TECHNOWIN

UPVC WINDOWS AND DOORS SYSTEMS

TECHNICAL CATALOG

☐ TW 630

☐ TW 250

GENERAL INFORMATION

TECHNICAL SPECIFICATIONS OF PROFILES

REINFORCEMENT PROFILES

ASSEMBLY OF PROFILES

ACCESSORIES

Edited 01/01/2025

GENERAL INFORMATION

Exclusive specifications and benefits of UPVC doors and windows:

New UPVC windows with multi-glazed glasses are construction materials that are simply applicable with the common walls and, even, improve their functions.
The UPVC windows are easily usable, nicely depicted and in accordance with the above mentioned information, have a high grade of thermal and low sound conduction insulation. The technical specifications of the TW 630 and TW 250 profiles series, submitted the evidence and highly efficient documents of these products to the purchasers.

1. High grade of thermal transfer resistance and low sound-conduction capability of UPVC profile, creates comfort inside. Temperature-exchange resistance for the UPVC frame profile is equal to 0.85m2, grade C/W , for the UPVC sash profile is equal to 0.79 m2, grade C/W . prevention of the infiltration of the sound of traffic flow is also 35 decibels (in class B).

2. The special specifications of manufacturing UPVC profiles, provide the possibility of numerous manufacturing of different types of windows with multi-mode sliding systems, not only with using the standard essentials but also with anti-theft equipments, these profiles are suitable for the double-glazed glasses up to 32mm in thickness.

3. Galvanized reinforcements profile is contrived in order to increase the static strength inside the frame,sash and mullion profile.

4. The cross-sectional shape of the width of the profiles and the thickness of the UPVC networks guarantee the strength of the welded profiles (weld 90˚c or weld in shape of V).

5. Special canal for installing locking mechanism (13 mm) provides the possibility of installation for amplifying equipment, therefore, the security and anti-theft characteristics increases in these products

6. Complete removal of undesirable moisture for use in seals and rubber gasket.

7. Height of the part that glass is contrived to protect the edges of the object from the Ultraviolet-Ray and UVB-Ray. Moreover, it makes the possibility of darkening and cooling of the indoor space minimum.

8. Double seal (outdoor and indoor), prevents excessive dryness and provides maximum protection against the wind and rain and prevents freezing of the pipes in below zero temperatures, therefore, it guarantees the resistance of temperature exchange and sound protection to be extremely high.

9. Applying high-standard UPVC raw-materials, guarantees the physical and chemical characteristics of the products produced from these raw productions. Durability in below zero temperatures, tensional strength, considerable toughness, thermal resistance, satisfaction level of quality and long life cycle are some of these characteristics.

10. UPVC profiles have health certificate for a wide range of users and are completely safe for the human health.

11. Because of the fireproof nature of the UPVC materials, UPVC profiles are incombustible. According to the fire-fighting certificate, UPVC profiles are in accordance with the fire-fighting rules and conforms to the combustibility rate G2 (limited ignition) and burning-rate B2 (medium-ignition).

12. It is possible to produce profile with rubber and without rubber.

13. The multi-glazed glass is the main part of the raw materials of UPVC windows. Based on the technical test of life cycle of the multi-glazed glasses, the longevity of these glasses could be guaranteed upto 20 years. Application of multi-glazed glasses has many advantages, for instance: increasing the temperature-protection (B2), decreasing noisiness (reduction of audio-disturbance about 30-50 decibel), moreover, these glasses are anti-freeze and anti-steam (upto temperature 40˚c).
New technology provides the possibility of manufacturing two-phase pressure insulated glasses and thereupon promotion of the quality and reliability. Suitable function of UPVC door or window is not only limited to the technical features or the quality of applied necessities but also is dependent on the montage accuracy. The Experienced and Skillful manufacturers use new connections in manufacturing the products. The relation between windows and various opening systems has its own specifications and special connections. Based on the purchaser's request, creating exclusive user connections is possible (Reinforcement of heat and thermal insulation or water-proofing). UPVC profiles surfaces don't require being covered with color-layer and they are easy to protect. Because of being smooth and having polished surface, dust does not accumulate on the profiles. The UPVC windows that successfully have been installed and operated are very suitable insulators against the environmental conditions for the residential and administrative complexes. However, this insulation leads to excessive moisture. Sometimes, this results in wet windows and the walls, especially in the cases of lack of a good ventilation inside the house. One of the actions that are applicable to prevention in this cases, is repairing the ventilation with using the tools that make the air-stream limited. The UPVC windows with the mentioned tools could create a passing air-stream with the size of 1.2 mm., and, meanwhile, preventing air-dryness and condensation in the inside space.

For increasing the longevity of UPVC windows, it's necessary to take the following preventive measures once in a year:

All the moving components should be lubricated by appropriate lubricants.

Seals must be check on to make sure that they are in an ideal mood, it shall be more attention to the tires of the glass part (all the damaged tires should be replaced).

Water evacuation grooves (grooves of rain water), must be checked, and if it is necessary, they should to be cleaned.

Outer surface of the UPVC profiles should be cleaned with water, and if it is needed, with detergent. Avoid using oil, petrol and other similar materials which are oil-based.

Heat Protection:

The UPVC windows guarantee a high level of thermal protection in order to ensure inside comfort. Wintech Multi-hole profiles, they provide excellent heat insulation. The rate of these profiles is 1.3Wt. /m.2

Sound Protection:

Audio-insulation depends on the manufacturing factors of UPVC windows to a large extent, nevertheless, not only the frame,sash and mullion profile, but also the type of glass and execution of its function has a high importance.

Humidity and Ventilation:

The UPVC windows also provide air-circulation in the buildings. Room ventilation is necessary in order to ensure keeping fresh air inside (in order to eliminating the causes of pollution like CO) 2and to create natural heat ventilation (stream outlet). The human beings are one of the main sources of moisture in the building. The moisture increases with their breathing. It is completely obvious that, breathing of this air once happened and then the moisture should get out of the room, otherwise, could lead to density of humidity in the internal surface of the windows and the edge of the walls.

Constant humidity concentration in the air could lead to growth of fungus on the furniture, walls and ceiling. UPVC profiles are suitable heat protectors and usually don not sweat or freeze.

The specifications of the UPVC Profiles provide using the standard and anti-theft equipments and essentials. Moreover, filling the holes and grooves doesn't need any special equipment.

Maintenance of the UPVC Profile:
Maintaining the UPVC profiles is very easy. They don't need any special repair or care but several simple rules should be considered in order to save the life cycle of these windows.

Annual care of the UPVC windows:
Periodically, check the outer side of the windows and if necessary, clean the outer sides. Water drain slots must be checked and if necessary, they must be patched. The caulk rubbers should be checked. Pay attention to the rubbers which are associated with glass and ,in case of damage, they must be changed. All the mobile components must be lubricated using suitable lubrication.

Cleaning of UPVC Profiles:
The UPVC profiles can be cleaned with regular water and detergent. Do not use any detergent that can cause wear, including powerful organic compounds.

The dust from the production process as well as the installation of the window on which it is accumulated can easily be eliminated by ordinary water and warm water. The use of oil, petrol and other substances should be strictly avoided.

Damages caused by machining and unwanted holes can be repaired with special adhesives and then filled. Different filling tools can be used for this purpose, but the filled space should be as small as possible. The filled surface should then be polished using a roller. Surface roughness and small scratches can be eliminated by finishing the surface.

Damaged UPVC profiles caused by machining can be repaired with parts of the same damaged profile. A small piece of the same profile should be turned into dough in the boiling process with hot air and to be used to cover the damaged part. This operation must be performed after all the steps mentioned above have been applied.

Well-installed UPVC windows provide a high degree of insulation against environmental factors. However, this insulation leads to excessive moisture. Occasionally, the lack of proper ventilation leads to wet walls and windows.

The only way to prevent this condensation is to improve ventilation conditions. Improvement of ventilation by means of fittings that limit the air flow to a limited extent. The UPVC windows with the mentioned specifications can create as much as 1-2 mm airflow space and prevent indoor air from condensation.

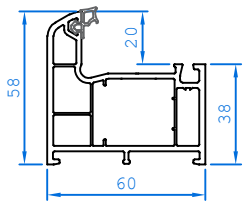
Technical Department
2024-09-30

Specification of Winopen UPVC Profiles:

TECHNOWIN UPVC Windows are produced using high-quality PVC compound in the best structural condition. In the production of Winopen profiles, the production method is used in extrusion mode. Continuous monitoring of production not only ensures the dimensional quality but also the quality of the produced profiles.

UPVC compound used in production:	Adopen UPVC compound in compliance with EN 7748
Density:	1.46 g/cm3
Impact Strength (up to -40 °C):	no crack or rupture
Resistance to windloads:	Class C4/B4 according to EN 12210
Resistance to driving rain:	Class 9A according to EN 12208
Permeability of air:	Class 4 according to EN 12207
Tensile strength:	>= 40 N/mm2
Elasticity of Modulus:	>= 2500 N/mm2
Coeeficient of linear thermal expansion:	0.8*10-4 K-1
Thermal conductivity:	0.16 W/mK
Specific resistance:	1016 Ω cm
Fire behaviour:	self extinguishing, flame retardant
Resistant to:	acids, salts, salt solutions, bases, sea water, benzene, oil, lime, cement, fumes of all sorts
Wall thickness:	2.2 - 2.6 mm
Possible processing techniques:	boring, milling, sawing, filing, welding, grinding
Corner joints:	welded
Types of openings:	turn, turn and tilt, tilt, sliding, folding
Possible glass types:	insulating or non-insulating glass types with all common glass thicknesses between 4 and 32 mm.
Seals:	EPDM-TPV and TPE
Seal Color:	BLACK
Main application areas:	residential houses, high-rise buildings, schools, administrative buildings, industrial buildings
Coefficient of heat transfer:	k = between 2.6 - 1.4 W/m2 K depending on the insulating glass used.

UPVC PROFILES SYSTEM OF TECHNOWIN



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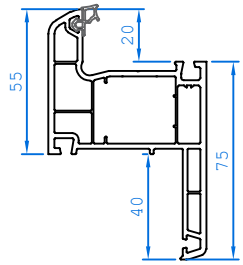

Frame Profile With Sill
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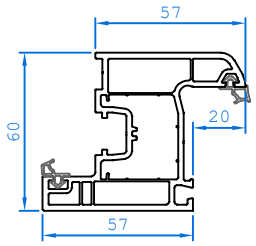

Window Sash Profile
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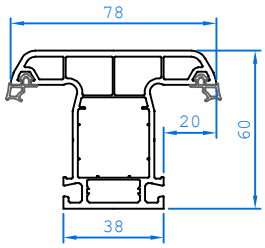

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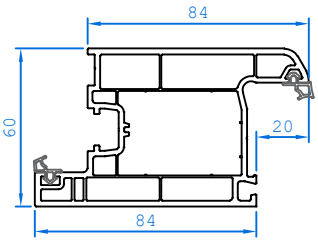

Door Sash Profile
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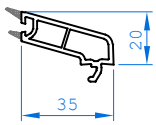

Single Glazing bead profile (6mm)
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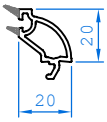

Double Glazing Bead Profile (20mm)
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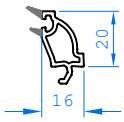

Double Glazing Bead Profile (24mm)
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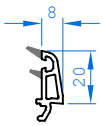

Triple Glazing Bead Profile
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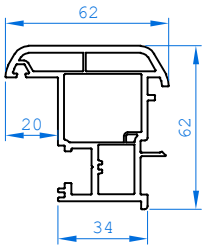

Lap Joint Profile
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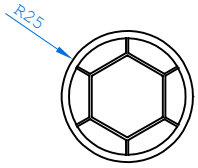

Pipe Angular Profile
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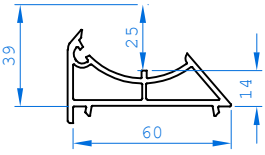

Angled Pipe Adaptor Profile
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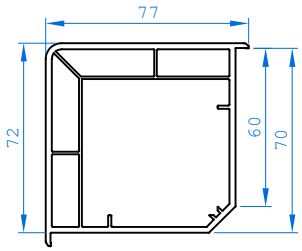

Corner Profile
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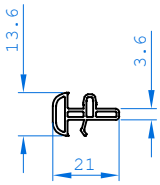

Coupling Profile
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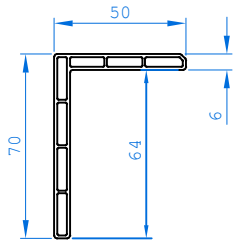

Sill (border) Profile 50x70 mm
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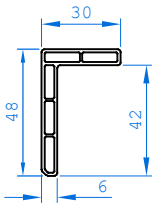

Sill (border) Profile 30x48 mm
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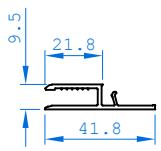

Holder Profile
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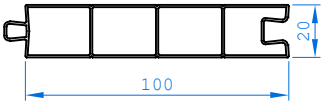

Panel Profile (20x100 mm)
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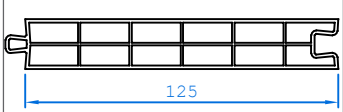

Panel Profile (20x125 mm)
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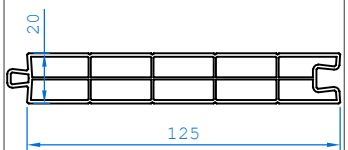

Panel Profile (With Groove)
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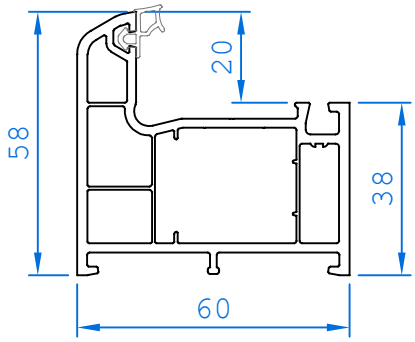
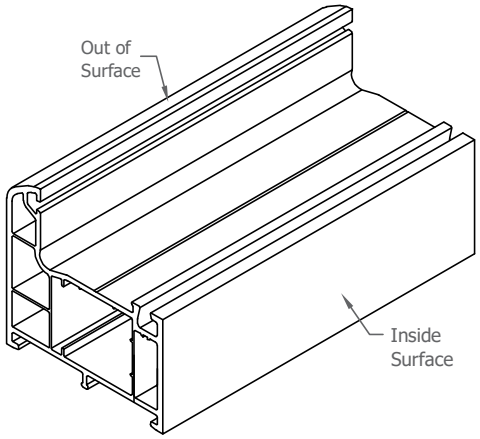
Frame profile





Quantity in the package: 6 x 6mt =36 meters

Profile Code					
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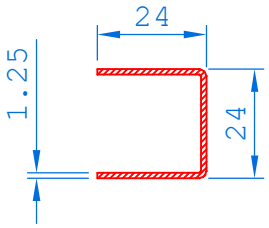
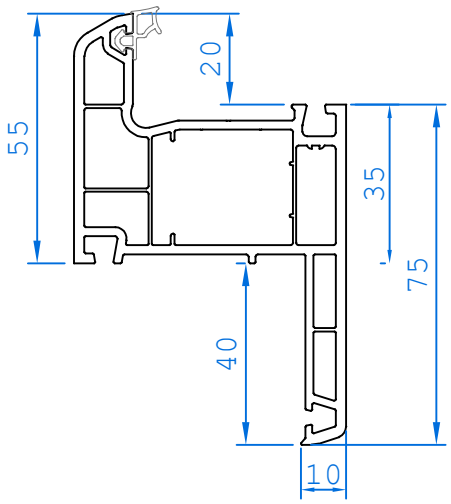
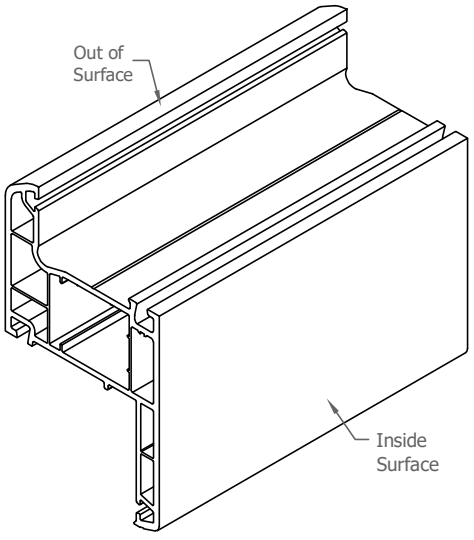
White / With Rubber	●	41800- 91000			
Brown Laminate / Golden Oak	○	*********	*********	*********	
Brown Laminate / Dark Oak	○	*********	*********	*********	
Brown Laminate / Charcoal Brown	○	*********	*********	*********	
Gray Laminate / Wintech Gray	○	*********	*********	*********	

○ Without Rubber ● With Rubber



Frame profile With Sill





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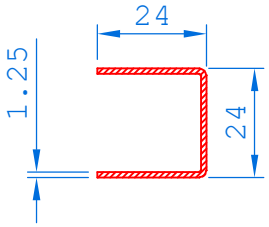
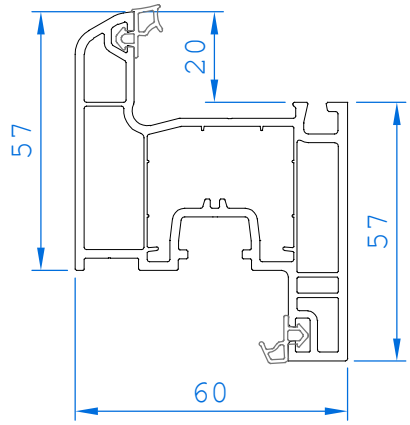
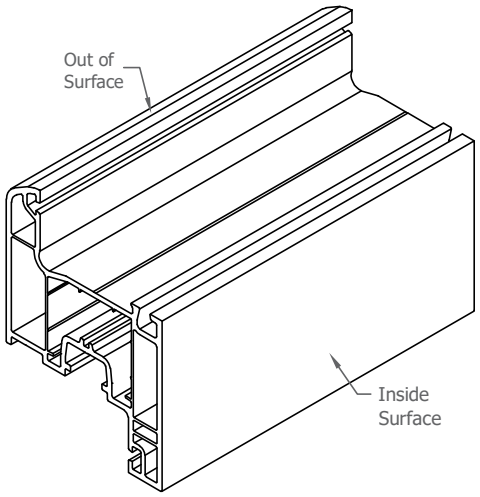


Sash profile





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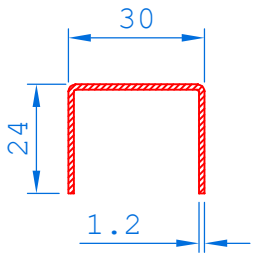
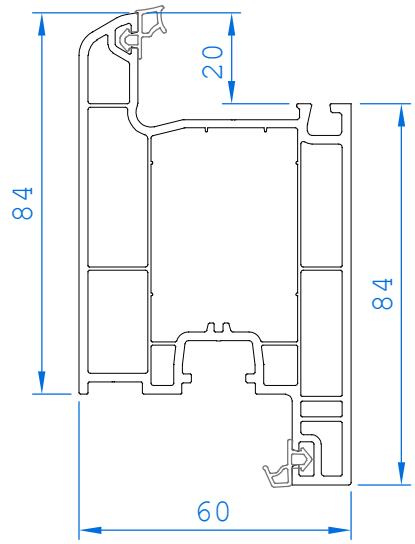
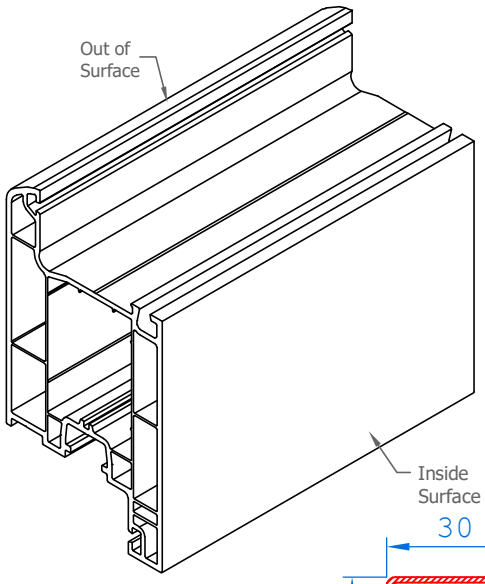
○ Without Rubber ● With Rubber



Door Sash profile





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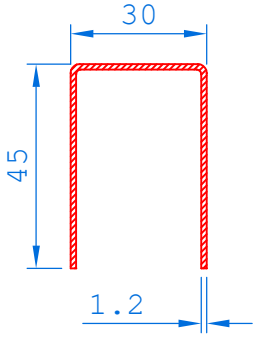
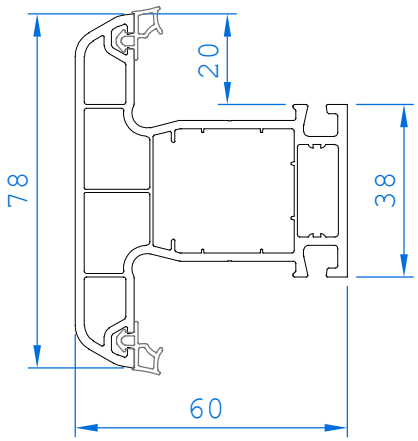
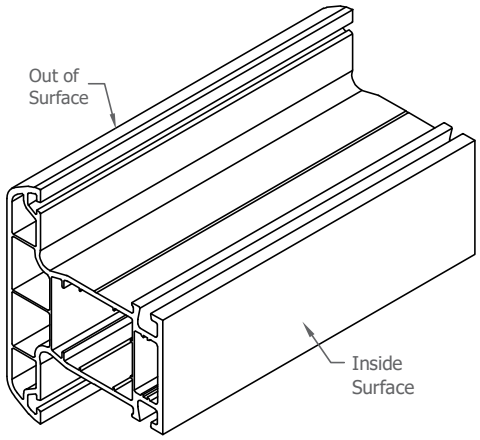
○ Without Rubber ● With Rubber



Mullion profile

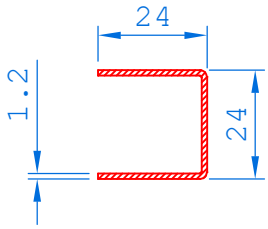




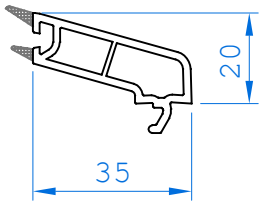
Quantity in the package: 6 x 6mt =36 meters

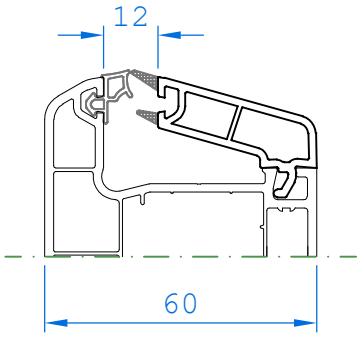
Profile Code					
White / Without Rubber	○	41800- 03000	Inside Lmainate	Outside Lmainate	
White / With Rubber	●	41800- 93000			
Brown Laminate / Golden Oak	○	*********	*********	*********	
Brown Laminate / Dark Oak	○	*********	*********	*********	
Brown Laminate / Charcoal Brown	○	*********	*********	*********	
Gray Laminate / Wintech Gray	○	*********	*********	*********	

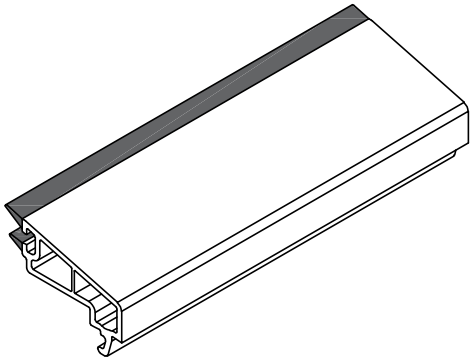
○ Without Rubber ● With Rubber



Single Glazing Bead Profile (4 - 6 mm)





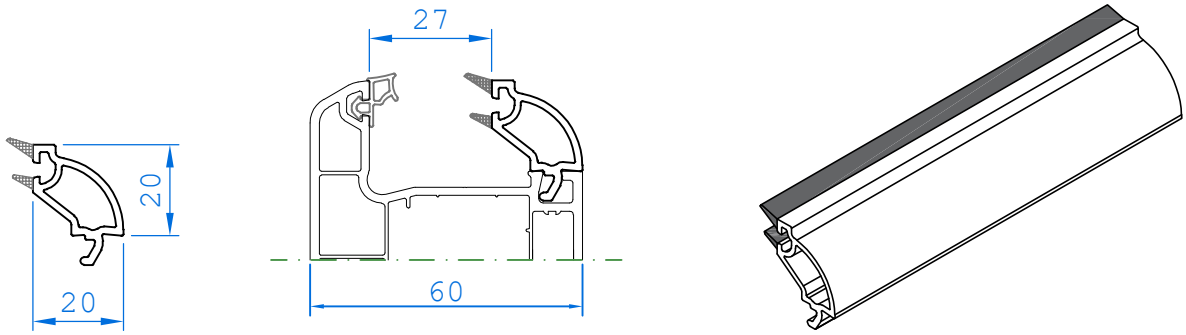


Quantity in the package: 20 x 6mt =120 meters

Profile Code				
White / Without Rubber	○	*********	Inside Lmainate	Outside Lmainate
White / With Rubber	●	40801- 96400		
Brown Laminate / Golden Oak	●	*********	*********	*********
Brown Laminate / Dark Oak	●	*********	*********	*********
Brown Laminate / Charcoal Brown	●	*********	*********	*********
Gray Laminate / Wintech Gray	●	*********	*********	*********

○ Without Rubber ● With Rubber

Double Glazing Bead Profile (20 mm)

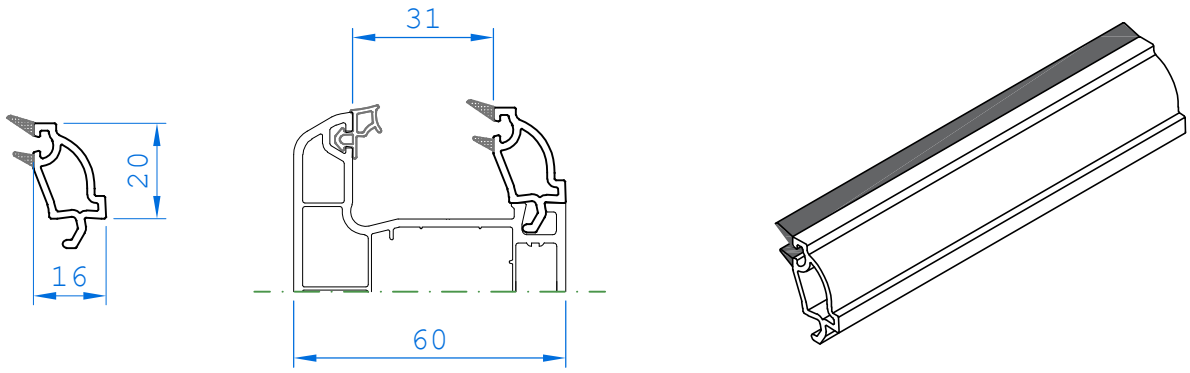


Quantity in the package: 30 x 6mt =180 meters

Profile Code					
	White / Without Rubber	○	*********	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	40801- 96600		
	Brown Laminate / Golden Oak	●	*********	*********	*********
	Brown Laminate / Dark Oak	●	*********	*********	*********
	Brown Laminate / Charcoal Brown	●	*********	*********	*********
	Gray Laminate / Wintech Gray	●	*********	*********	*********

○ Without Rubber ● With Rubber

Double Glazing Bead Profile (24 mm)

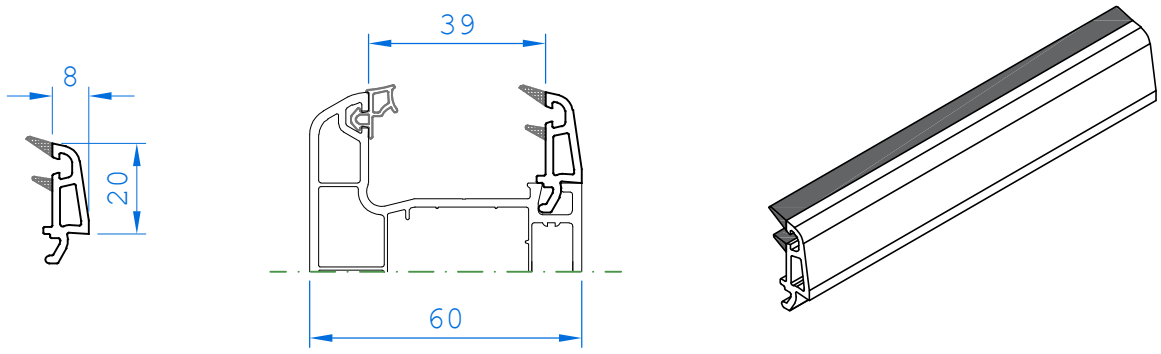


Quantity in the package: 30 x 6mt =180 meters

Profile Code					
	White / Without Rubber	○	*********	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	40801- 96500		
	Brown Laminate / Golden Oak	●	*********	*********	*********
	Brown Laminate / Dark Oak	●	*********	*********	*********
	Brown Laminate / Charcoal Brown	●	*********	*********	*********
	Gray Laminate / Wintech Gray	●	*********	*********	*********

○ Without Rubber ● With Rubber

Triple Glazing Bead Profile (32 mm)

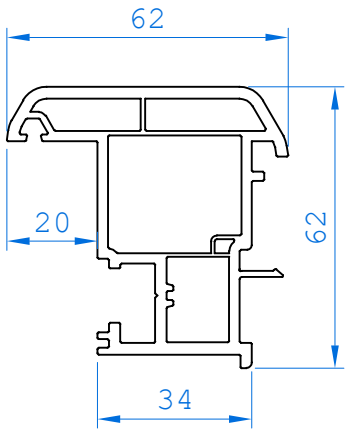


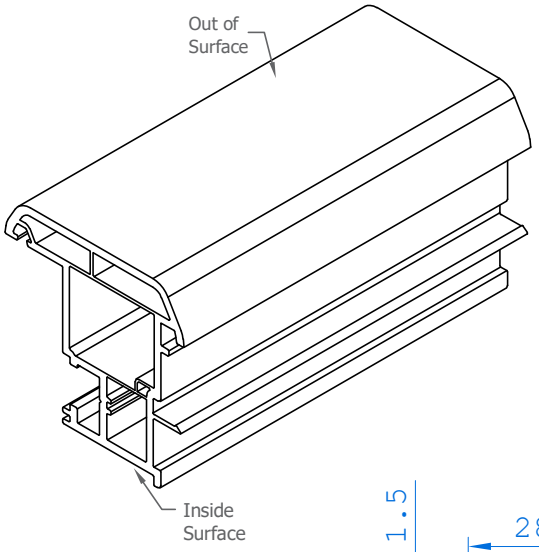
Quantity in the package: 30 x 6mt =180 meters

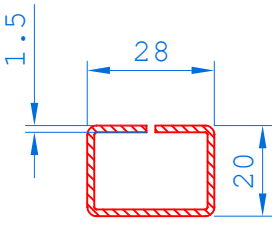
Profile Code					
	White / Without Rubber	○	*********	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	40801- 96300		
	Brown Laminate / Golden Oak	●	*********	*********	*********
	Brown Laminate / Dark Oak	●	*********	*********	*********
	Brown Laminate / Charcoal Brown	●	*********	*********	*********
	Gray Laminate / Wintech Gray	●	*********	*********	*********

○ Without Rubber ● With Rubber

Lap Joint Profile





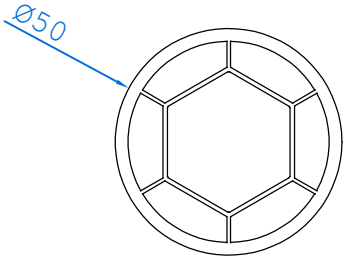


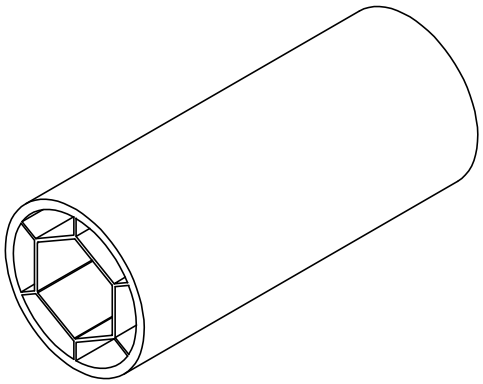
Quantity in the package: 6 x 6mt =36 meters

Profile Code					
	White / Without Rubber	○	41800- 09000	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	*********		
	Brown Laminate / Golden Oak	○	*********	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ○ With Rubber

Pipe Profile

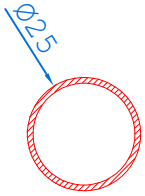




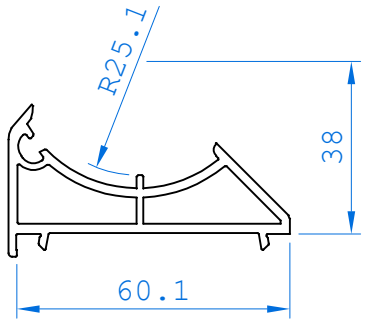
Quantity in the package: 6 x 6mt =36 meters

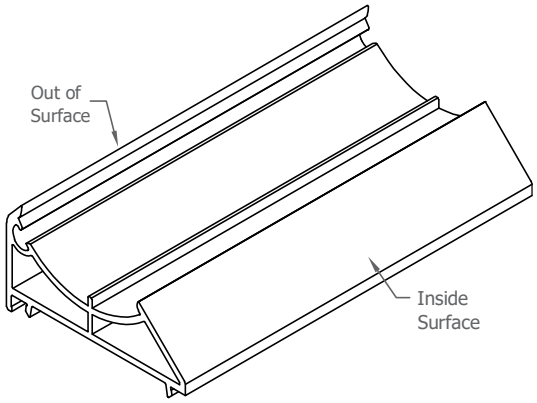
Profile Code				
White / Without Rubber	○	40105- 05000	One side Lmainate *
White / With Rubber	●	*********	
Brown Laminate / Golden Oak	○	*********	*********
Brown Laminate / Dark Oak	○	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********

○ Without Rubber ● With Rubber



Angled Pipe Adaptor Profile



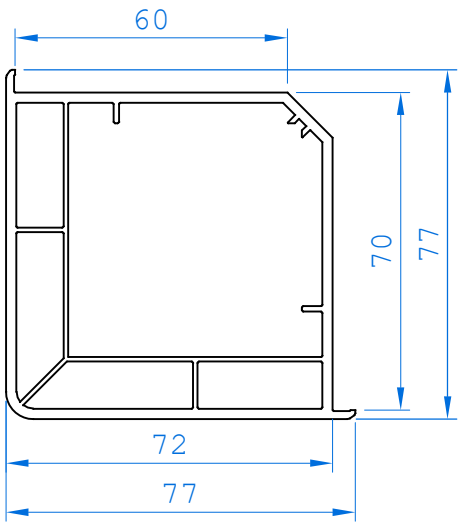


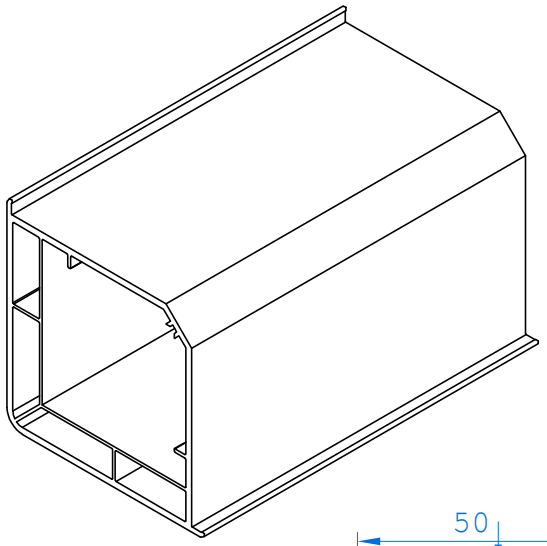
Quantity in the package: 12 x 6mt =72 meters

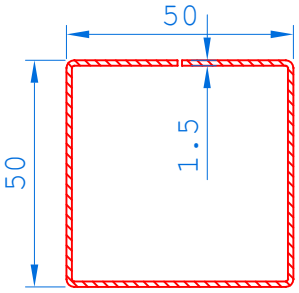
Profile Code				
White / Without Rubber	○	40105- 04000	Inside Lmainate	Outside Lmainate
White / With Rubber	●	*********		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Corner Profile





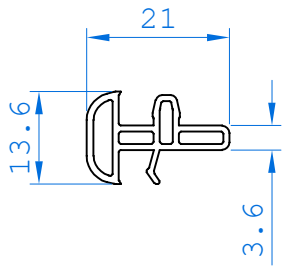


Quantity in the package: 4 x 6mt =24 meters

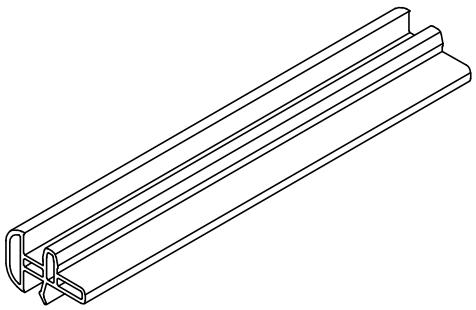
Profile Code					
	White /	○	40106- 02000	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	*********		
	Brown Laminate / Golden Oak	○	*********	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Coupling Profile



Scale= 1:1.5

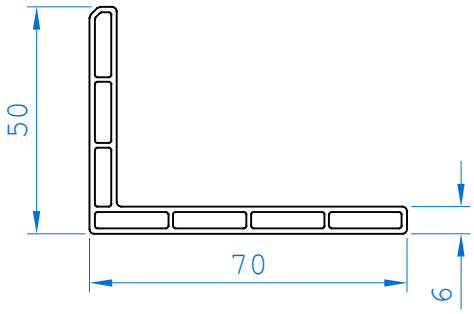


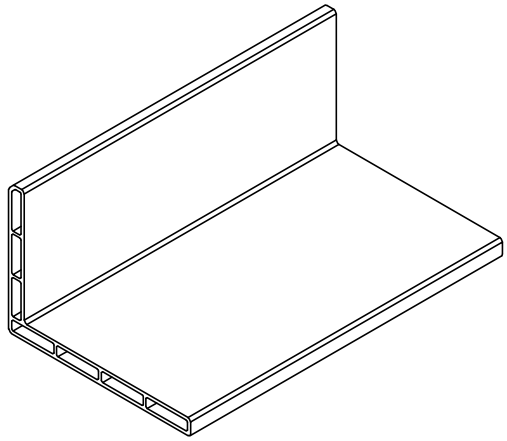
Quantity in the package: 30 x 6mt =180 meters

Profile Code			
	White / Without Rubber	○	40106- 01000
	White / With Rubber	●	*********
	Brown / Without Laminate	○	*********
	Gray / Without Laminate	○	*********
	*********	○	*********
	*********	○	*********

○ Without Rubber ● With Rubber

Sill (border) Profile - 50x70 mm



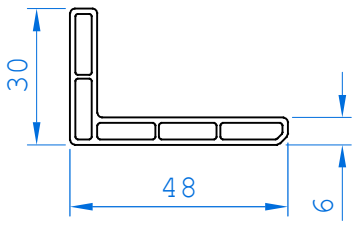


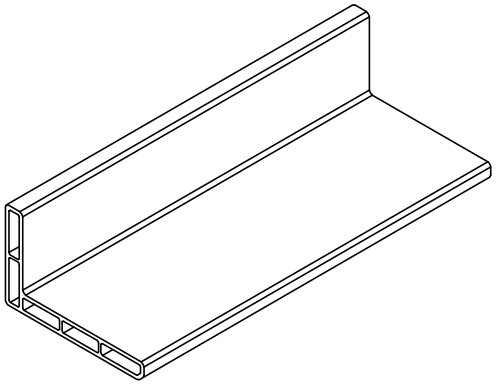
Quantity in the package: 12 x 6mt =72 meters

Profile Code					
	White / Without Rubber	○	40108- 02000	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	*********		
	Brown Laminate / Golden Oak	○	*********	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Sill (border) Profile - 30x48 mm



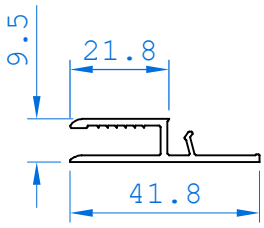


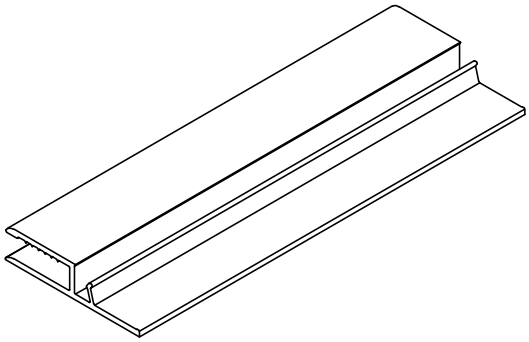
Quantity in the package: 12 x 6mt =72 meters

Profile Code					
	White / Without Rubber	○	40108- 01000	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	*********		
	Brown Laminate / Golden Oak	○	*********	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Holder Profile



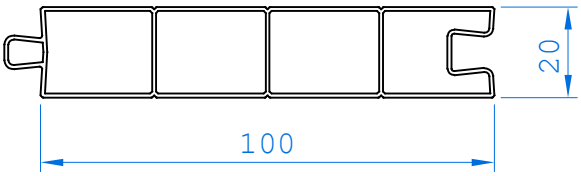


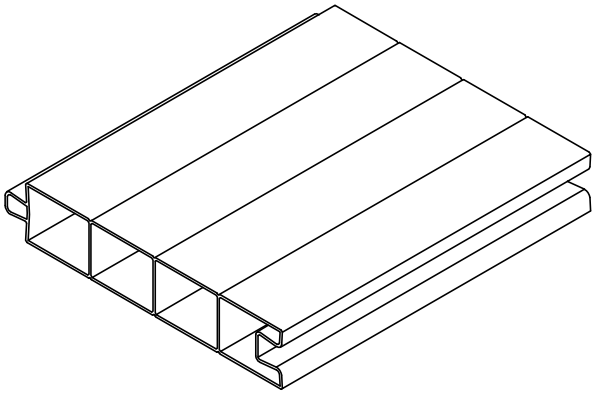
Quantity in the package: 20 x 6mt =120 meters

Profile Code			
	White / Without Rubber	○	40106- 04000
	White / With Rubber	●	*********
	Brown / Without Laminate	○	*********
	Gray / Without Laminate	○	*********
	*********	○	*********
	*********	○	*********

○ Without Rubber ● With Rubber

Panel Profile (20 x 100 mm)



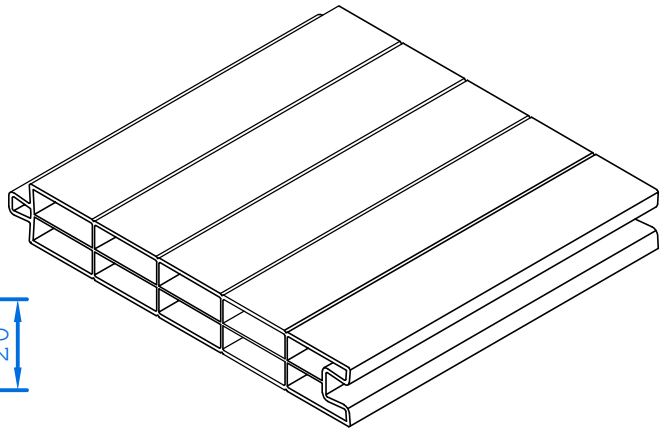


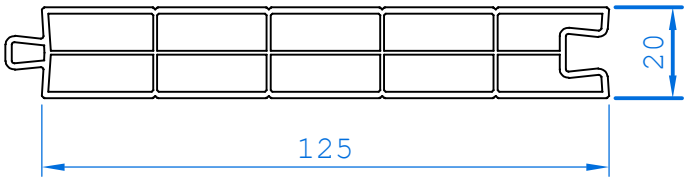
Quantity in the package: 6 x 6mt =36 meters

Profile Code				
	White / Without Rubber	○	40802- 03000	One side Lmainate *
	White / With Rubber	●	*********	
	Brown Laminate / Golden Oak	○	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********

○ Without Rubber ● With Rubber

Panel Profile (20 x 125 mm- Groove)



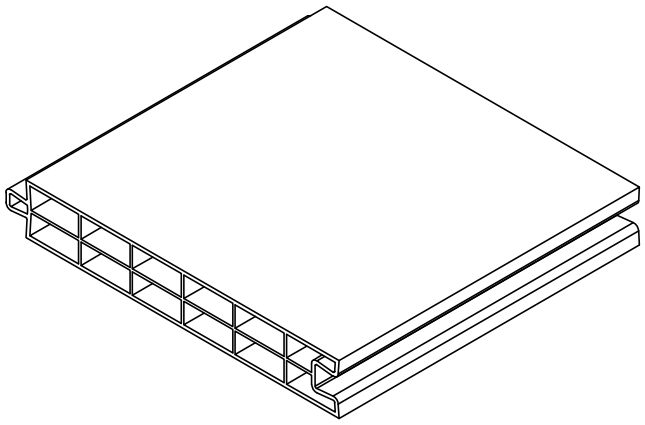


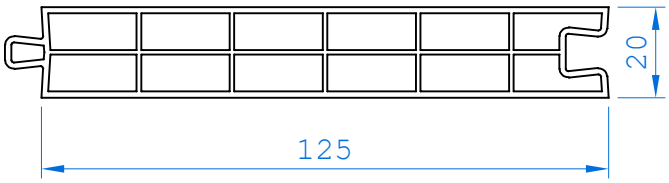
Quantity in the package: 6 x 6mt =36 meters

Profile Code				
	White / Without Rubber	O	40802- 02000	One side Lmainate
	White / With Rubber	●	*********	
	Brown Laminate / Golden Oak	O	*********	*********
	Brown Laminate / Dark Oak	O	*********	*********
	Brown Laminate / Charcoal Brown	O	*********	*********
	Gray Laminate / Wintech Gray	O	*********	*********

O Without Rubber ● With Rubber

Panel Profile (20 x 125 mm)



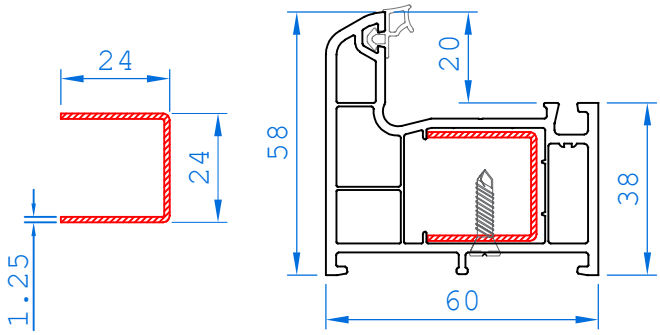


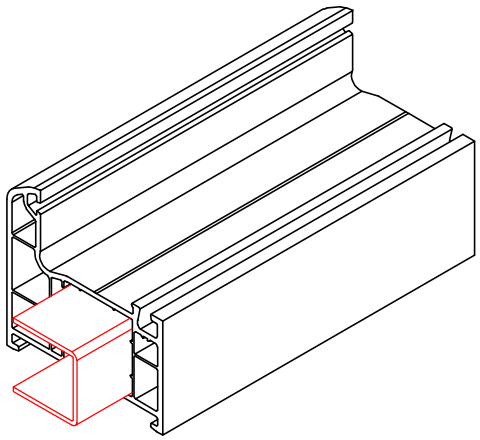
Quantity in the package: 6 x 6mt =36 meters

Profile Code				
	White / Without Rubber	O	40802- 04000	One side Lmainate *
	White / With Rubber	●	*********	
	Brown Laminate / Golden Oak	O	*********	*********
	Brown Laminate / Dark Oak	O	*********	*********
	Brown Laminate / Charcoal Brown	O	*********	*********
	Gray Laminate / Wintech Gray	O	*********	*********

O Without Rubber ● With Rubber

Galvanized Reinforcing Profile Systems

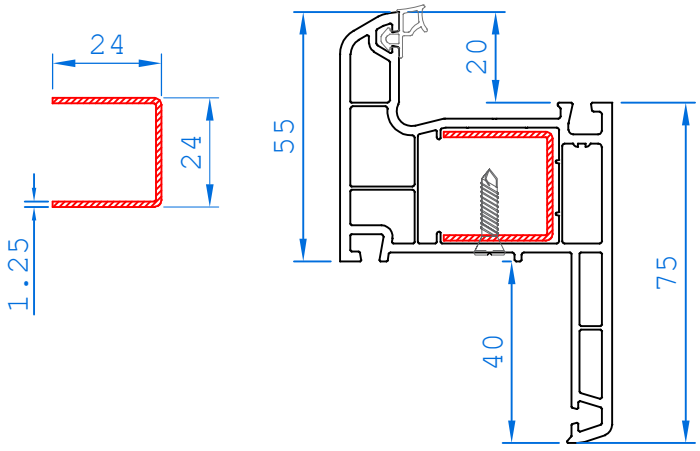


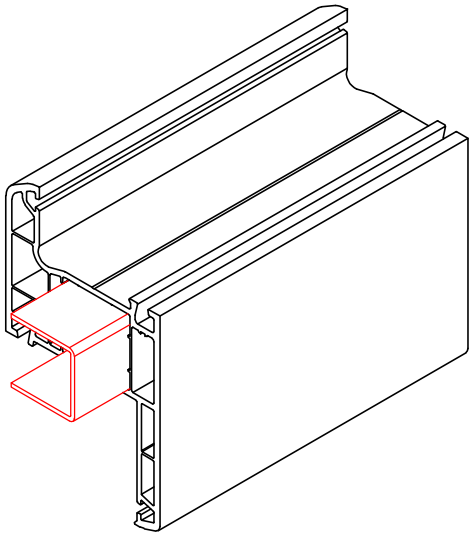


Thickness	Ix (cm)^4	Iy (cm)^4	Area	Weight
1.25 mm	0.86	0.52	85	670 gr /mt
1.5 mm	1.01	0.61	102	803 gr /mt
2 mm	1.28	0.79	135	1063 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems

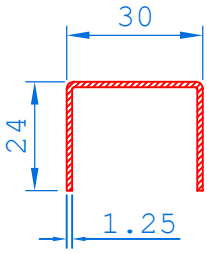


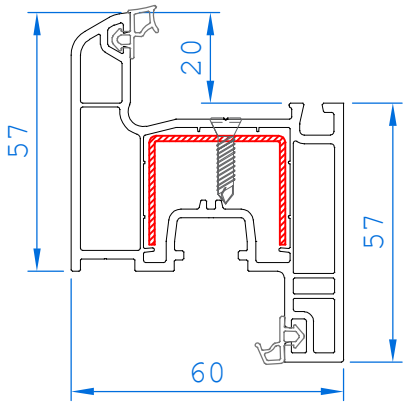


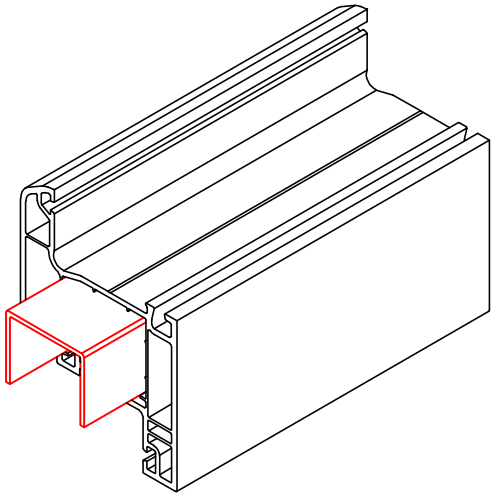
Thickness	Ix (cm)^4	Iy (cm)^4	Area	Weight
1.25 mm	0.86	0.52	85	670 gr /mt
1.5 mm	1.01	0.61	102	803 gr /mt
2 mm	1.28	0.79	135	1063 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems



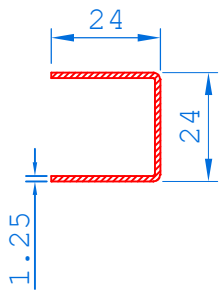


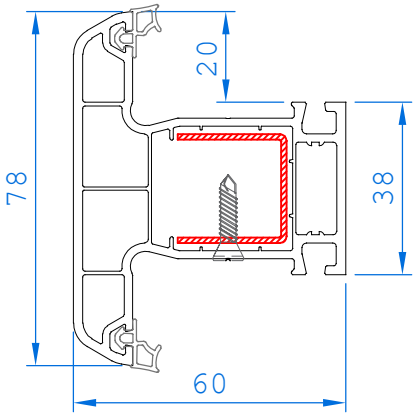


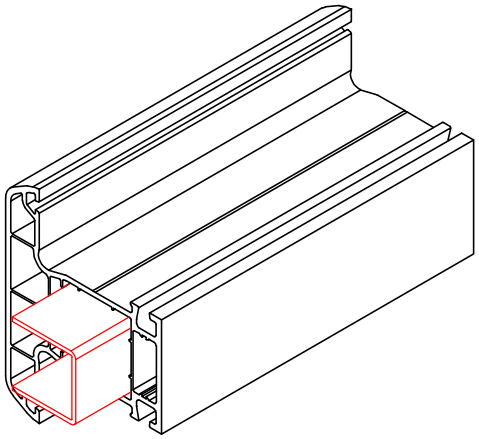
Thickness	Ix (cm)^4	Iy (cm)^4	Area	Weight
1.25 mm	0.56	1.43	93.4	736 gr /mt
1.5 mm	0.66	1.69	111.6	880 gr /mt
2 mm	0.86	2.15	147.2	1160 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems



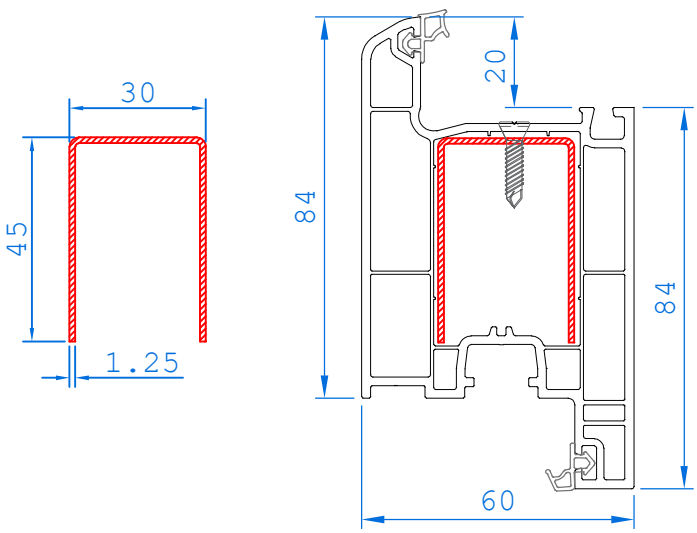


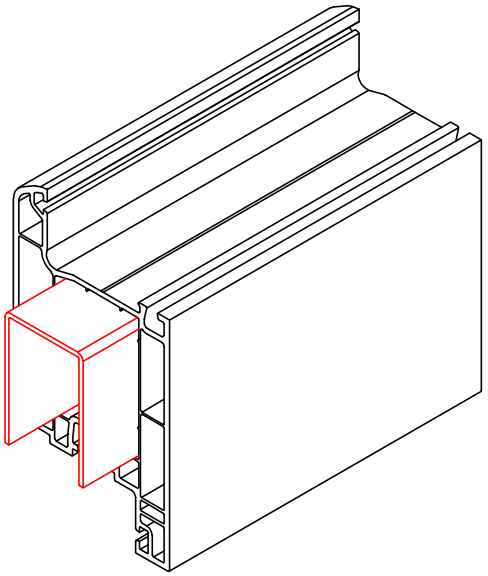


Thickness	Ix (cm)^4	Iy (cm)^4	Area	Weight
1.25 mm	0.86	0.52	85	670 gr /mt
1.5 mm	1.01	0.61	102	803 gr /mt
2 mm	1.28	0.79	135	1063 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems

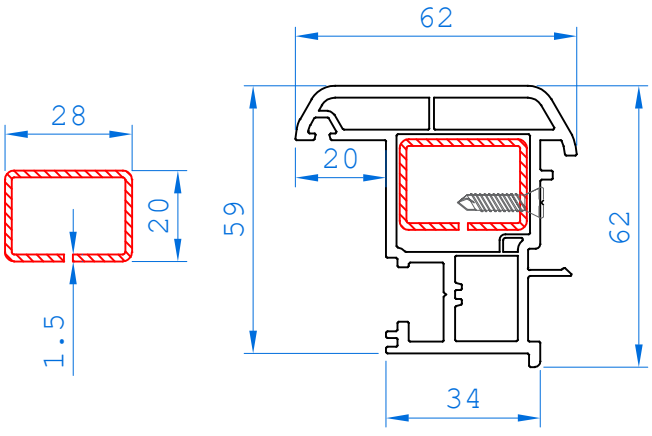


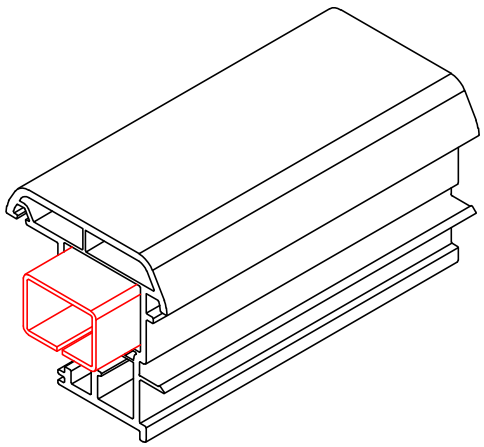


Thickness	Ix $(cm)^4$	Iy $(cm)^4$	Area	Weight
1.25 mm	3.11	2.51	145	1142 gr /mt
1.5 mm	3.70	2.95	173	1363 gr /mt
2 mm	4.85	3.79	230	1812 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems

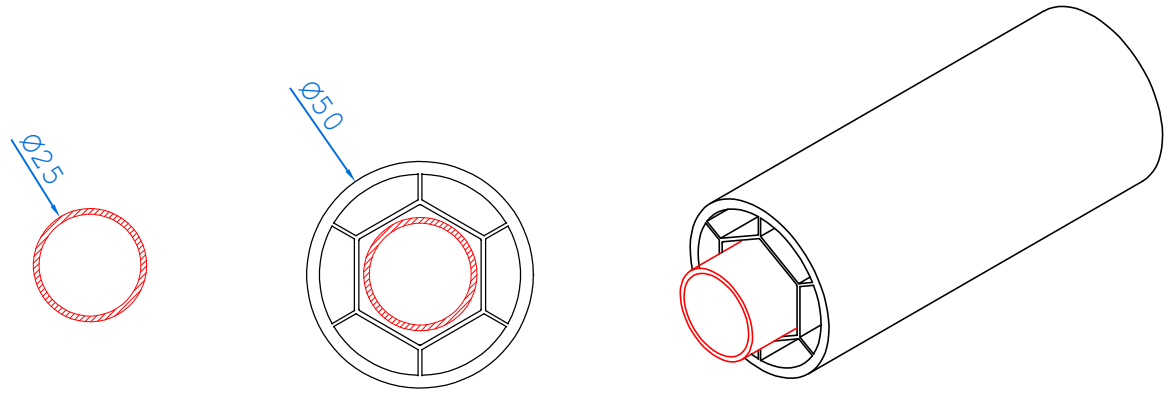




Thickness	Ix $(cm)^4$	Iy $(cm)^4$	Area	Weight
1.25 mm	0.72	1.26	116.5	914 gr /mt
1.5 mm	1.78	1.38	128.7	1010 gr /mt
2 mm	0.96	1.72	166.8	1310 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

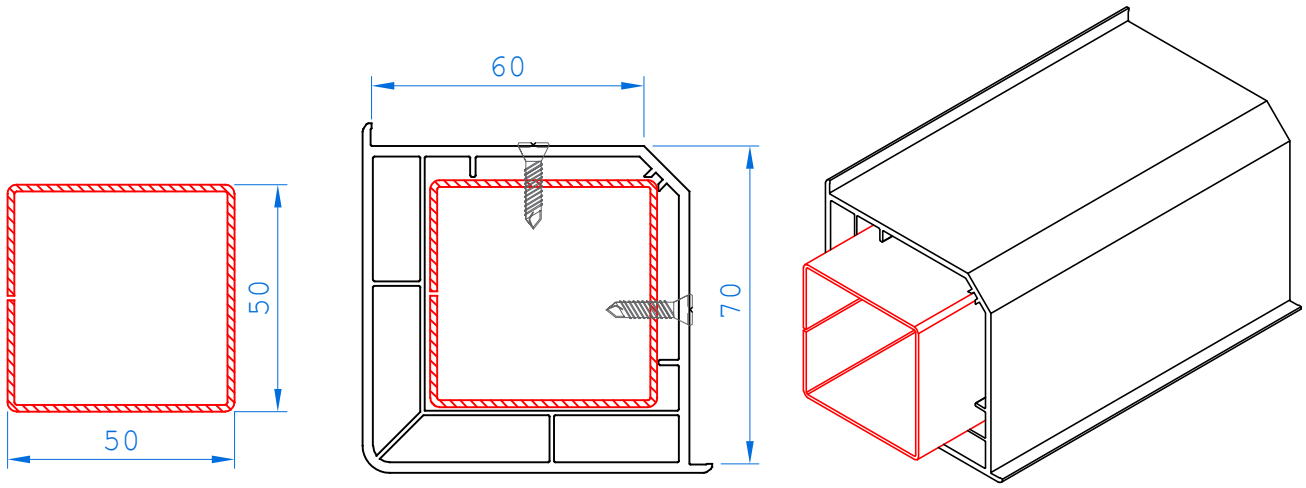
Galvanized Reinforcing Profile Systems



Thickness	Ix $(cm)^4$	Iy $(cm)^4$	Area	Weight
1.25 mm	0.94	0.94	105	824 gr /mt
1.5 mm	1.09	1.09	124.8	979 gr /mt
2 mm	1.38	1.38	163.2	1281 gr /mt

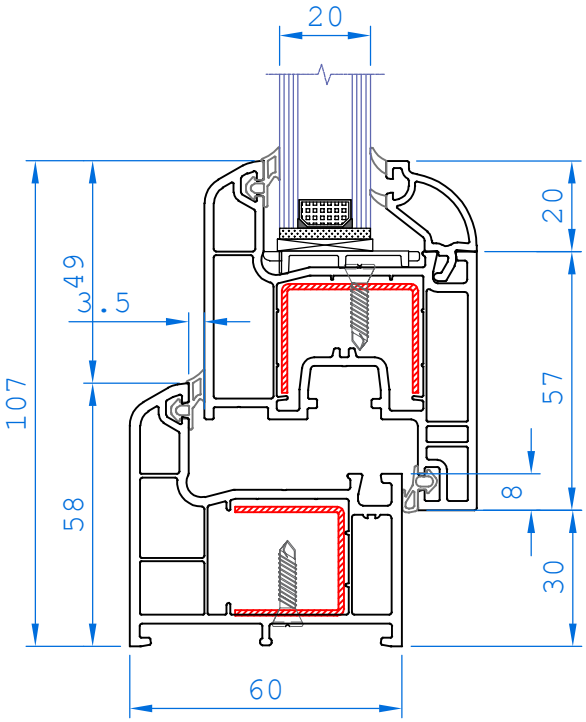
Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems



Thickness	Ix $(cm)^4$	Iy $(cm)^4$	Area	Weight
1.25 mm	9.51	9.43	240	1884 gr /mt
1.5 mm	11.22	11.13	286.2	2246 gr /mt
2 mm	14.46	14.34	376	2951 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.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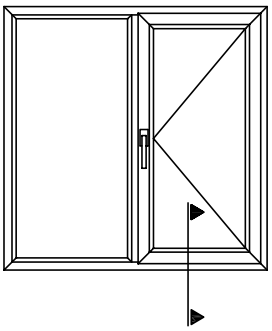

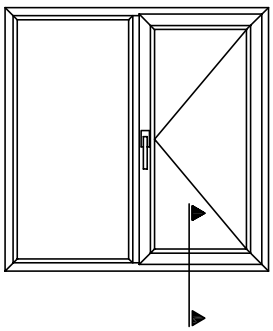

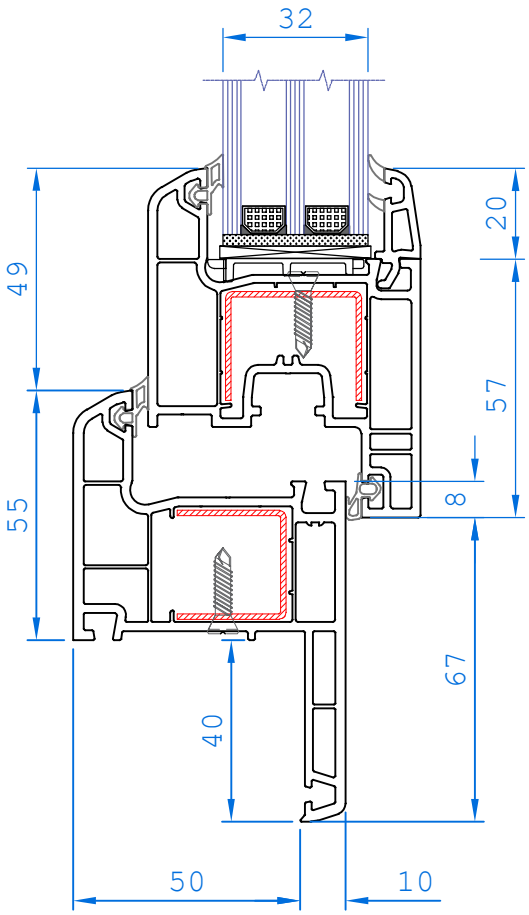
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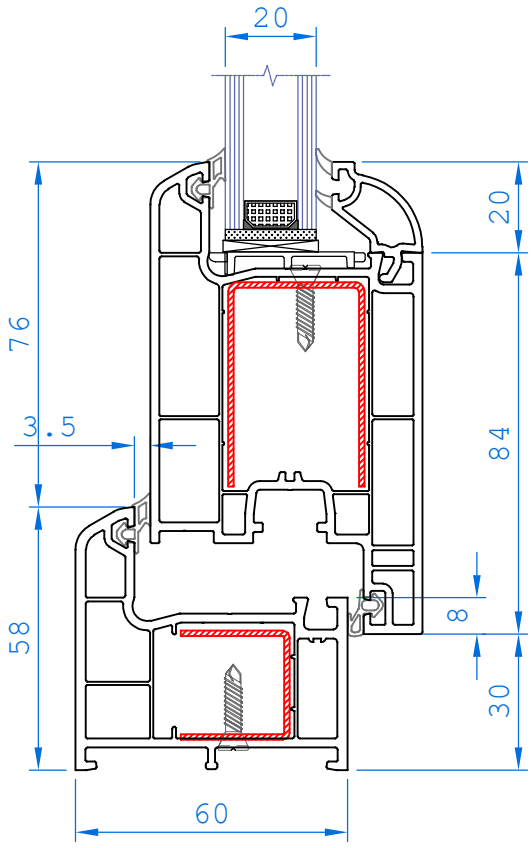
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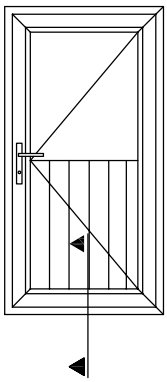

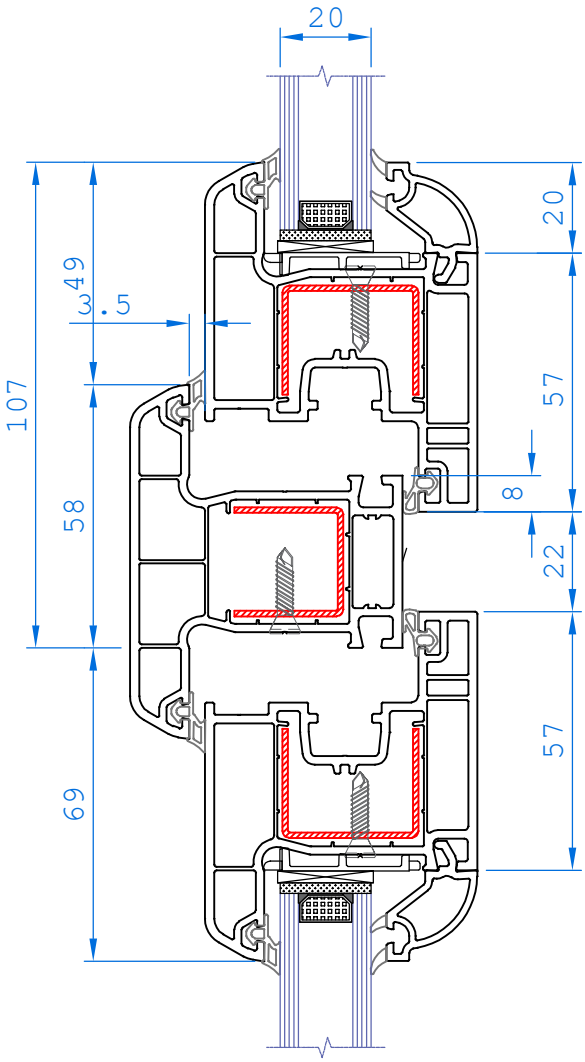
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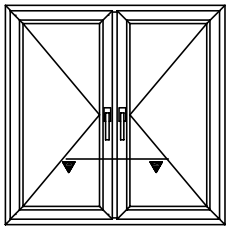

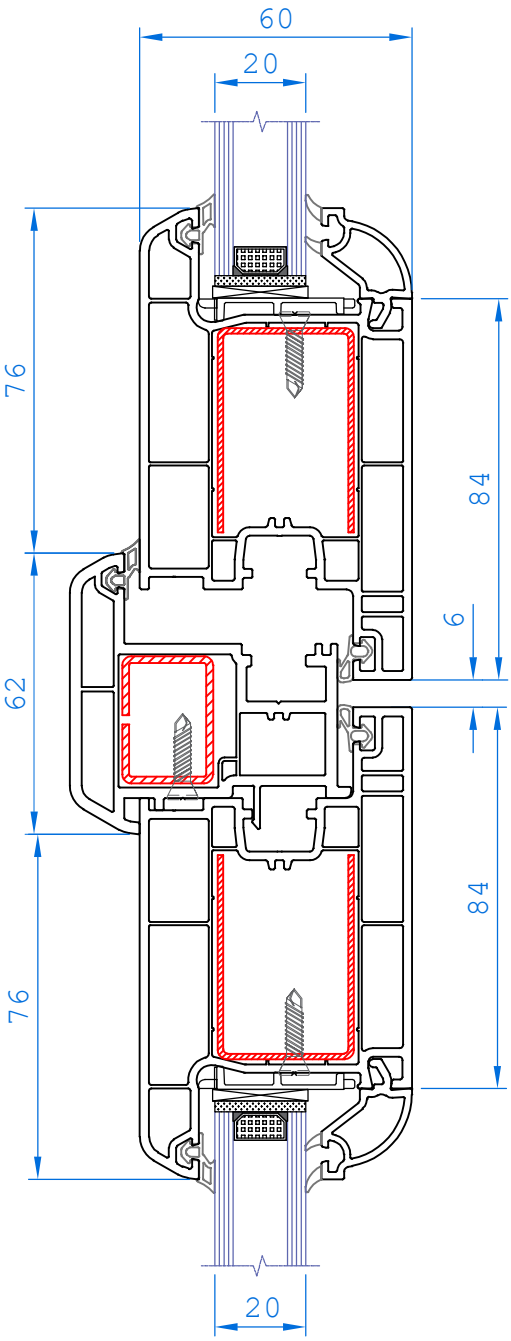
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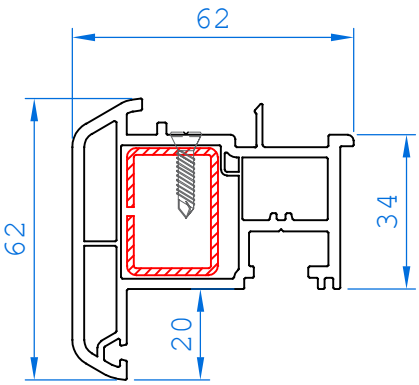
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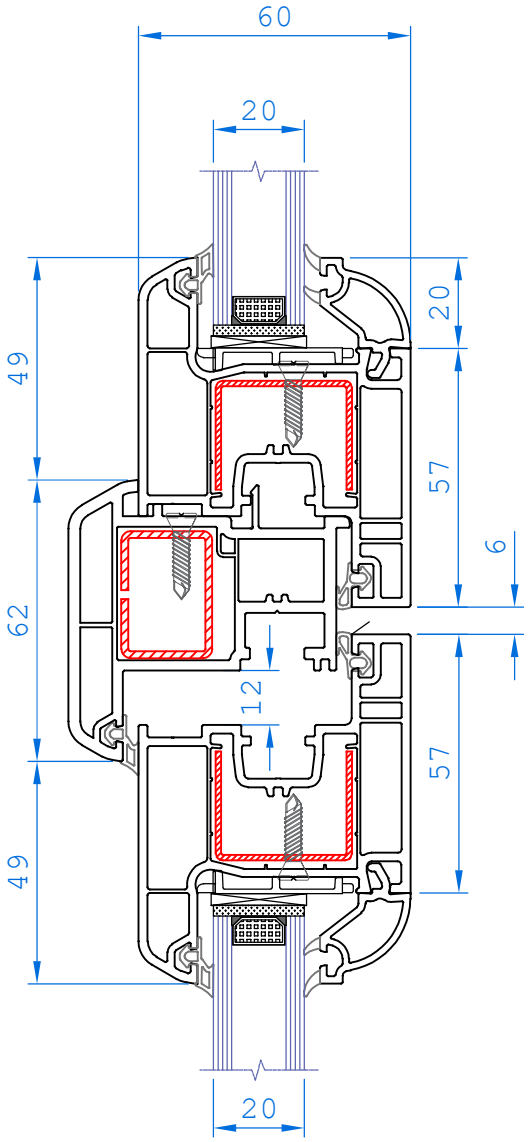
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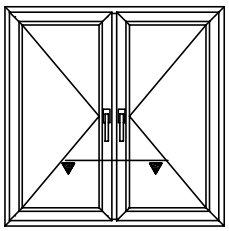

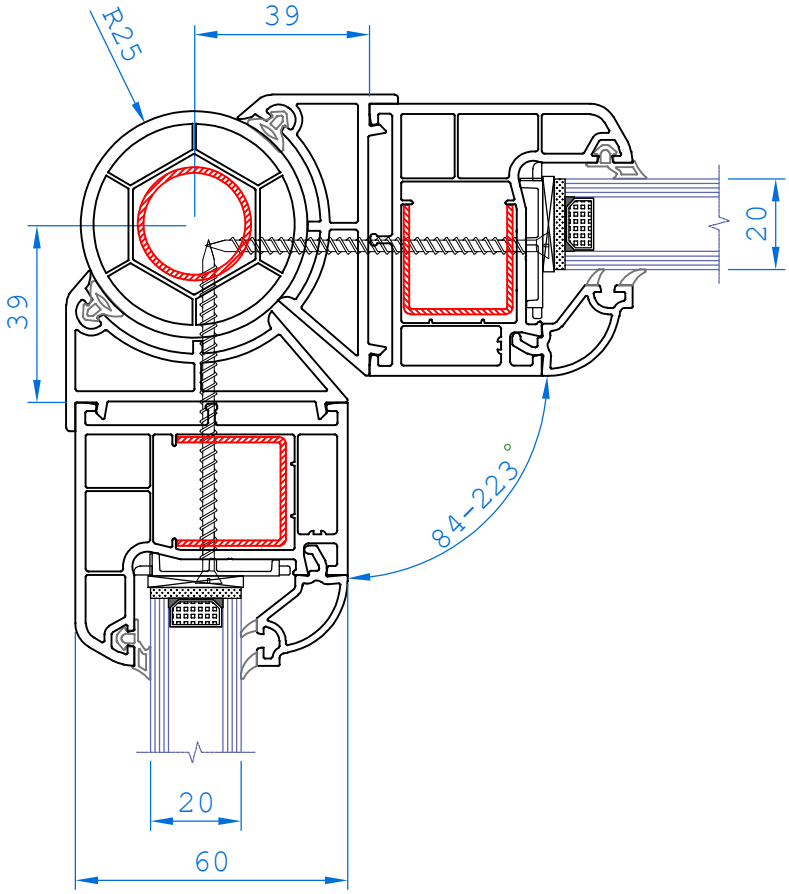
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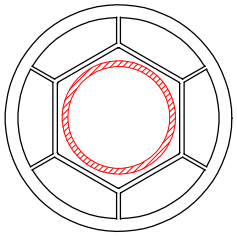

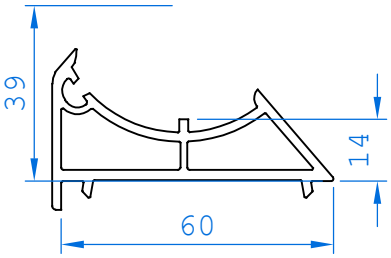
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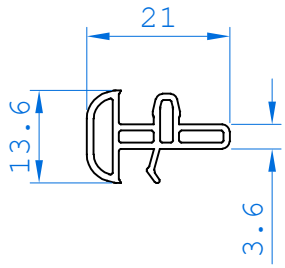
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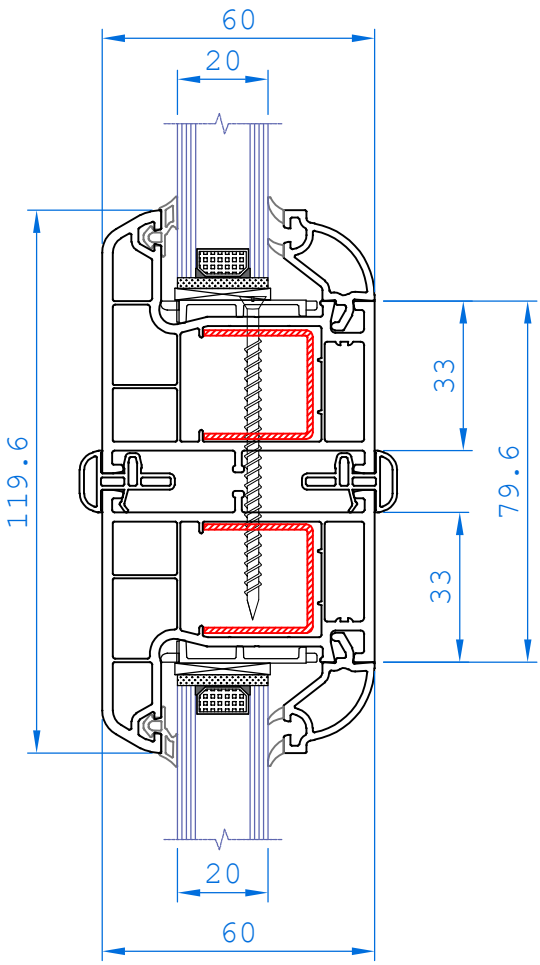
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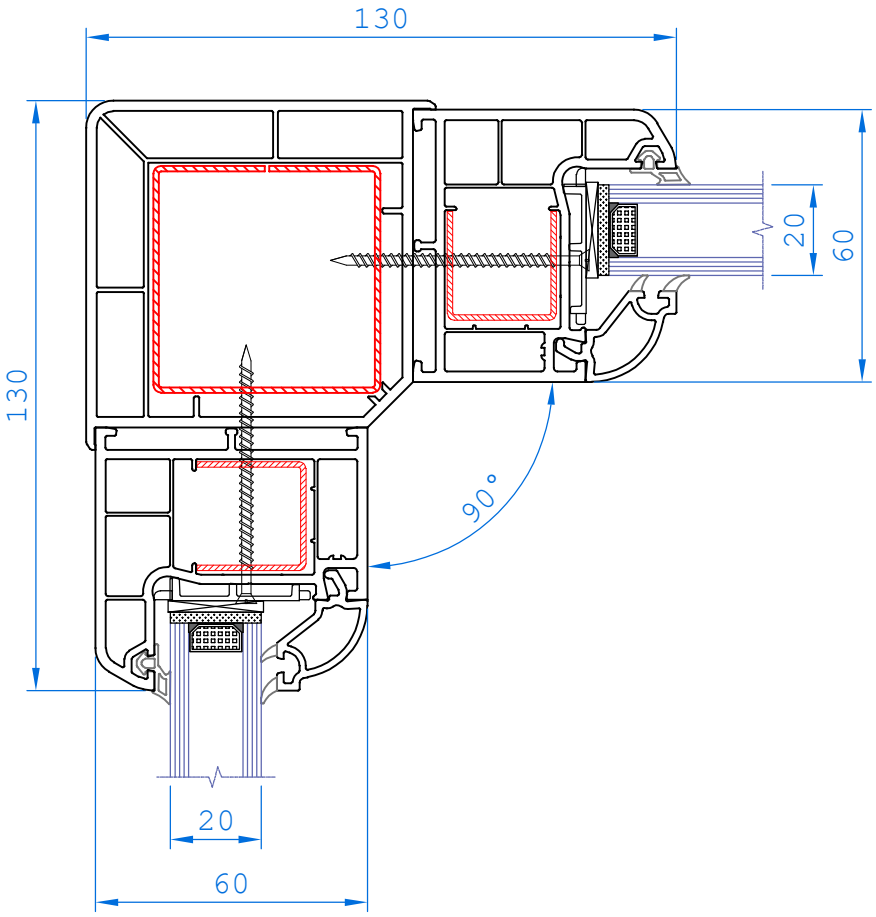
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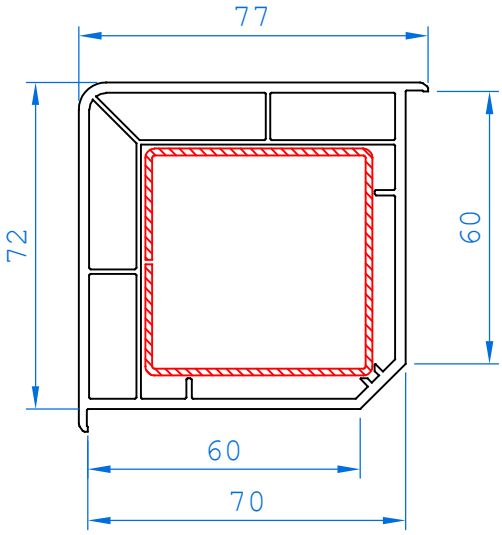
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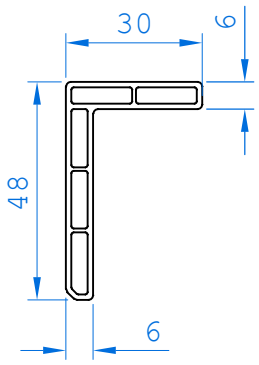
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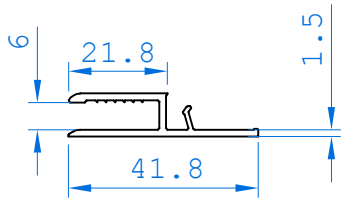
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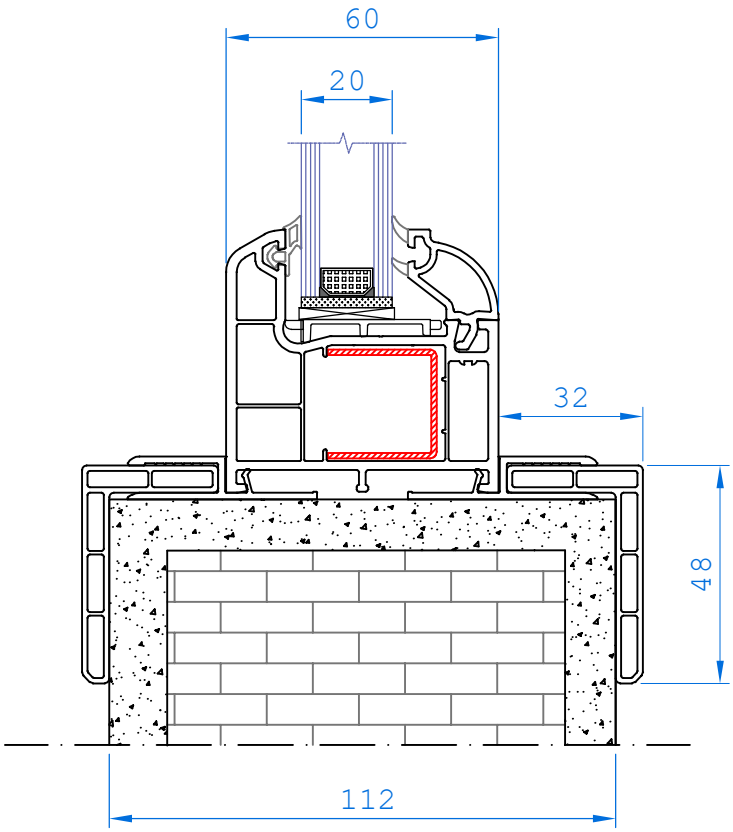
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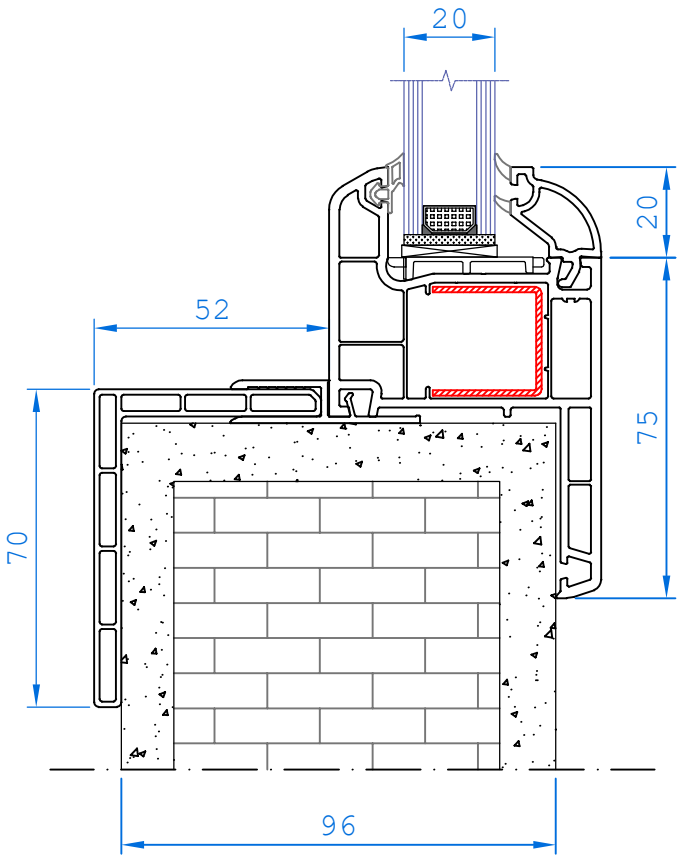
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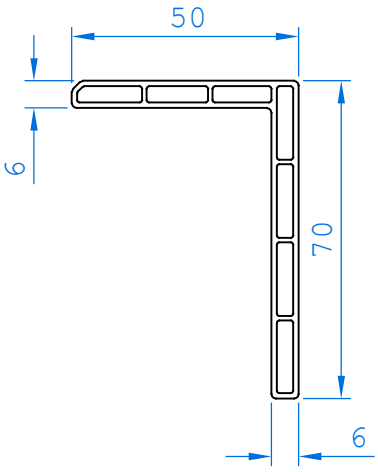
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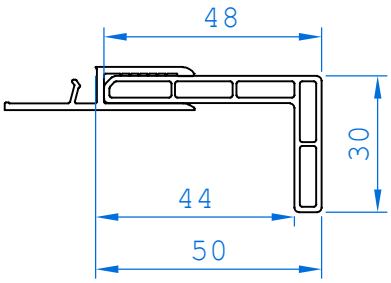
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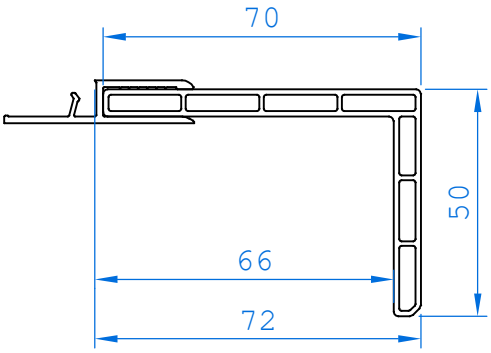
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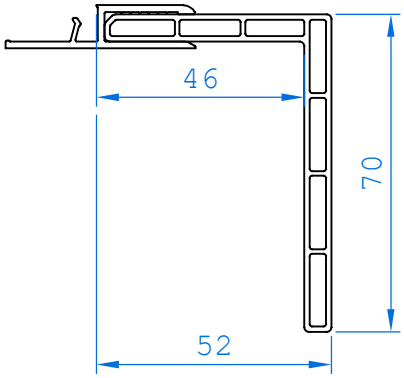
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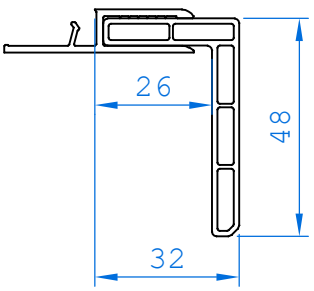
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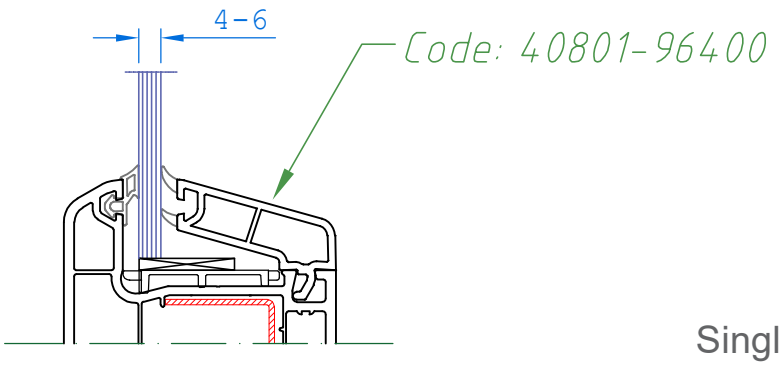
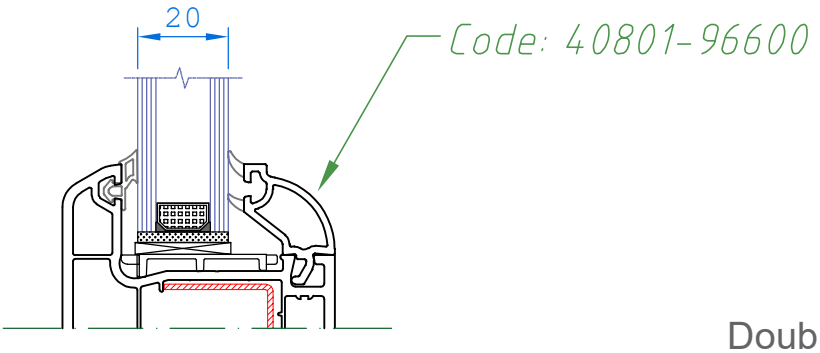
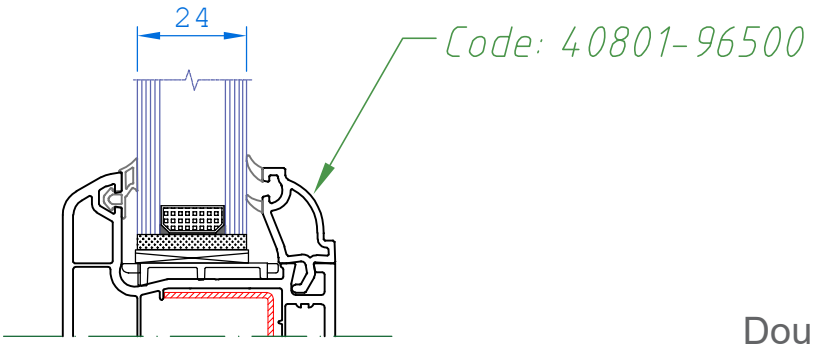


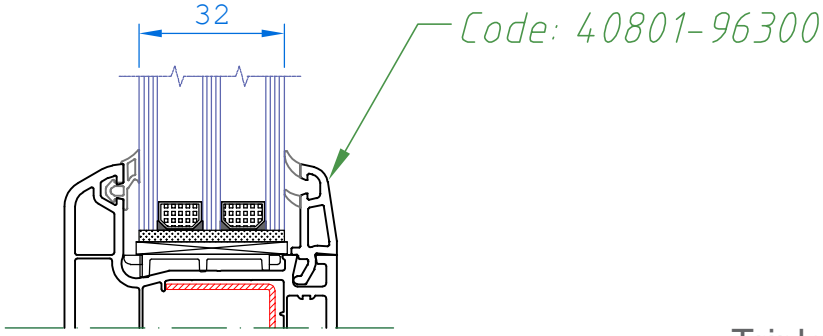
Single Glazed Bead 4 - 6 mm



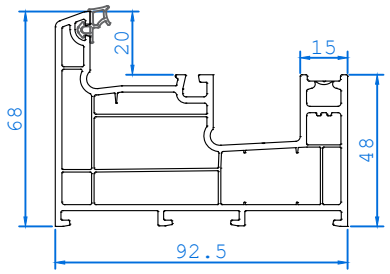
Double Glazed Bead 20 mm



Double Glazed Bead 24 mm



Triple Glazed Bead 32 mm



Single Rail Frame Profile
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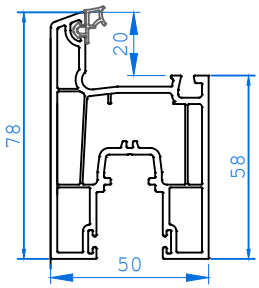

Sash Profile
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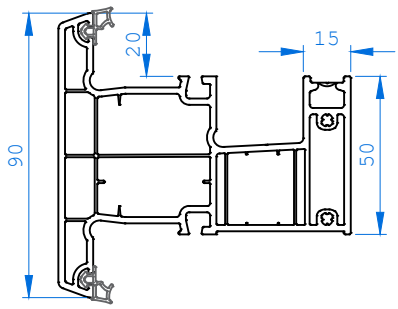

Sliding Mullion (Cornice) Profile
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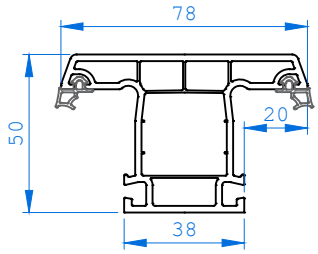
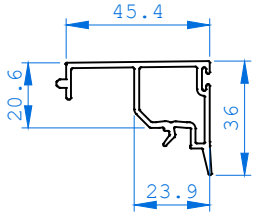
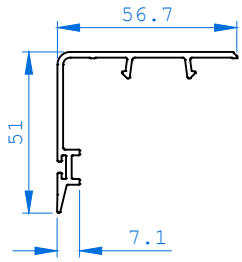


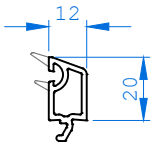
Mullion Profile
Code: 41250-93000



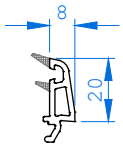
Frame Cover Profile (Single Rail)
Code: 41250-06000



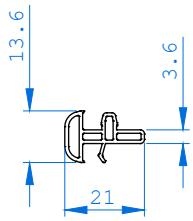
Sash Cover Profile
Code: 41250-04000



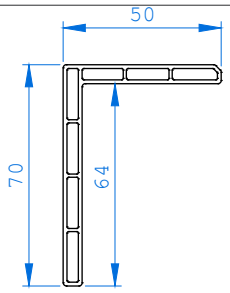
Double Glazing Bead profile (20mm)
Code: 40801-96700



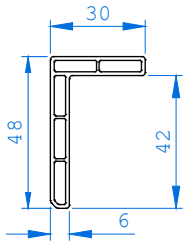
Double Glazing Bead Profile (24mm)
Code: 40801-96300



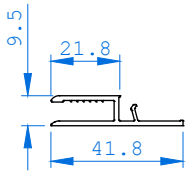
Coupling Profile
Code: 40106-01000



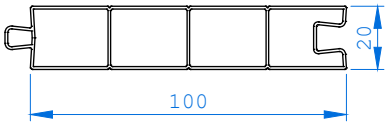
Sill (border) Profile 50x70 mm
Code: 40108-02000



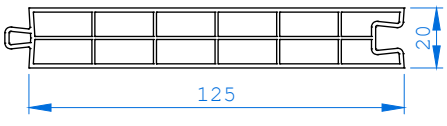
Sill (border) Profile 30x48 mm
Code: 40108-01000



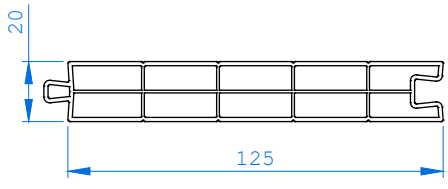
Holder Profile
Code: 40106-04000



Panel Profile (20x100 mm)
Code: 40802-03000

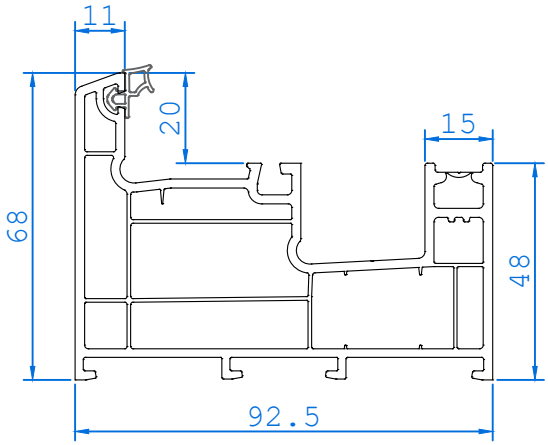


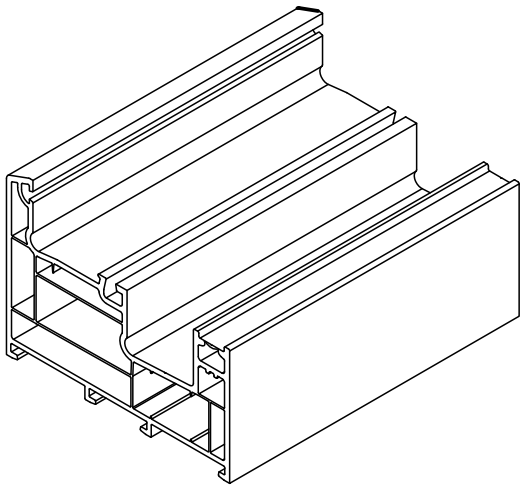
Panel Profile (20x125 mm)
Code: 40802-04000

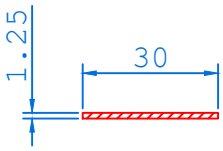


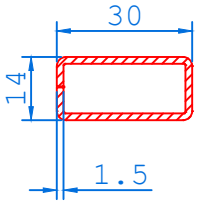
Panel Profile (With Groove)
Code: 40802-02000

Single Rail Frame Profile







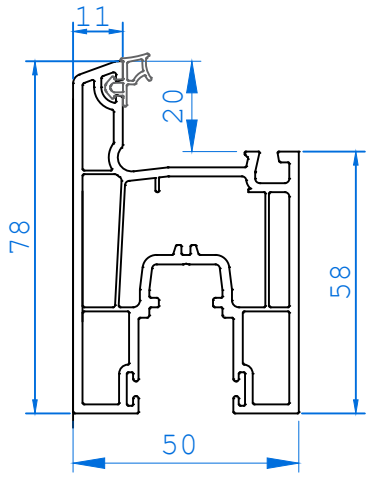


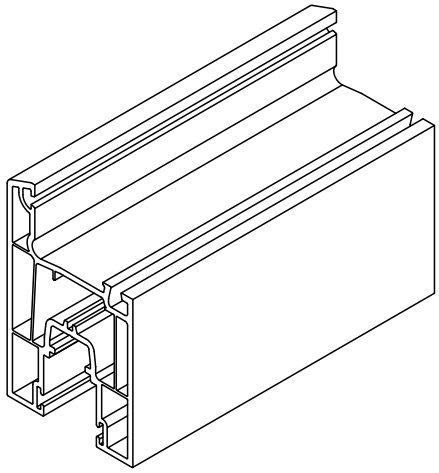
Quantity in the package: 4 x 6mt =24 meters

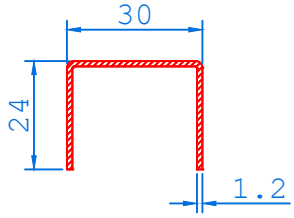
Profile Code			Inside Lmainate	Outside Lmainate
White / Without Rubber	○	*********		
White / With Rubber	●	41250-92000		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Sash Profile





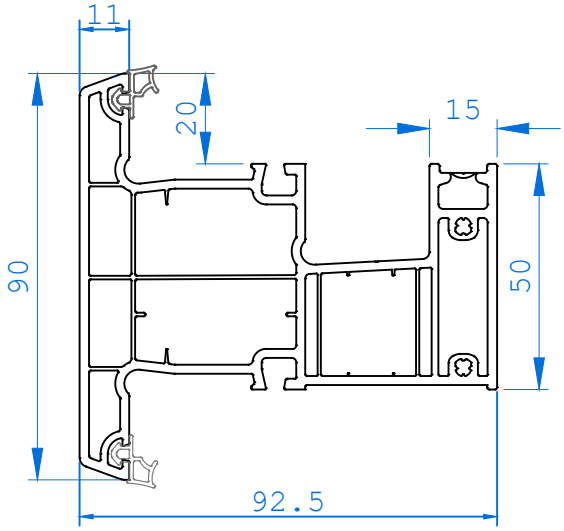


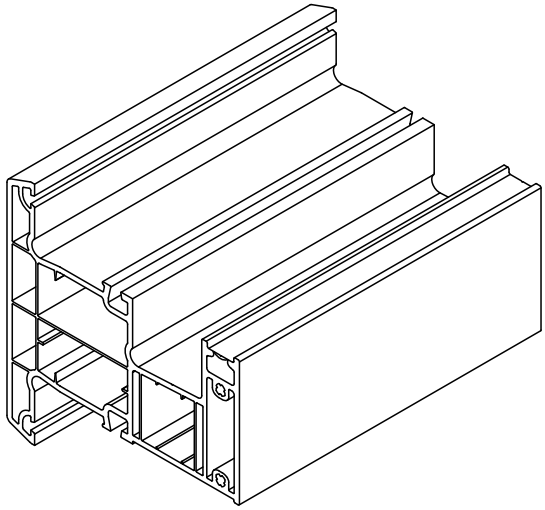
Quantity in the package: 6 x 6mt =36 meters

Profile Code			Inside Lmainate	Outside Lmainate
White / Without Rubber	○	*********		
White / With Rubber	●	41250-95000		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Sliding Mullion (Cornice) Profile

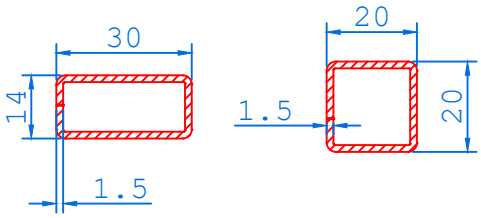




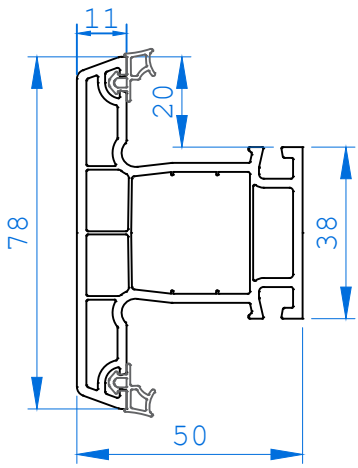
Quantity in the package:4 x 6mt =24 meters

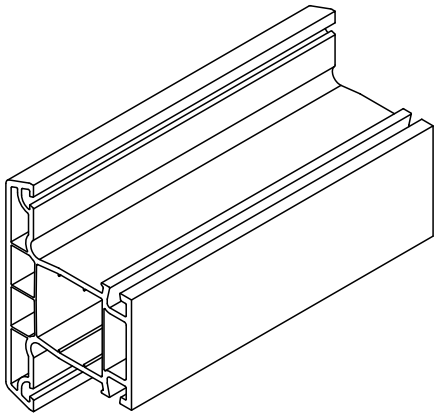
Profile Code			Inside Lmainate	Outside Lmainate
White / Without Rubber	○	*********		
White / With Rubber	●	41250-97000		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber



Mullion Profile

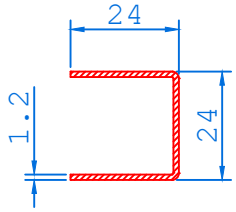




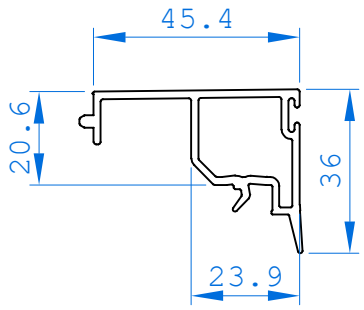
Quantity in the package: 6 x 6mt =36 meters

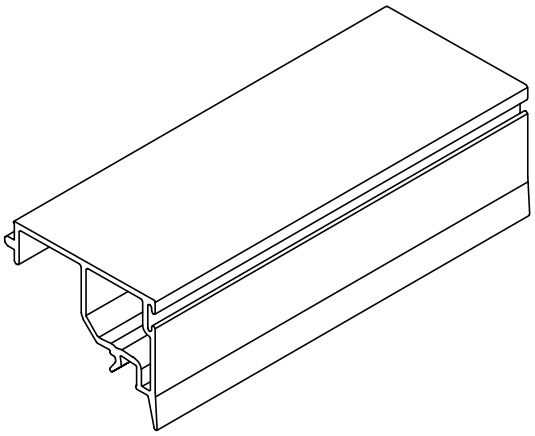
Profile Code			Inside Lmainate	Outside Lmainate
White / Without Rubber	○	*********		
White / With Rubber	●	41250- 93000		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber



Frame Cover Profile



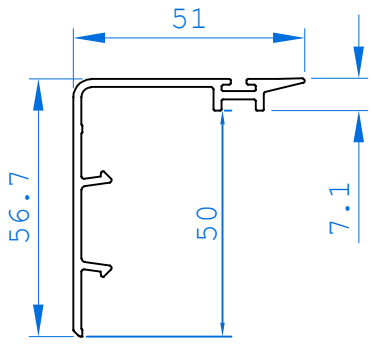


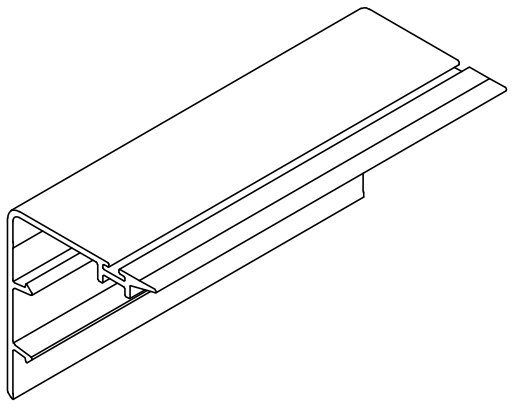
Quantity in the package: 20 x 6mt =120 meters

Profile Code					
	White / Without Rubber	○	41250- 06000	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	*********		
	Brown Laminate / Golden Oak	○	*********	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Sash Cover Profile



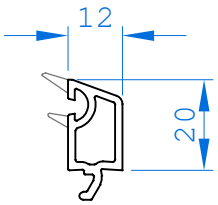


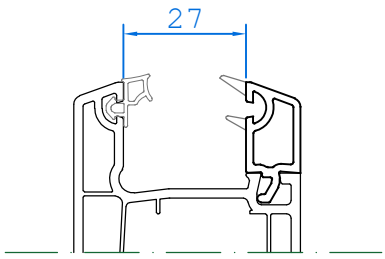
Quantity in the package: 30 x 6mt =180 meters

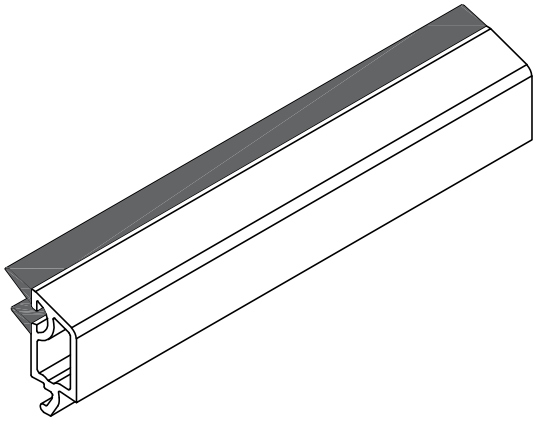
Profile Code					
	White / Without Rubber	○	41250- 04000	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	*********		
	Brown Laminate / Golden Oak	○	*********	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

20mm Double Glazing Bead Profile





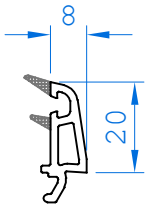


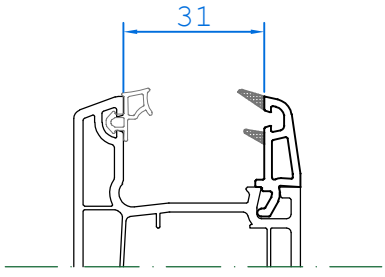
Quantity in the package: 30 x 6mt =180 meters

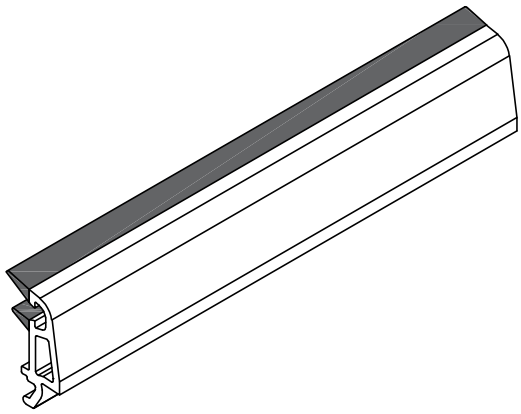
Profile Code			Inside Lmainate	Outside Lmainate
White / Without Rubber	○	*********	Inside Lmainate	Outside Lmainate
White / With Rubber	●	40801- 96700		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

24mm Double Glazing Bead Profile





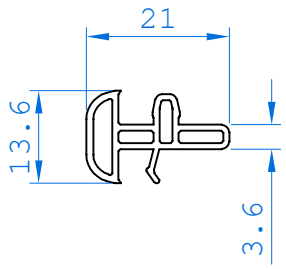


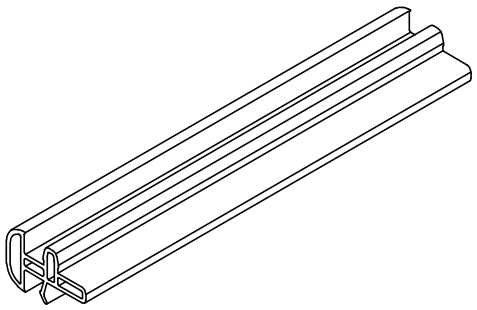
Quantity in the package: 30 x 6mt =180 meters

Profile Code			Inside Lmainate	Outside Lmainate
White / Without Rubber	○	*********	Inside Lmainate	Outside Lmainate
White / With Rubber	●	40801-96300		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Coupling Profile





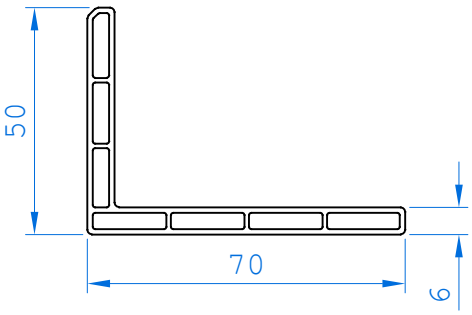
Scale= 1:1.5

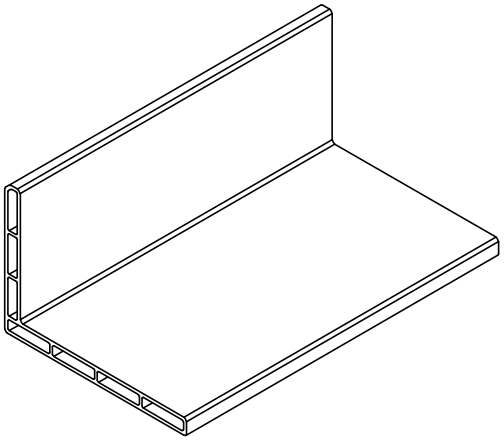
Quantity in the package: 30 x 6mt =180 meters

Profile Code			
	White / Without Rubber	○	40106- 01000
	White / With Rubber	●	*********
	Brown / Without Laminate	○	*********
	Gray / Without Laminate	○	*********
	*********	○	*********
	*********	○	*********

○ Without Rubber ● With Rubber

Sill (border) Profile - 50x70 mm



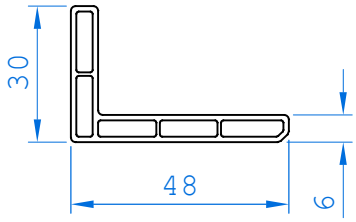


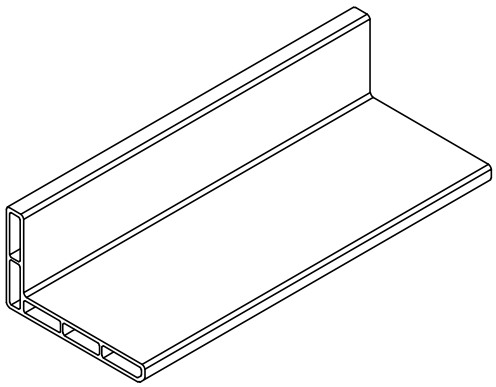
Quantity in the package: 12 x 6mt =72 meters

Profile Code					
	White / Without Rubber	○	40108- 02000	Inside Lmainate	Outside Lmainate
	White / With Rubber	●	*********		
	Brown Laminate / Golden Oak	○	*********	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Sill (border) Profile - 30x48 mm



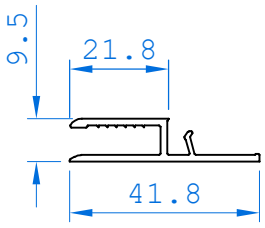


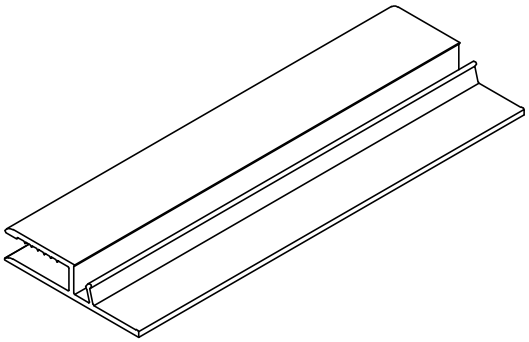
Quantity in the package: 12 x 6mt =72 meters

Profile Code			Inside Lmainate	Outside Lmainate
White / Without Rubber	○	40108- 01000		
White / With Rubber	●	*********		
Brown Laminate / Golden Oak	○	*********	*********	*********
Brown Laminate / Dark Oak	○	*********	*********	*********
Brown Laminate / Charcoal Brown	○	*********	*********	*********
Gray Laminate / Wintech Gray	○	*********	*********	*********

○ Without Rubber ● With Rubber

Holder Profile



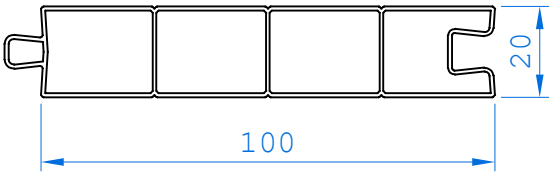


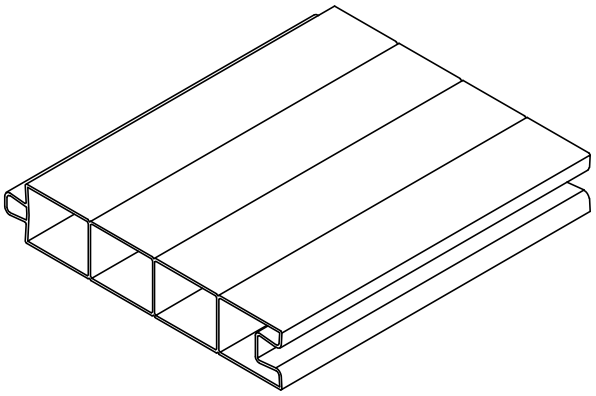
Quantity in the package: 20 x 6mt =120 meters

Profile Code			
White / Without Rubber	○	40106- 04000	
White / With Rubber	●	*********	
Brown / Without Laminate	○	*********	
Gray / Without Laminate	○	*********	
*********	○	*********	
*********	○	*********	

○ Without Rubber ● With Rubber

Panel Profile (20 x 100 mm)



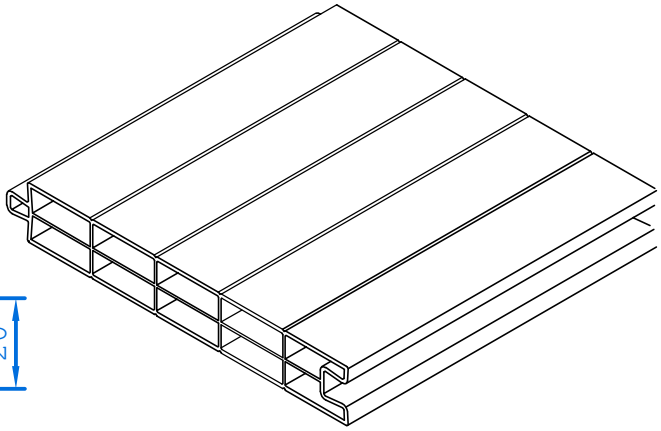


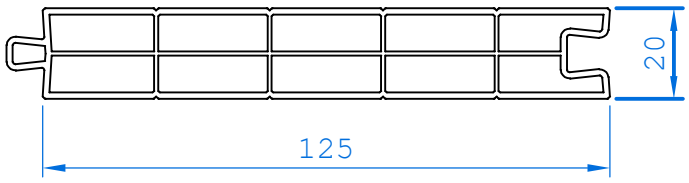
Quantity in the package: 6 x 6mt =36 meters

Profile Code				
	White / Without Rubber	○	40802- 03000	One side Lmainate *
	White / With Rubber	●	*********	
	Brown Laminate / Golden Oak	○	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********

○ Without Rubber ● With Rubber

Panel Profile (20 x 125 mm- Groove)



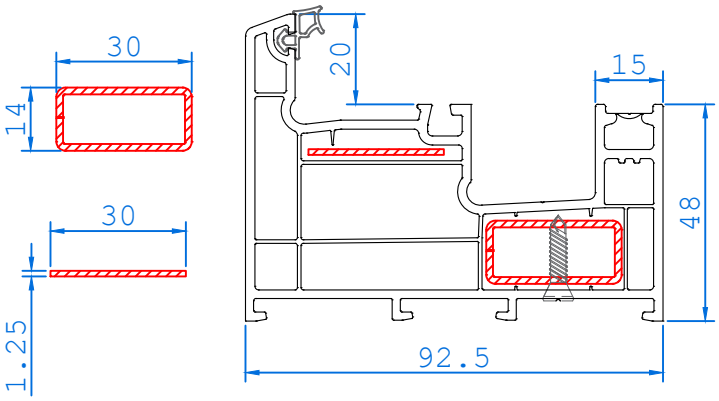


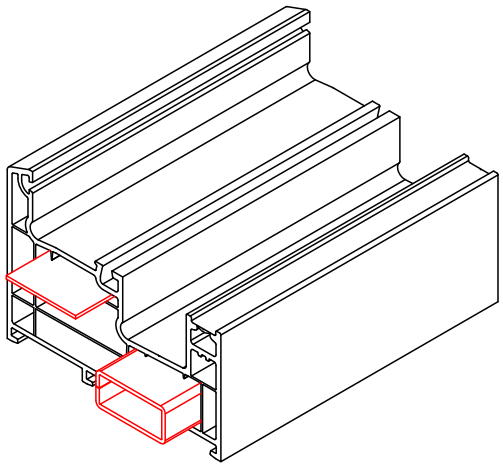
Quantity in the package: 6 x 6mt =36 meters

Profile Code				
	White / Without Rubber	○	40802- 02000	One side Lmainate
	White / With Rubber	●	*********	
	Brown Laminate / Golden Oak	○	*********	*********
	Brown Laminate / Dark Oak	○	*********	*********
	Brown Laminate / Charcoal Brown	○	*********	*********
	Gray Laminate / Wintech Gray	○	*********	*********

○ Without Rubber ● With Rubber

Galvanized Reinforcing Profile Systems

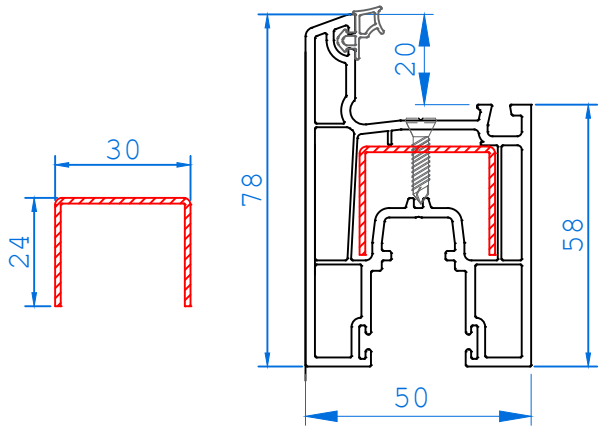


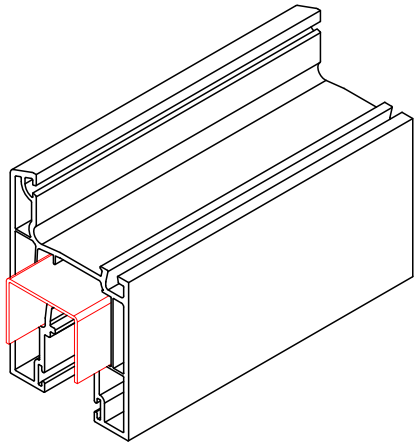


Thickness	Ix $(cm)^4$	Iy $(cm)^4$	Area	Weight
1.25 mm	0.32	1.09	100.7	793 gr /mt
1.5 mm	0.37	1.26	119.2	940 gr /mt
2 mm	0.45	1.60	156.2	1230 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems

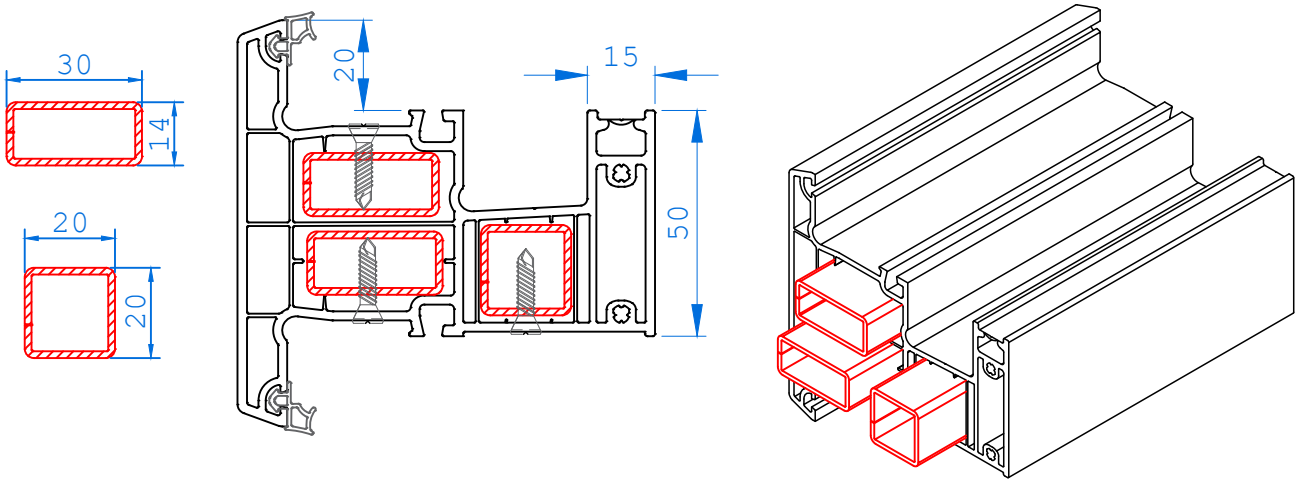




Thickness	Ix $(cm)^4$	Iy $(cm)^4$	Area	Weight
1.25 mm	0.56	1.43	93.4	736 gr /mt
1.5 mm	0.66	1.69	111.6	880 gr /mt
2 mm	0.86	2.15	147.2	1160 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems

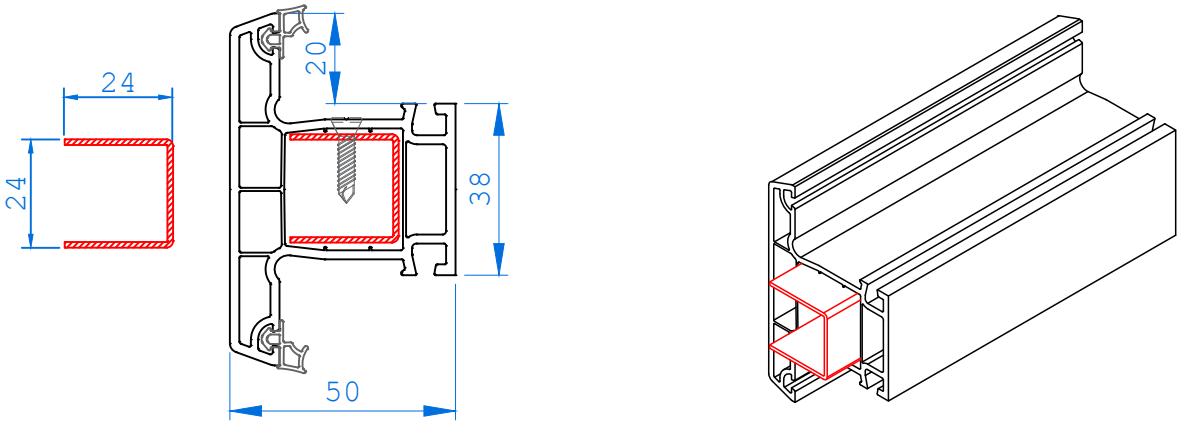


Thickness	Ix (cm)^4	Iy (cm)^4	Area	Weight
1.25 mm	0.32	1.09	100.7	793 gr /mt
1.5 mm	0.37	1.26	119.2	940 gr /mt
2 mm	0.45	1.60	156.2	1230 gr /mt

Thickness	Ix (cm)^4	Iy (cm)^4	Area	Weight
1.25 mm	0.52	0.52	90.5	713 gr /mt
1.5 mm	0.6	0.6	107	843 gr /mt
2 mm	0.75	0.75	140	1103 gr /mt

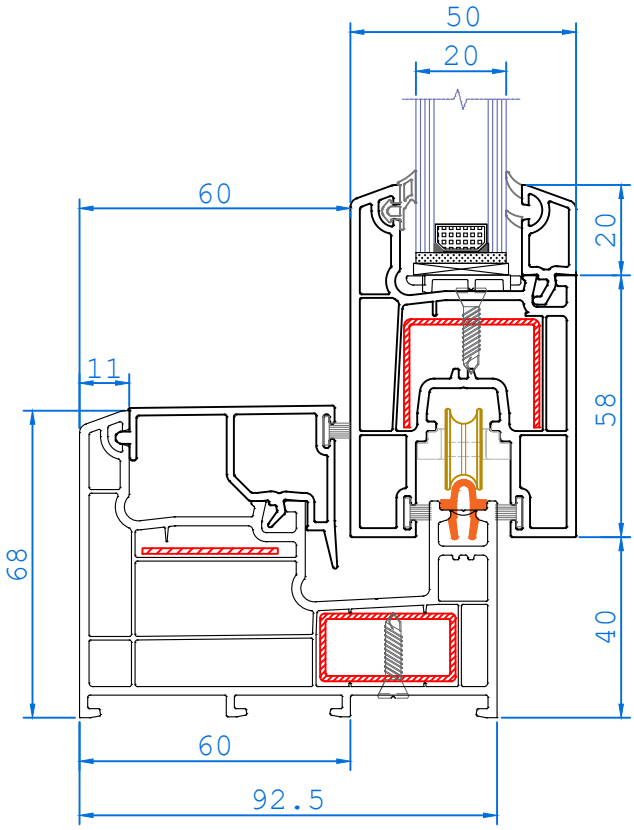
Reinforced profiles with a thickness of less than 1.25 mm are not approved.

Galvanized Reinforcing Profile Systems



Thickness	Ix (cm)^4	Iy (cm)^4	Area	Weight
1.25 mm	0.86	0.52	85	670 gr /mt
1.5 mm	1.01	0.61	102	803 gr /mt
2 mm	1.28	0.79	135	1063 gr /mt

Reinforced profiles with a thickness of less than 1.25 mm are not approved.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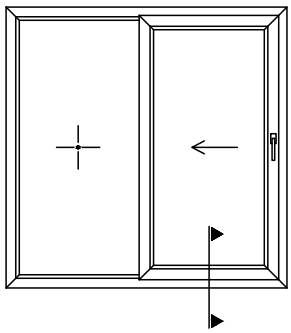

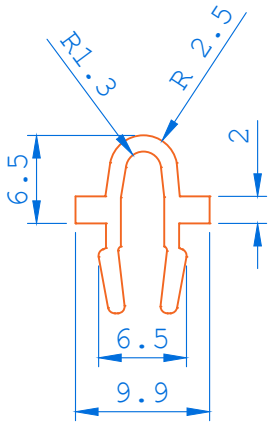
R1.3
R 2.5
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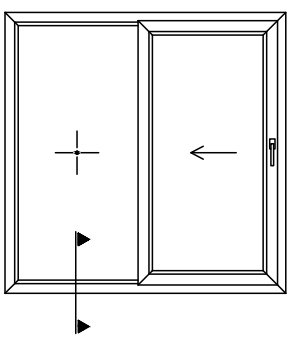
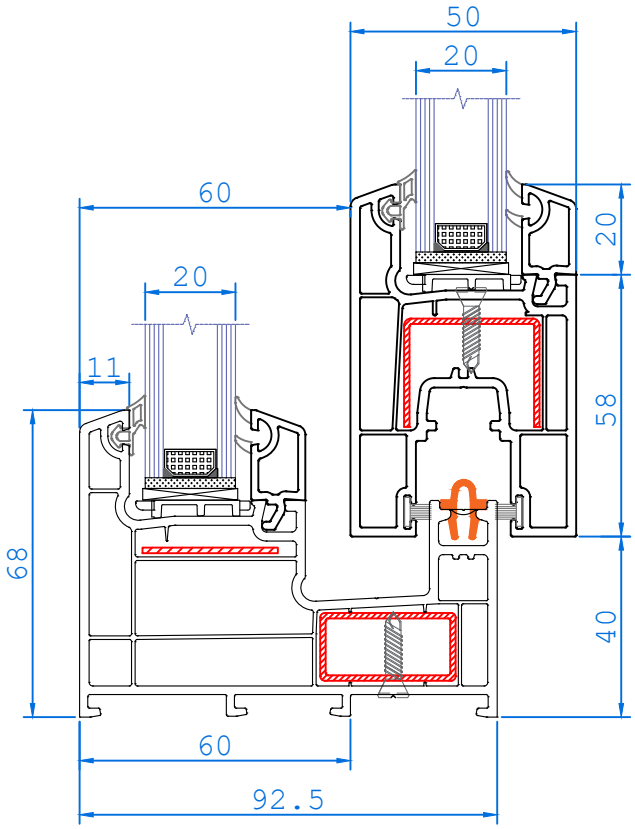
6.5
9.9

Scale = 3:1

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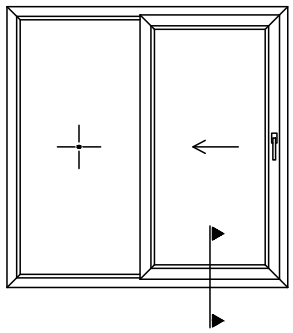
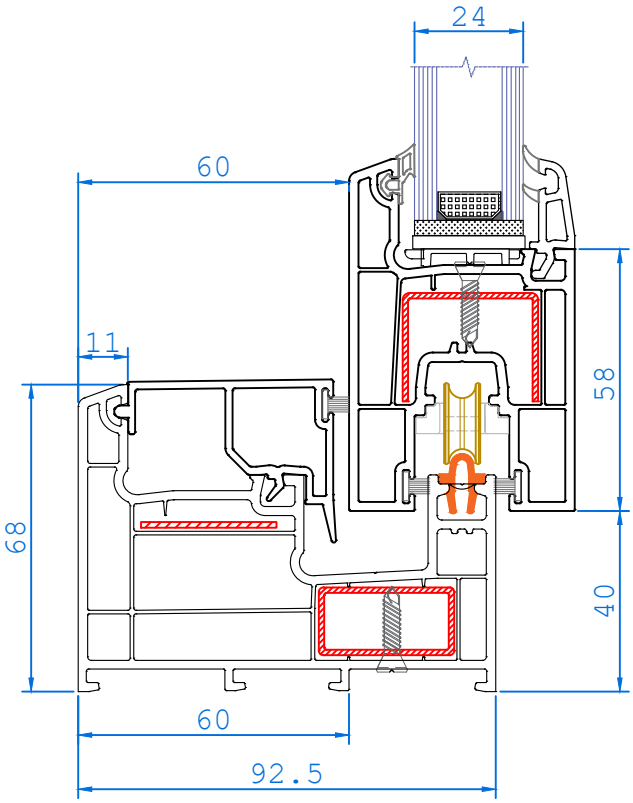
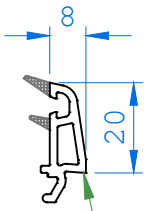
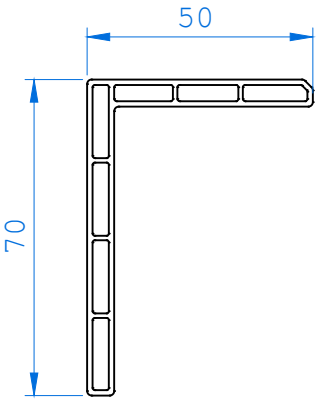
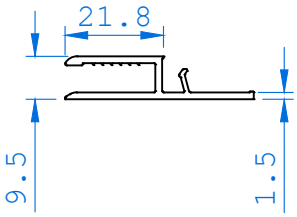


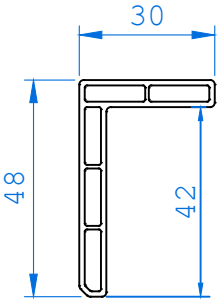


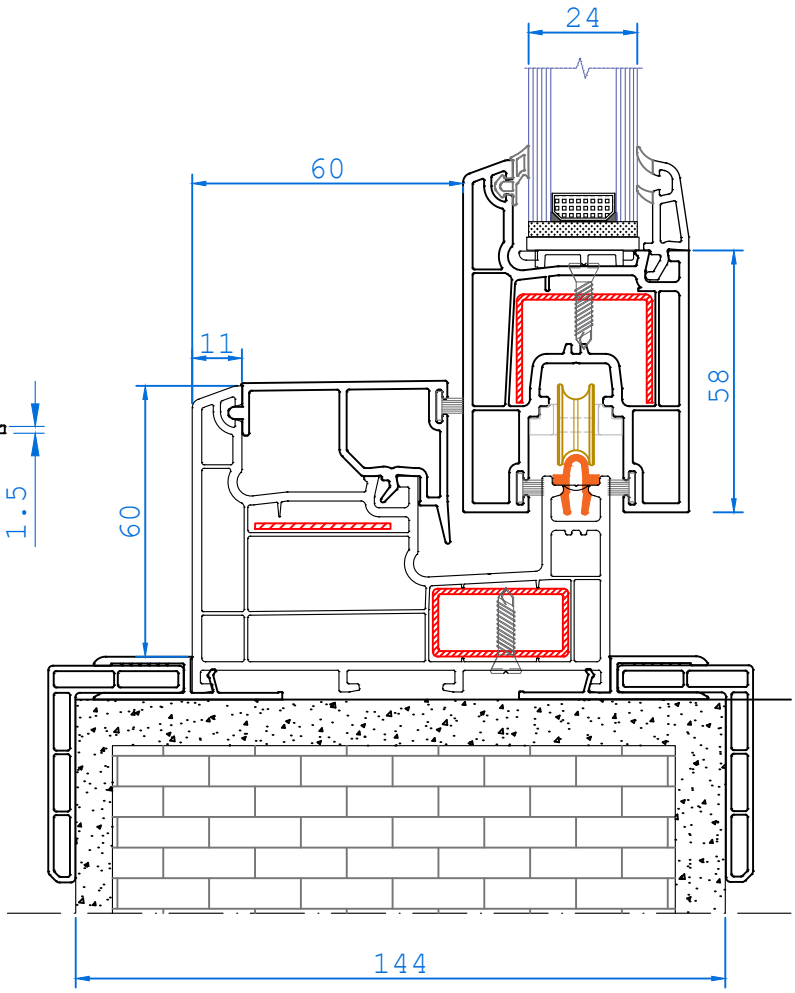


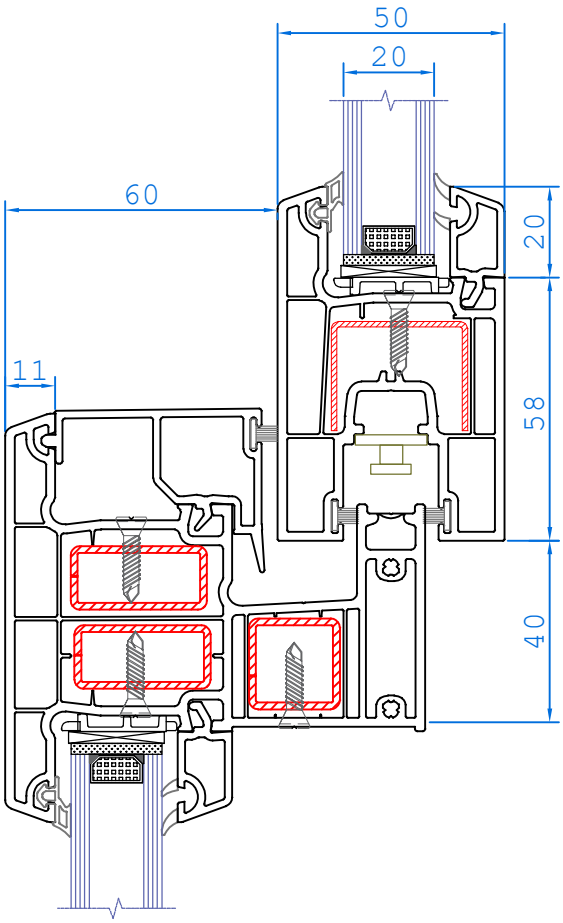
24mm Double glazing bead







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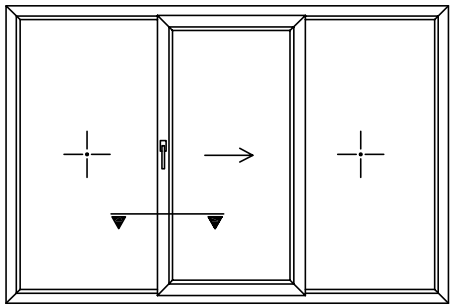

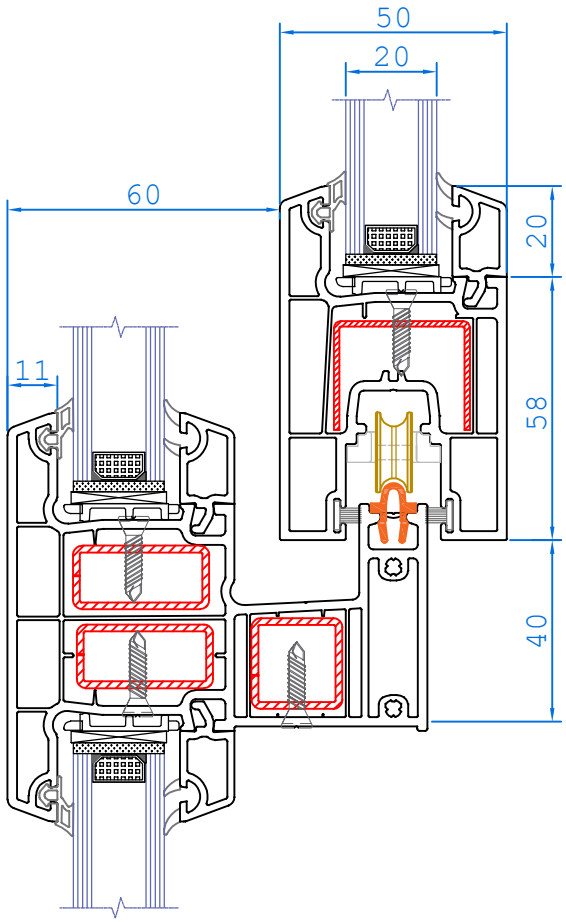
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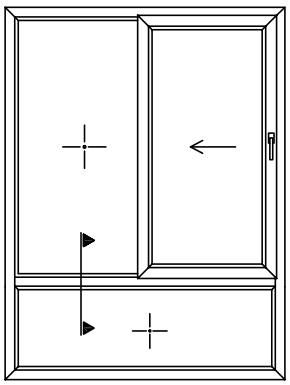
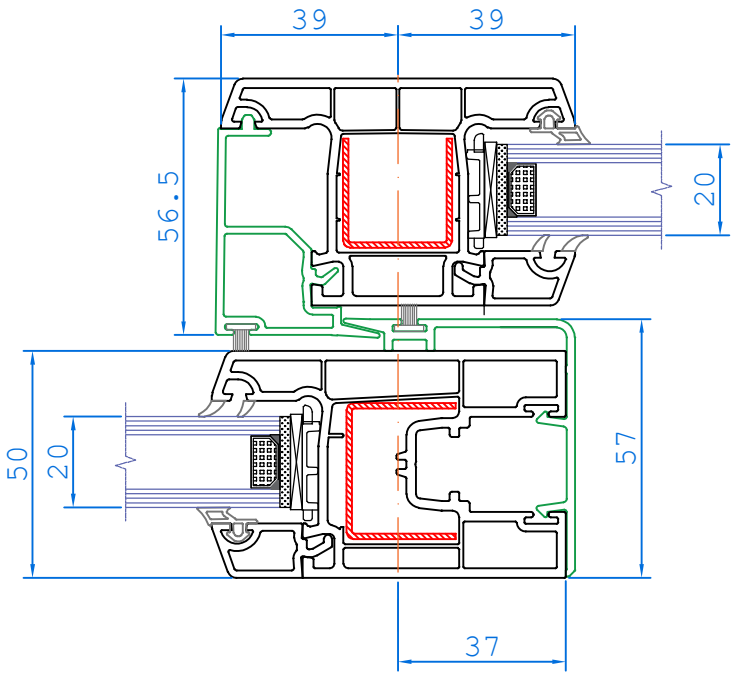
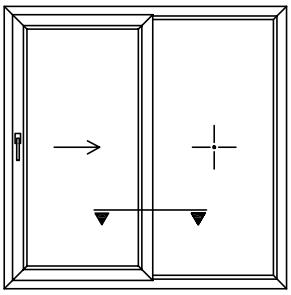
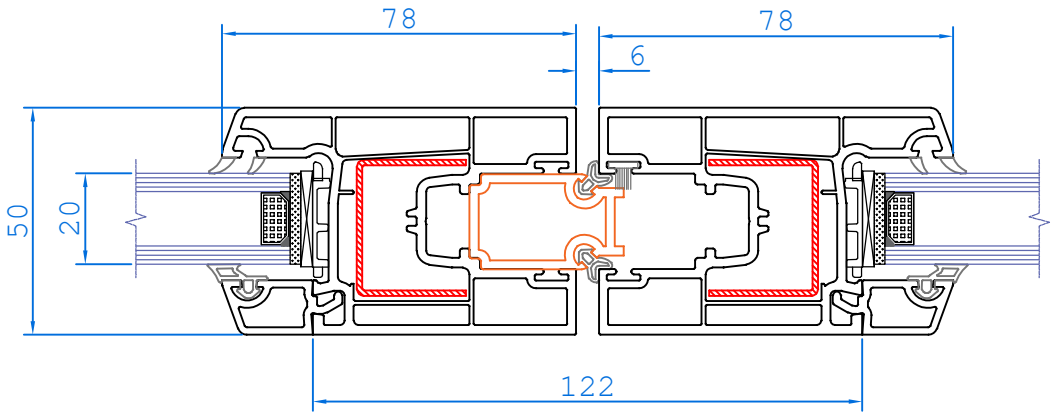
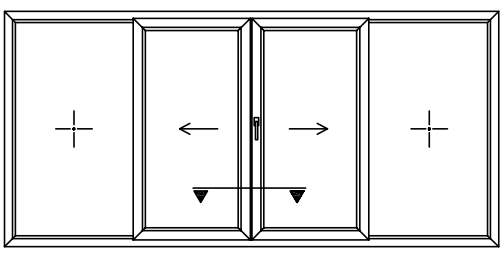


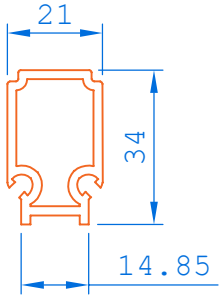




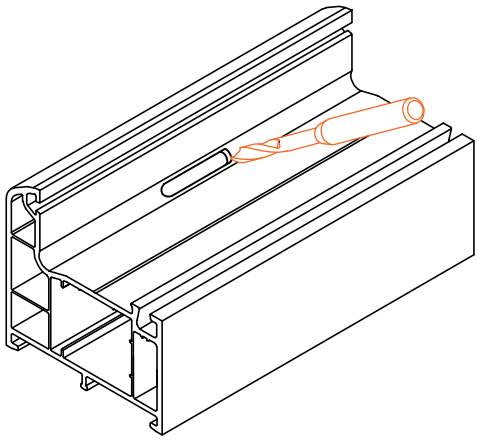


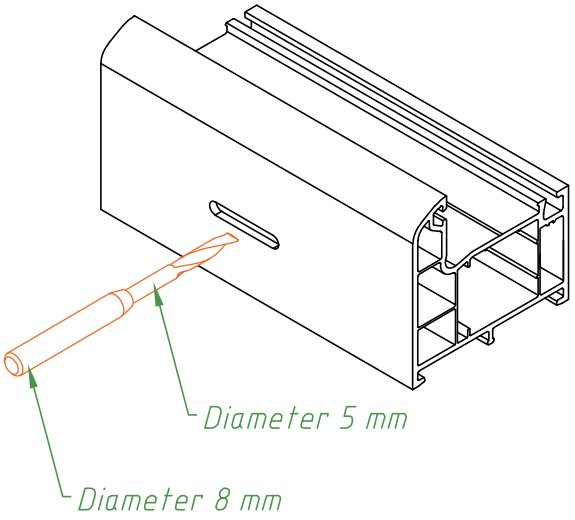


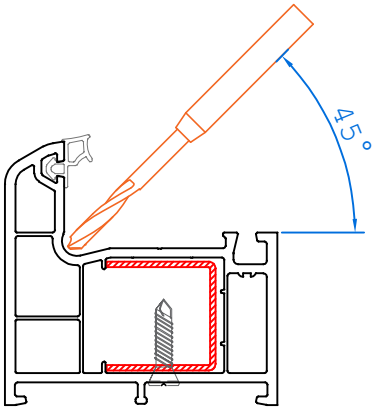
Alm Adaptor profile
Code : 34025-12010 (White)
Code : 34025-12011 (Brown)

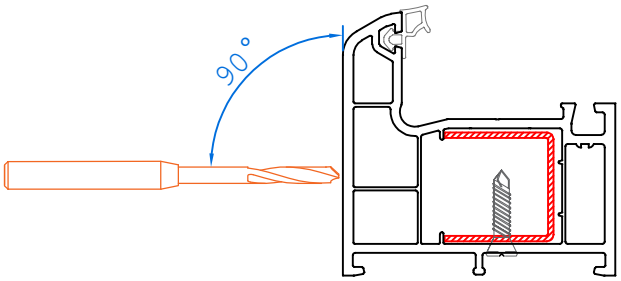


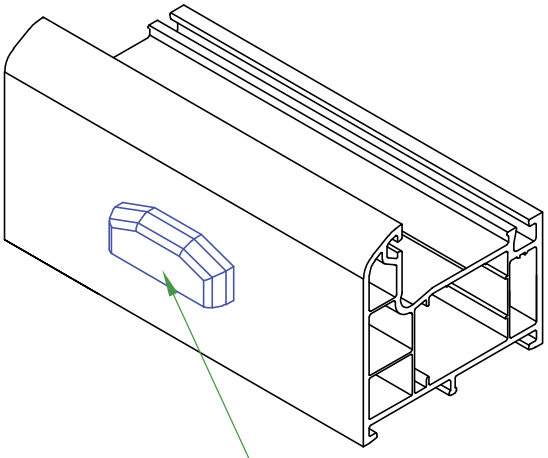
Drainage And Smoothing Out Pressure Holes

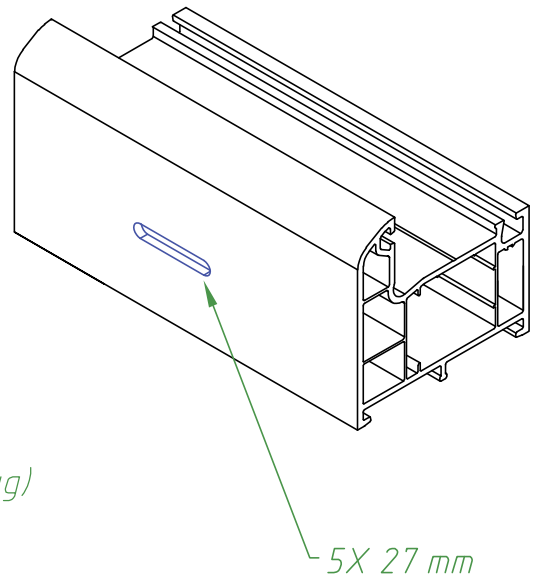




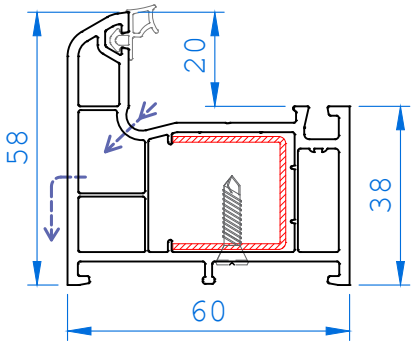


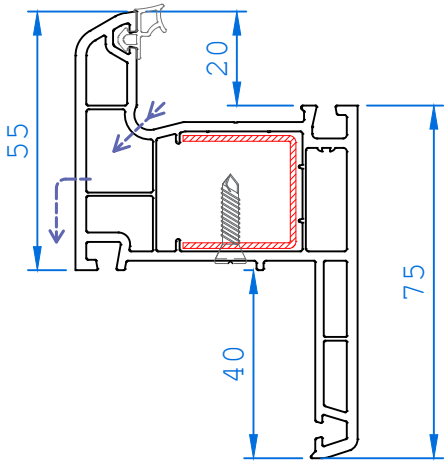


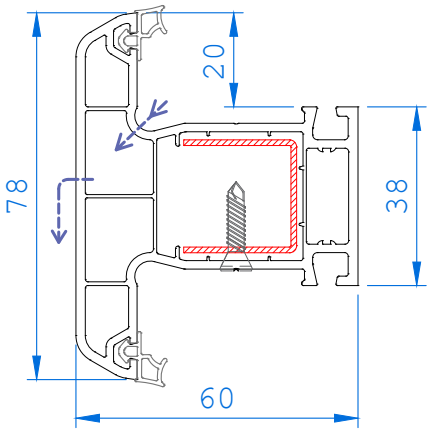


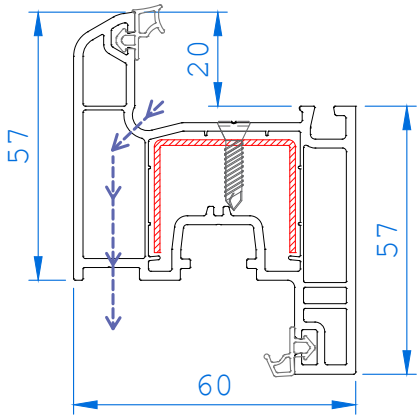


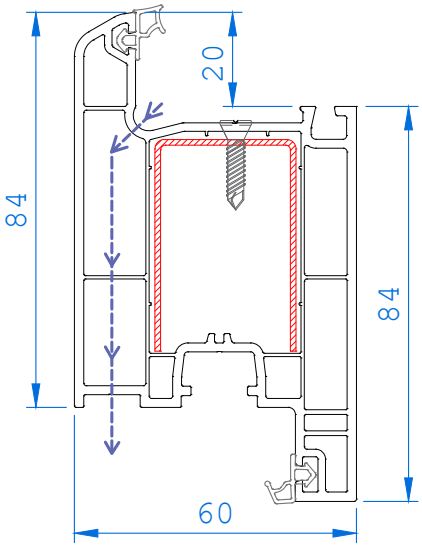
Drainage And Smoothing Out Pressure Holes





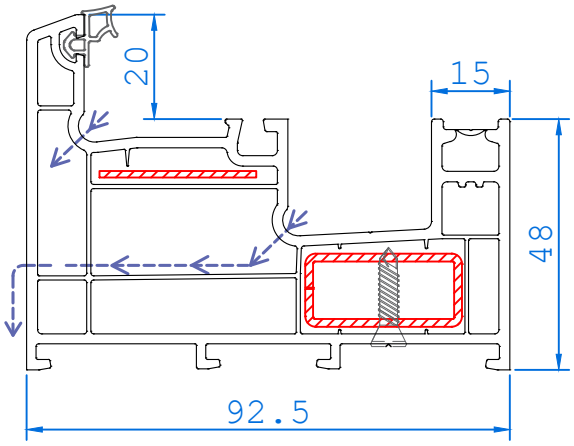


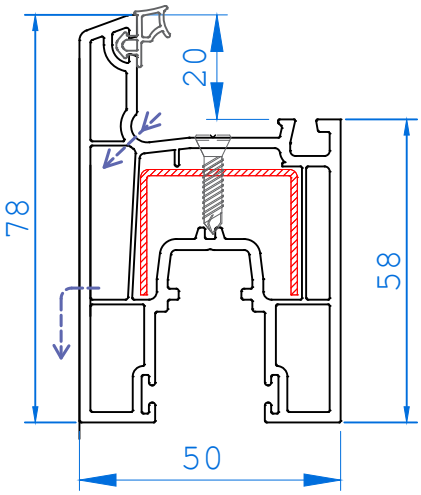


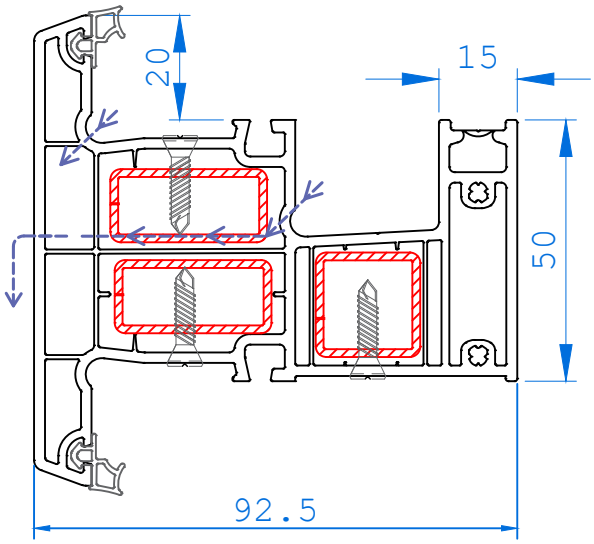


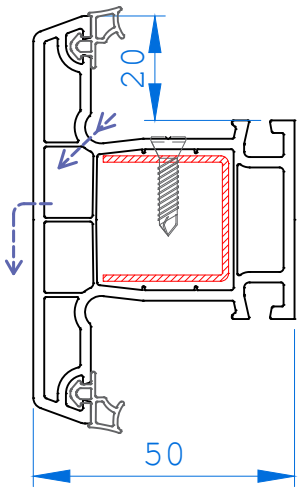
Profile Section Length - X<500 mm1- Hole
500mm<x-profile section's lenght<1000mm - 2 holes
1000mm<x-profile section's lenght<2000mm - 3 holes
2000mm<x-profile section's lenght<3000mm - 3 holes

Drainage And Smoothing Out Pressure Holes



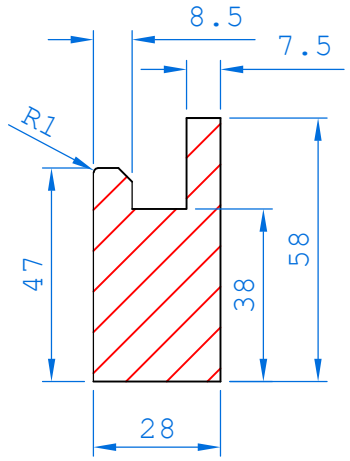


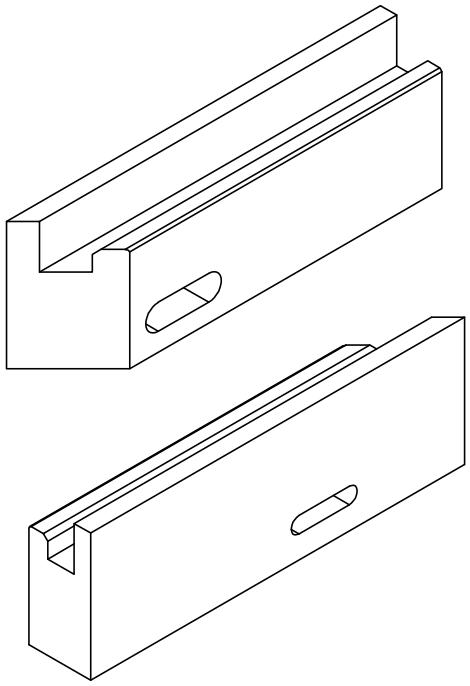




Profile Section Length - X<500 mm1- Hole
500mm<x-profile section's lenght<1000mm - 2 holes
1000mm<x-profile section's lenght<2000mm - 3 holes
2000mm<x-profile section's lenght<3000mm - 3 holes

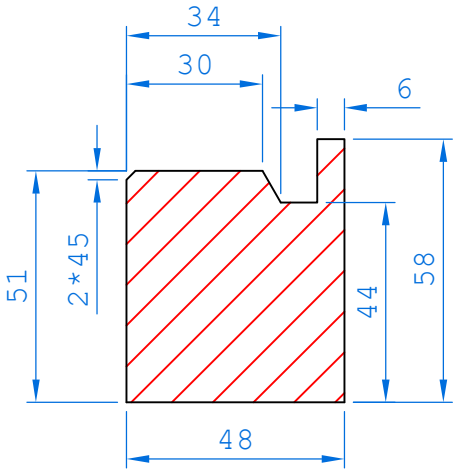
Accessories (welding mold systems)

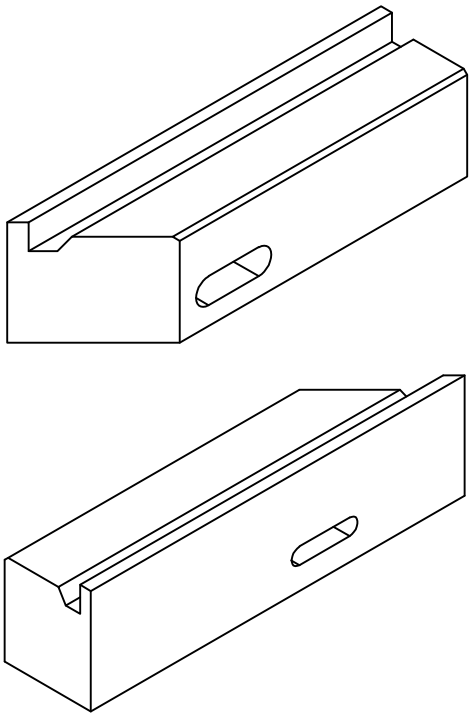




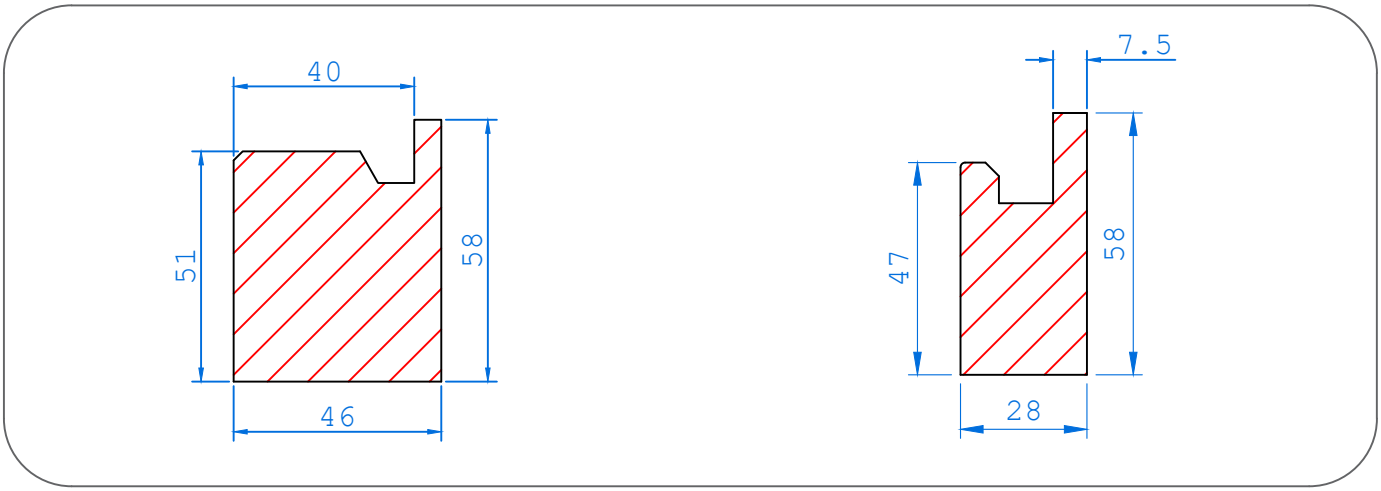
Technical Code	Machine name	Single head	Double head
	KABAN Machines	36401-12100	36401-12200
	MURAT Machines	36402-12100	36402-12200
	OZGENC Machines	36403-12100	36403-12200
	YILMAZ Machines	36404-12100	36404-12200

Accessories (welding mold systems)





Technical Code	Machine name	Single head	Double head
	KABAN Machines	36241-16100	36241-16200
	MURAT Machines	36242-16100	36242-16200
	OZGENC Machines	36243-16100	36243-16200
	YILMAZ Machines	36244-16100	36244-16200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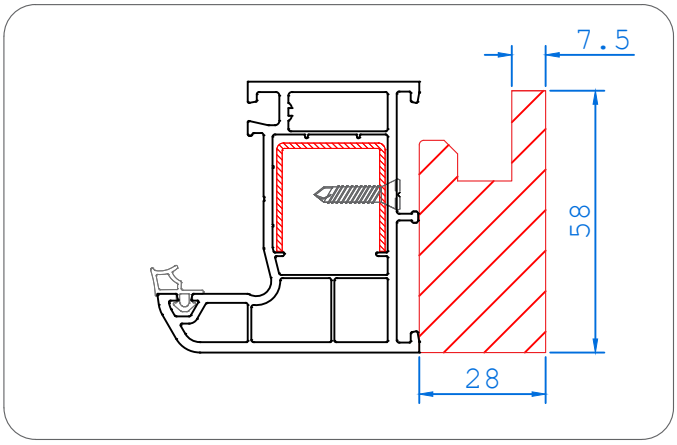
58
46
7.5
47
58
28


7.5
58
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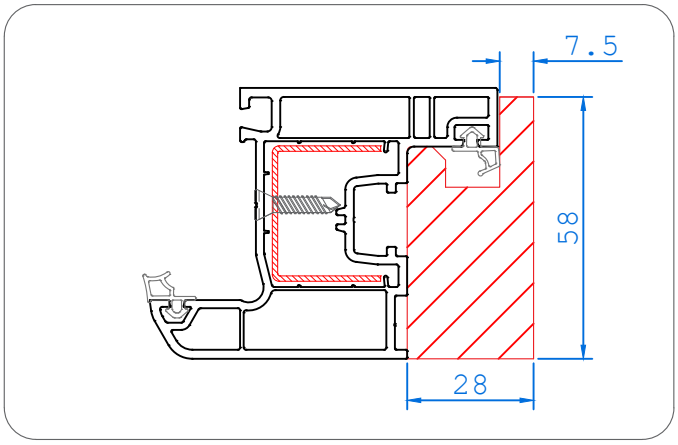
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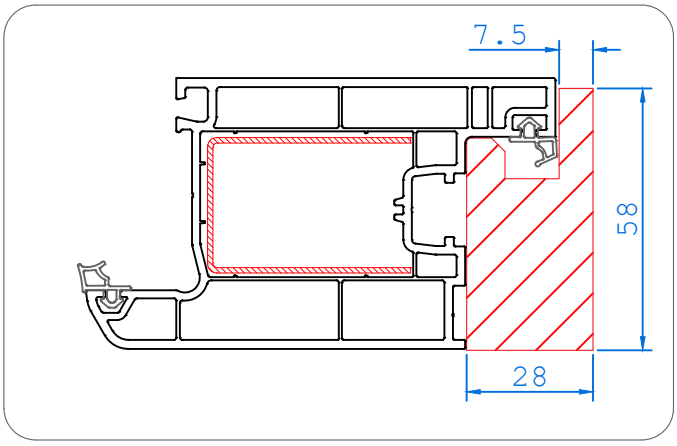
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58
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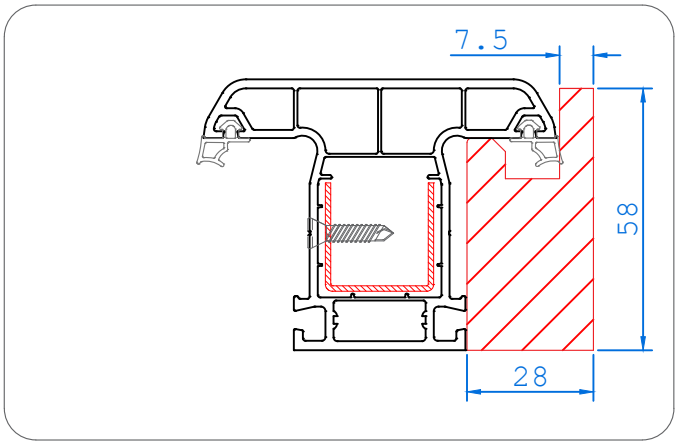
7.5
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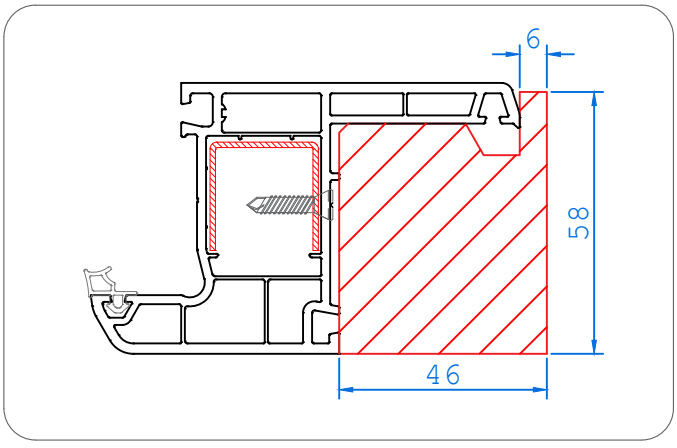
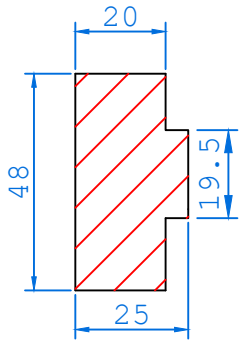
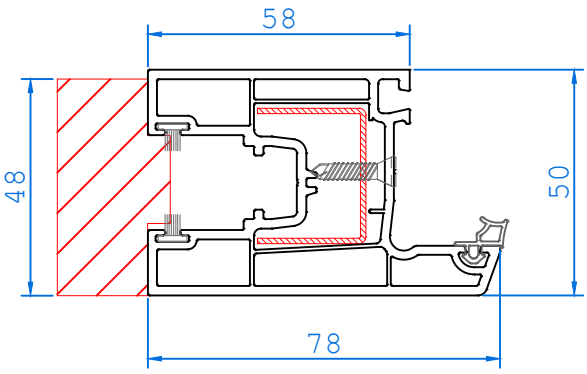
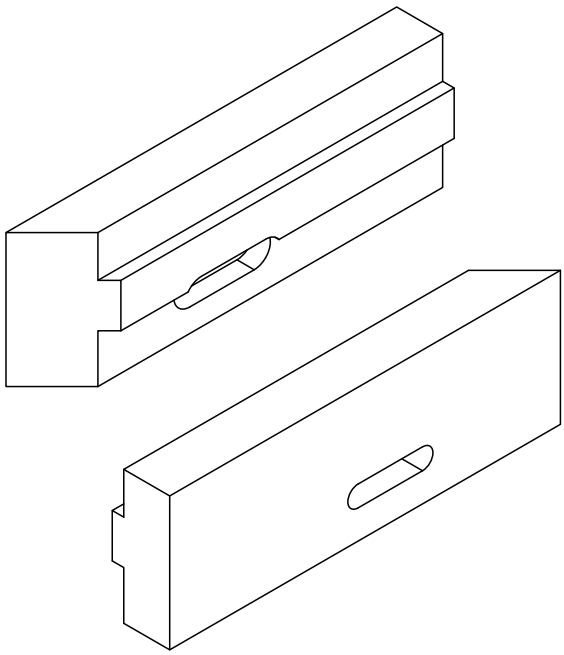

6
58
46

Accessories (welding mold systems)

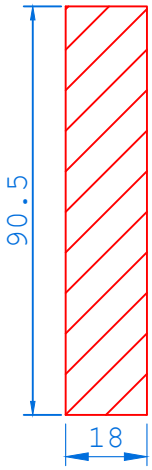


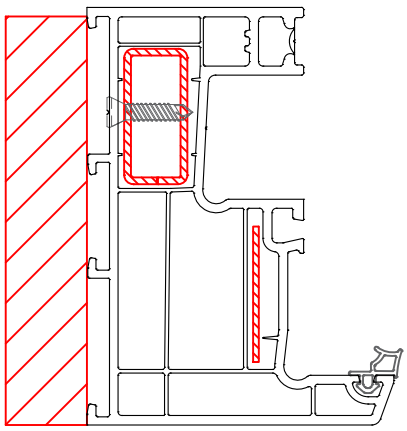


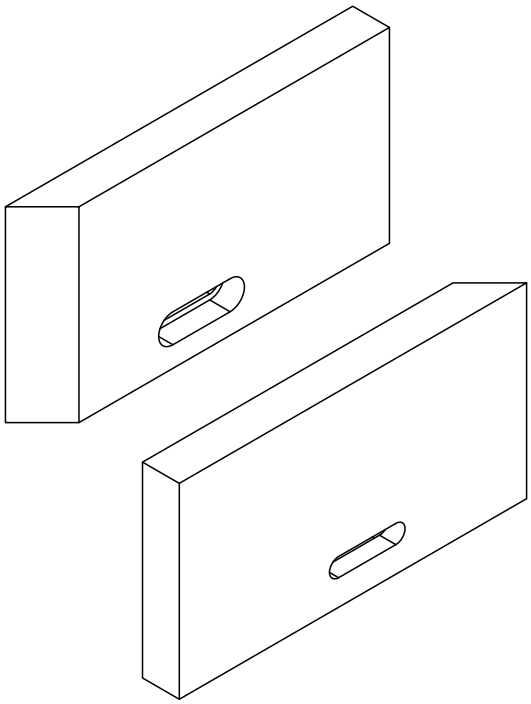


Technical Code	Machine name	Single head	Double head
	KABAN Machines	32601-21100	32601-21200
	MURAT Machines	32602-21100	32602-21200
	OZGENC Machines	32603-21100	32603-21200
	YILMAZ Machines	32604-21100	32604-21200

Accessories (welding mold systems)

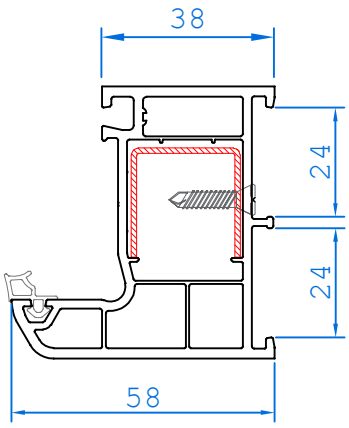


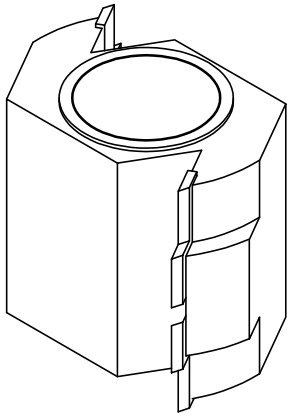




Technical Code	Machine name	Single head	Double head
	KABAN Machines	32601-19100	32601-19200
	MURAT Machines	32602-19100	32602-19200
	OZGENC Machines	32603-19100	32603-19200
	YILMAZ Machines	32604-19100	32604-19200

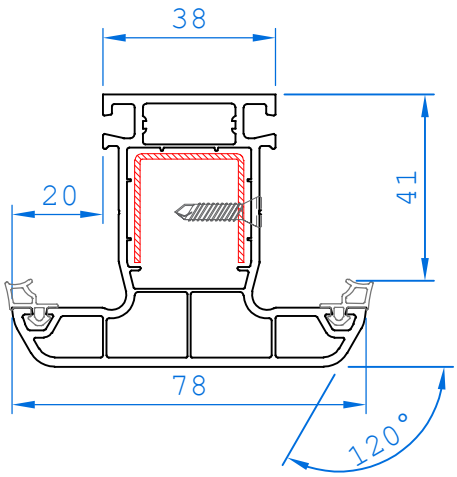
Accessories (Blade Cleaner - Frame Profile)

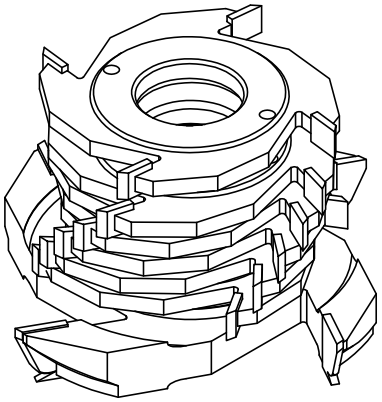




Code (Normal): 31001-64001

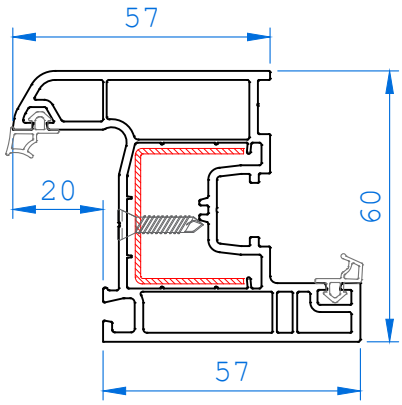
Accessories (Milling Blade - Mullion Profile)

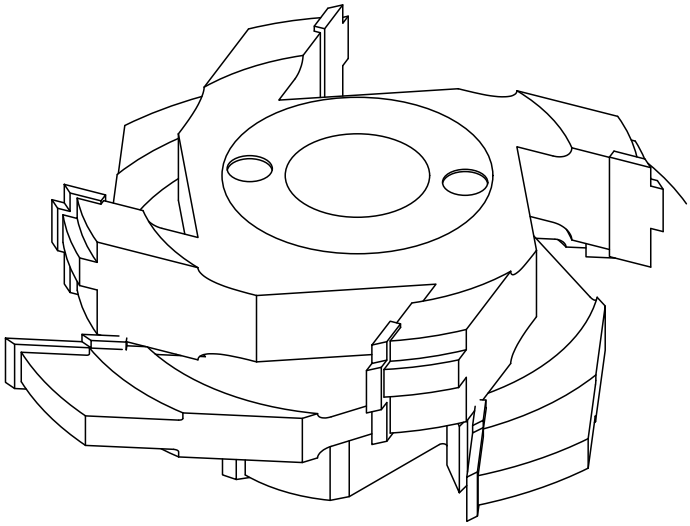




Code (Normal): 31001-64003
Code (elumatec Machines): 31001-64006

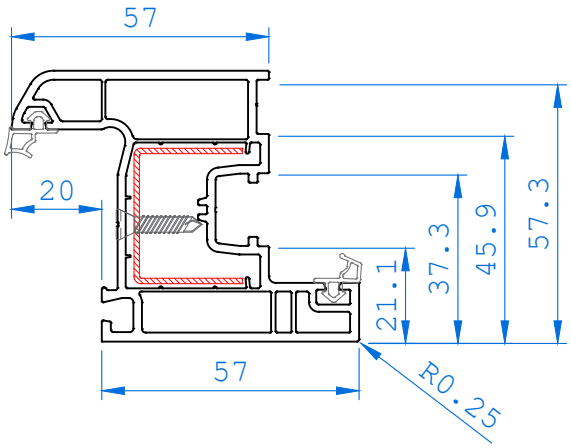
Accessories (Blade Cleaner- Sash and Door Sash Profile)

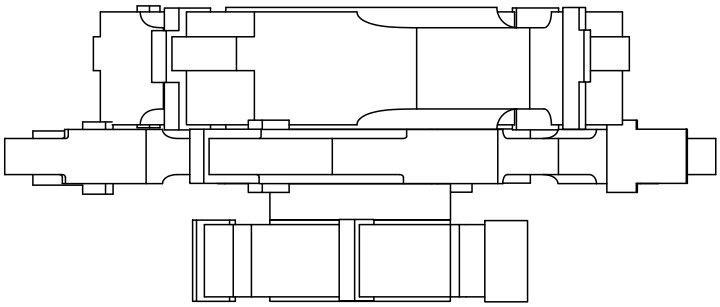


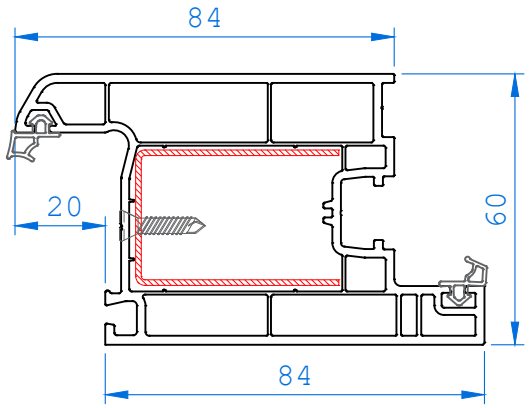


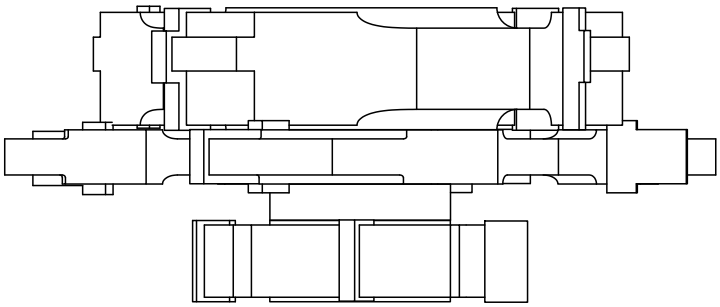
Code (Normal): 31001-64005

Code (elumatec Machines): 31001-64008

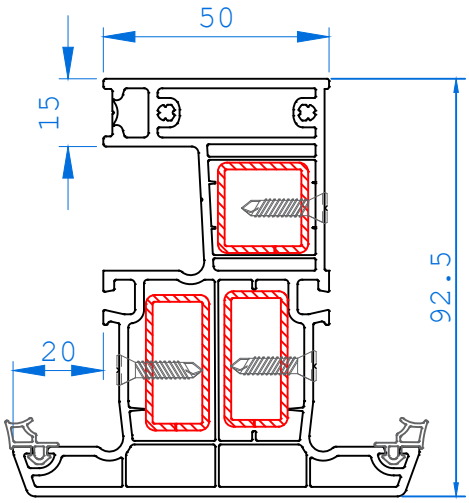


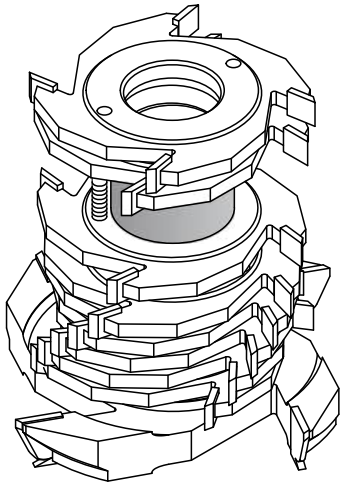






Accessories (Milling Blade - Mullion Profile)

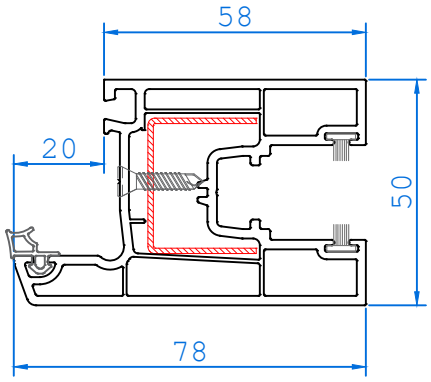


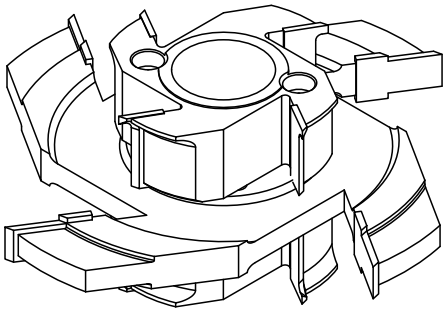


Code (Normal): 31001-26003

Code (elumatec Machines): 31001-26006

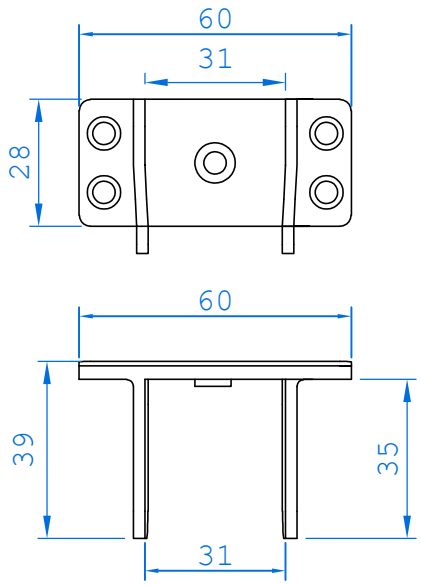
Accessories (Blade Cleaner- Sash Profile)

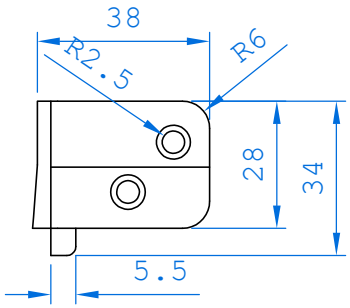


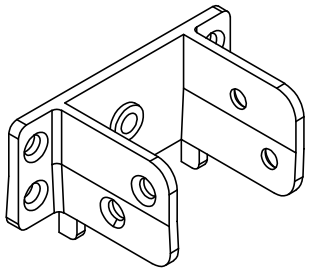


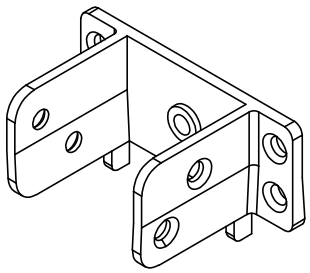
Code (Normal): 31001-26005

Code (elumatech Machines): 31001-26006





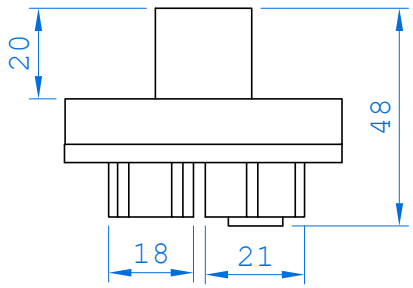


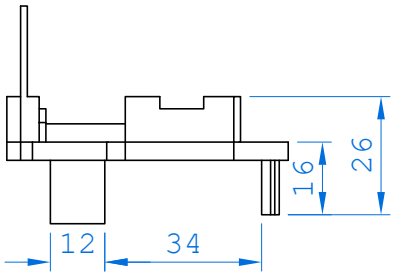


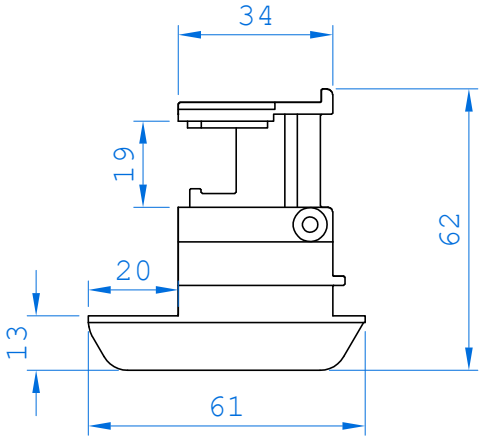
Code (White): 34007- 11070

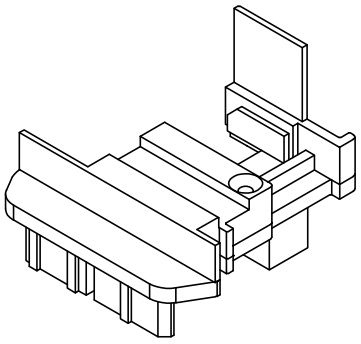
Code (Brown):34007- 11071

Accessories (Lap Joint Cover)





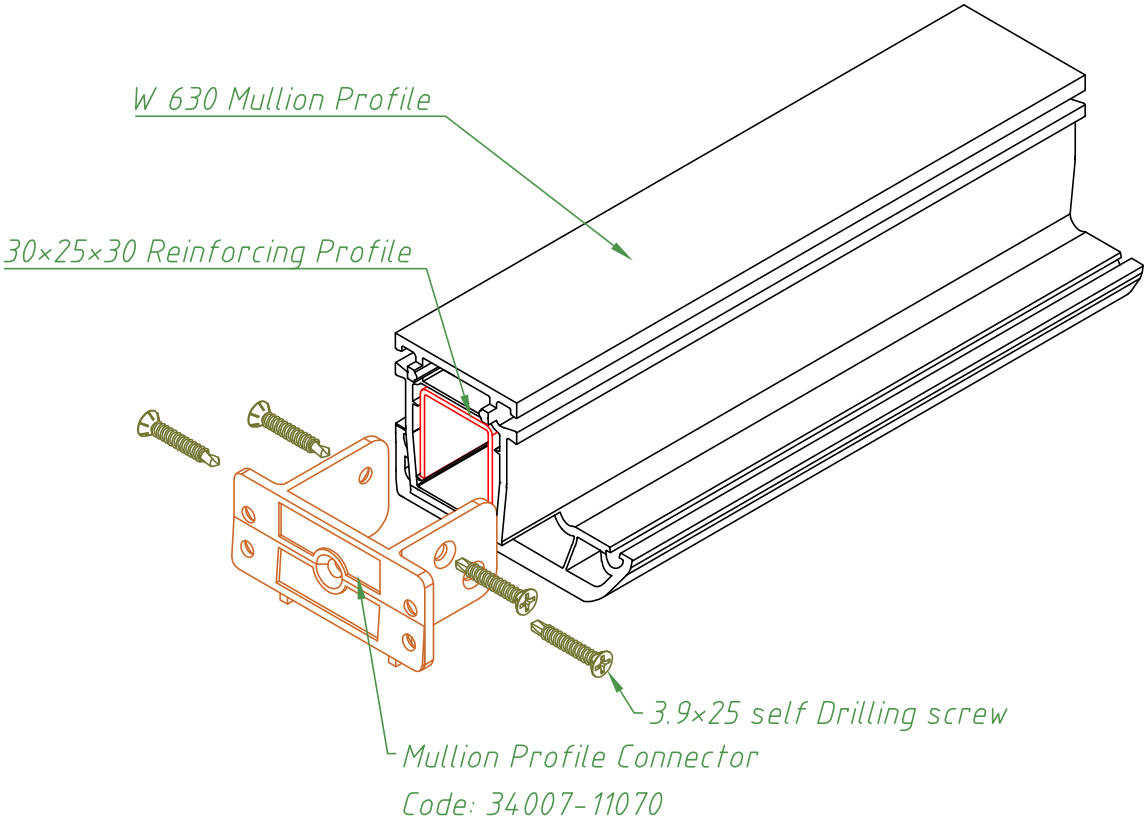


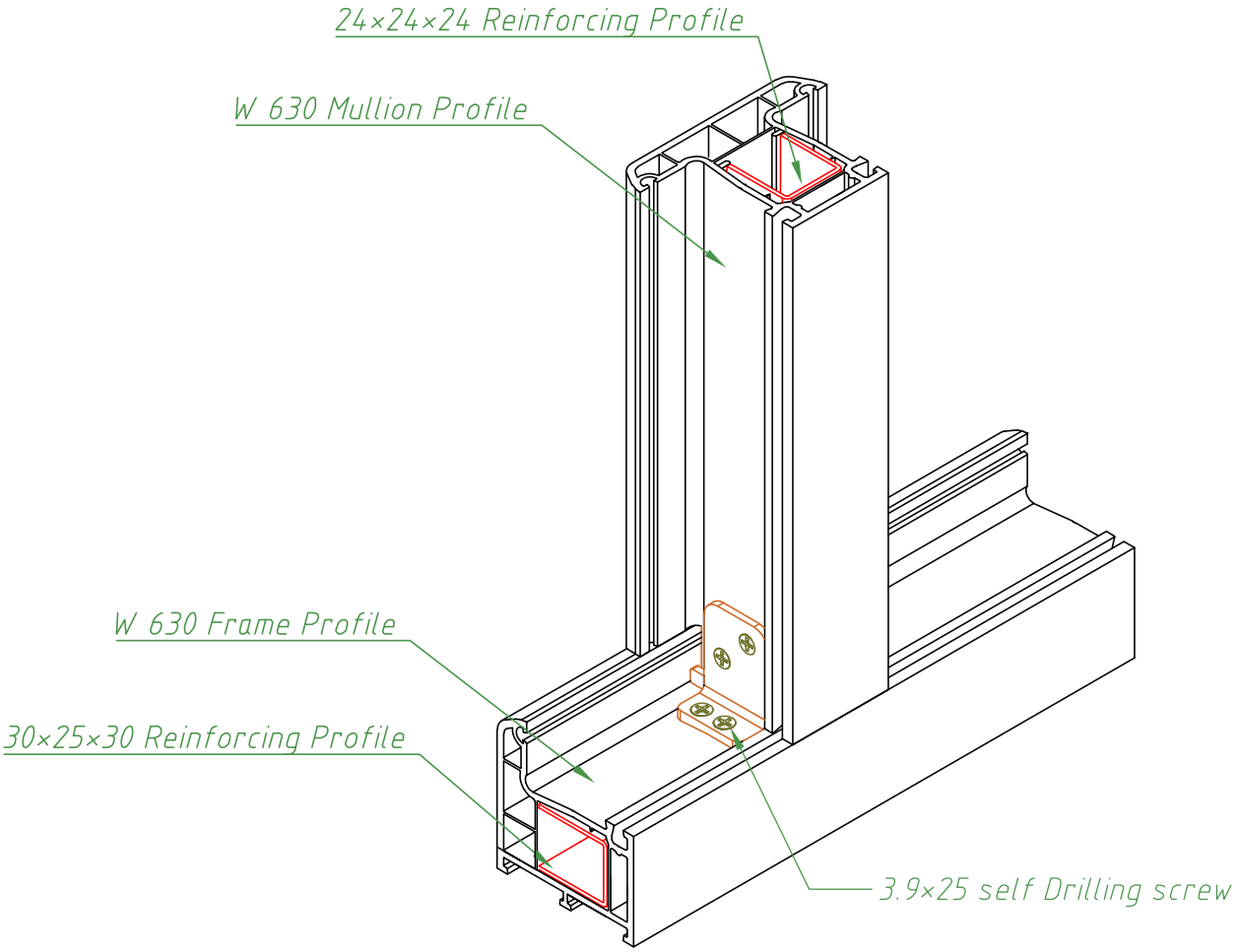


Code (White): 34012- 10090

Code (Brown):34012- 10091

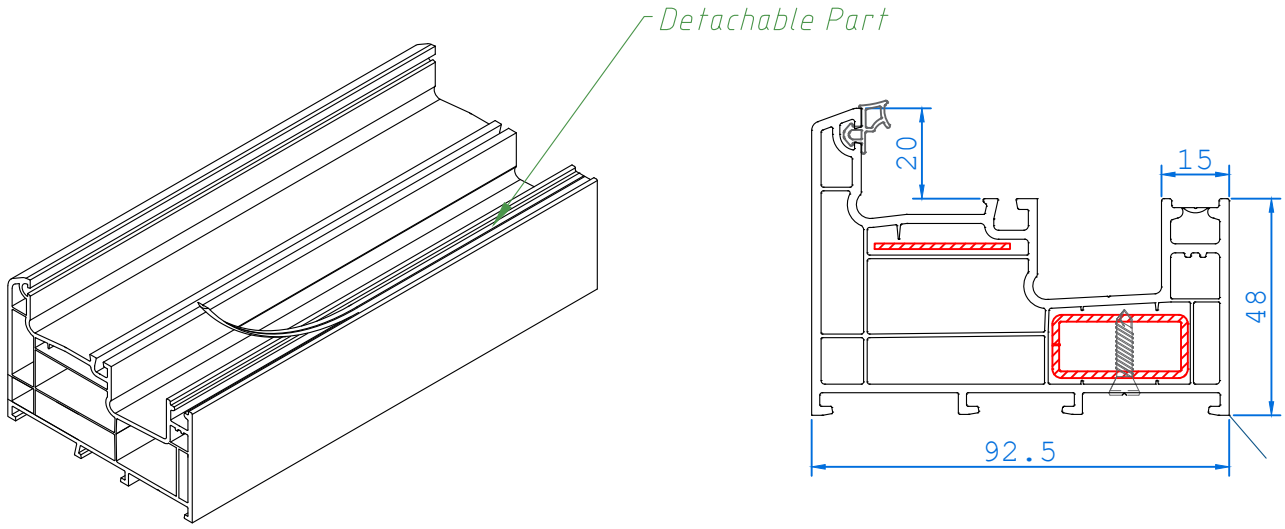
Assembling Accessories (Mullion Profile Connectors)



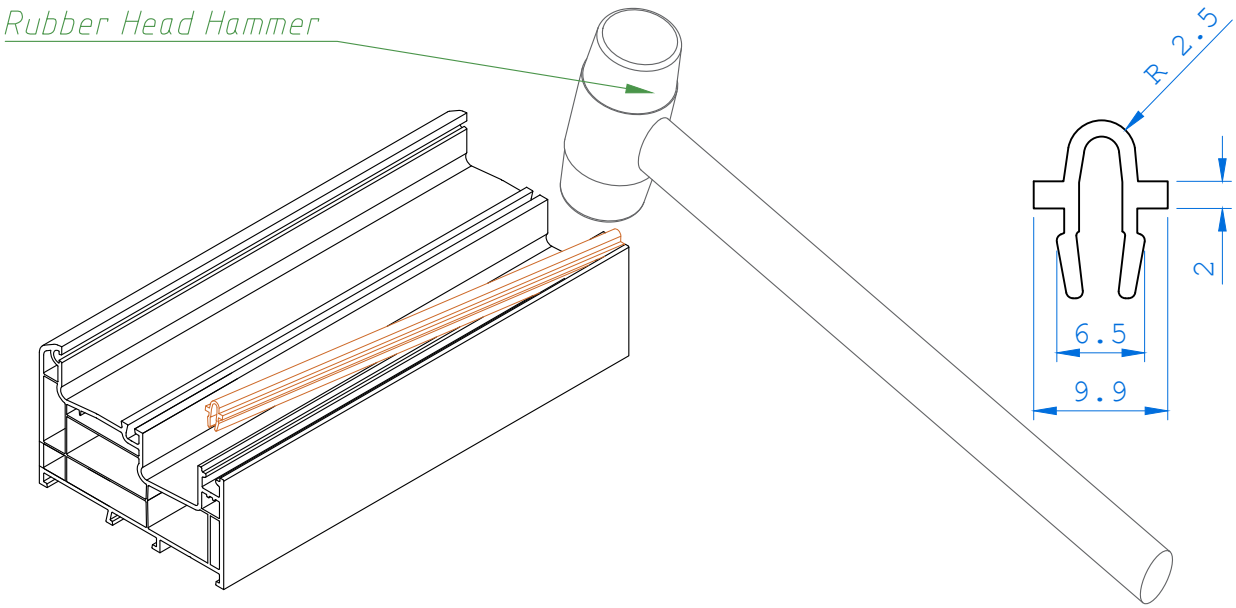


Assembling Accessories (Installing Sliding Aluminum Rail)

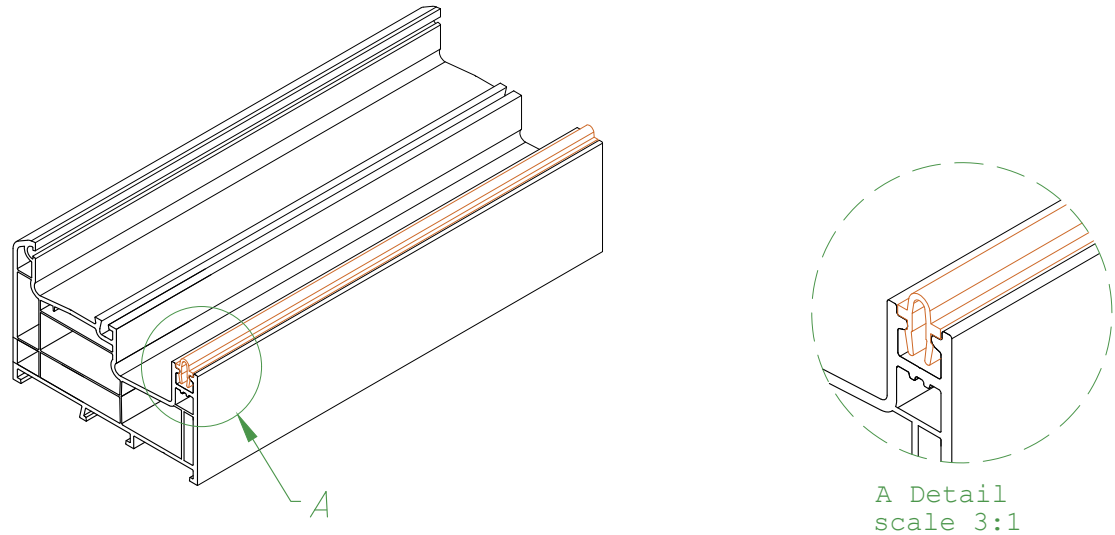
1



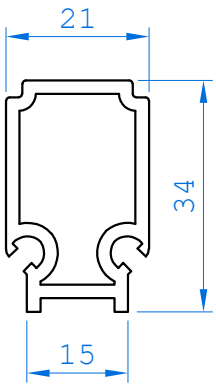
2



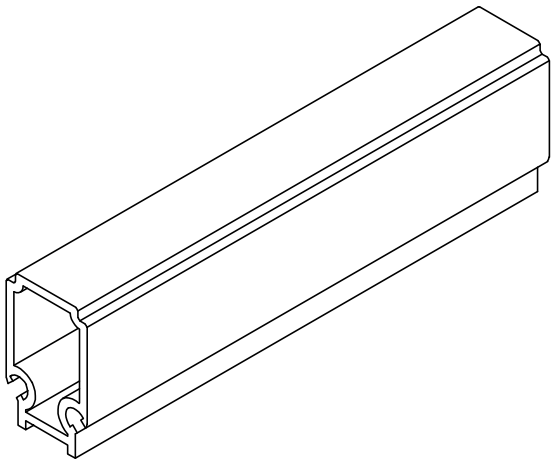
3



Accessories (Aluminum Adaptor Profile)



Scale = 1.5 :1

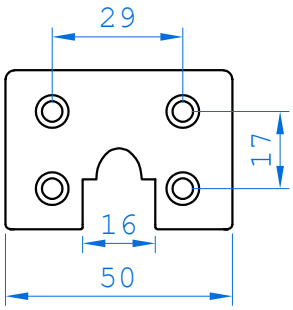


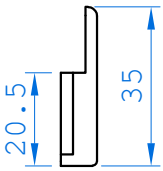
Code (White): 34025- 12010

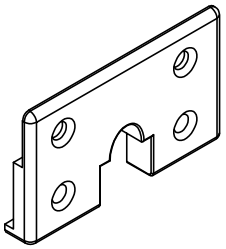
Code (Brown):34025- 12011

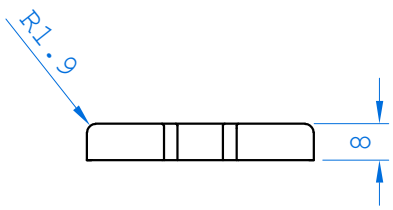
Profile length = 6 meters

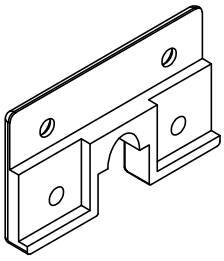
Accessories (Cover Sash Profile)







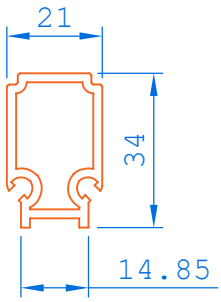




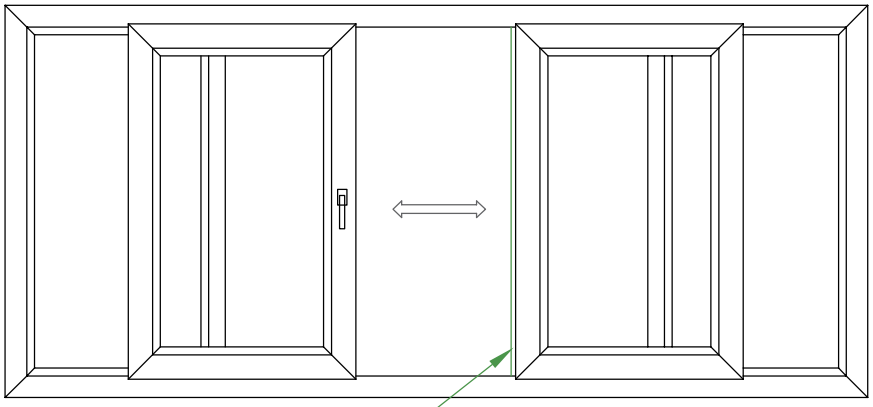
Code (White): 34009- 46010

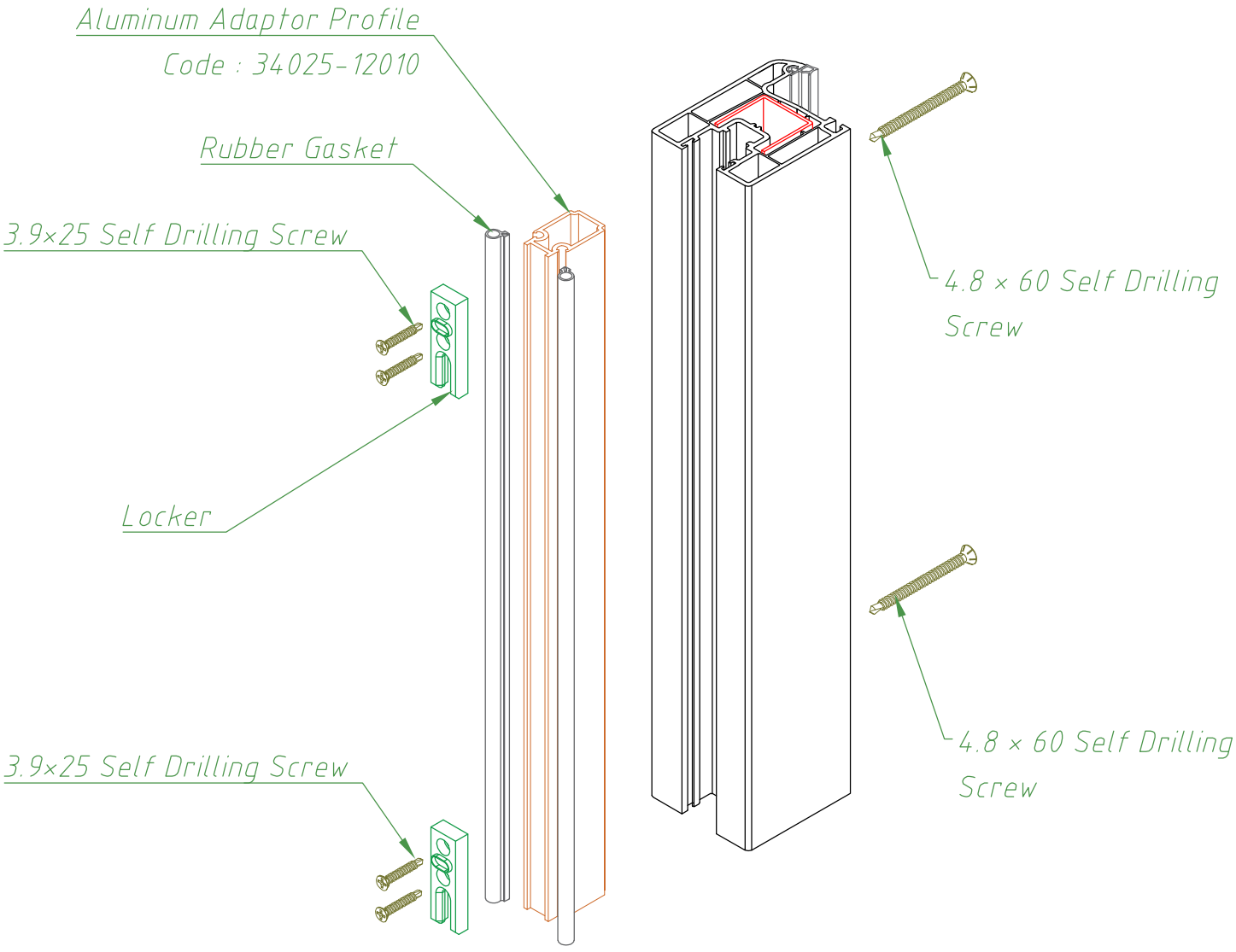
Code (Brown):34009- 46011

Assembling Accessories (Aluminum Adaptor)

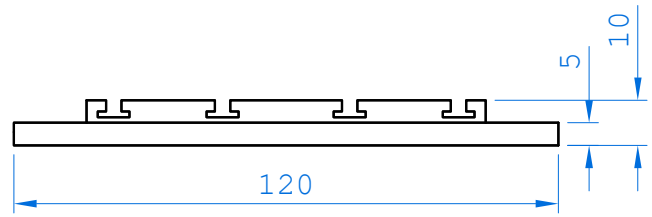


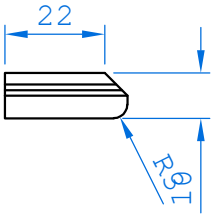
Alm Adaptor profile
Code : 34025-12010 (White)
Code : 34025-12011 (Brown)

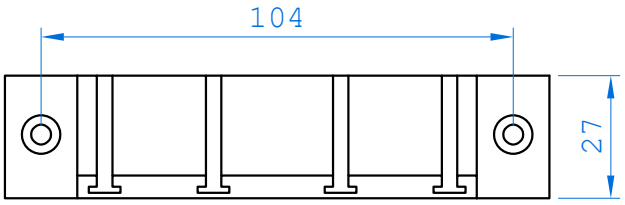


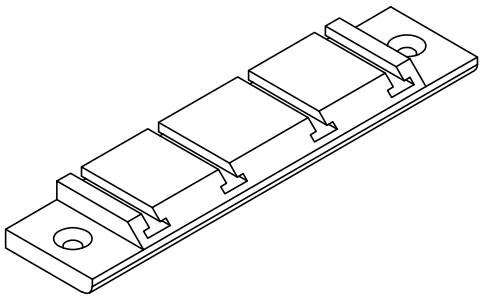


Accessories (Insulated Single Rail Profile)



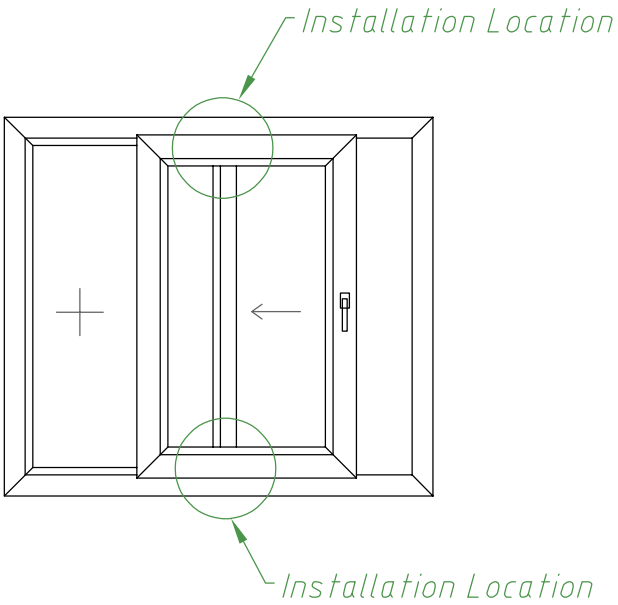


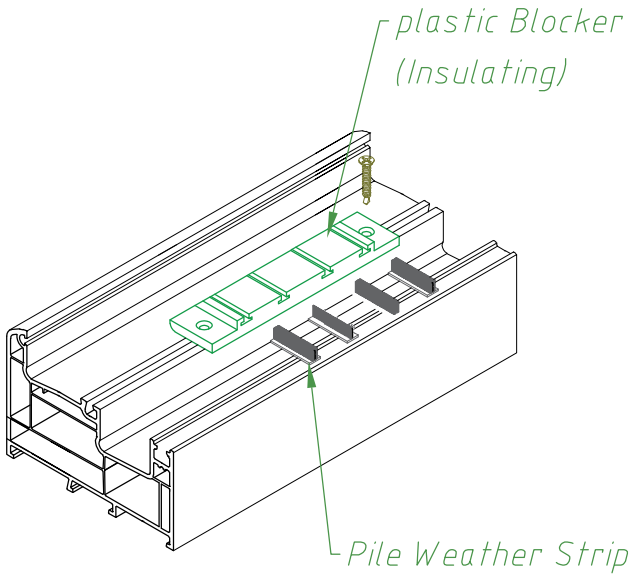




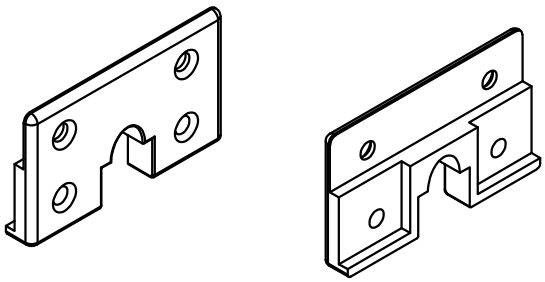
Code (White): 34009- 26020

Code (Brown):34009- 26021





Assembling Accessories (Cover Sash Profile)



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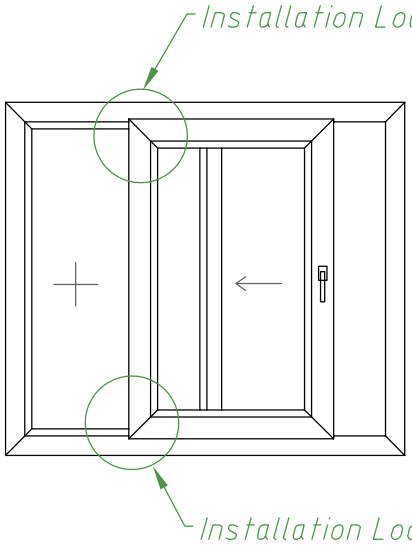
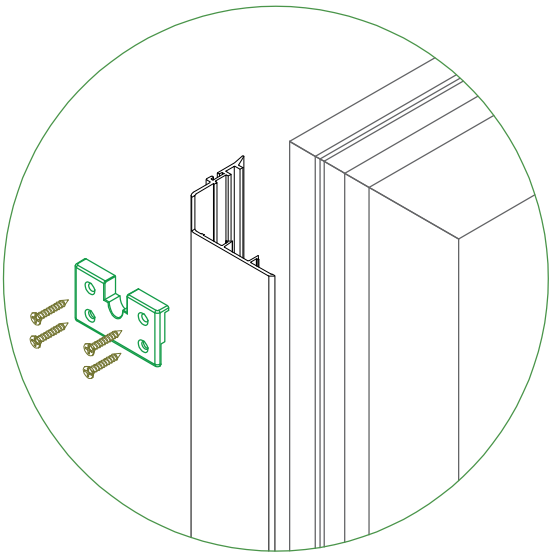
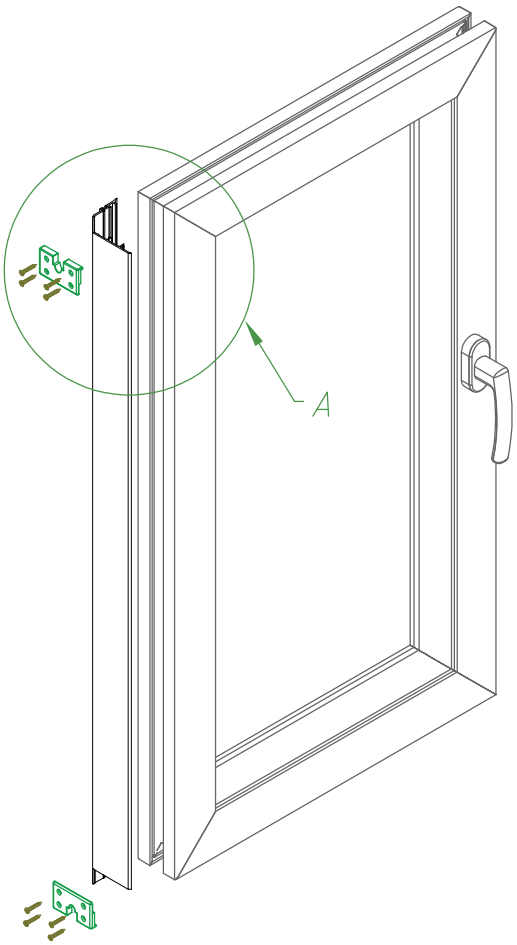
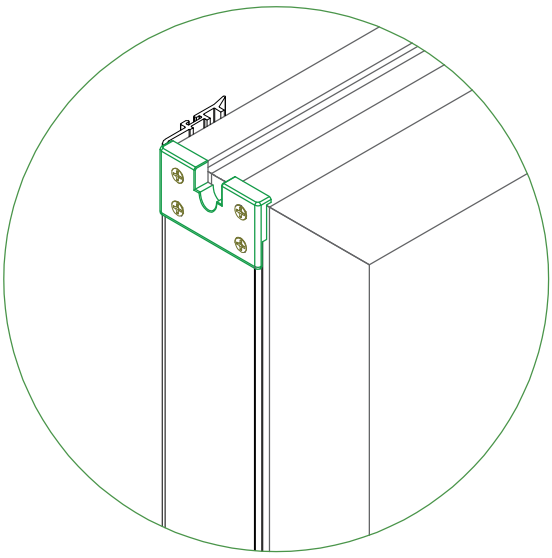
Code (Brown):34009- 40261



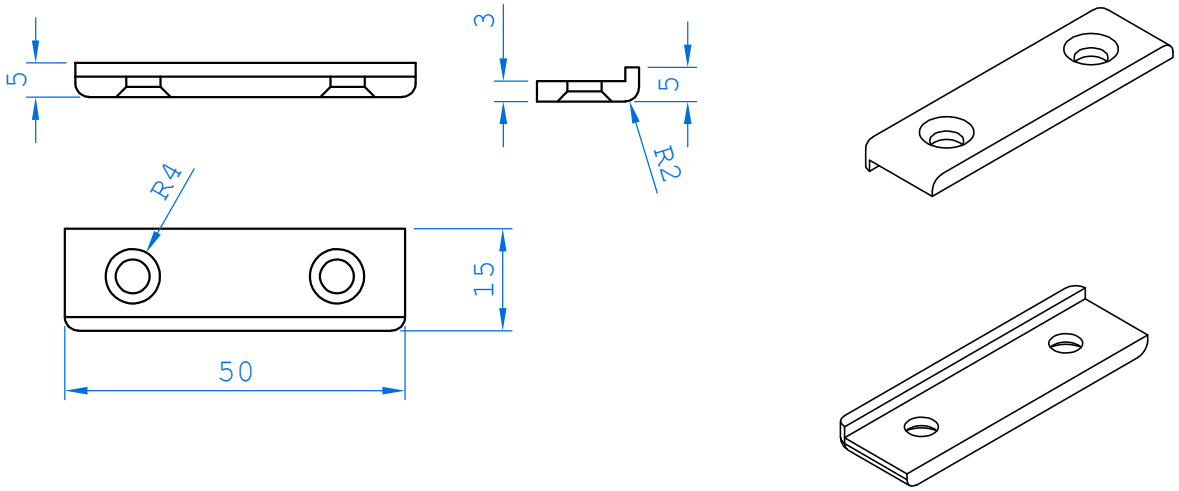


A Detail
scale 3:1





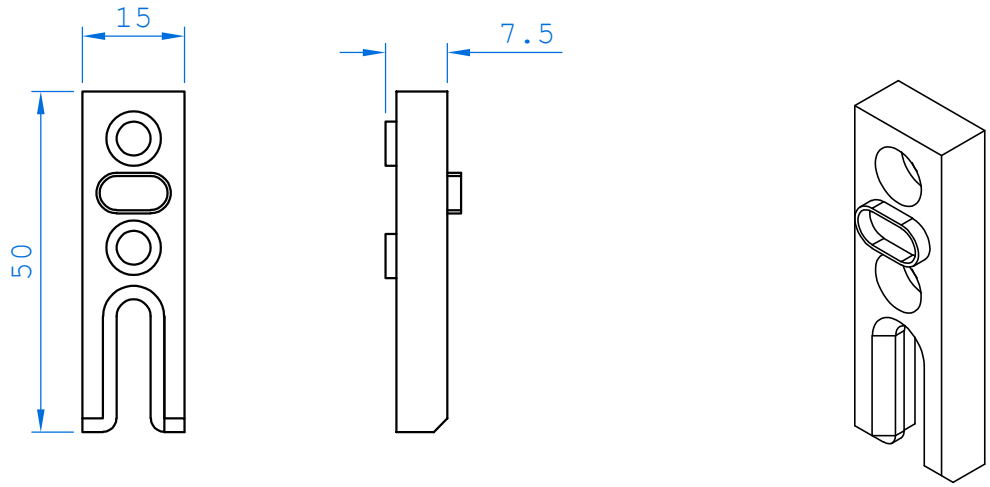
Accessories (Sash Profile Guides)



Code (White): 34009- 36010

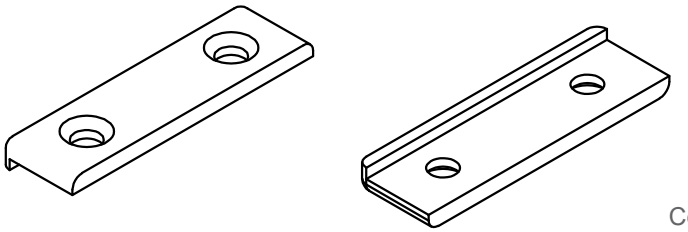
Code (Brown):34009- 36011

Accessories (Locker)



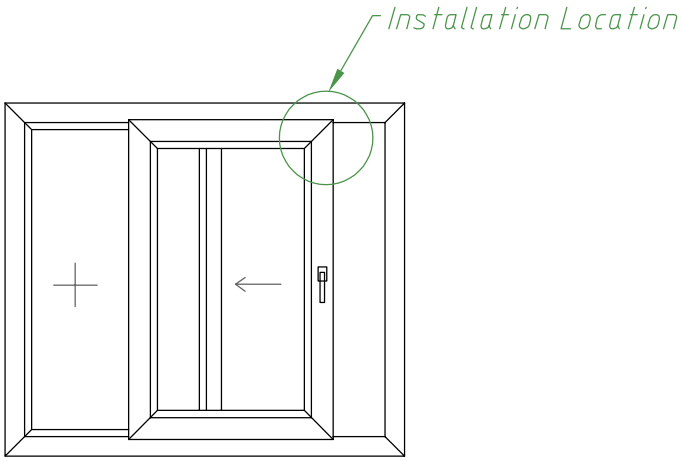
Code : 34005- 14050

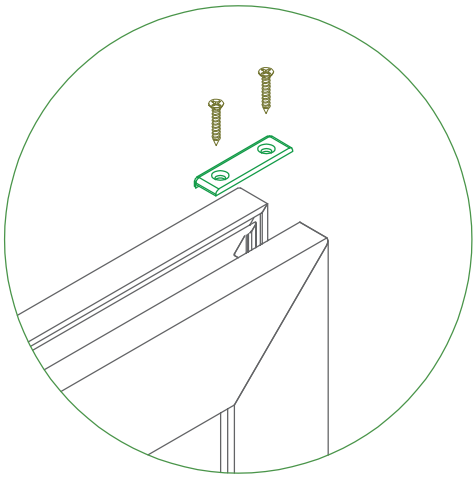
Assembling Accessories (Sash Profile Guides)



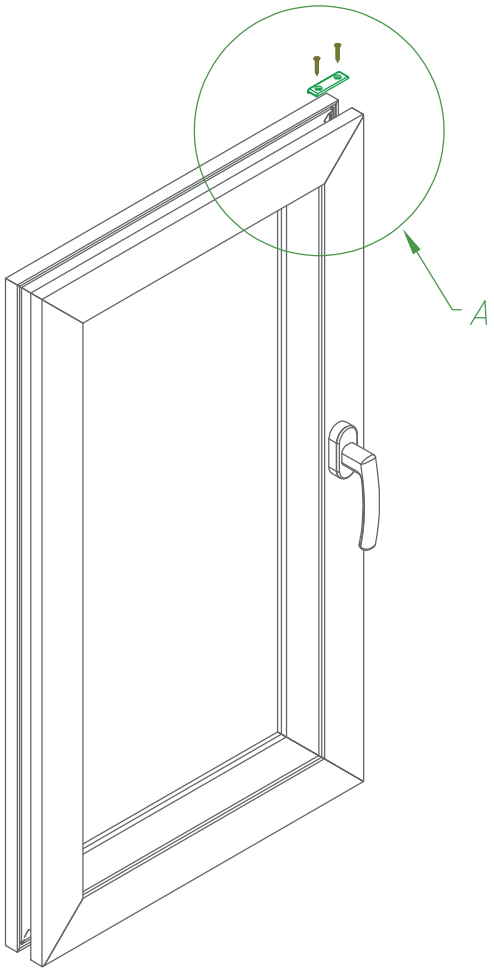
Code (White): 34009- 36010

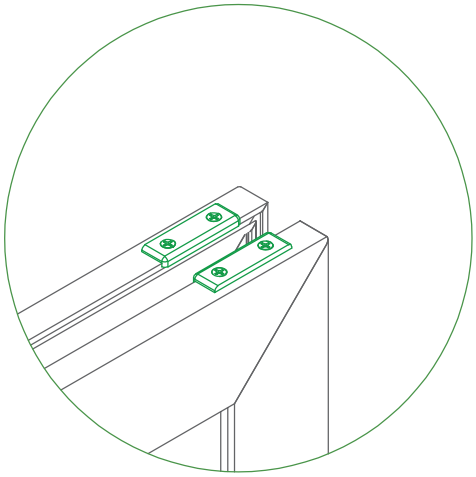
Code (Brown):34009- 36011





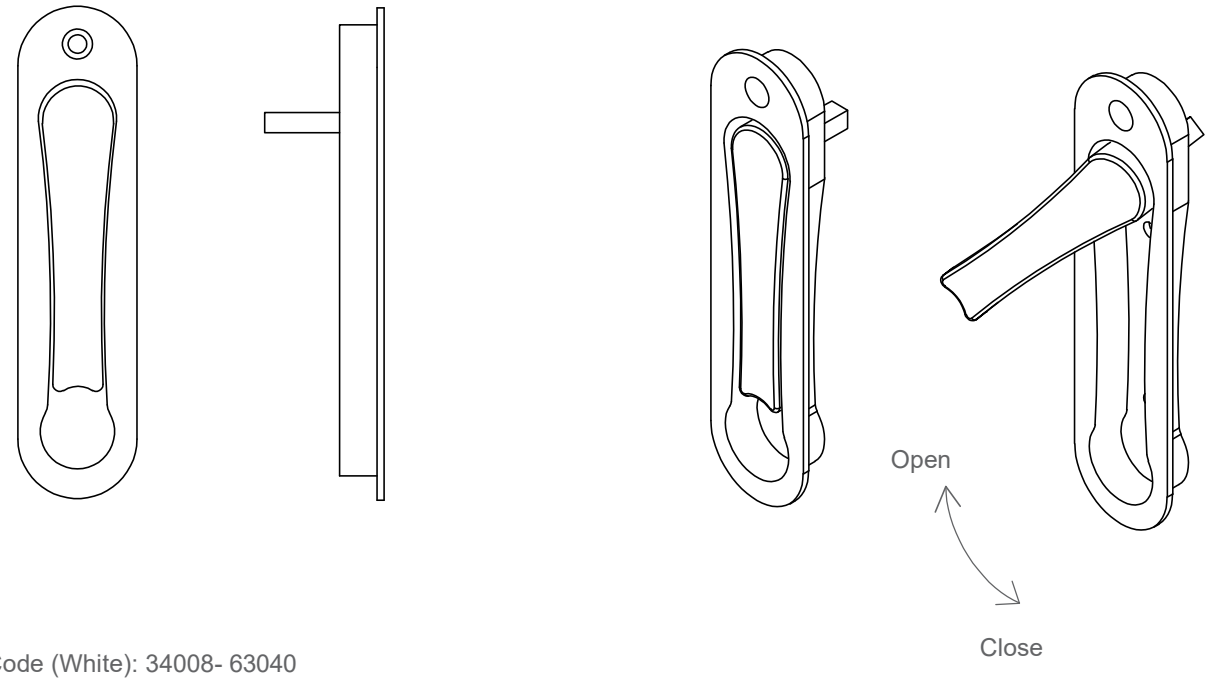
A Detail
scale 3:1





A Detail
scale 3:1

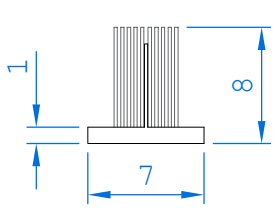
Accessories (Window Handle / Hidden Type)

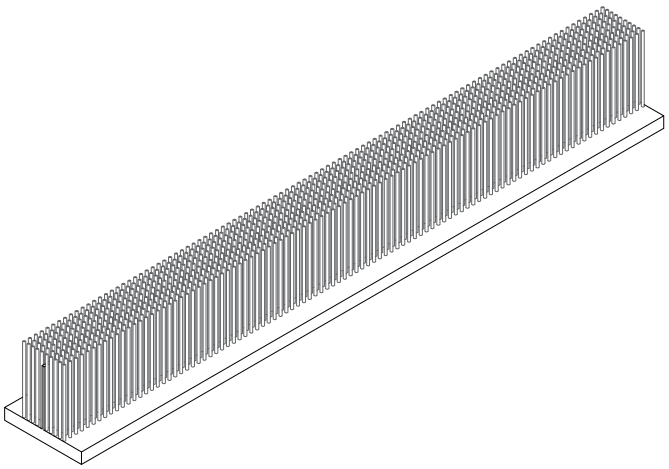


Code (White): 34008- 63040

Code (Brown):34008- 63041

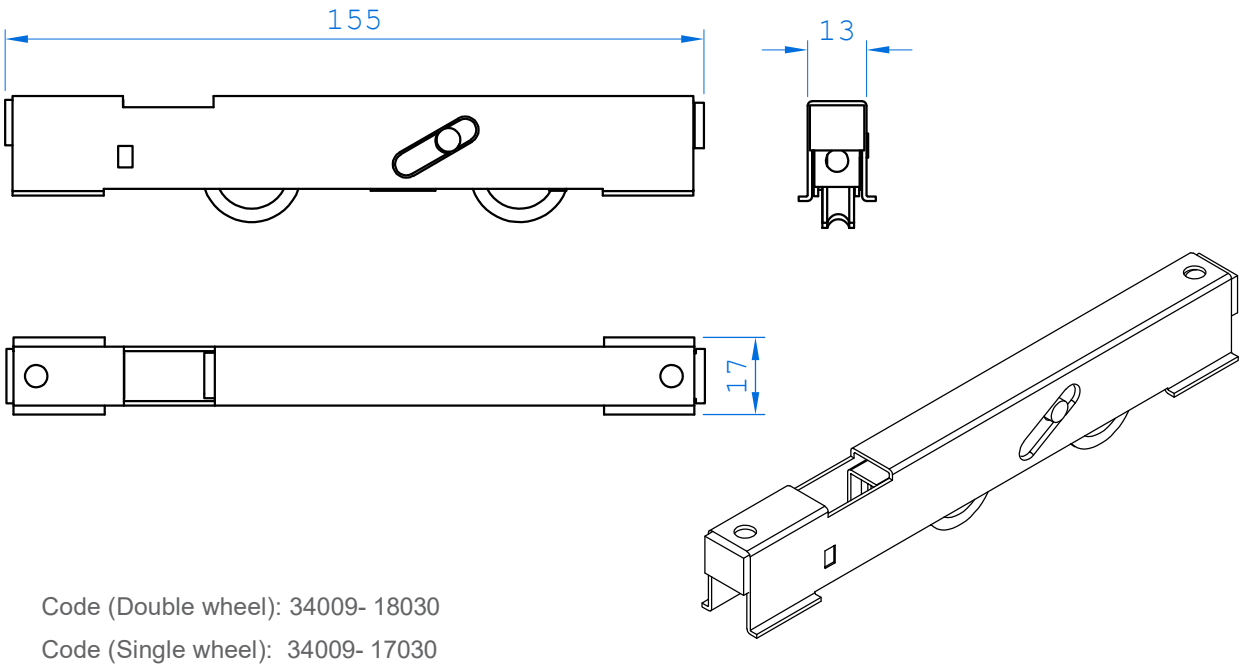
Accessories (Pile Weather Strip)





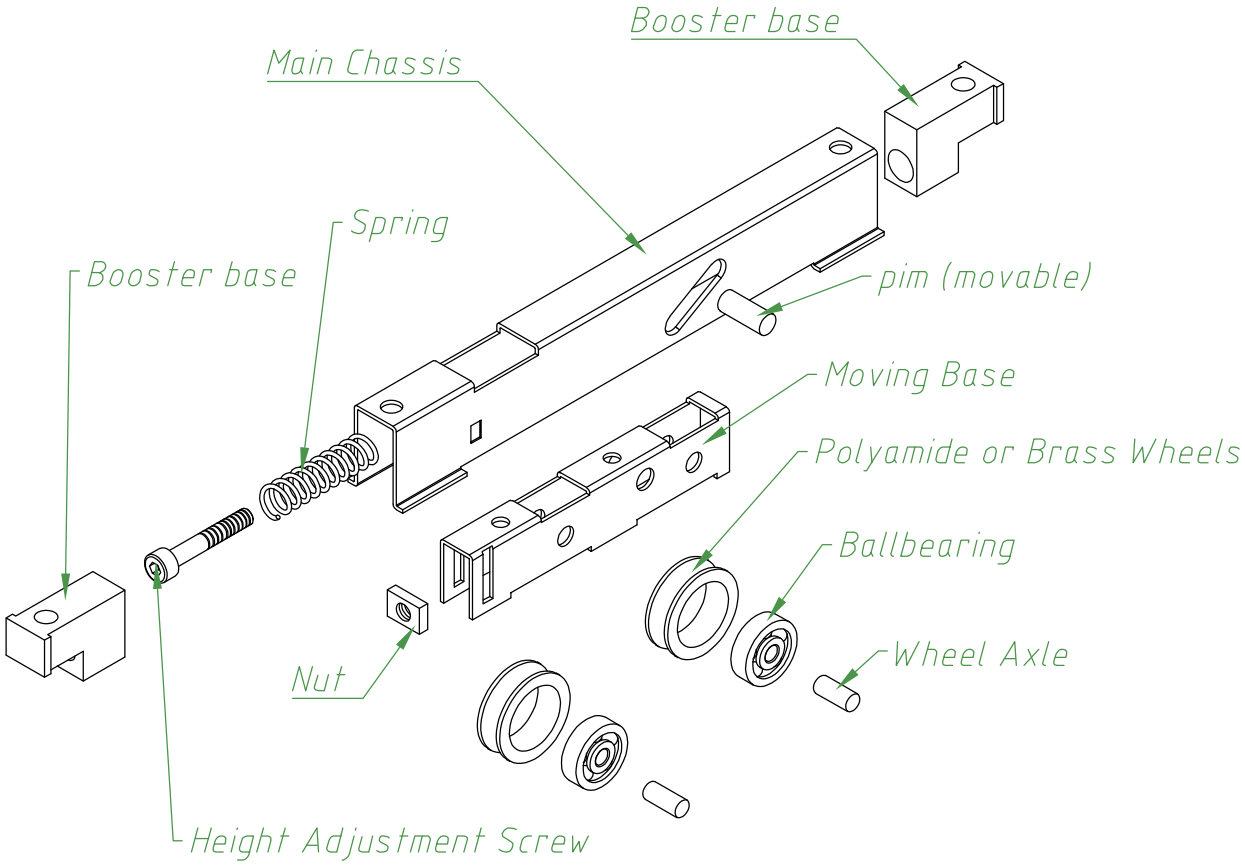
Code : 34023- 46780

Accessories (Sliding Roller- Double Wheel)

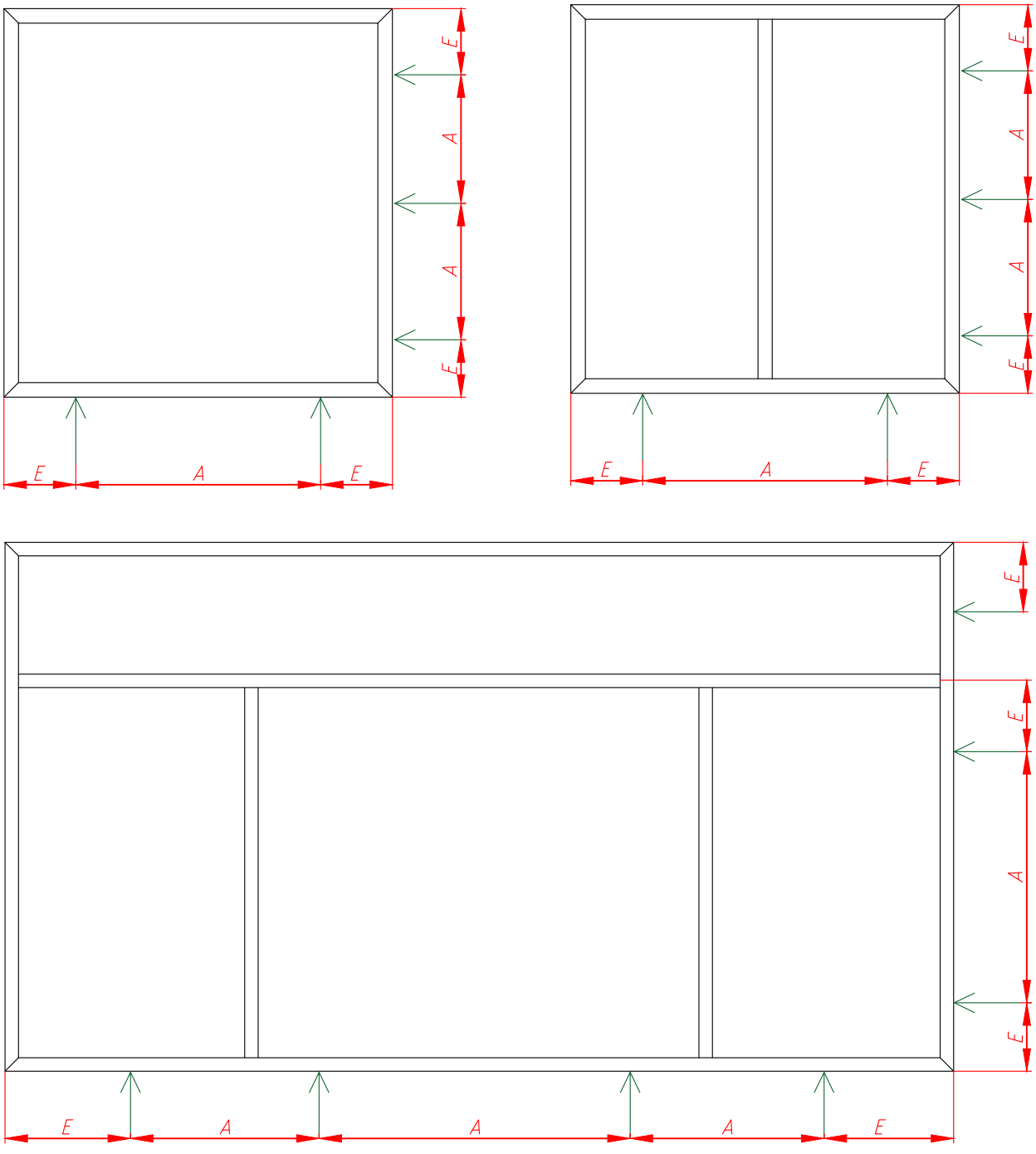


Code (Double wheel): 34009- 18030

Code (Single wheel): 34009- 17030



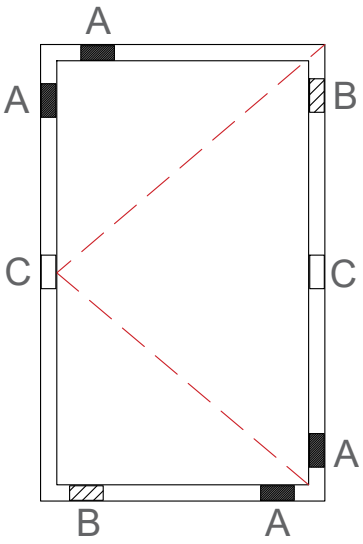
GENERAL INSATLLATION



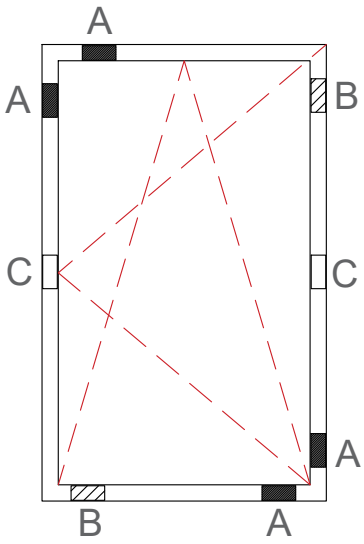
Assembly and installation of UPVC double-glazed doors and windows

In UPVC double-glazed doors and windows products, assembly is done using drill-tip screws with dimensions of 3.9*60 mm. The distance between the screws from each other is very important in the long-term strength of the window. In the defined standards, the distance between the screws from the corner of the window should be between 100 and 150mm and the distance between the screws from each other should be between 600 and 700mm.

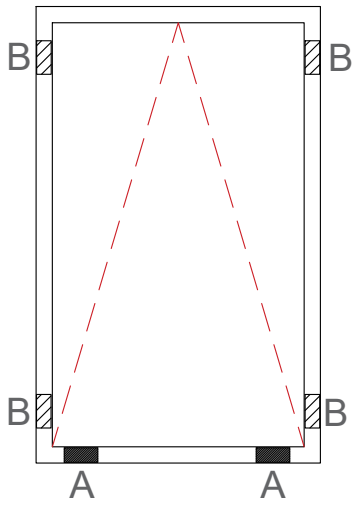
GENERAL INSATLLATION



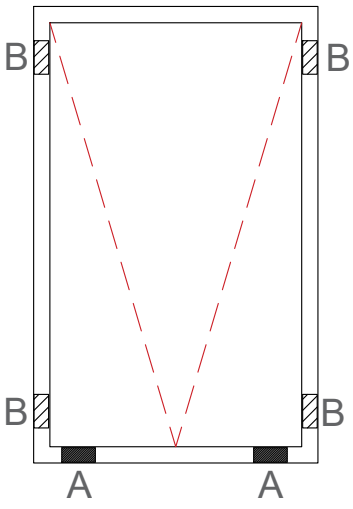
TURN SASH



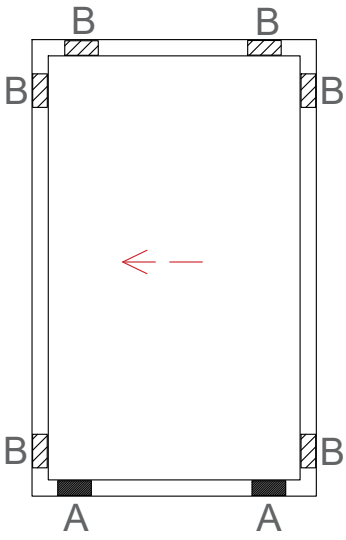
TILT AND TURN SASH



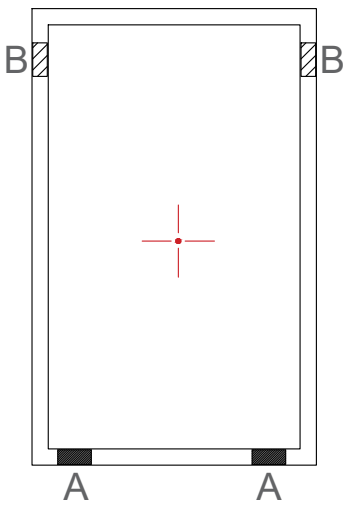
TURN (DOWN SIDE) SASH



TURN (UP SIDE) SASH



SLIDING SASH



FIX

Filler system in double-glazed windows

It is necessary to perform a filler system to adjust the fittings and adjust the double-glazed windows in the proper position.

Fillers are rectangular pieces of varying thickness. Fillers are placed in the gaps between the glass and in designated locations.

Fillers are placed in the specified locations according to the type of opening. Fillers A are considered essential fillers, filler B are considered stabilizing fillers. Fillers C are also final fillers.

GENERAL INFORMATION

Sound isolation

a performed quality of sound isolation is bounded with the quality of the window profile, the sound isolation of the glass and a qualified montage of the window.
the measurmenat of the sound isolation is called dB.
than higher the value of 40 to 50 dB, than better the sound isolation.
in the following table are some dB values for considred situations.

Source	Categorie
silence	0 dB
Breath	10 dB
Sound of laefs	20 dB
Garden	30 dB
Sitting room	40 dB
Conversation	50 dB
High voice - hoover	60 dB
Type writter- loud conversation	70 dB
Trafic	80 dB
Horn	90 dB
Electrical saw	100 dB
Weaving manufactory	110 dB
jetcraft	120 dB
Explosion- rocket	150 dB

the adviced value of DIN standard is 50 dB is determined than 50 dB should be the limit value for isolated windows.
this value is determined twith the addition of the glass,window and montage factor all together.
all the series of ADOPEN PLASTIC PERSIAN are determined higher than 50 dB.
for exterme noice isolation it is to prefer special glasses (triple glazing glass) with high sound isolation.

Heat isolation and heat values

the heat which flows between two surface in 1 hour, across a surface of 1 m2, whereas 1 K temperature difference exist, is called the UF value of this element.

it is espacialy important for the selection of the window profile to prefer low UF value. the number of the chamber in the profile advantages a higher sounf and heat isolation. for a stable room temperature in winter and summer it is prefered to choose a low value. in acceptance for high-technology productions is the Uf value lower than 1.8 m2K/W. higher the Uf value higher the heat lost.
it is adviced to select a Uf value lower than 1.5 m2k/w in colder regions.

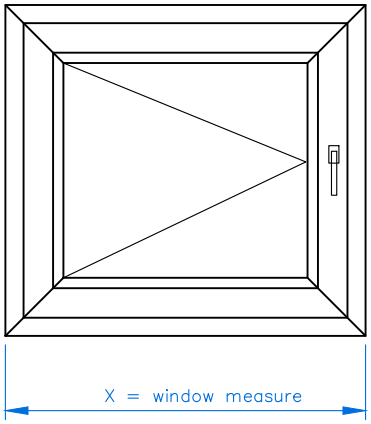
TW 630 Series	R	Uf (m2.K/W
with sill frame profile	0.68	1.47
frame profile	0.68	1.47
sash profile	0.68	1.47
Mullion profile	0.66	1.50
door sash profile	0.78	1.28

TW 630 Application	R	Uf (m2.K/W
Frame Sash	0.71	1.409

TW 250 Series	R	Uf (m2.K/W
Sliding frame profile	0.80	1.25
Sliding Sash profile	0.62	1.62
Mullion profile	0.62	1.62
Sliding mullion profile	0.78	1.28

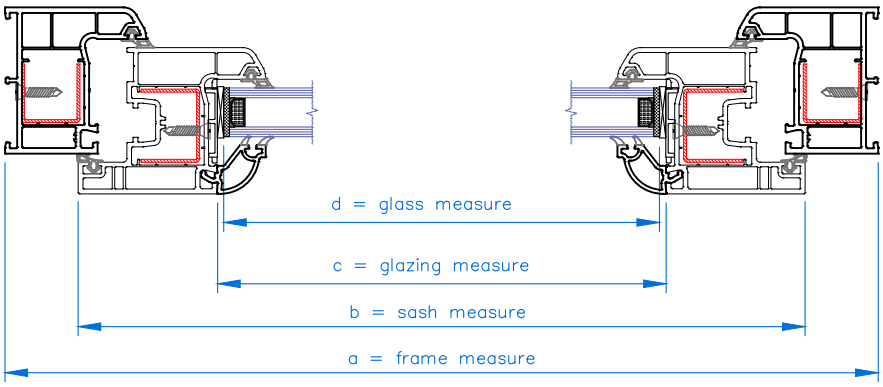
TW 250 Application	R	Uf (m2.K/W
Frame Sash	0.671	1.49

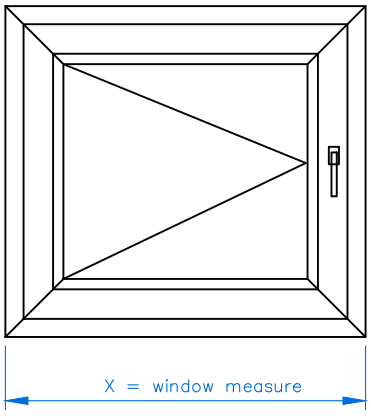
Technical Calculation



Calculations:

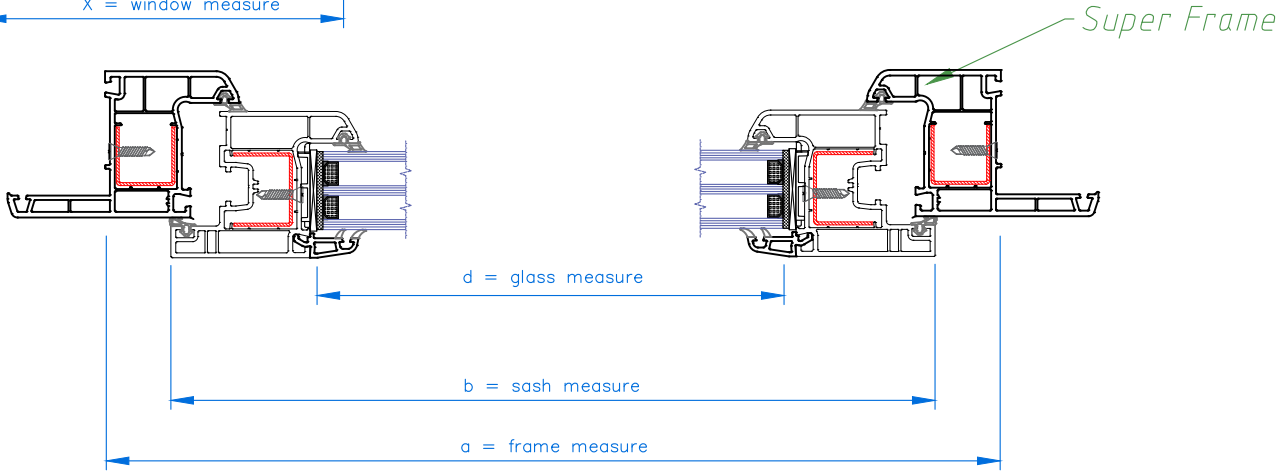
Frame Measure (a) : X + 6
Sash Measure (b) : X - 54
Glazing Measure (c) : X - 174
Glass Measure (d) : X - 184



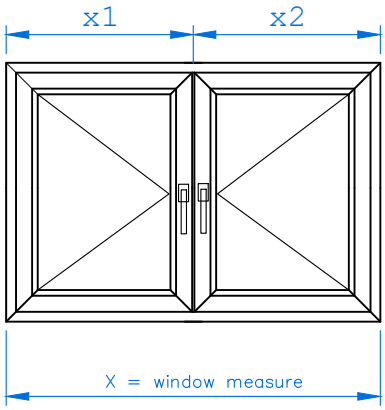


Calculations:

Frame Measure (a) : X + 86
Sash Measure (b) : X - 48
Glazing Measure (c) : X - 168
Glass Measure (d) : X - 178

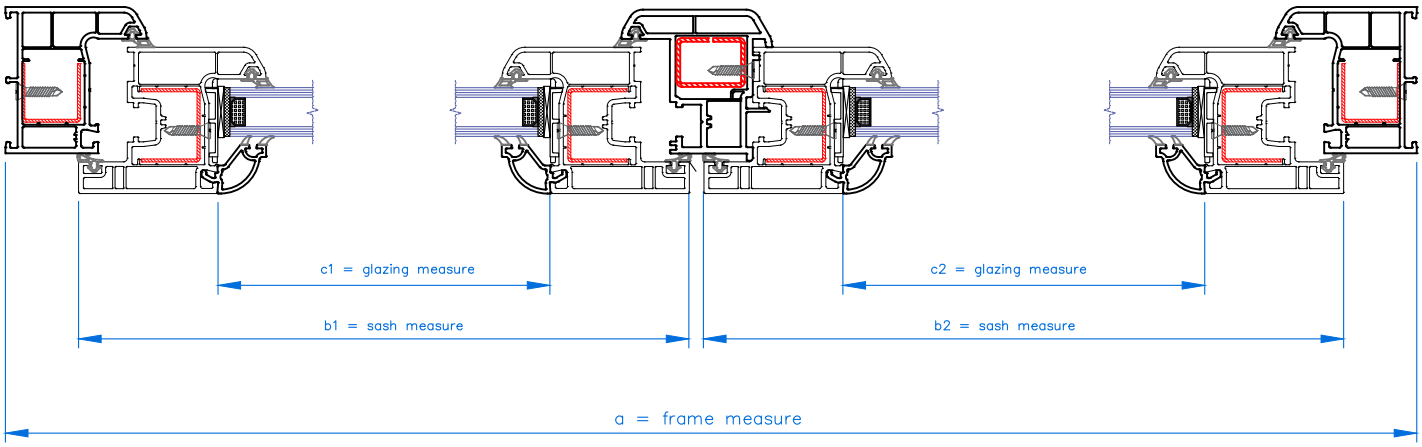


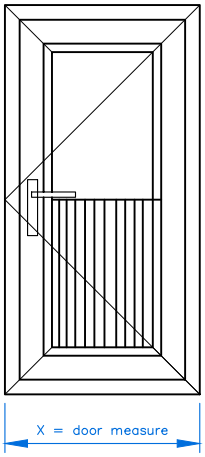
Technical Calculation



Calculations:

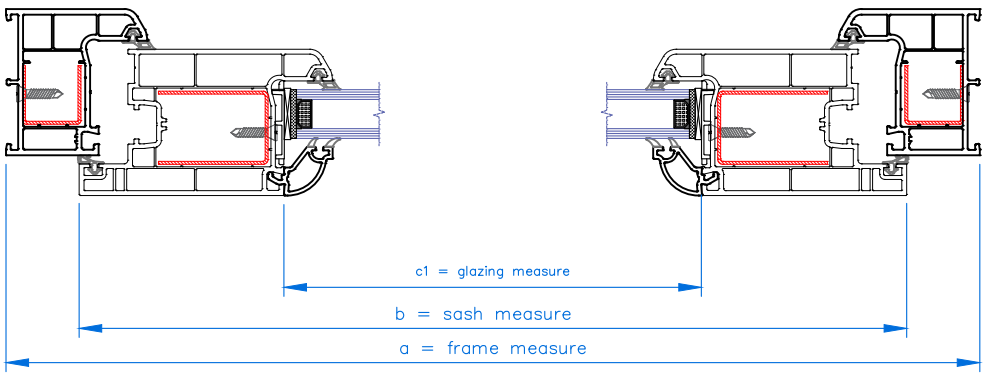
Frame Measure (a) : X + 6
Sash Measure (b1) : X1 - 27
Sash Measure (b1) : X2 - 27
Glazing Measure (c1) : X1 - 147
Glazing Measure (c2) : X2 - 147



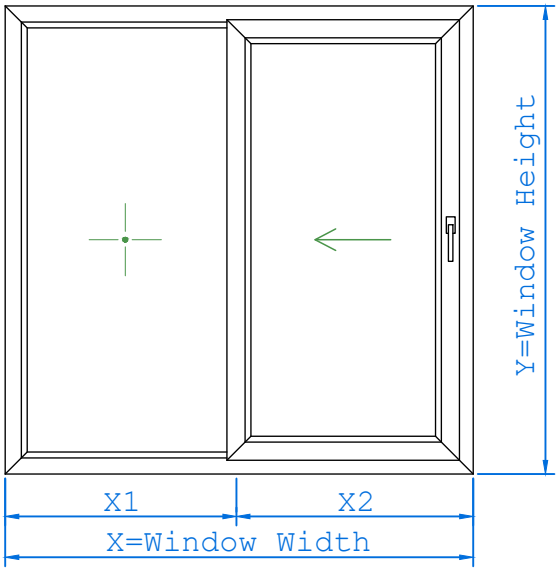


Calculations:

Frame Measure (a) : X + 6
Sash Measure (b) : X - 54
Glazing Measure (c) : X - 228
Glass Measure (d) : X - 238



Technical Calculation

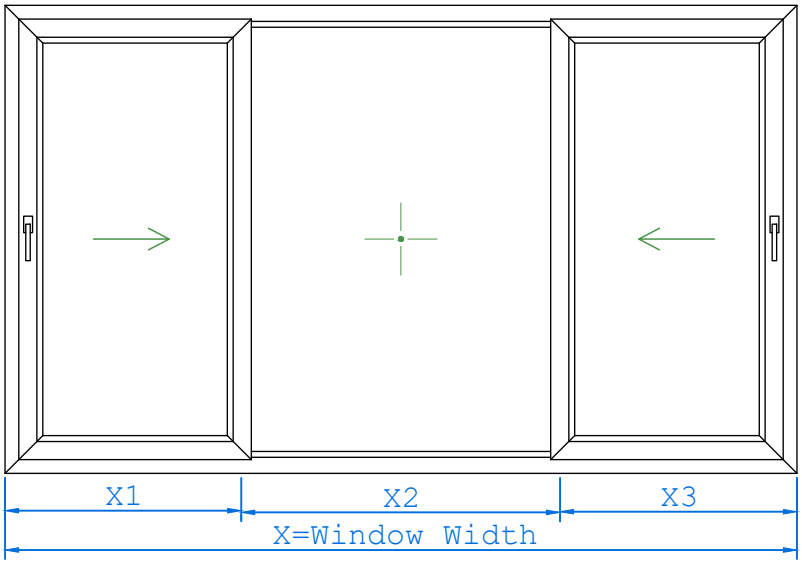


Calculations:

Frame Measure (Vertical) : Y + 6
Frame Measure (Horizontal) : X + 6

Sash Measure (Vertical) : Y - 74
Sash Measure (Horizontal) : X2 +3

Mullion Measure (Vertical) : Y - 90

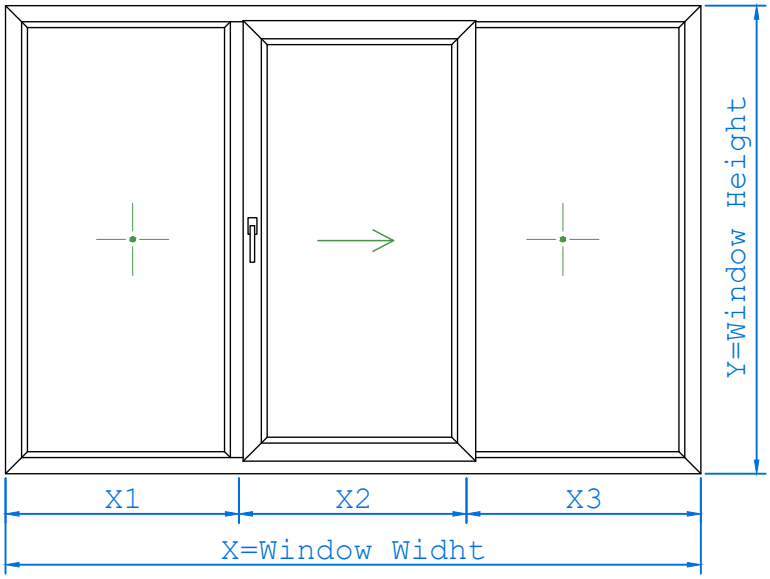


Calculations:

Frame Measure (Vertical) : Y + 6
Frame Measure (Horizontal) : X + 6

Sash Measure (Vertical) : Y - 74
Sash Measure (Horizontal) : X1 + 3
Sash Measure (Horizontal) : X3 + 3

Mullion Measure (Vertical) : Y - 90



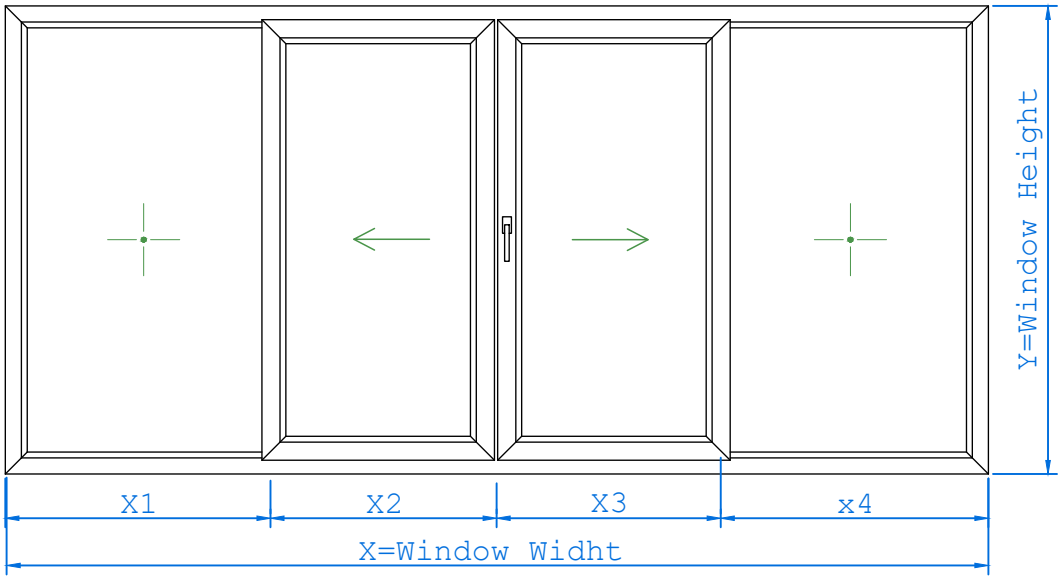
Calculations:

Frame Measure (Vertical) : Y + 6
Frame Measure (Horizontal) : X + 6

Sash Measure (Vertical) : Y - 74
Sash Measure (Horizontal) : X2 + 26

Mullion Measure (Vertical) : Y - 90

Mullion Measure (Vertical) : Y - 60
(W250 Cornice Profile)



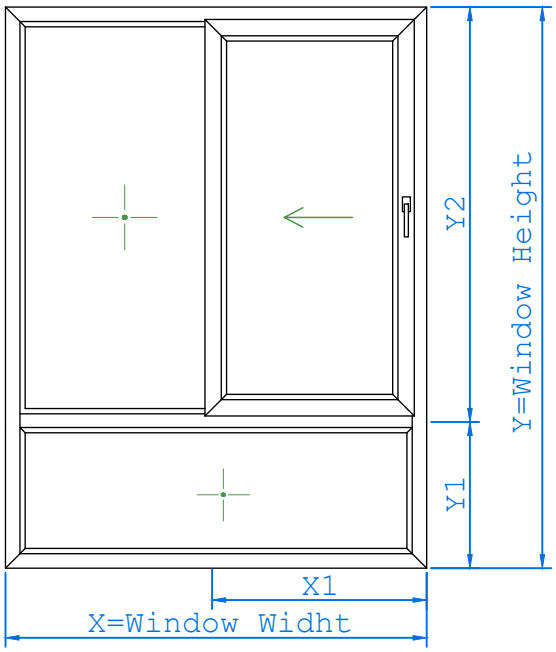
Calculations:

Frame Measure (Vertical) : Y + 6
Frame Measure (Horizontal) : X + 6

Sash Measure (Vertical) : Y - 74
Sash Measure (Horizontal) : X2 + 41

Mullion Measure (Vertical) : Y - 90

ALM Adaptor Measure (Vertical) : Y - 100



Calculations:

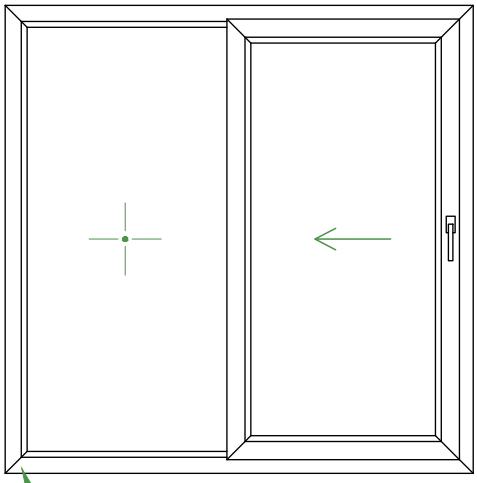
Frame Measure (Vertical) : Y + 6
Frame Measure (Horizontal) : X + 6

Sash Measure (Vertical) : Y2 - 59
Sash Measure (Horizontal) : X1 + 3

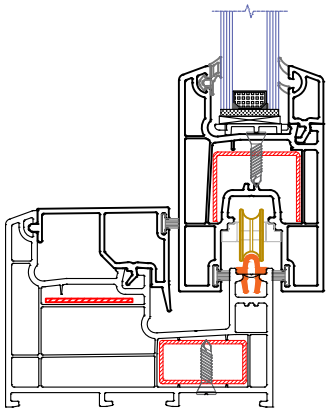
Mullion Measure (Vertical) : Y2 - 67

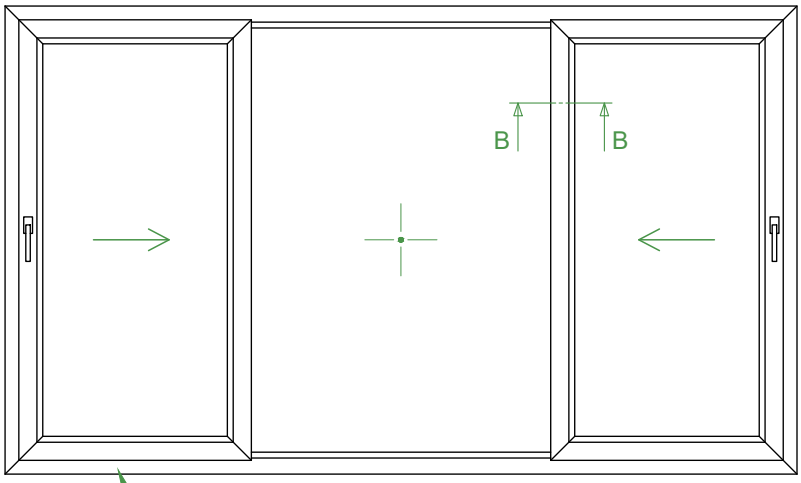
Mullion Measure (Horizontal) : X - 60

Sliding Window Designs



W260 Frame (Single Rail)





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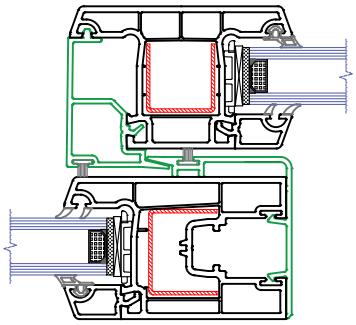

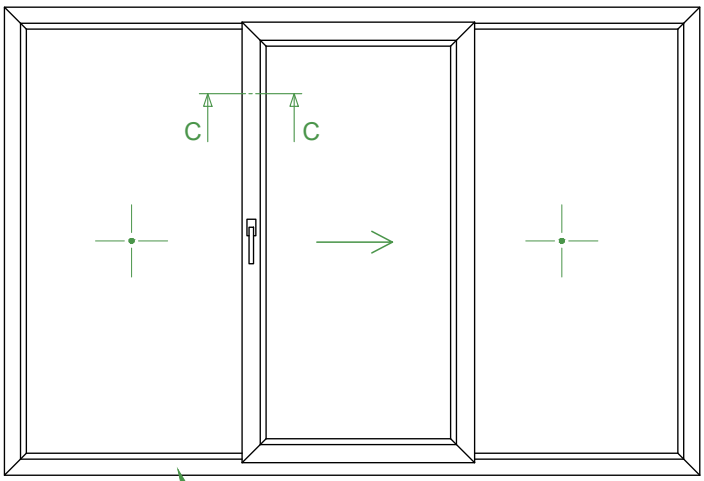

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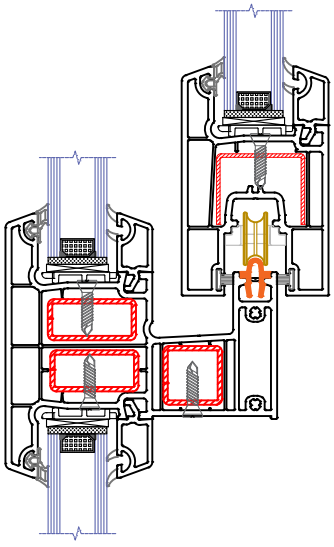
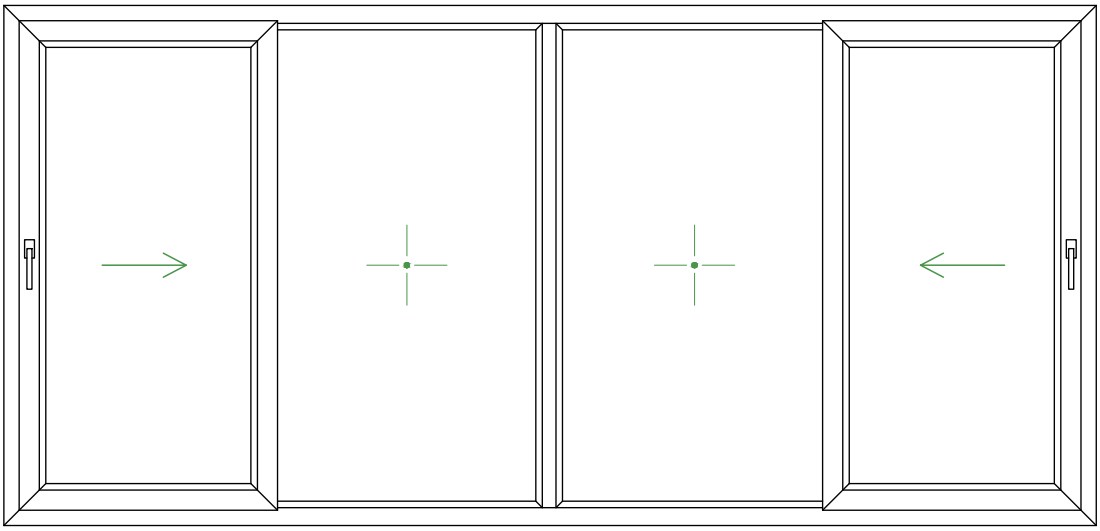
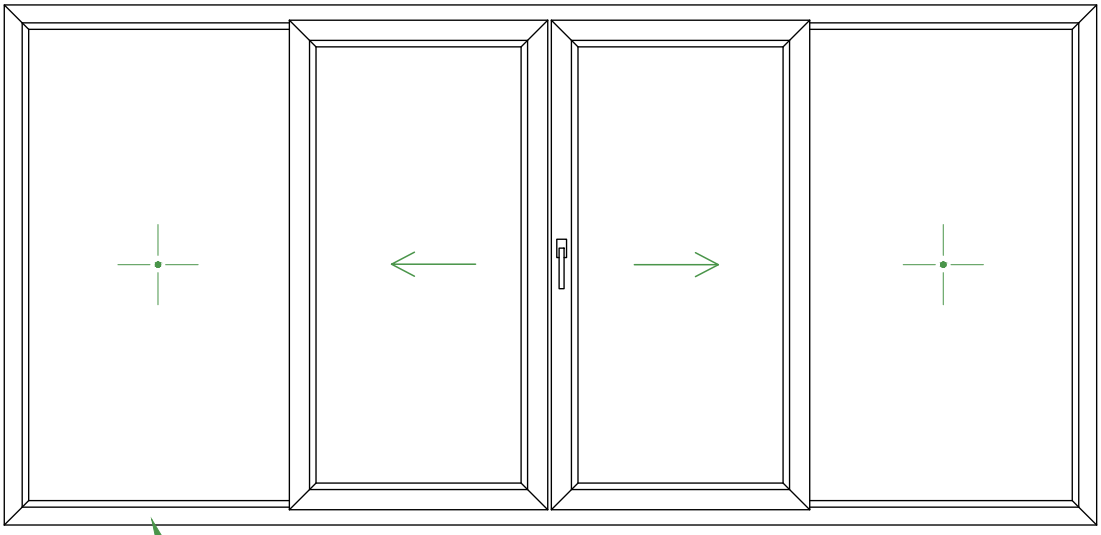


Sliding Window Designs





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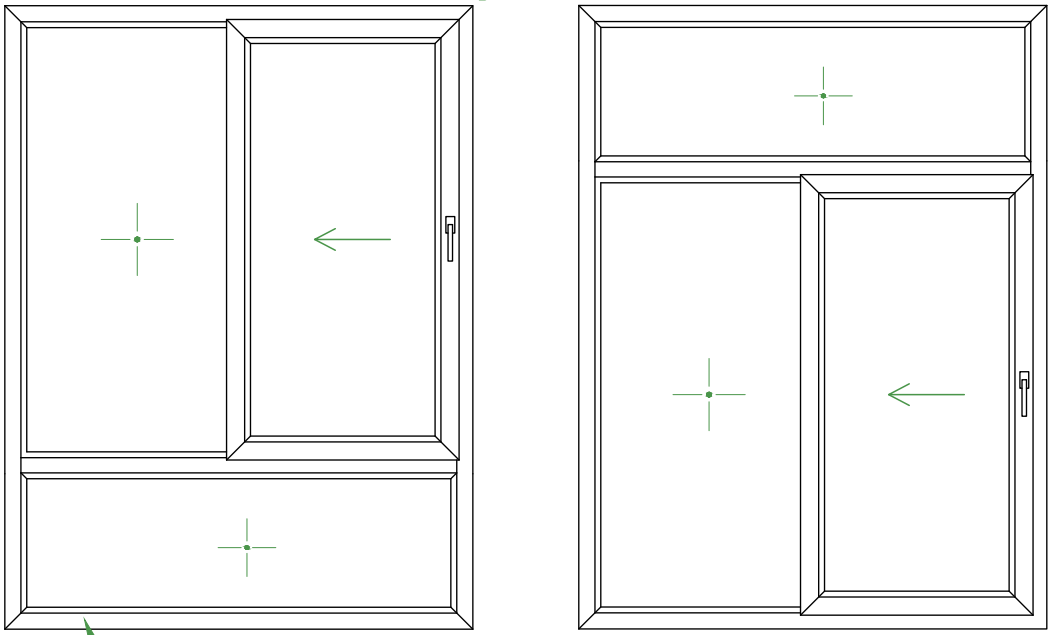

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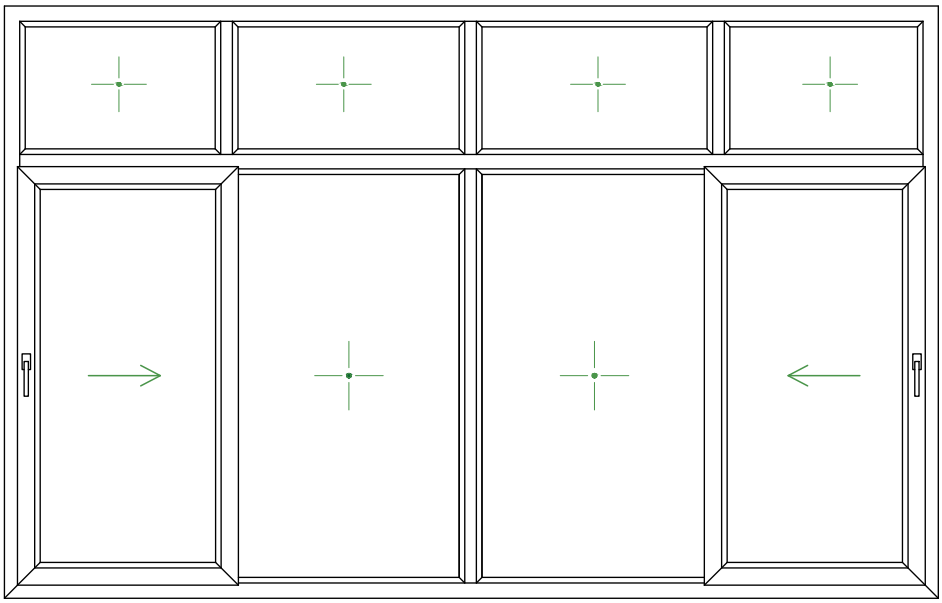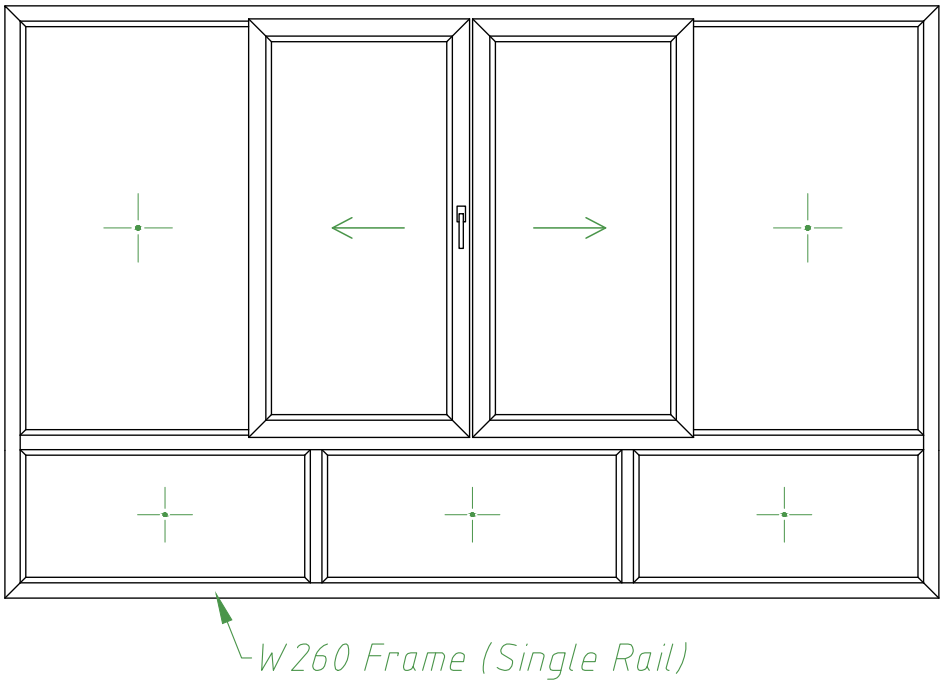
Sliding Window Designs