

PLASKOLITE

CORRUGAL[®]

Corrugated Polycarbonate
Solid Sheets

CORRUGAL



CORRUGAL - CORRUGATED POLYCARBONATE SOLID SHEETS

High quality sheets with superior optical and physical properties.

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

RECOMMENDED APPLICATIONS



Standard Dimensions

Type	Shape	Profile	Thickness (mm, in)	Width (mm, in)	Length (m/ft)
Sinus		76/18	0.5-1.2 (0.020"-0.047")	810, 1110, 1260 (32", 44", 50")	1.5- 11.8 (4.92'- 38.7')
Greca		76/18	0.6-1.2 (0.024"-0.047")	970, 1260 (38", 50")	
P-7 (Big Wave)		177/51	0.8-1.2 (0.031"- 0.047")	920, 1110 (36", 44")	
TR-40 (Trapezoid-Shaped)		196/40	0.8-1.2 (0.031"- 0.047")	1118 (44")	
R-101		145/22	0.8-1.2 (0.031"- 0.047")	1070 (42")	
DV-4		333/50	0.8-1.2 (0.031"- 0.047")	1095 (43")	

Main Advantages

- » 100% waterproof
- » Practically unbreakable
- » Lightweight and flexible
- » High 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

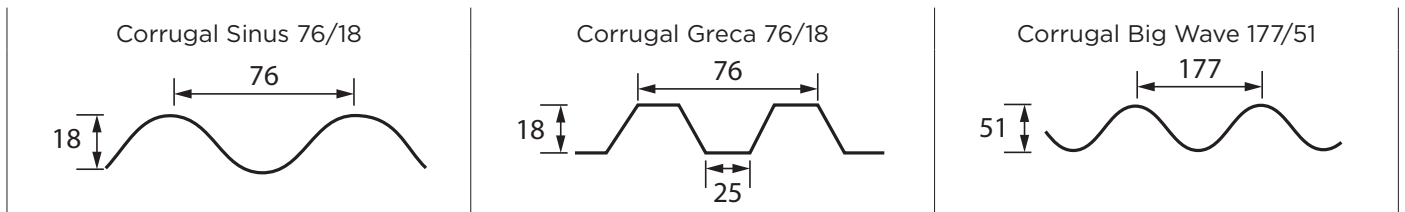
Colors

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, in)	Load (mm, in)		
				50 kg/m ²	80 kg/m ²	110 kg/m ²
Corrugal Sinus	76/18		0.5 (0.020")	750mm, 29.5"	650mm, 25.6"	550mm, 21.7"
			0.6 (0.023")	850, 33.5"	750, 29.5"	650, 25.6"
			0.7 (0.027")	950, 37.4"	850, 33.5"	750, 29.5"
			0.8 (0.031")	1050, 41.3"	950, 37.4"	850, 33.5"
			0.9 (0.035")	1065, 41.9"	964, 38.0"	865, 34.0"
			1.0 (0.039")	1075, 42.3"	975, 38.4"	875, 34.4"
			1.1 (0.043")	1085, 42.7"	985, 38.9"	885, 34.8"
			1.2 (0.047")	1100, 43.3"	1000, 39.4"	900, 35.4"
Corrugal Greca	76/18		0.6 (0.023")	850mm, 35.5"	750mm, 29.5"	650mm, 25.6"
			0.7 (0.027")	950, 37.4"	850, 33.5"	750, 29.5"
			0.8 (0.031")	1050, 41.3"	950, 37.4"	850, 33.5"
			0.9 (0.035")	1065, 41.9"	965, 38.0"	865, 34.0"
			1.0 (0.039")	1075, 42.3"	975, 38.4"	875, 34.4"
			1.1 (0.043")	1085, 42.7"	985, 38.8"	885, 34.8"
Corrugal Big Wave	177/51		0.8 (0.031")	1125mm, 42.3"	1075mm, 42.3"	900mm, 35.4"
			0.9 (0.035")	1175, 46.3"	1125, 44.3"	1050, 41.3"
			1.0 (0.039")	1250, 49.2"	1200, 47.2"	1115, 43.9"
			1.1 (0.043")	1275, 50.2"	1225, 48.2"	1175, 46.3"
			1.2 (0.047")	1300, 51.2"	1250, 49.2"	1200, 47.2"



Theoretical weight Table

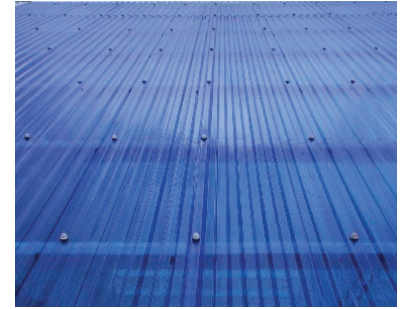
Thickness, mm/in	Weight, kg/m ² , psf					
	Sinus 76/18	Greca 76/18	P-7 177/51	TR-40 196/40	R-101 145/22	DV-4 333/50
0.5 (0.020)	0.673, 0.14					
0.6 (0.024)	0.808, 0.17	0.892, 0.18				
0.7 (0.028)	0.942, 0.19	1.041, 0.21				
0.8 (0.031)	1.077, 0.22	1.190, 0.24	1.128, 0.23	1.149, 0.24	1.090, 0.22	1.164, 0.24
0.9 (0.035)	1.211, 0.25	1.338, 0.27	1.269, 0.26	1.292, 0.26	1.227, 0.26	1.309, 0.27
1.0 (0.039)	1.346, 0.28	1.487, 0.30	1.410, 0.29	1.436, 0.29	1.363, 0.28	1.455, 0.30
1.1 (0.043)	1.481, 0.30	1.636, 0.34	1.551, 0.32	1.579, 0.32	1.499, 0.31	1.600, 0.33
1.2 (0.047)	1.615, 0.33	1.785, 0.37	1.692, 0.34	1.723, 0.35	1.636, 0.34	1.749, 0.36

Installation guide

Minimum radius for cold bending

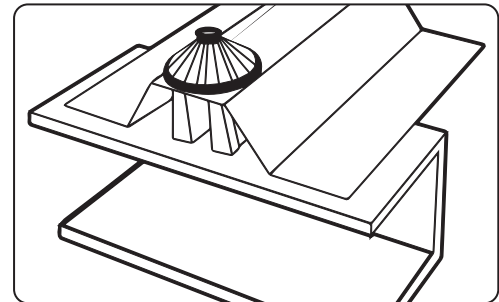
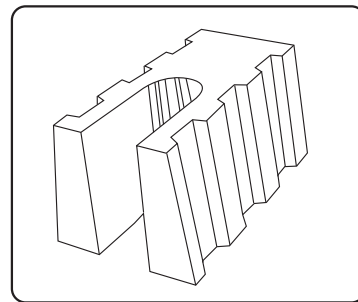
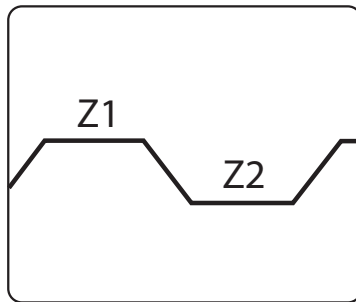
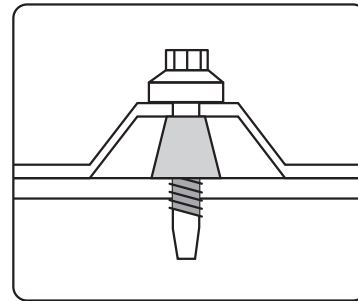
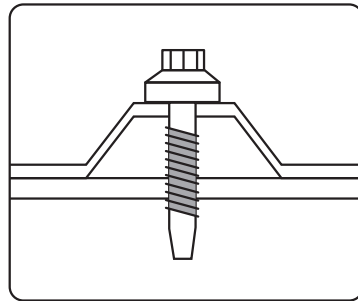
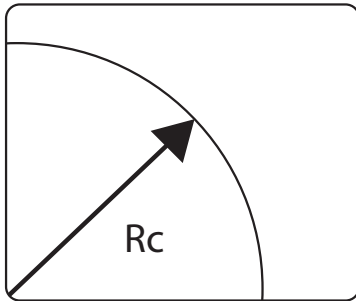
Minimum radius for cold bending will depend on the profile

Type	Radius (m, ft)
Sinus 76/18	4 (13.1)
Greca 76/18	4 (13.1)
Big Wave 177/51	20 (65.6)



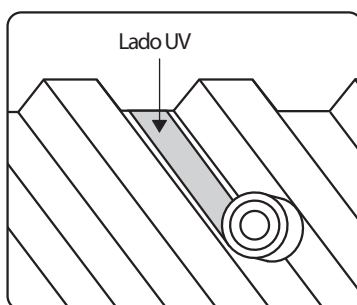
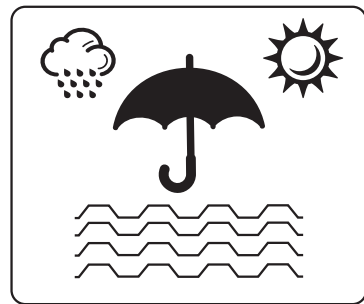
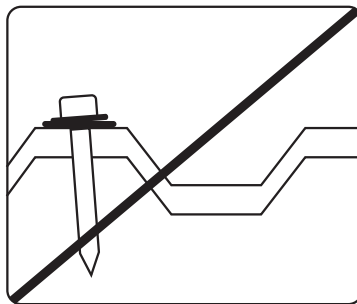
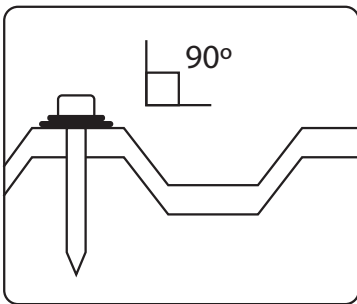
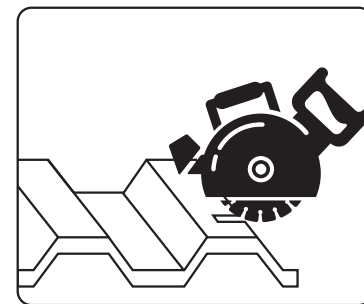
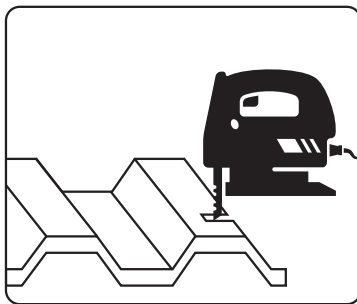
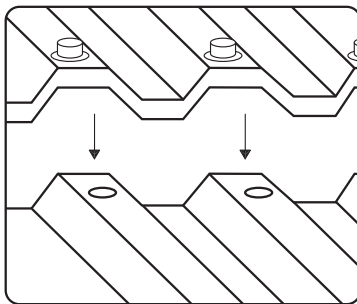
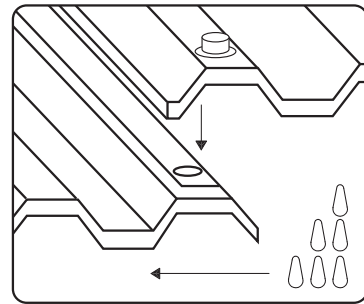
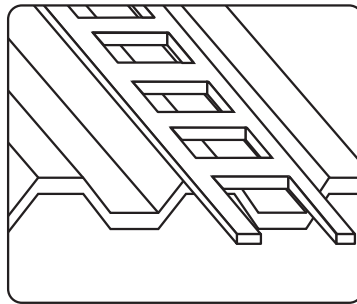
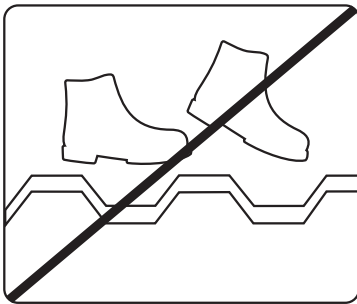
Assembly on cover or wall

- » 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 masking on under the sun as it can become impossible to be removed.
- » Use 50.8mm (2") screws for the installation of Greca and Sinus sheets.
- » Use 76.2mm, 3" screws for Big Wave sheets.
- » The usage of 79mm (3.1) diameter EPDM washer 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 synthetic rubber washer.
- » The diameter of the hole for the screws is 3-4mm (0.118" - 0.157").



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 of the screws in the sheet

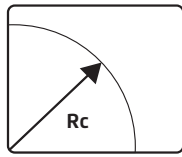
- » Start panel installation from the side opposite the primary direction of wind
- » The union between the sheets can only stand out 700mm 27.6in measured from the axis of the screws to the edge.

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	

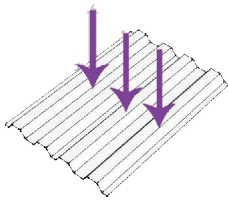
Minimum bending radius

The minimum cold bending radius is dependent on the grade of the corrugated panel and its profile.

Corrugated Shape	Radius m(ft)
Sinus P3	4, (13.1')
Greca	4, (13.1')
P7 Big Wave	8, (26.2')
TR40	8, (26.2')
R101	8, (26.2')
DV4	8, (26.2')

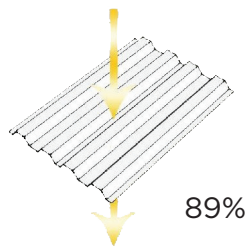


UV (15-400nm)



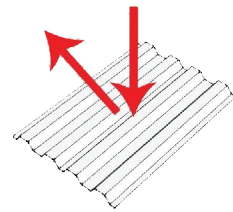
Corrugal sheets retain 99.9% of ultraviolet radiation, protecting the skin and objects under this cover.

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.

PLASKOLITE

A GLOBAL LEADER IN THE PRODUCTION OF THERMOPLASTIC SHEET

FOUNDED IN 1950

Our Mission: to deliver superior thermoplastic sheet, coatings and polymers to the world, through long-lasting customer relationships and hands-on customer service.

MANUFACTURING LOCATIONS



From our founding, PLASKOLITE strives to treat our employees, our customers, our community and the world, with kindness, dignity and respect. This drives our continuing effort to create sustainable products, in a sustainable manner, for future generations. This on-going commitment is expressed in the

PLASKOLITE Sustainable Ecosystem:

QUICK FACTS

STATUS: Privately held

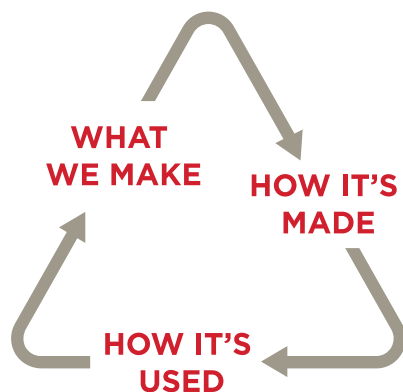
GLOBAL HEADQUARTERS: Columbus, OH

EMPLOYEES: 1900 Worldwide

MARKETS SERVED: Signage, Lighting, Retail Display, Construction, Transportation, Security, Bath & Spa, Industrial, Architecture, Green Houses

OUR PILLARS OF SUSTAINABILITY

EACH CONTRIBUTES TO MAKING THE WORLD A BETTER PLACE



WHAT WE MAKE

Versatile, high-quality, durable thermoplastic materials...not single-use plastics

HOW IT'S MADE

How we make our products reflects our overall philosophy of continuous environmental improvement

HOW IT'S USED

Our thermoplastics play an important role in advancing human well-being, energy conservation and quality of life

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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