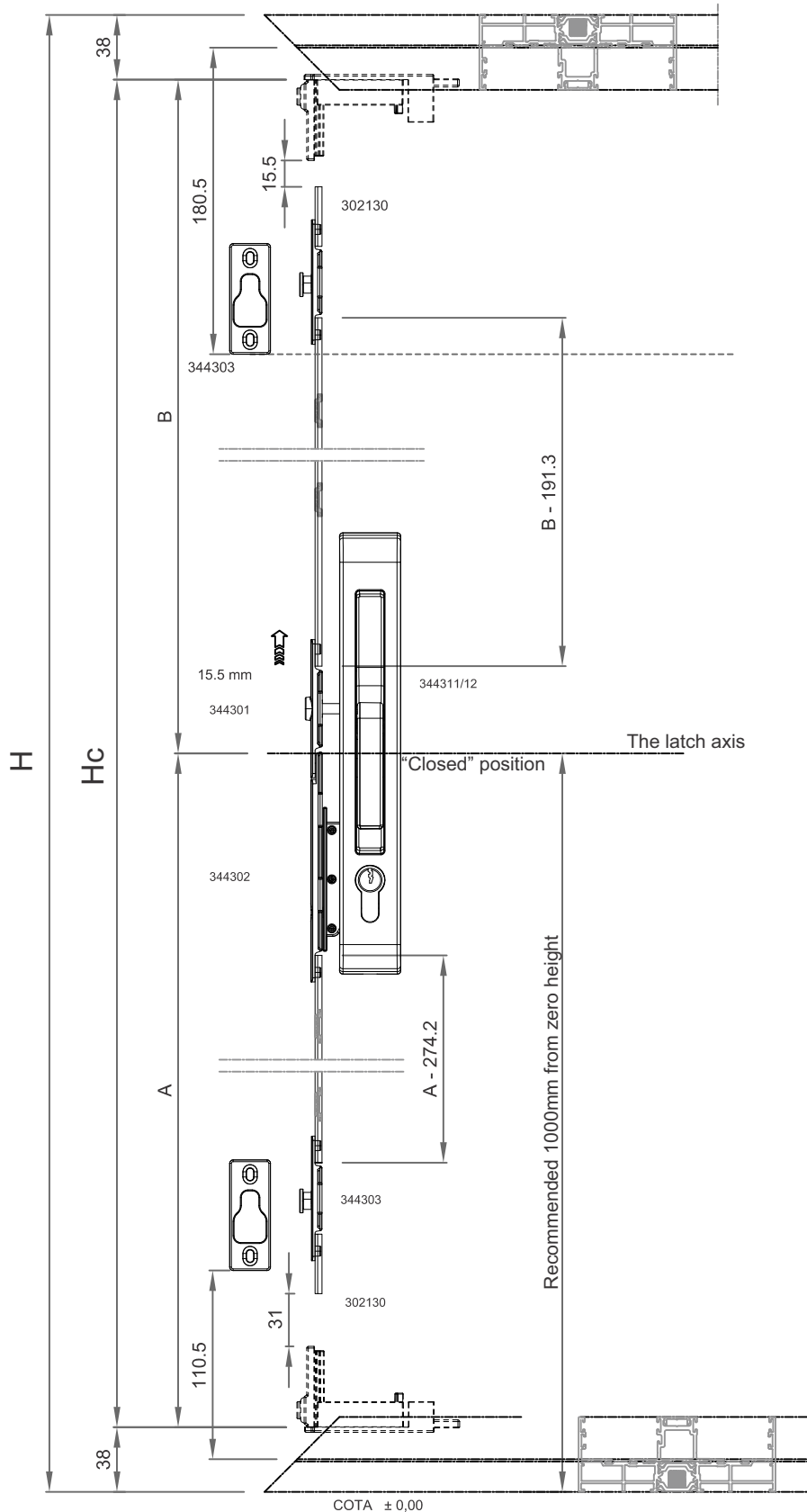


Lc = Sash width
Hc = Sash height
A = Height till the latch axis
B = Height from the latch axis

Hardware with monopoint closure - Heights under 1000mm (sash 4323)

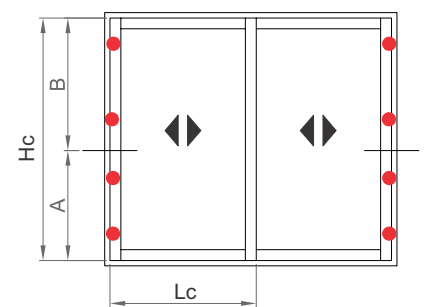
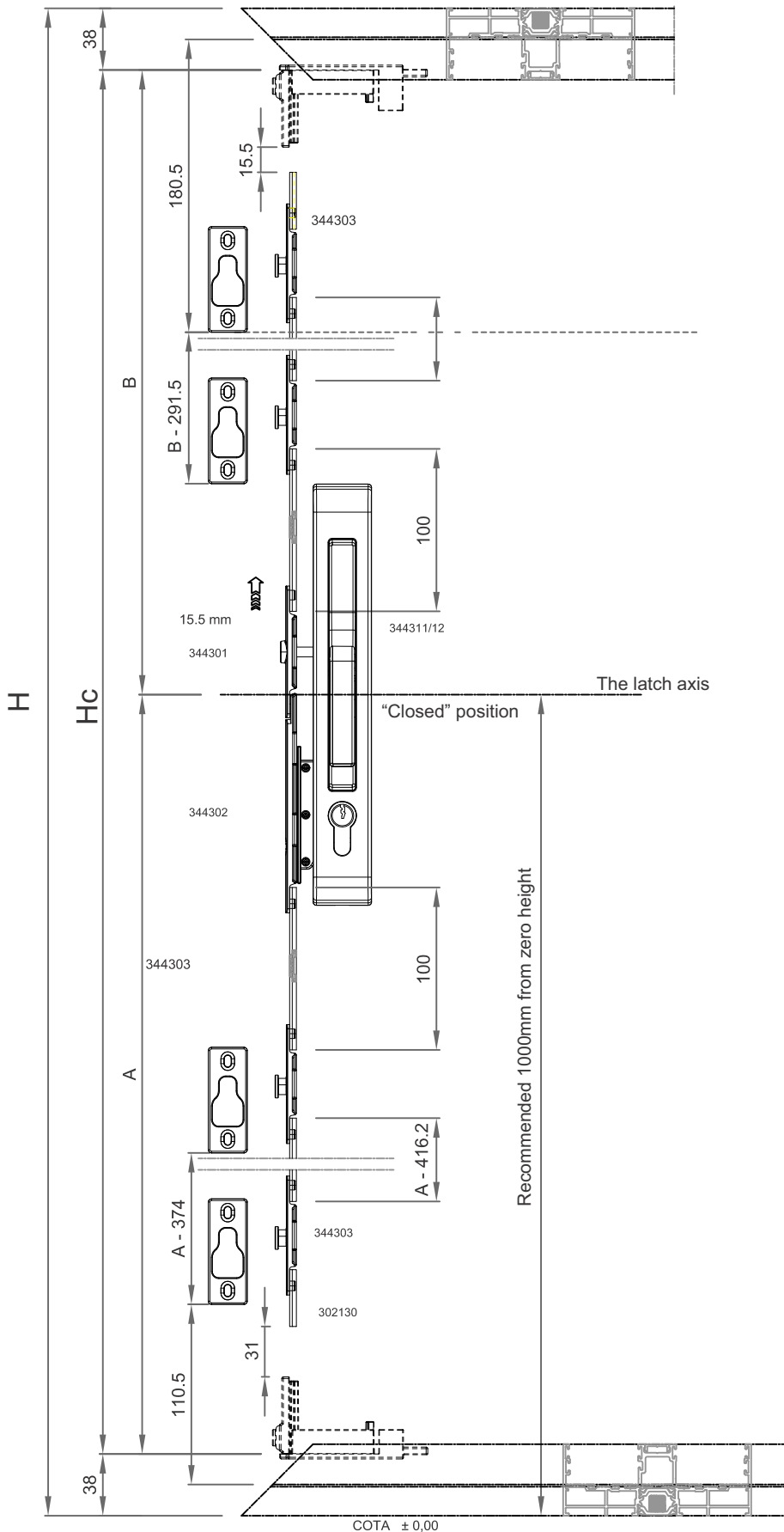


Hardware with 2 locking-points – heights between 1001mm and 1800mm (sash 4323)



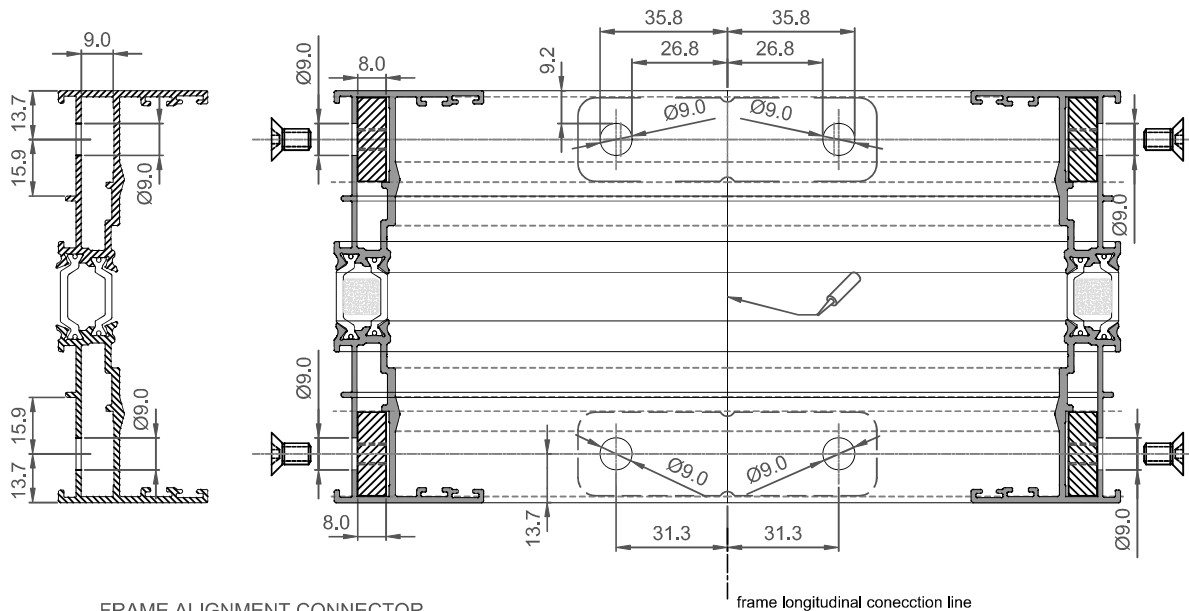
Lc = Sash width
Hc = Sash height
A = Height till the latch axis
B = Height from the latch axis

Hardware with 4 locking-points – heights between 1801mm and 3000mm (sash 4323)

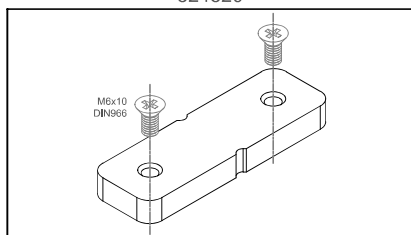


Lc = Sash width
Hc = Sash height
A = Height till the latch axis
B = Height from the latch axis

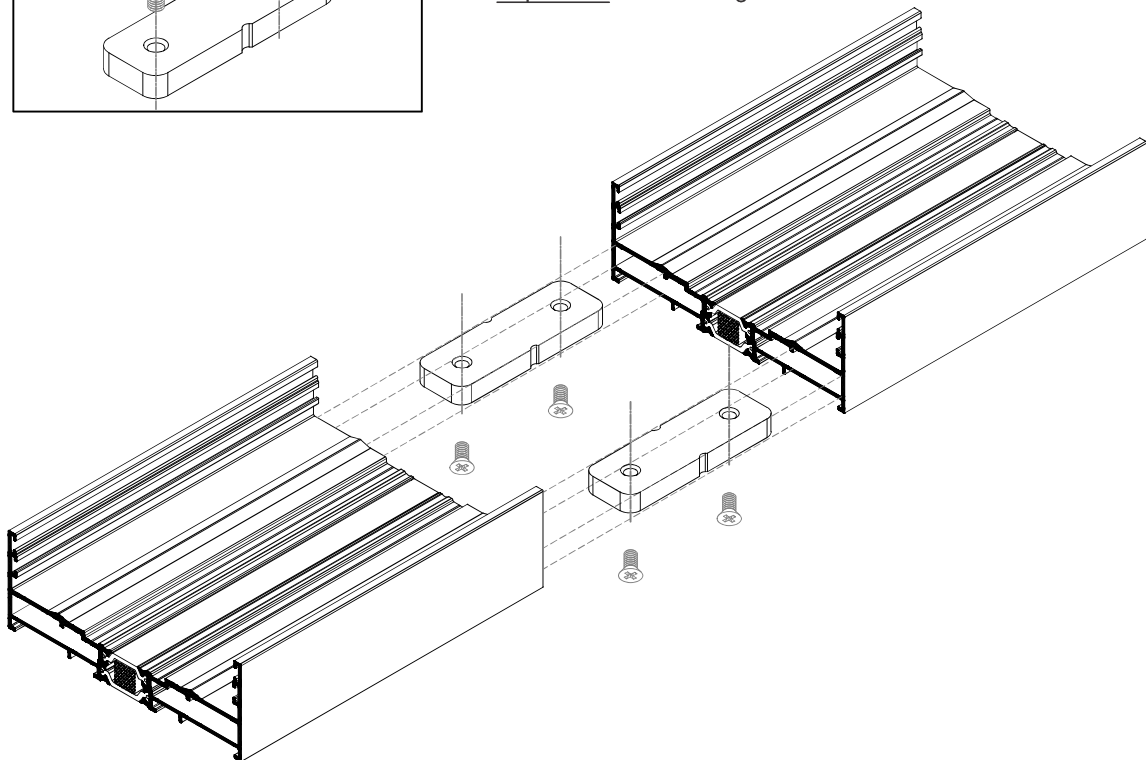
Longitudinal alignment vision frame



FRAME ALIGNMENT CONNECTOR
324320



Acrylic sealing is needed along the joint
Important: The bearing area must be left clear



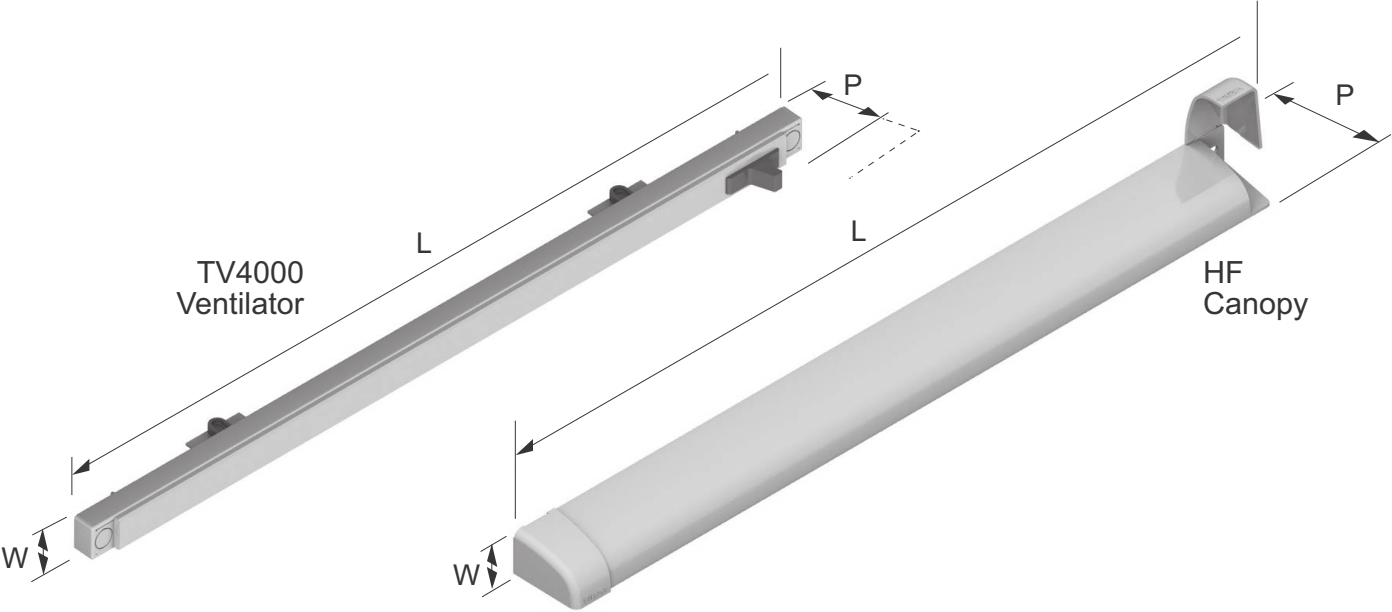
*For horizontal profiles exceeding 6000 mm in length, a connection ratio of 60:40 is required for structural stability. This requirement also applies to the drainage gutter, if required.

Trickle vents - Trimvent 4000

Trimvent 4000 Hi Lift is an aluminium slot ventilator that fits over a 13mm slot in a window and provides an Equivalent Area (EA) of up to 4000mm² when fitted with the Hi Flow canopy.

The TV4000 Hi Lift is ideal for both new build or refurbished situations using any window material.

It has been specifically developed for recent revisions to Part F of the Building Regulations for Ventilation (England & Wales), is optimised for use with the Scottish Technical Standards and to improve performance for requirements throughout the UK and Europe.



Features and Benefits

- Revised design to improve performance and Regulations compliance
- Compression closing action
- For use on 13mm slot
- Based on successful Trimvent® principle
- T-bar deflects air up and down
- Unique linkages ensure constant friction and smooth action
- Vent supplied with screw covers, canopy features integral screw covers
- Felted gasket for increased performance

L- Length
W - Width
P - Projection (closed-open)

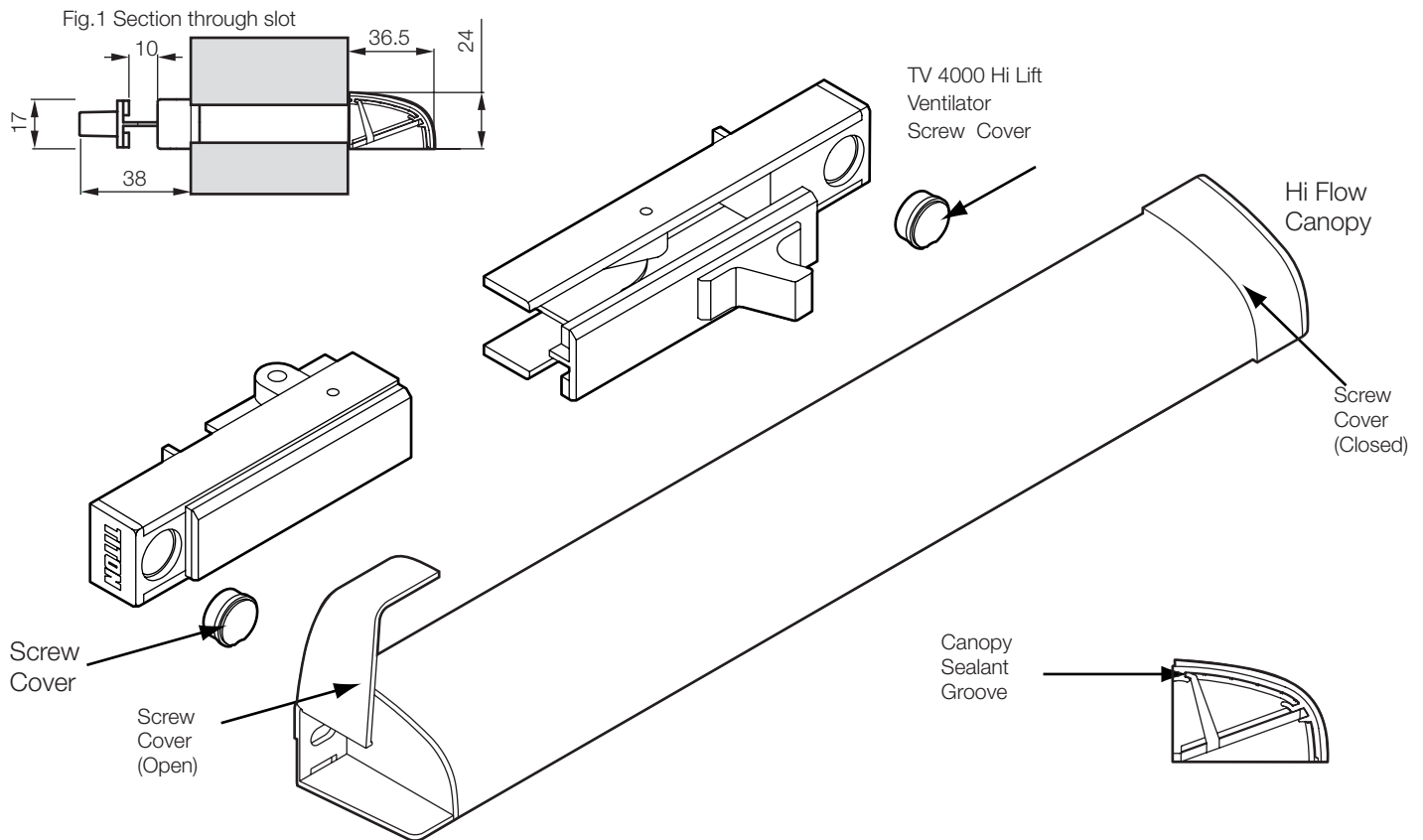
2200EA Vents

KIT CODE	CODE	DESCRIPTION	COLOR	(L)	(W)	(P)
TV22009016	TA4042/618	TV4000HL 2200EA Vent 255mm / RAL9016 Matt Traffic White	RAL 9016	255	17	28-38
	TA6053/618	HF263 Canopy / RAL9016 Matt Traffic White	RAL 9016	263	24	36.5
TV22009005	TA4042/123	TV4000HL 2200EA Vent 255mm / RAL9005 Matt Deep Black	RAL 9005	255	17	28-38
	TA6053/123	HF263 Canopy / RAL9005 Matt Deep Black	RAL 9005	263	24	36.5
TV22007016	TA4042/142	TV4000HL 2200EA Vent 255mm / RAL7016 Matt Anthracite Grey	RAL 7016	255	17	28-38
	TA6053/142	HF263 Canopy / RAL7016 Matt Anthracite Grey	RAL 7016	263	24	36.5

4000EA Vents

KIT CODE	CODE	DESCRIPTION	COLOR	(L)	(W)	(P)
TV40009016	TA4041/618	TV4000HL 4000EA Vent 400mm / RAL9016 Matt Traffic White	RAL 9016	400	17	28-38
	TA6054/618	HF441 Canopy / RAL9016 Matt Traffic White	RAL 9016	441	24	36.5
TV40009005	TA4041/123	TV4000HL 4000EA Vent 400mm /RAL9005 Matt Deep Black	RAL 9005	400	17	28-38
	TA6054/123	HF441 Canopy /RAL9005 Matt Deep Black	RAL 9005	441	24	36.5
TV40007016	TA4041/142	TV4000HL 4000EA Vent 400mm / RAL7016 Matt Anthracite Grey	RAL 7016	400	17	28-38
	TA6054/142	HF441 Canopy / RAL7016 Matt Anthracite Grey	RAL 7016	441	24	36.5

Fixing Instructions



N.B. Any significant variation of the applications shown will affect the EA performance of the product combination.

1. Prepare slots (see table below for dimensions) and pre-drill fixing holes, avoiding glazing rebates.
2. Fix vent using screws and attach screw covers.
3. To fix canopy open Screw Covers on end caps by unclipping flap and hinging outwards.
4. Screw to section, snap close screw covers.
DO NOT OVER TIGHTEN SCREWS!

Recommended screws:

Vent & Canopy: 3.5mm (No.6) Pan head or equivalent.

We recommend use of silicone sealant along the canopy sealant groove.

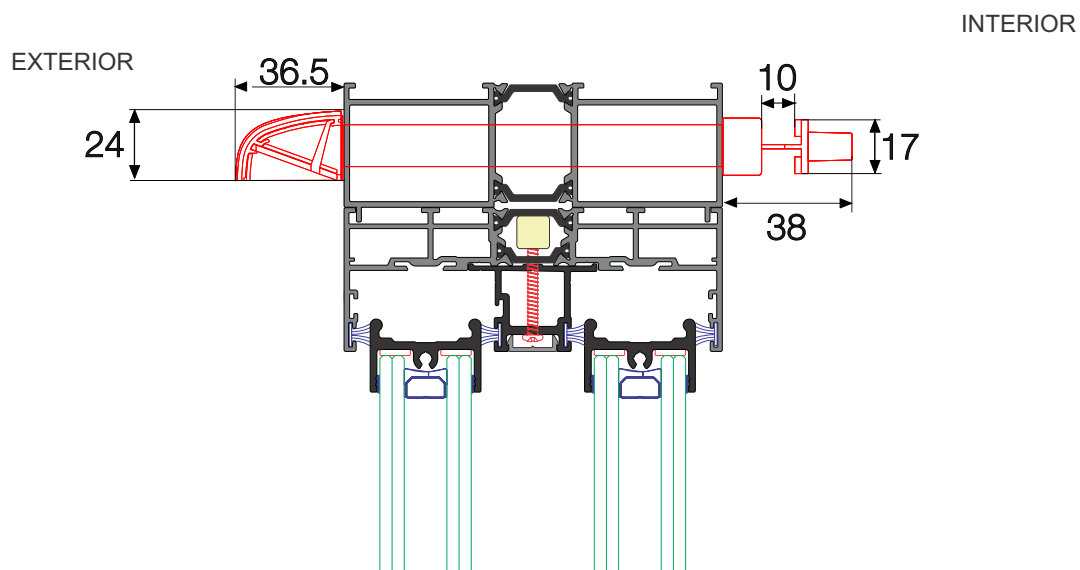
TV4000 Hi Lift Range	Equivalent Area (EA) mm ²	Free Area mm ²	Length	Width	Projection closed / open	Fixing Centres (A)	Slot Detail & Dimensions
TV 4000HL 2200EA 255 Vent	2200	2169	255	17	28 / 38	242	
HF 263 Canopy		3807	263	24	36.5	244	
TV 4000HL 4000EA 400 Vent	4000	3989	400	17	28 / 38	387	
HF 441 Canopy		6780	441	24	36.5	422	

All dimensions in mm unless otherwise stated

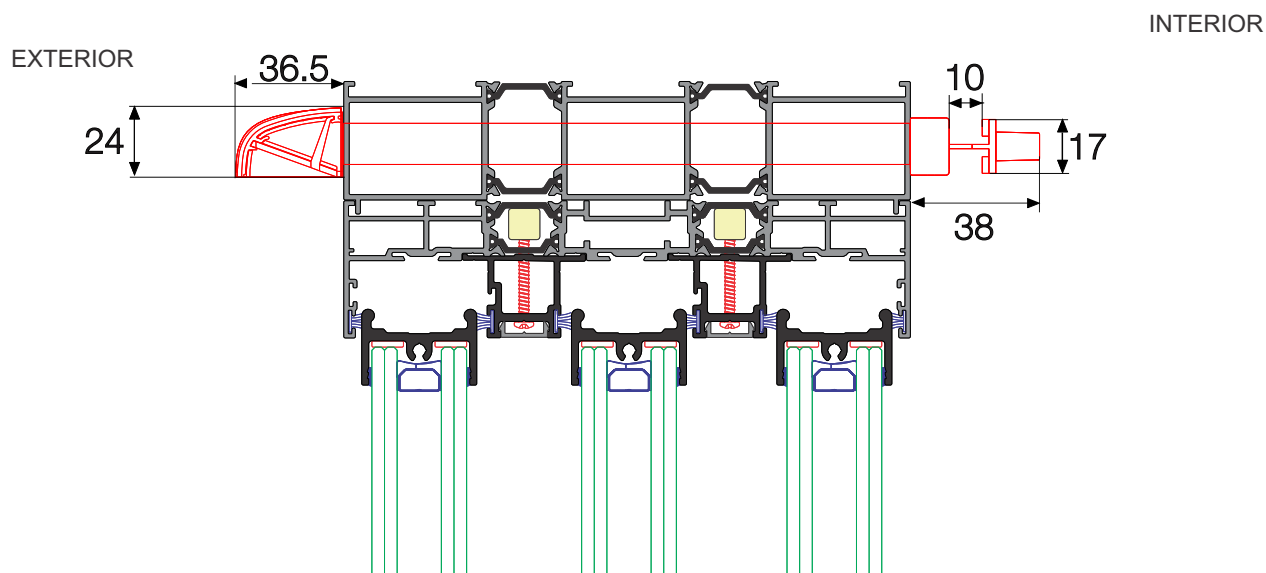
EA = Equivalent Area Tested in accordance with BS:EN 13141-1 (2004)

Any significant variation in application from BS:EN 13141-1 (2004) shown in Fig.1 will affect the EA performance of the product combination.

Extension profiles - 4397 Frame - 4389 Titon ventilation grill



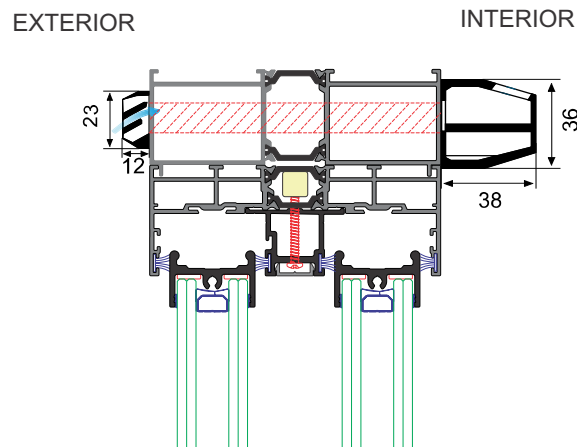
Extension profiles - 4398 Frame - 4391 Titon ventilation grill



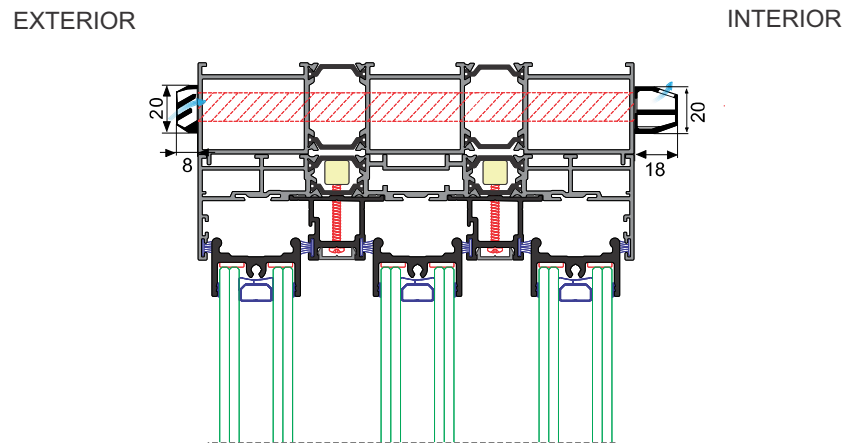
NOTE: The ventilation grills can only be mounted on the additional profiles 4397 and 4398

Frame extension sections

Extension profiles - 4397 Frame - 4389 ANJOS ventilation grill



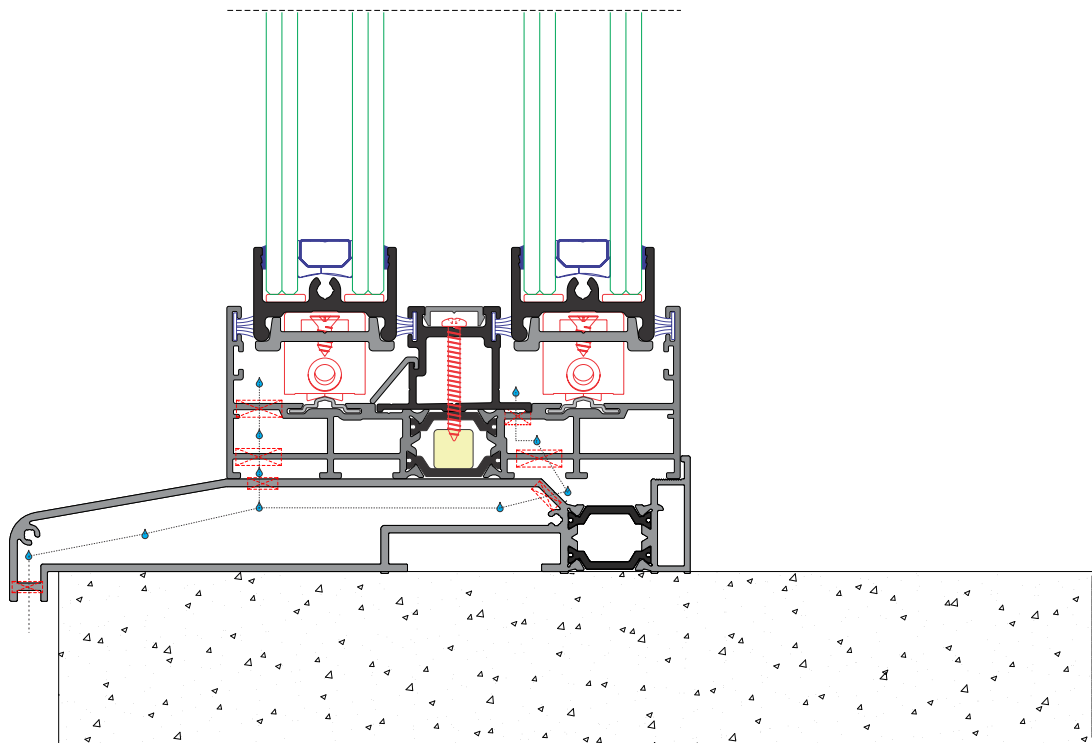
Extension profiles - 4398 Frame - 4391 ANJOS mini ventilation grill



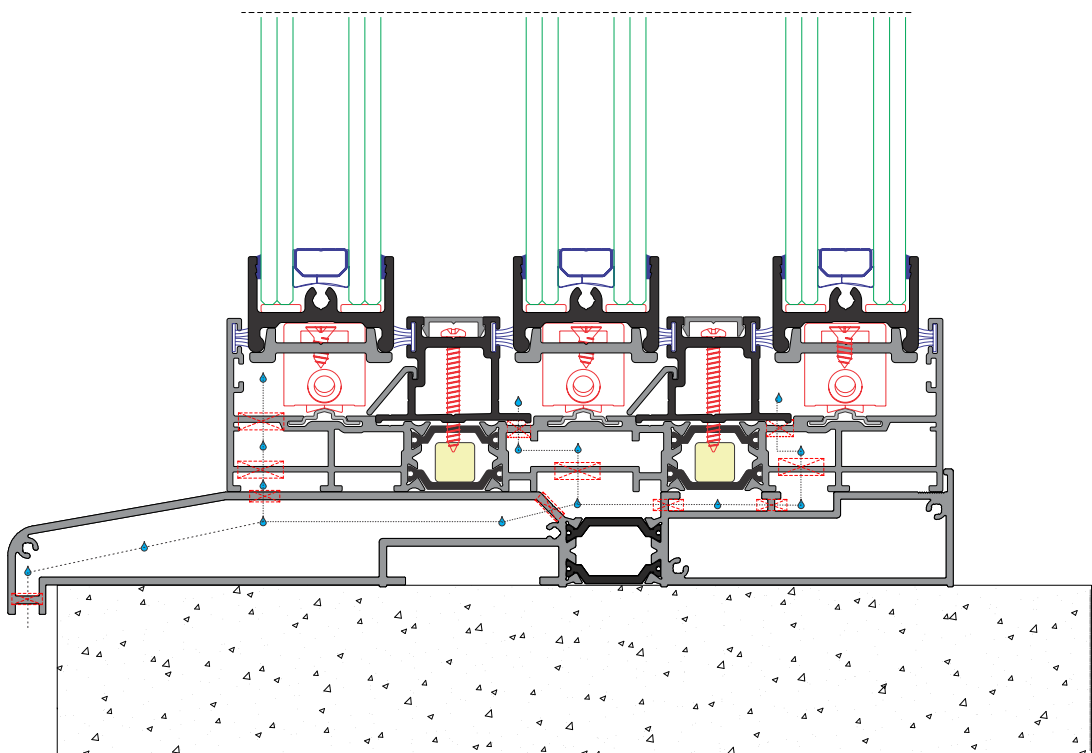
1	ANJOS Self-regulating ventilation grids. Sound insulation 37Db.				500mm
2	ANJOS Self-regulating ventilation grids. Sound insulation 33Db.				500mm
3	Mini ANJOS Self-regulating ventilation grids. Sound insulation 37Db				400mm
4	Mini ANJOS Self-regulating ventilation grids. Sound insulation 33Db				400mm

Sills and drain holes sections

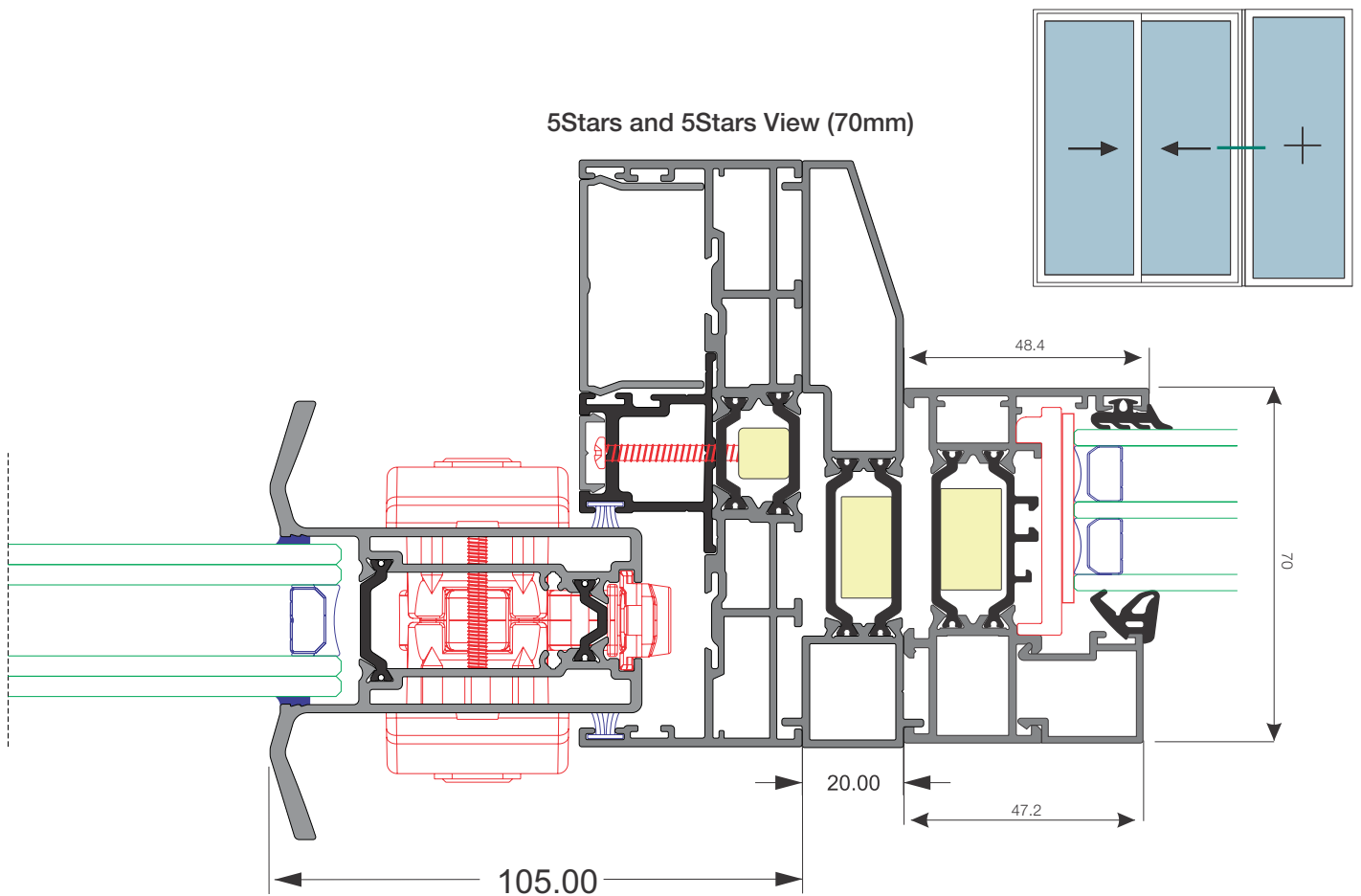
Sill - 3837 Frame - 4389 (2 rails)



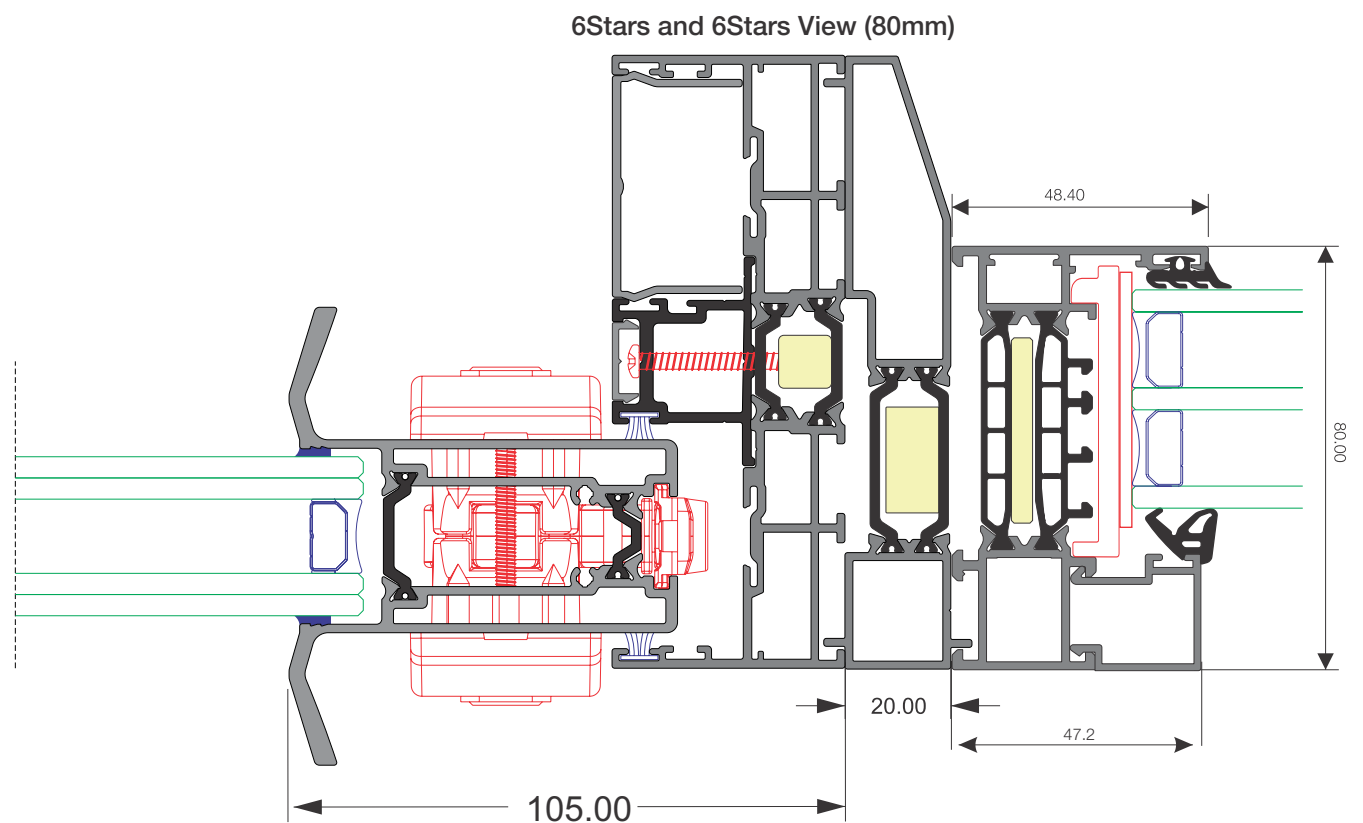
Sill - 4792 Frame - 4391 (3 rails)



Coupling with a fixed frame



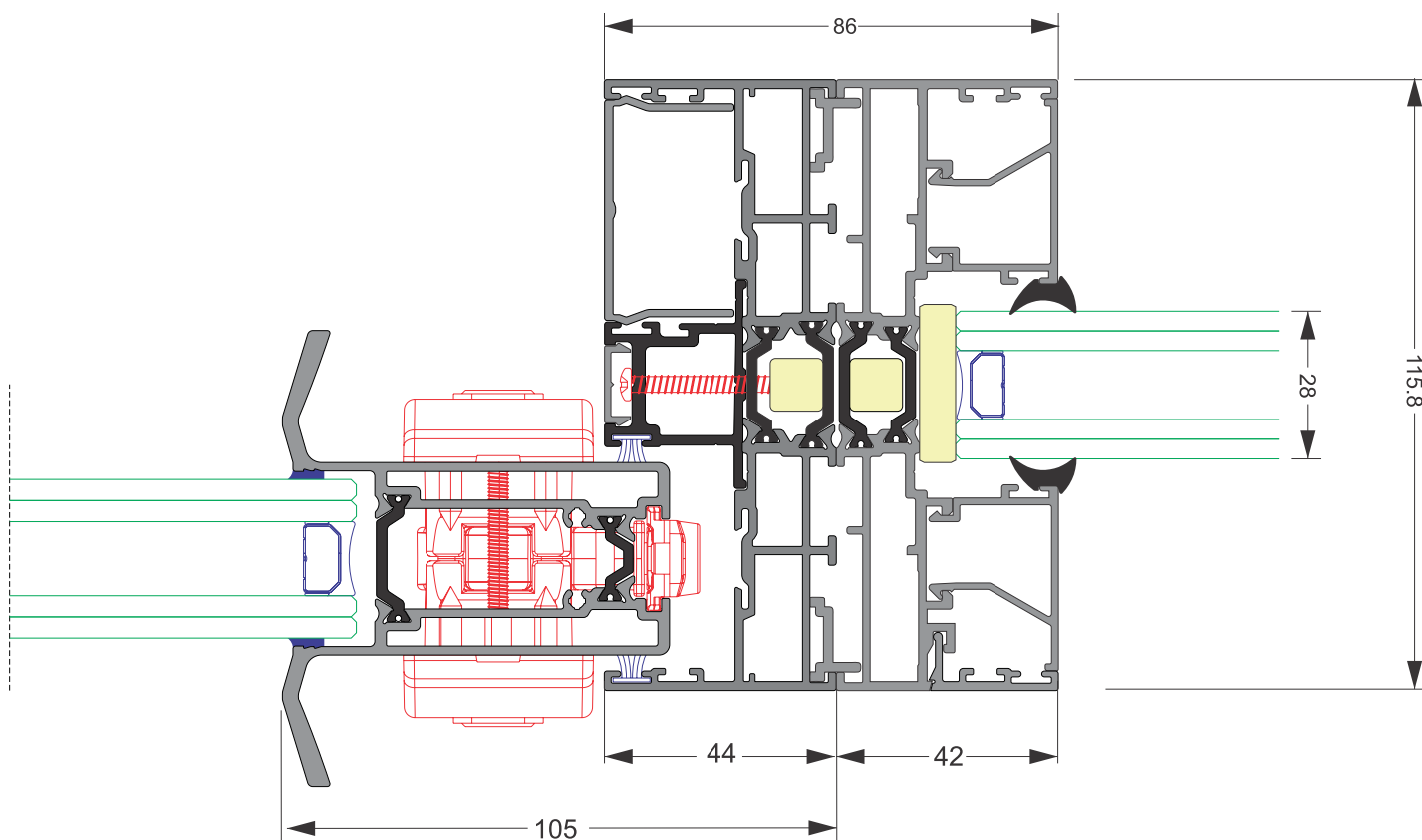
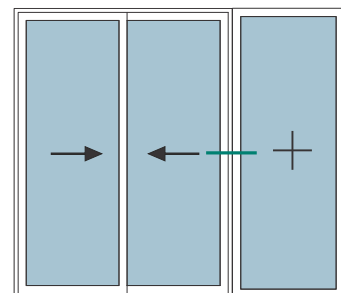
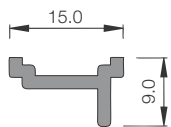
4352 - Coupling adapter for fixed frames



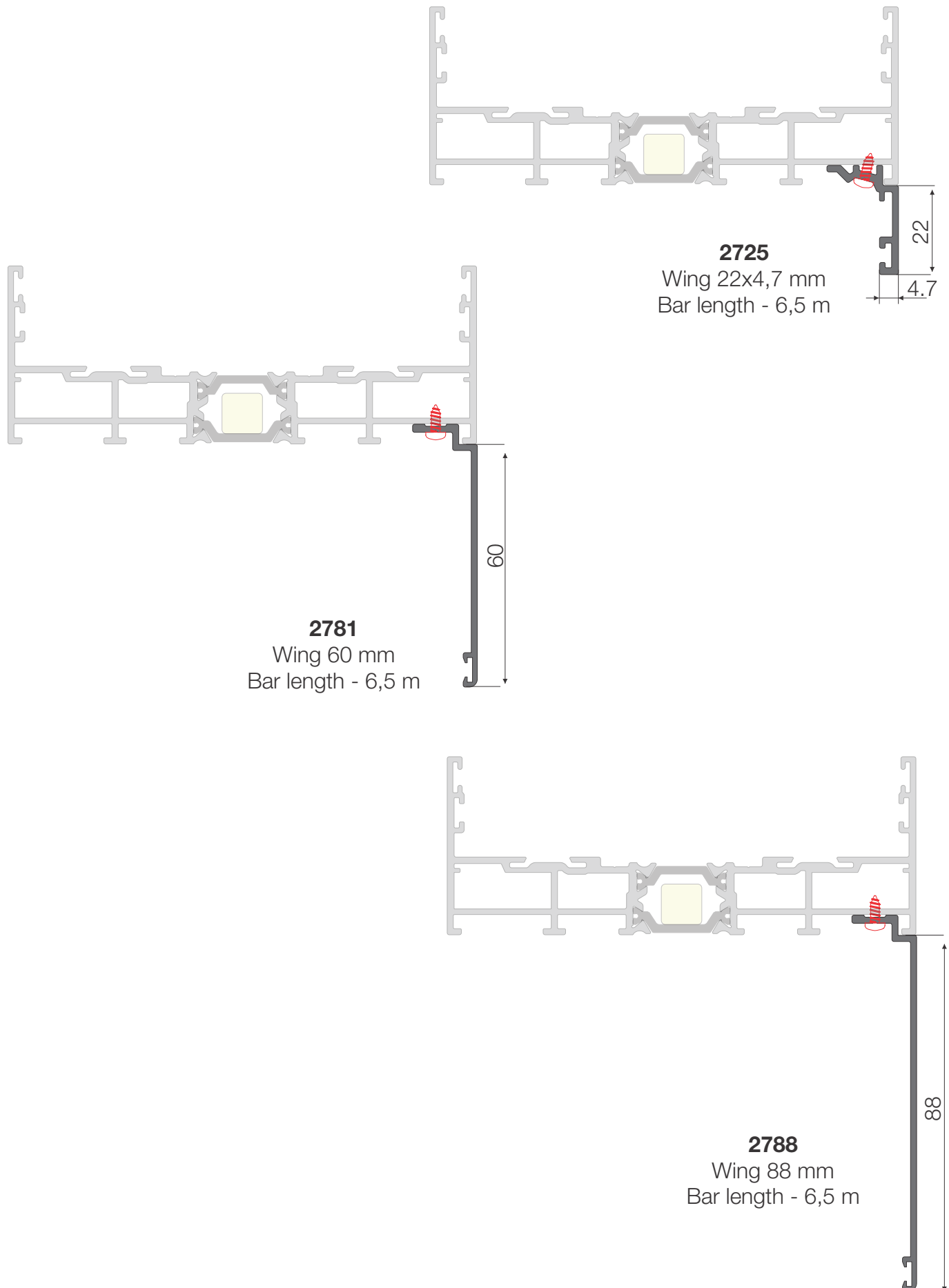
4352 - Coupling adapter for fixed frames

Coupling with a fixed frame

Coupling in "0", 180° - 7251

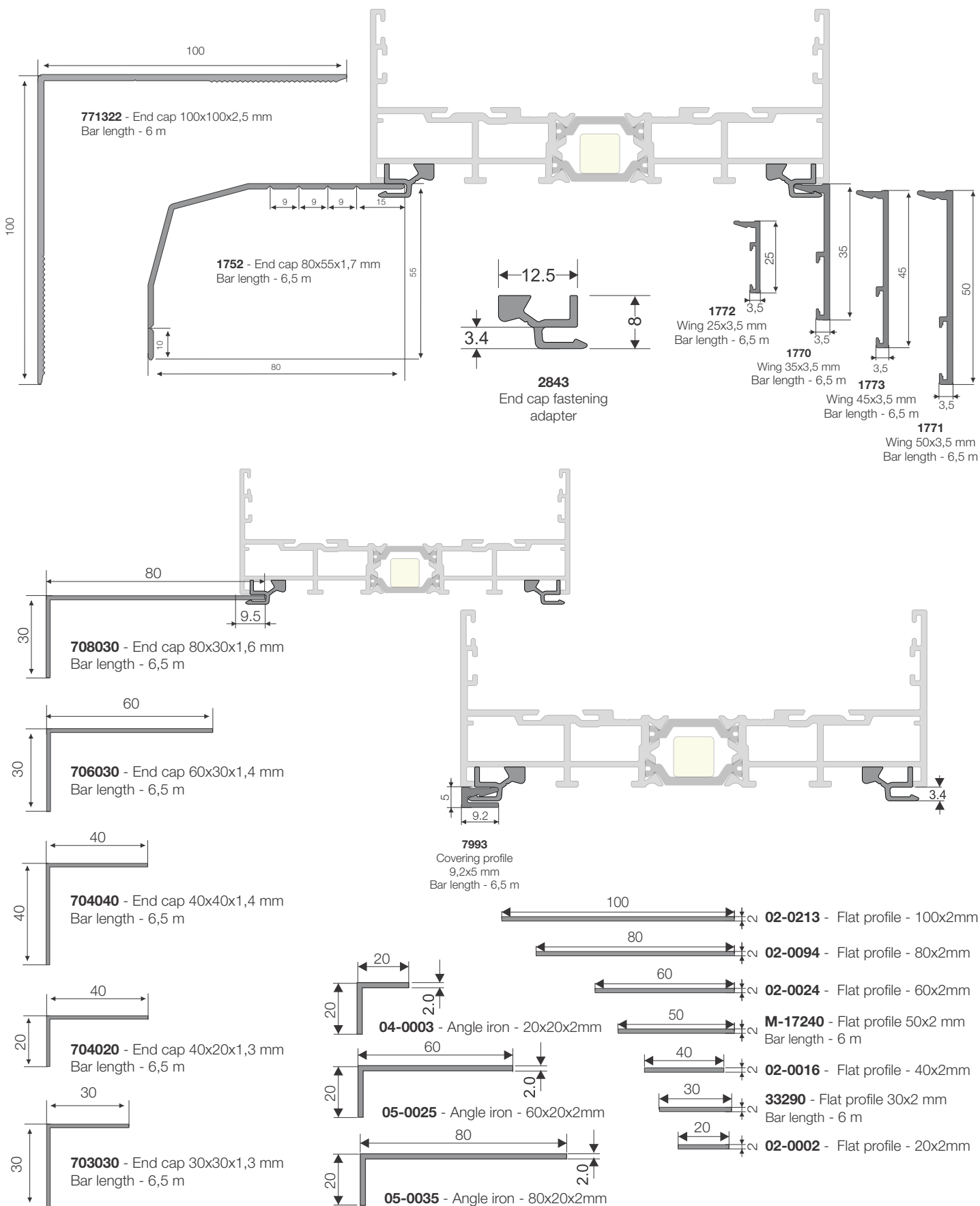


Covering profiles



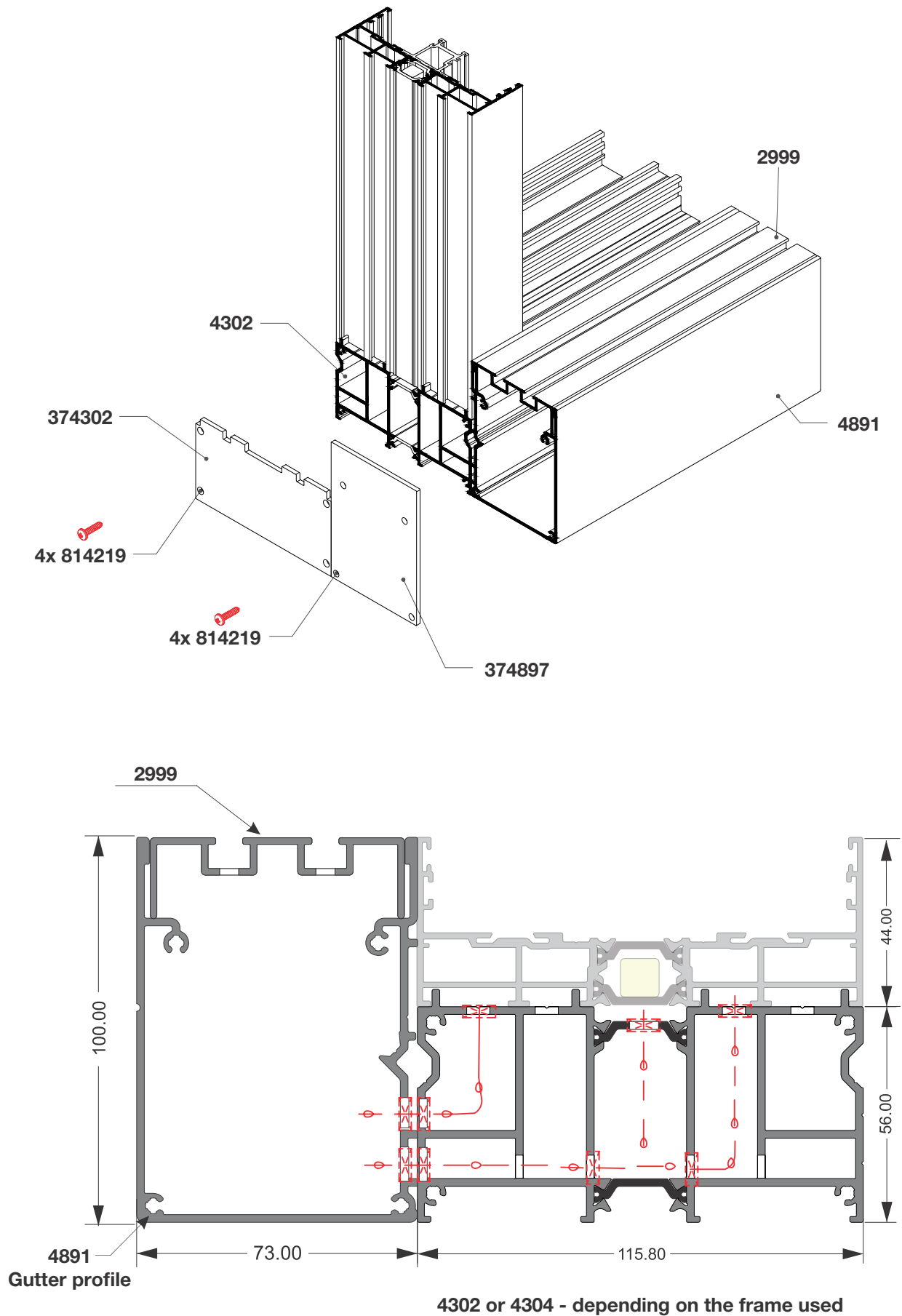
Covering profiles

For renovation frames



Additional profiles

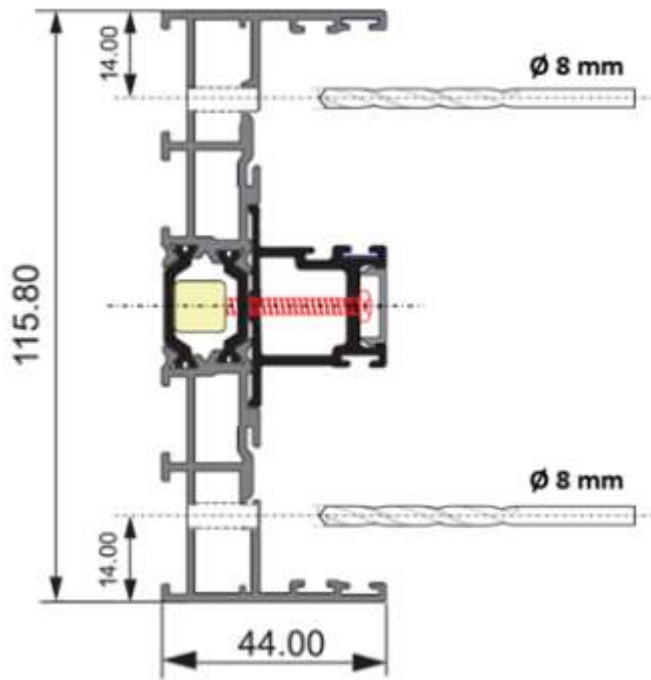
Gutter for collecting water



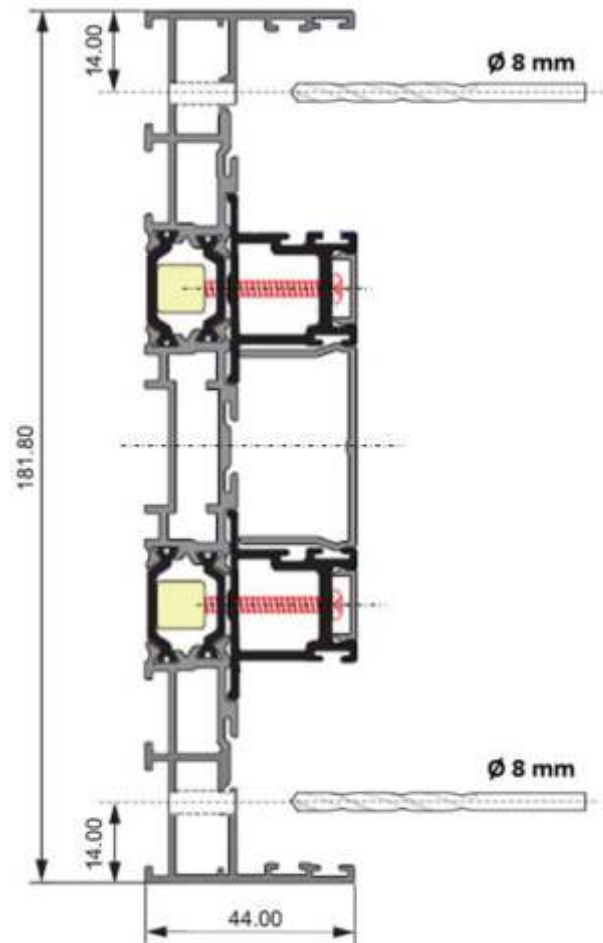
Installation instructions

For installation with installation screws there must be made holes both in the interior semi-profile as well as in the exterior one. The diameter of the hole for the installation screw is $\varnothing 8$ mm and it takes into account the fact that the used installation screws used have a diameter of $\varnothing 7,5$ mm.

The position of the hole axis in the profile is at 14mm from the edge of the profile, as it can be seen in the sketch down below:



Frame 2 rails - 4389



Frame 3 rails - 4391



