

CORRUGAL - CORRUGATED POLYCARBONATE SOLID SHEETS

High quality sheets with superior optical and physical properties.

Plazit-Polygal corrugated polycarbonate solid sheets are virtually unbreakable, easy to install and highly transparent. Coextruded with a UV protection layer, CORRUGAL offers in a large variety of colors and shapes for a wide range outdoor applications.

RECOMMENDED APPLICATIONS

Construction and industry









Architectonic Structures



Glazing



Standard Dimensions

Type	Shape	Profile	Thickness (mm)	Width (mm)	Length (mm)
Sinus		76/18	0.5-1.2	810,1100,1260	1.5-11.80
Greca		76/18	0.6-1.2	970,1260	
P-7 (Big Wave)		177/51	0.8-1.2	920,1100	
TR-40 (Trapezoid-Shaped)		196/40	0.8-1.2	1118	
R-101		145/22	0.8-1.2	1070	
DV-4		333/50	0.8-1.2	1095	

Main Advantages

- 100% waterproof
- Practically unbreakable
- Lightweight and flexible
- Highly transmittance
- Highly resilient
- Easy to transport
- Easy to handle, cut and install

PROPERTIES




- Airtight sealing avoiding infiltration of water, dust, and foreign matter
- Anti-noise preventing vibration propagation
- Available under wave and over wave

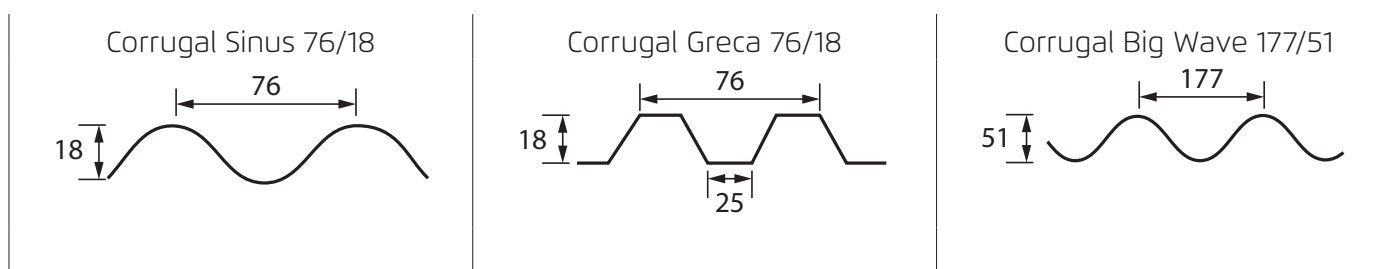
Colors

Colors	Light transmission %
Clear 89	89
Opal 50	50
Bronze	50
Luz %	35
Gray	50
Blue	50
Pearl	60
Turquoise	76
Metallic green < 0.8	35
Metallic blue < 0.8	35
Metallic gray < 0.8	35
Metallic green > 0.8	18
Metallic blue > 0.8	18
Metallic gray > 0.8	18

* Please consult us for other colors.

Purling spacing for Corrugal sheets

Type	Profile	Shape	Thickness (mm)	Load (kg/m²)		
				50	80	110
Corrugal Sinus	76/18		0.5	750	650	550
			0.6	850	750	650
			0.7	950	850	750
			0.8	1050	950	850
			0.9	1065	965	865
			1.0	1075	975	875
			1.1	1085	985	885
			1.2	1100	1000	900
Corrugal Greca	76/18		0.6	850	750	650
			0.7	950	850	750
			0.8	1050	950	850
			0.9	1065	965	865
			1.0	1075	975	875
			1.1	1085	985	885
Corrugal Big Wave	177/51		0.8	1125	1075	990
			0.9	1175	1125	1050
			1.0	1250	1200	1115
			1.1	1275	1225	1175
			1.2	1300	1250	1200



Theoretical weight Table

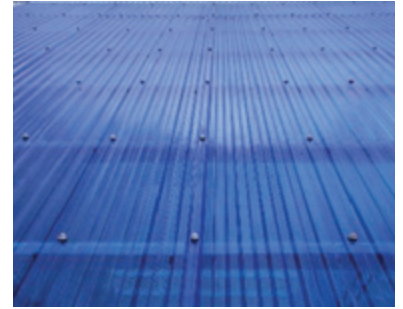
Thickness, mm / Type	Weight, kg/m²					
	Sinus 76/18	Greca 76/18	P-7 177/51	TR-40 196/40	R-101 145/22	DV-4 333/50
0.5	0.673					
0.6	0.808	0.892				
0.7	0.942	1.041				
0.8	1.077	1.190	1.128	1.149	1.090	1.164
0.9	1.211	1.338	1.269	1.292	1.227	1.309
1.0	1.346	1.487	1.410	1.436	1.363	1.455
1.1	1.481	1.636	1.551	1.579	1.499	1.600
1.2	1.615	1.785	1.692	1.723	1.636	1.749

Installation guide

Minimum radius for cold bending

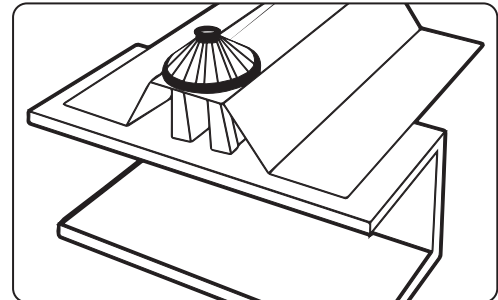
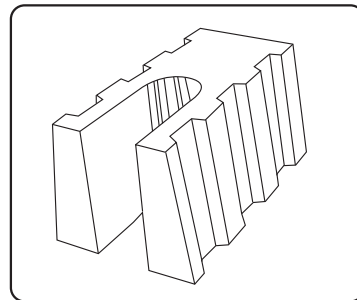
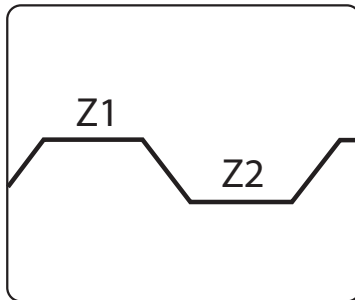
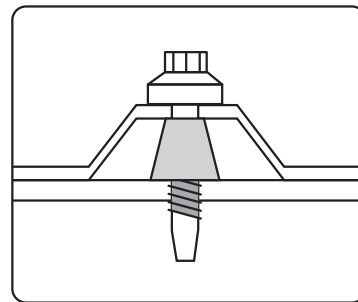
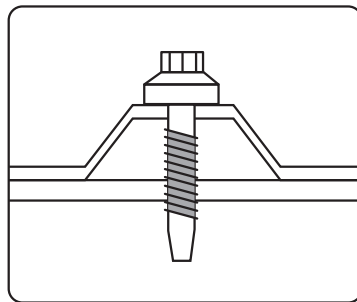
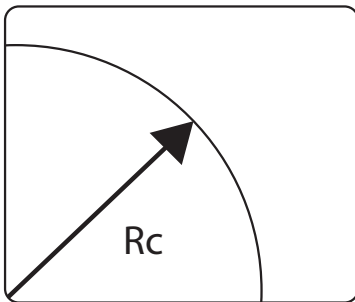
Minimum radius for cold bending will depend on the profile

Type	Radius (m)
Sinus 76/18	4
Greca 76/18	4
Big Wave 177/51	20



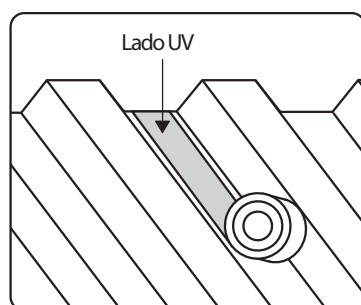
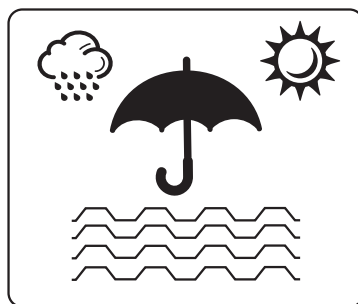
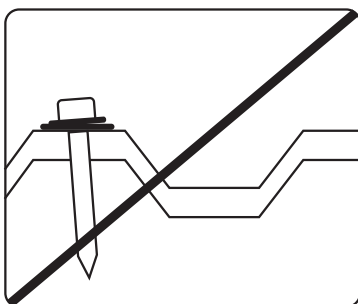
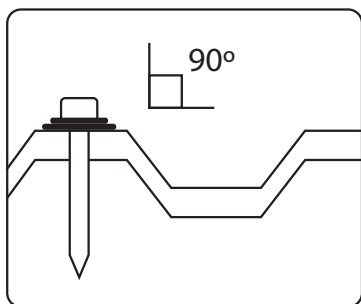
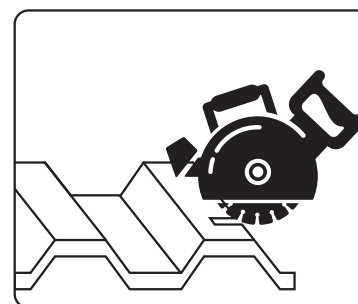
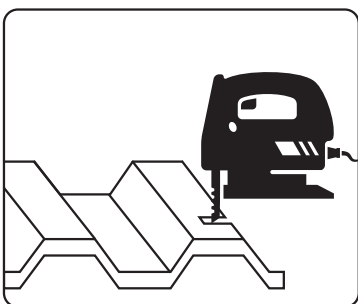
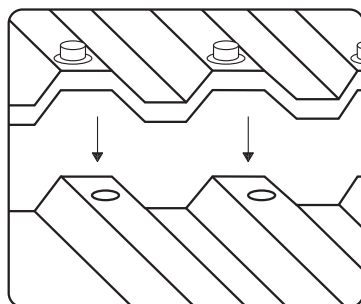
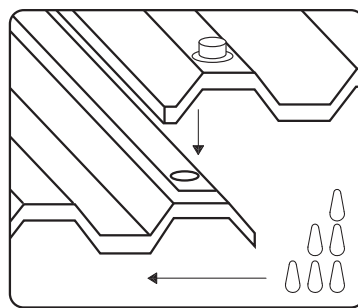
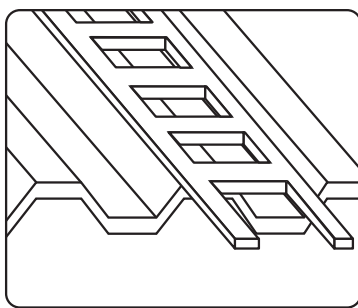
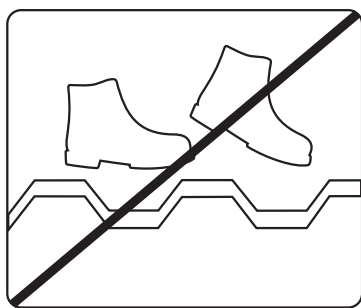
Assembly on cover or wall

- Start screwing where the sheet overlaps the previously installed sheet
- Fasten the sheets to purling by placing screws in the ridge of the sheets
- In case of installing on a wall a screw can be placed in the valley of the sheet
- Usage of a spacer is recommended
- Zone (Z1) Ridge, Zone (Z2)
- Minimum slope is 10% (5.7°)



Recommendations on installation

- Install the sheets with the UV side facing upwards and once it has been installed remove the tape and labels.
- Do not leave the sheets with tapes under the sun as it can become impossible to be removed.
- Use 2" screws for the installation of Greca and Sinus sheets.
- Use 3" 7/2 screws for Big Wave sheets.
- The usage of 79mm diameter EPDM is recommended for fastening screws.
- Screws must be screwed perpendicular to the sheets.
- Do not tighten the screws too much as it can damage the EPDM joint.
- The diameter of the hole for the screws is 3-4mm.



Cutting

- Use a circular saw with a plywood blade reversed.
- Support the sheets to avoid vibration and cut them slowly.

Safety

- Work in accordance with local safety regulations.
- Never walk on the sheet.
- Use a board placed across at least 3 rafters to spread the load.

Position

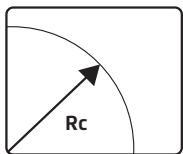
- Start panel installation from the side opposite the primary direction of wind
- The union between the sheets can only stand out 700mm measured from the axis of the screws to the edge.

Position of the screws in the sheet

Type	Position	
Sinus 76/18 Greca 76/18	External	
	Internal	
Big Wave 177/51	External	
	Internal	
TR-40	External	
	Internal	
R-101	External	
	Internal	
DV-4	External	
	Internal	

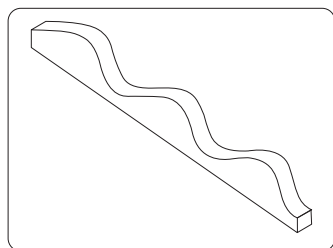
Minimum bending radius

The minimum bending radius will depend on the type Rc of sheet.

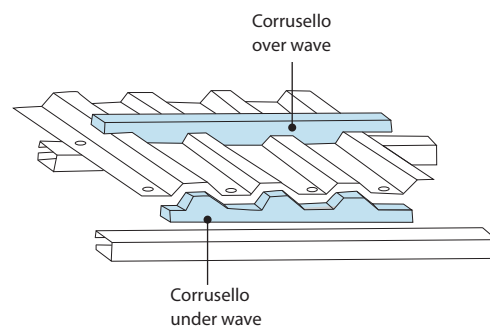
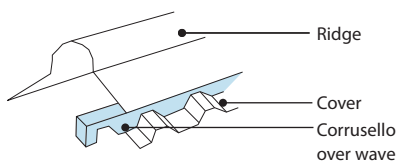


Corrusello Joints

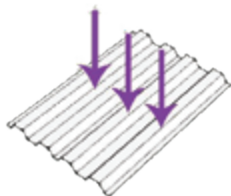
Corrusello joints are ideal to solve sealing problems in covering plates or linings with corrugal sheets. They are made of cross-linked POLYETHYLENE (PEX).



Corrusello joint

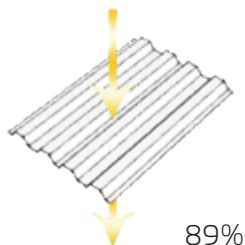


UV (15-400nm)



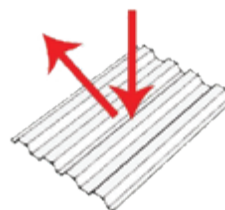
Corrugal sheets retain 99.9% of ultraviolet radiation, protecting the skin and objects under this cover.

Visible (400-780nm)



Corrugal clear sheets let up to 89% of visible light pass through.

Infrared (780-1650nm)



Reflectant Corrugal sheets block infrared radiation to lower the heat inside the protected area.



THE PLAZIT POLYGAL GROUP

With over 40 years experience, the Plazit Polygal Group is one of the leading international specialist manufacturers of thermoplastic sheets for numerous applications, respected worldwide for its wide range of innovative and high quality products and expert technical support.

With our globally spread production plants located in the USA, Chile, Bulgaria, Russia, Spain and Israel we provide fast, close to the market service to our clients worldwide.

As a global group we are committed to providing our customers with outstanding technical and commercial support, continuous product development, flexibility and swift response times - these commitments are key to all our activities.

The Plazit Polygal Group facilities are all certified according to the highest international standards in order to continuously supply superior quality products. Amongst our certifications: ISO 9001, fire and health certifications, as well as other international engineering standards.

Plazit-Polygal Group is a member of EPSE (European Polycarbonate Sheet Extrusion), which groups the leading PC extrusion producers in the world and of EPDA (European Plastics Distribution Association).

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