

The glass guide for experts



SAINT-GOBAIN GLASS DESIGN

The future of habitat. Since 1665.

Welcome in the U-GLAS world!

U-shaped glass that gives sufficient rigidity for wide construction walls without metal sections.

Your solution for interior design
Endless applications in exterior design

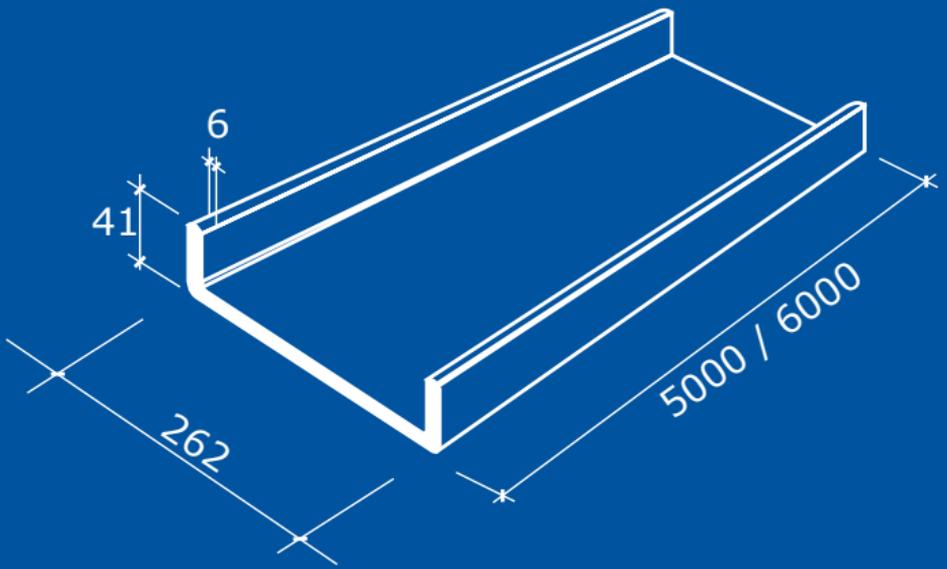
Advantages:

- Easy installation that reflects into low costs
- Large applicability indoor and outdoor
- Fair price vs long term usage
- Minimal accessories required
- Allows the construction of curved walls.
- Minimal maintenance
- Less storage space
- Available in several colours

Why U-Glas?

- The perfect solution for complex constructions and renovations.
- U-GLAS can be placed as a single glazing or double glazing.
- High level of brightness.
- Thermal and acoustic insulation.
- Uniform light diffusion.
- Provides the privacy you need.
- Can be installed horizontally or vertically.
- The reached height can be up to 4 m for simple partitions and 5 m for the double ones.
- High level of sound insulation.





SGG U-GLAS is used frequently in:

Flat or curved shaped facades

Spaces that require a significant amount of light: hotels, office buildings, shopping centers, health centers, sports centers, shopping malls and swimming pools

Interior Partitions - private homes

Shower walls or bathroom walls,

Furniture (desks, tables and bookstands),

Indoor and outdoor banisters,

Urban furniture

Schools and museums

Industrial, warehousing

Installation:

U-GLAS allows three possible types of installation:

The single glazing - line installation: The components are placed side by side, with all faces in the same direction.

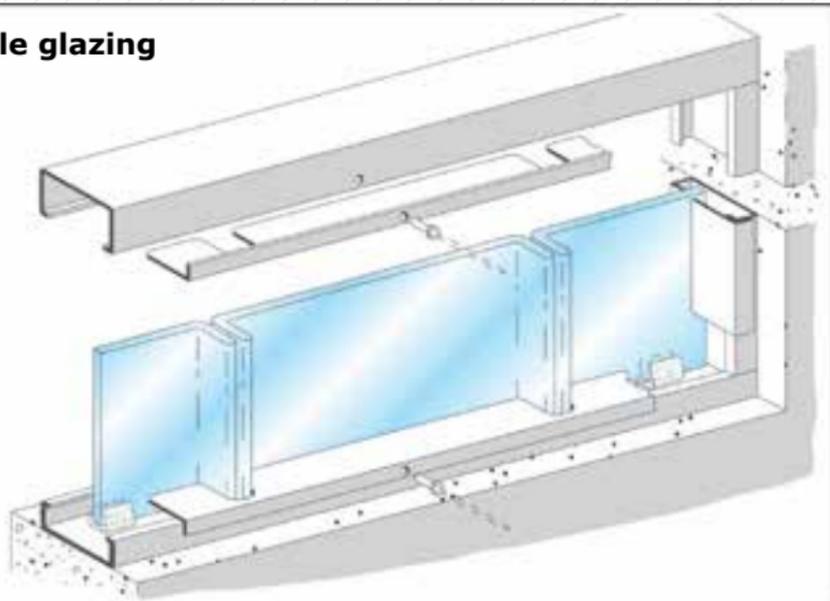
The interlaid single glazing - line installation, components are placed side by side, interlaced, alternating sides position.

The double glazing: Is distinguished by the combination of two elements, arranged in line and facing each other

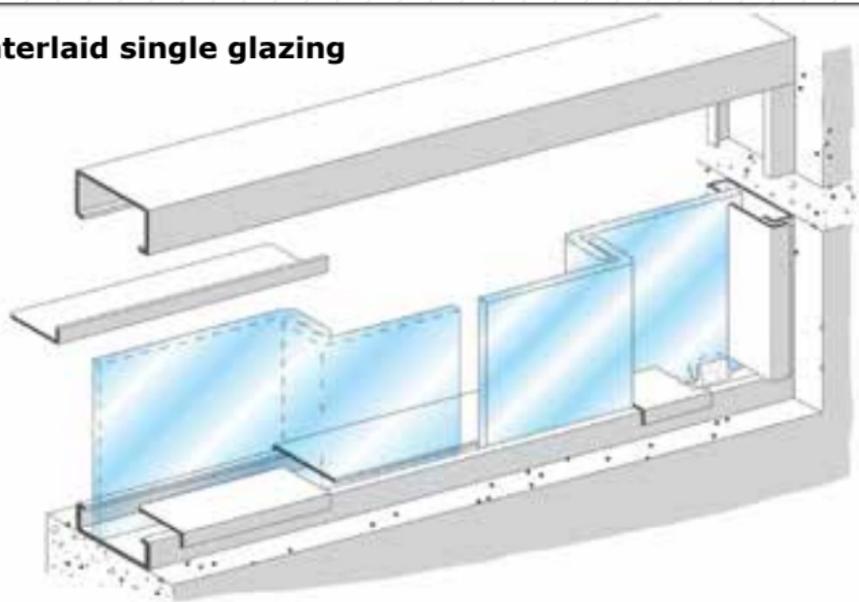
Follow the next easy steps for installing:

Installation types

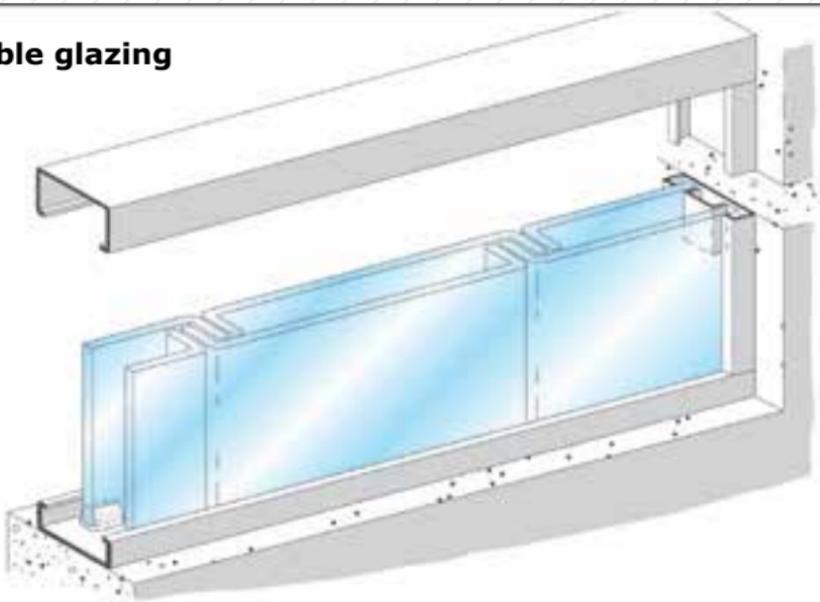
Single glazing

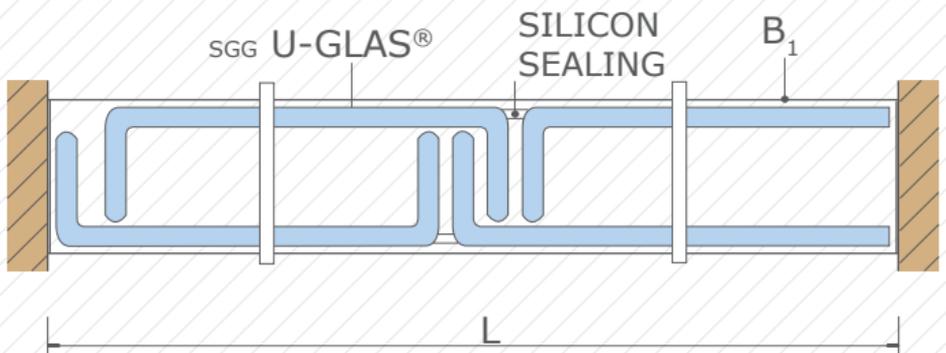
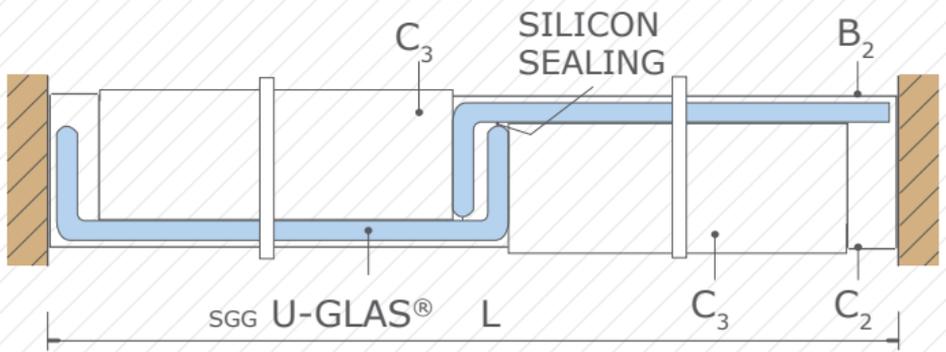
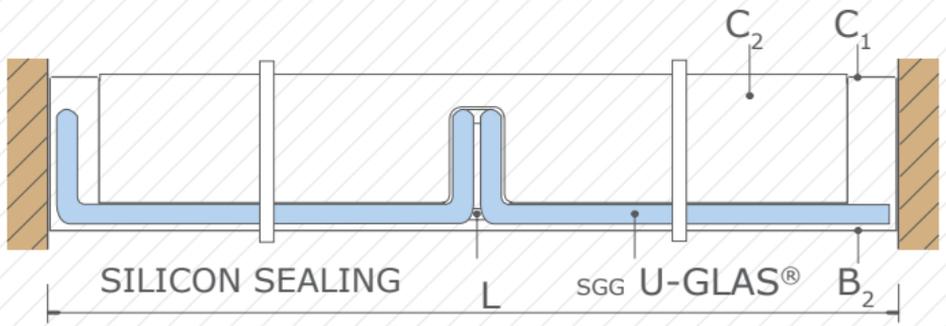
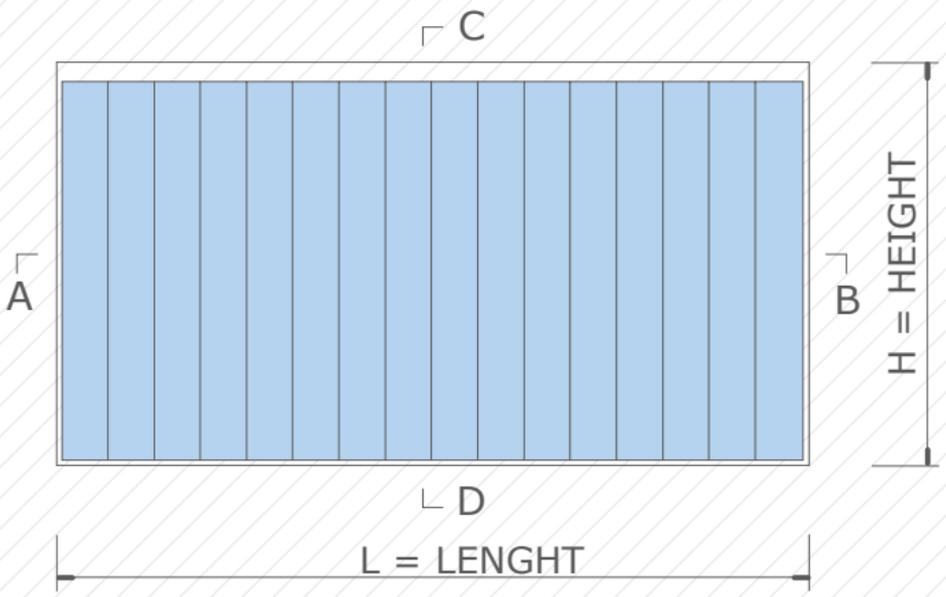


Interlaid single glazing



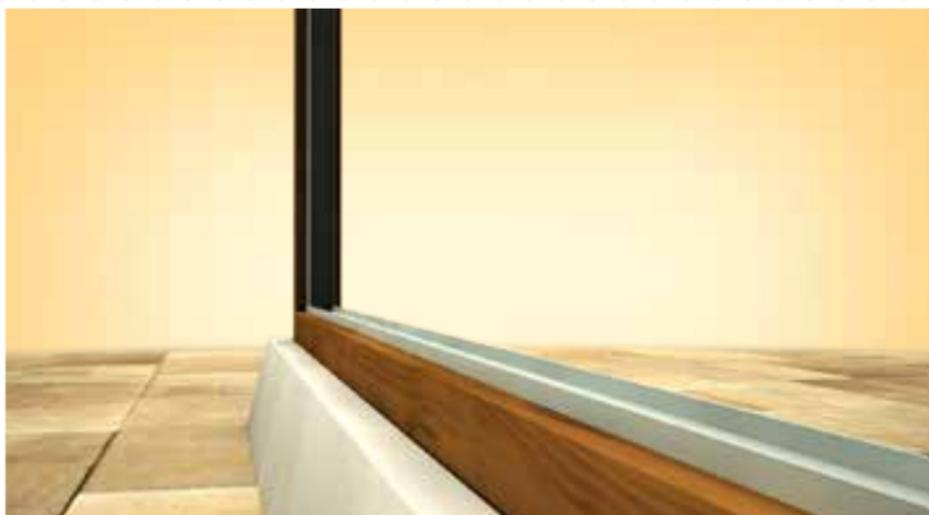
Double glazing



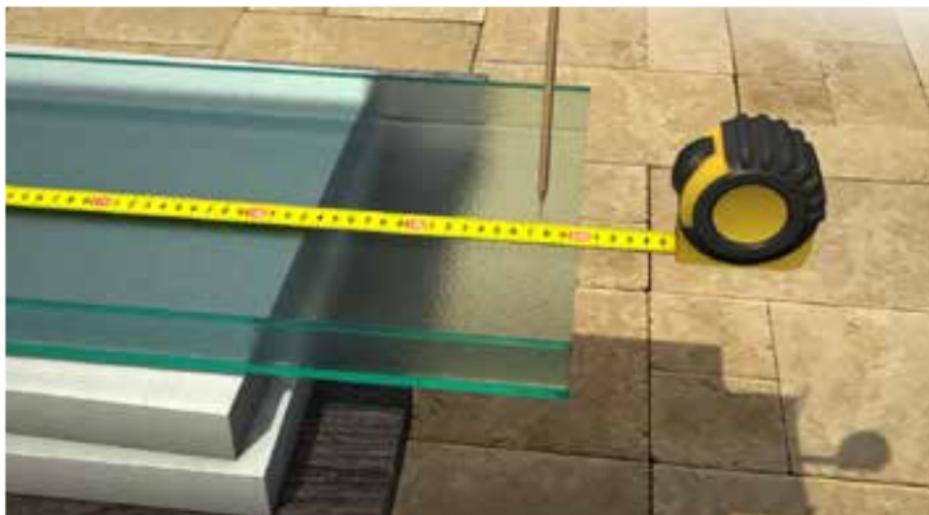


Single glazing:

1. Prepare the aluminum frame for the work. Place the B1 aluminum profile at the top and on the sides, while the B2 aluminum profile will be fixed at the bottom.

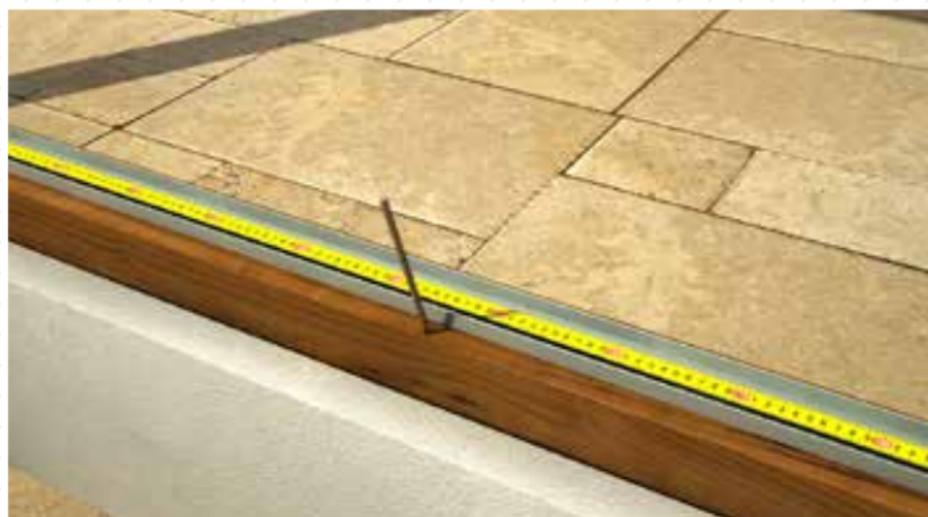


2. The glass must be cut so that its total length to become 2.5 cm shorter compared to the vertical distance of the space where it will be installed.





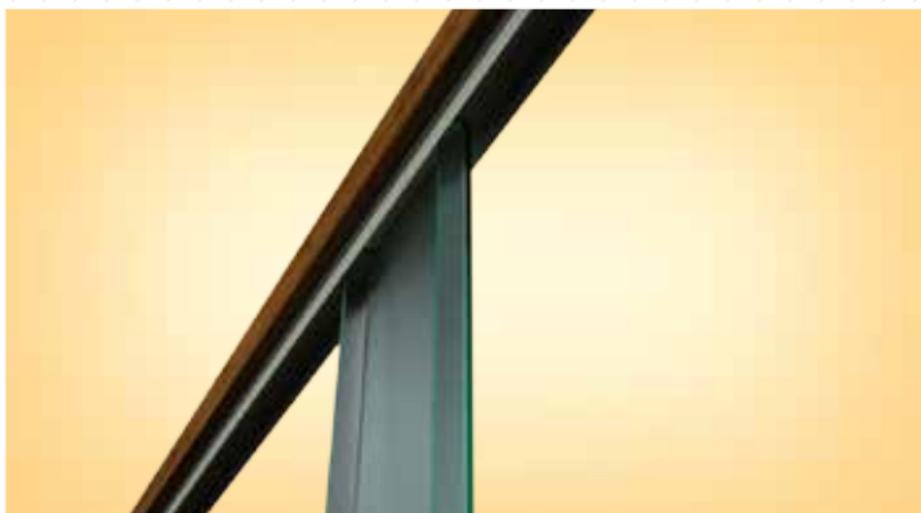
3. Measure the horizontal distance of the span where the U-GLAS will be placed. Mark the halfway point - from here you will start to install simultaneously the glass elements to the right and to the left.



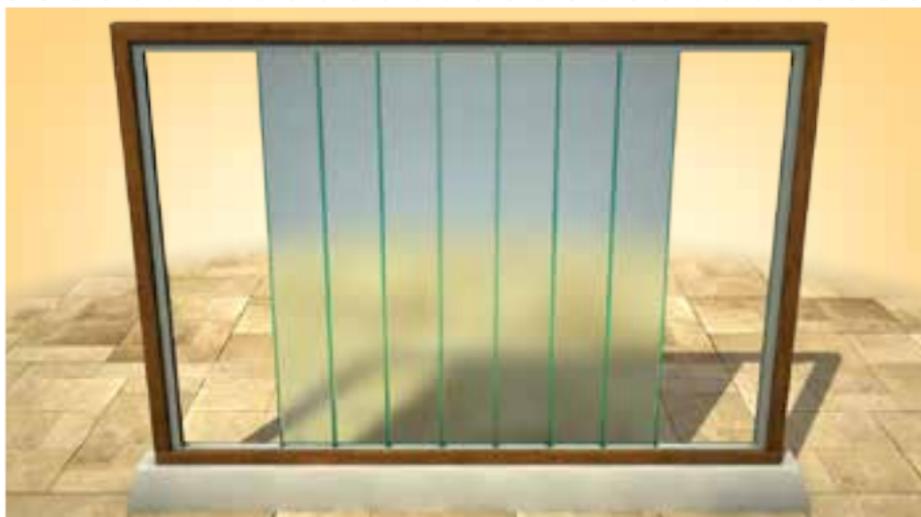
4. Put the strips of A polystyrene support band into the bottom profile.



5. The first glass element must be centered on the point previously marked. You will introduce it into the upper profile first and then into the bottom one.



6. Insert the other glass elements in the same way.



7. Insert the polystyrene pieces SP1 on top. SP2 profiles will be inserted into the bottom line, into the gap between the aluminum and glass.



8. You have 2 more sheets left on each side. Start with the one at the end. The remaining space is not enough for both sheets to fit. Measure the existing space first and then cut the last glass element vertically, so that the one you set next to it will perfectly fit.





9. Fix the two C2 horizontal profiles, both on top and bottom.



10. Fix C1 vertical profiles on the sides.



11. At the end, for the elements jointing, fill in the spaces between the glass elements and the spaces around the aluminum frame with silicone.



Double glazing:

1. Prepare the aluminum frame for the work. Place the B1 aluminum profile at the top and on the sides, while the B2 aluminum profile will be fixed at the bottom.



2. The glass must be cut so that its total length to become 2.5 cm shorter compared to the vertical distance of the space where it will be installed.



3. Measure the horizontal distance of the span where the U-GLAS will be placed. Mark the halfway point - from here you will start to install simultaneously the glass elements to the right and to the left.



4. Place the AC support into the middle of the frame.

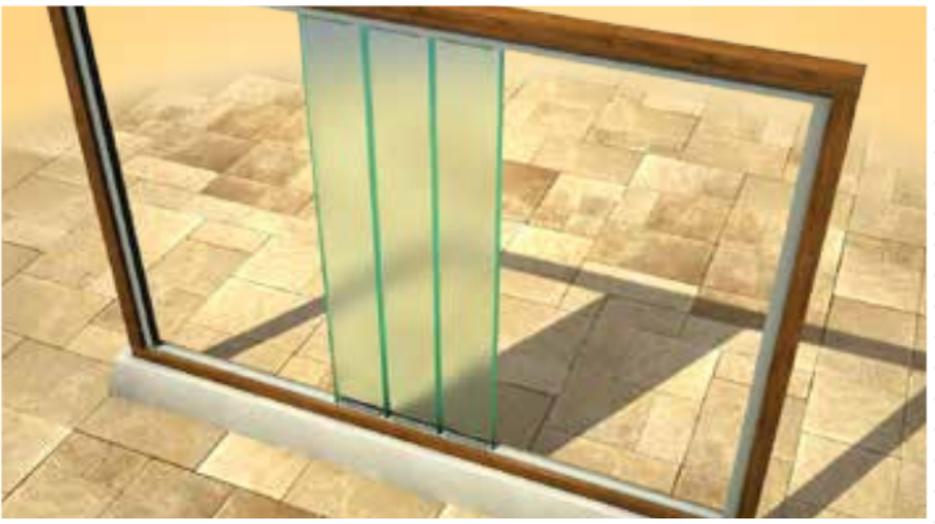


5. Insert the SC spacing profile on the top of the glass element.



6. Place U - GLAS starting from the middle and continue to the both sides. Start first with the back glass element, fix it into the upper profile and then into the AC support below, that was previously placed in the middle. Add the other glass plates strating from the middle toward the sides.





7. Do the same for the next U – GLAS double plate.



8. Place the front plates over the back ones, as shown in the picture. Both sheets should be framed properly into the SC spacing profile.



9. You have 2 more sheets left on each side. Start with the one at the end. The remaining space is not enough for both sheets to fit. Measure the existing space first and then cut the last glass sheet vertically, so that the one you set next to it will perfectly fit.

10. For a complete assembly, fix the last two front sheets over the back ones.



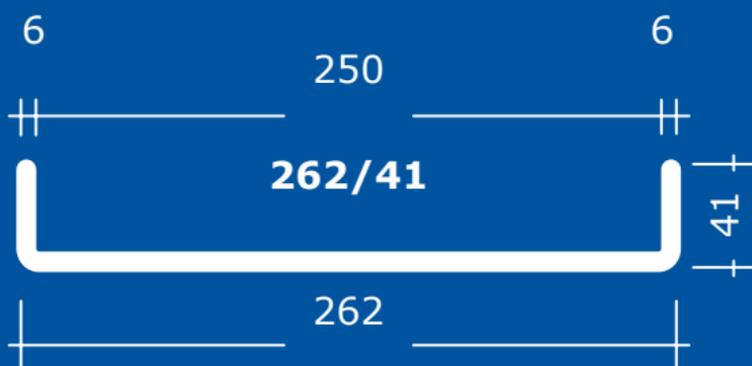
11. At the end, for the elements jointing, fill in the spaces between the glass elements and the spaces around the aluminum frame with silicone.



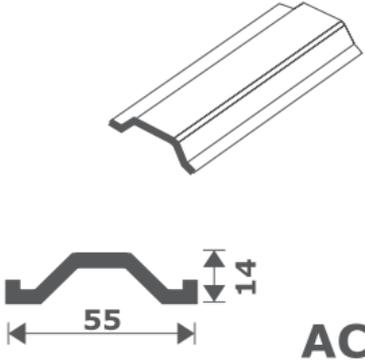
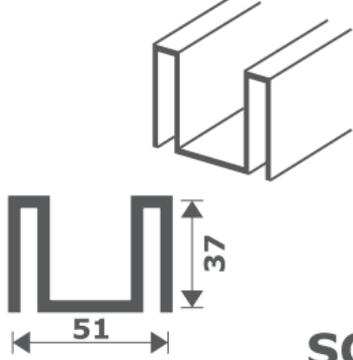
SGG U-GLAS® LINE

		U-GLAS 262/41/6
Weight	kg(m ²)	19,0
Maximum lenght		6000
SGG U-GLAS® CLEAR (cu ornamente)		S
SGG U-GLAS® DIAMANT		S
SGG U-GLAS® BLUE		S
SGG U-GLAS® BRONZE		S
SGG U-GLAS® GREY		S
SGG U-GLAS® GREEN		S
SGG U-GLAS® ESTRIADO		
Light transmission, clear glass		simple glazing: 86%
Light transmission, extra clear glass		simple glazing: 89%
Soundproof	Rw(dB)	simple glazing: 22 double glazing: 38-41

thickness 6 mm, wing 41 mm.



SGG U-GLAS® ACCESORIES wing 41 mm (PVC)

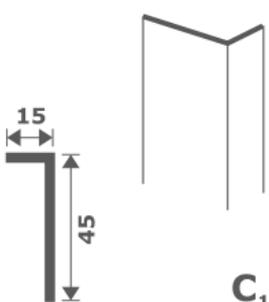
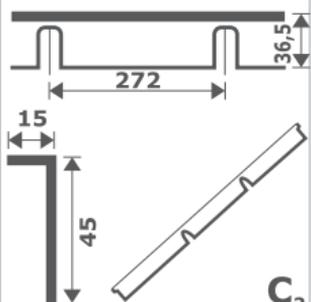
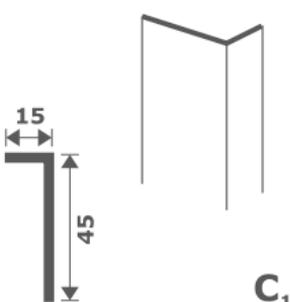
	Support part AC			Support part SC		
Dimensions LxWxH mm	55 x 14 x 200			51 x 37 x 200		
Designation	Support part has a separator and support role			Separator part and superior adjuster		
Sketch	 <p style="text-align: center;">AC</p>			 <p style="text-align: center;">SC</p>		
Application	Single	Inlaid	Double	Single	Inlaid	Double
			x			x

The accessory system is also available in the option of 60 mm. Please contact your Saint-Gobain Glass partner for more details.



	U Profile B₁			U Profile B₂		
Dimensions LxWxH mm	54 x 50 x 6000			54 x 15 x 6000		
Designation	Superior profile (single glazing, inlaid and double glazing) Lateral profile			Inferior profile (single glazing, inlaid and double glazing) Lateral profile		
Sketch						
Application	Single	Inlaid	Double	Single	Inlaid	Double
	X	X	X	X	X	X

SGG U-GLAS® ACCESORIES wing 41 mm (Aluminum)

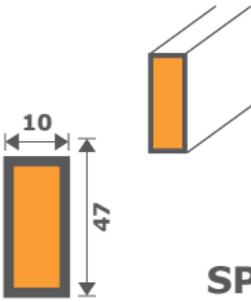
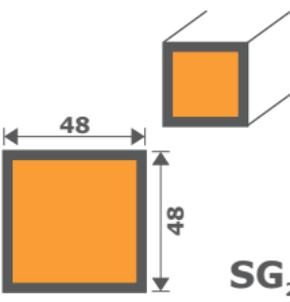
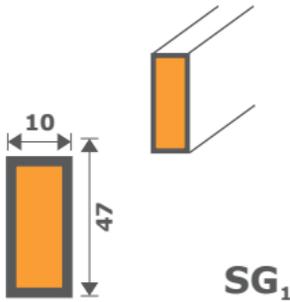
L Profile C ₁			L Profile C ₂			L Profile C ₁		
45 x 15 x 6000			15 x 45 x 6000			15 x 45 x 240		
Covering lateral profile (single glazing, inlaid and double glazing)			Covering superior/inferior with wing slots profile (single glazing, inlaid and double glazing)			Covering superior/inferior profile (inlaid glazing)		
 <p>C₁</p>			 <p>C₂</p>			 <p>C₁</p>		
Single	Inlaid	Double	Single	Inlaid	Double	Single	Inlaid	Double
X	X	X	X				X	



	Support band A			Wedge SP₂		
Dimensions LxWxH mm	4 x 52 x 1000			48 x 48 x 245		
Designation	The support band is used in the profile's interior, as a support plate (single and inlaid glazing)			Adjusting wedge is used in the interior of the superior profile (single glazing)		
Sketch						
Application	Single	Inlaid	Double	Single	Inlaid	Double
	X	X		X		

SGG U-GLAS® ACCESORIES

wing 41 mm (Polystyrene)

Wedge SP ₁			Wedge SG ₂			Wedge SG ₁		
10 x 47 x 245			48 x 48 x 230			47 x 10 x 240		
Adjusting wedge is used in the interior of the inferior profile (single glazing)			Adjusting wedge is used in the interior of the superior profile (inlaid glazing)			Adjusting wedge is used in the interior of the inferior profile (inlaid glazing)		
 <p style="text-align: center;">SP₁</p>			 <p style="text-align: center;">SG₂</p>			 <p style="text-align: center;">SG₁</p>		
Single	Inlaid	Double	Single	Inlaid	Double	Single	Inlaid	Double
X				X			X	



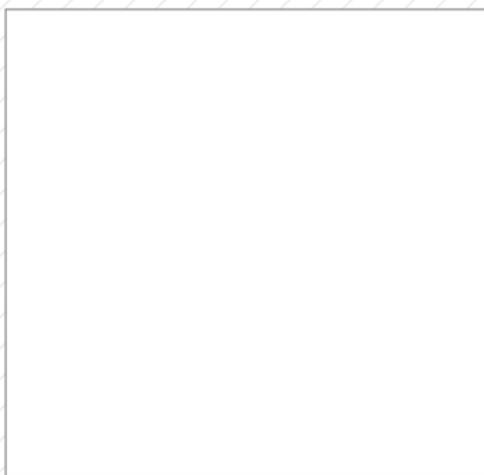




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