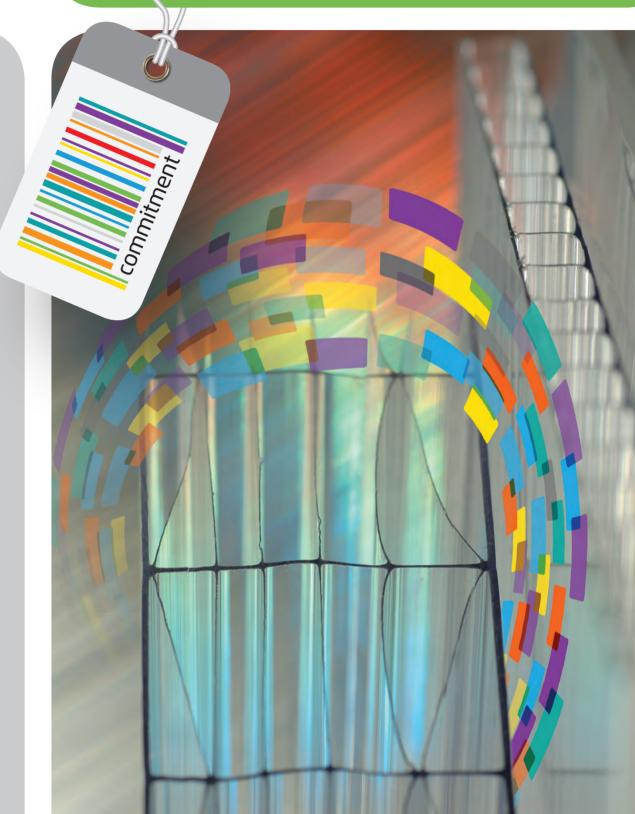


POLYGAL



Multi Wall Sheets







Polycarbonate Multi Wall Sheets

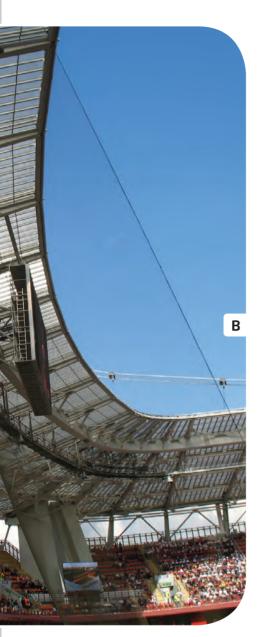
The Art of Light Management

Great artists know how to work with light. Great architects and designers look for the best materials to bring the light into each space so as to create the right atmosphere. Plazit-Polygal produces a range of flexible multi wall thermoplastic sheets that are ideal for many roofing, glazing, skylights, signage and interior design projects. They enable you to manage the available light and provide insulation and UV-protection, as well as adding texture and color to your project.

Our multi wall sheets are constructed from multiple layers of polycarbonate for maximum strength, with an internal cellular structure that makes them light and flexible.

Features and Benefits

- Excellent insulation
- Controlled daylight transmission
- Virtually unbreakable
- Flexible and easy to install
- Good fire resistance
- Lightweight
- UV-blocking
- Environmentally friendly







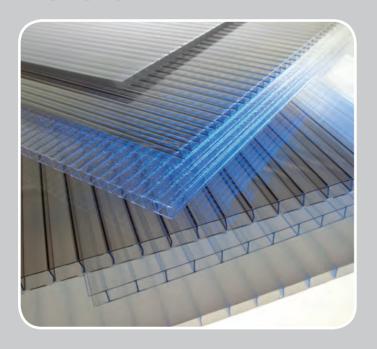
- **A** Agriculture maximizing natural light and thermo-insulation all year round.
 - **B** Architecture lightweight roofing with selective layers for light management.
 - **C** Decorative creative design feature with endless color and illumination options.
 - **D** Signage lightweight material with optimum light diffusion for lightbox signs.





Polygal Standard.

Double and triple-layered Polygal Standard sheets are manufactured in various colors and degrees of transparency. Polygal Standard is designed for use in most conventional roofing and glazing applications.



Polygal Thermogal.

Thermogal's unique interior X-brace combines extra strength and rigidity with outstanding insulation. Ideal for low-pitched roofs and for glazing closed structures with large-span openings, Thermogal is available in different thicknesses, widths, and colors.







Polygal Selectogal.

An exclusive Polygal patent lets Selectogal (RFX) control the penetration of heat and the transmission of natural daylight into buildings, reducing heating and lighting costs. Selectogal's sophisticated prismatic structure reflects most of the sun's heat in the summer and allows increased penetration of solar heat in the winter.

Polygal Titan Sky.

Titan Sky's internal cross-brace structure gives these sheets twice the strength and rigidity of equivalent standard polycarbonate sheets. Polygal Titan Sky presents an advanced solution that stands up to heavy loads.



Mechanical and Thermal Properties

Product	Structure	Thick (mm)	Wei (Lbs	Star Wid	Minimur Radius for Cold Bending Arches (U-F; (BTC	Light Transmission (%)*		
		Thickness (mm)	Weight (Lbs/SqFt)	Standard Width (inch)	Minimum Radius for Cold Bending Arches (inch)	U-Factor (BTU/h/Ft2/F)	Clear	lce	Bronze
Polygal Standard		4	.18	48" 72"	27"	.69	82	32	41
		6	.27		41"	.63	80	32	41
		8	.31		55″	.58	80	32	41
		10	.35		69″	.53	79	32	41
		16	.55		110″	.41	72	32	41
Polygal Titan Sky		16	.52	47.25"	110″	.37	62	32	42
Polygal Selectogal		16	.62	47.25"	110″	041	68	-	42
Thermogal Super		32	.82	47.25"	220″	.19	37	-	-

^{*} ASTM D1003

Available In Standard Colors

Call Customer Service for more information regarding color availability

Standard Sheet Length

Contact Customer Service@ 704-588-3800 for more information.

Thermal Expansion

.177"/39.37": Clear, and Ice .177"/3.2' in/ft: All Other Colors

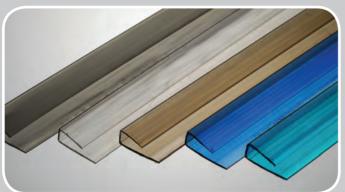
Service Temp. Range

-40 - 248 F









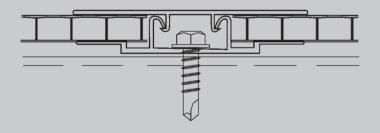
Polygal Systems

Connection Systems and Accessories

Our interconnecting polycarbonate or aluminum profiles connect multiple multiwall sheets to cover large areas. They add no weight and lie flush with the sheets. They are UV-resistant and provide excellent sealing for roofs and inclined walls, because they do not obstruct light at connection points. Our profiles are available in unlimited lengths, are easy to handle and install, and suit most roofing, curtain wall and cladding applications

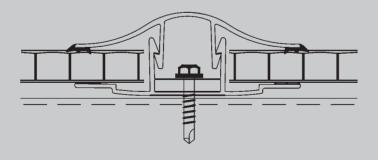
Recommended Uses

Our profiles suit most roofing, curtain wall, and cladding applications.



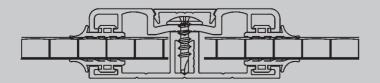
ECP 2G Polygal System

Connection system for polycarbonate profiles designed to connect multiwall polycarbonate sheets with thicknesses between 8mm & 10mm. Profiles can easily be connected together to form reliable joints. Manufactured in all standard colors, in lengths of 12' or 24'...



| **NEW** | GCP Polygal System

Connection system for polycarbonate profiles with integrated co-extruded gaskets, designed to connect multiwall polycarbonate sheets with thicknesses between 6 mm to 16 mm. Provides a very well sealed connection, manufactured in all standard colors, in lengths of 12' or 24'.



MGL Polygal System

Aluminium glazing system designed to connect multiwall polycarbonate sheets with thicknesses between 8mm to 16mm. Provides a rigid and sealed connection. Length up to 24' only.



Selective Layers

POLYSHADE

Δ

Designed for warm climates, Polyshade reflects sunlight to prevent excess heat build Up for effective control of solar heat.

PRIMALITE

R

These unique sheets selectively reflect most of the near-IR solar radiation and transmit more visible light.

SILHOUETTE

 C

Silhouette, with its sophisticated and lustrous exterior surface, radiates elegance and style and features outstanding reflective qualities and light selectivity. Available in Pearl and Gold.

POLYCOOLITE

D

Specifically designed to let in natural light for photosynthesis, Polycoolite blocks harmful UV rays, supplies high blues and reds, and reflects heat from the unused green.

SPRING

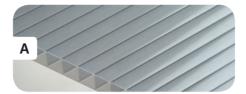
Ε

Spring, a transparent sheet with a special co-extrusion layer on the exterior side (under its UV protective layer), blocks invisible IR solar radiation and heat.

RAINBOW

c

Special optical effects in Rainbow sheets combine with the angle of light to change the sheet color (for example, from red to green) to harmonize with any setting.

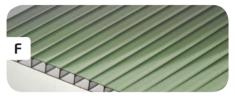












Optical Properties of Selective Layers

Selective Layer	Structure	Thickness (mm)	Light Tra ASTM D1003	ASTM D1494	Shading Coefficient
Polyshade	Standard	8-10	18	24	0.33
		16	18	20	0.26
Primalite	Standard	8-10	45	68	0.45
	Standard	16	32	-	0.31
	Titan Sky	16	18	-	0.27
	Thermogal	25	18	-	0.34
	Thermogal	32	15	-	0.28
Silhouette	Titan Sky	8	40	-	0.58
Pearl	Titan Sky	16	18	-	0.35
	Thermogal	32	10	45	0.39
Silhouette	Standard	8-10	35	63	0.42
Gold	Titan Sky	16	18	47	0.29
	Thermogal	32	10	43	0.31
Polycoolite	Standard	8	45	63	0.50
Spring	Standard	8	70	-	0.61
	Thermogal	32	44	47	0.42
Rainbow	Standard	8	15	-	0.60

Contact Customer Service@ 704-588-3800 for more information regarding availability of Selective Layer Products







Polygal, Inc. 1100 Bond St., Charlotte, NC 28208 Tel: 704-588-3800 usasales@plazit-polygal.com

About Plazit-Polygal

The Plazit Polygal Group is one of the leading international specialist manufacturers of thermoplastic sheets for various applications. Our company is respected worldwide for its innovative and high quality products and expert technical support. Our production facilities are located in Israel, USA, Chile, Bulgaria, Russia and Spain, enabling our clients to source our products close to their locations around the globe.

Both Plazit & Polygal started to manufacture extruded plastic sheets in 1973 – a landmark year for the international plastics industry. Polygal became few years later a pioneer in the production of polycarbonate multi wall sheets. From modest beginnings, both companies have grown and become world leaders in the plastic sheeting market.

Plazit and Polygal merged their operations in 2011, and the Plazit Polygal Group continues to develop its products, production facilities, human resources and market presence. We are committed to meeting the needs of our customers and quaranteeing high quality, flexibility and swift response – these commitments are the key to all our activities.

Plazit Polygal Group facilities are certified according to ISO 9001, ISO 14001, CSTB (France), HACCP, ROHS, fire and health certifications, and other international engineering standards. Our in-house experts provide technical support and continuous product development to meet the evolving needs of our global client base.

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