



Applications

Multi-Wall sheets are ideal for a variety of applications including room dividers, sun rooms, covered walkways, signage, pool enclosures, and more.

Other Quality Products from **H&F Manufacturing Corp.**

- **Phase-2® PVC Panels**

For siding, roofing, and louver panels in flat and corrugated profiles for industrial projects

- **Phase-2® PVC Ag-Tuf/Ag-Tuf UV**

For agricultural and industrial projects

- **Phase-2® PVC Palight**

PVC foam sheets for displays, exhibits, plus interior walls and ceilings

- **Poly-Tuf™**

Waterproof wall and ceiling liner sheet

- **UNITREX® Polycarbonate Panels**

For industrial and commercial siding and roofing projects

- **UNITREX® Ultra R/Ultra 9**

Skylights and sidelights for industrial, commercial and residential projects

- **UNITREX® Sunsky**

Clear and translucent polycarbonate panels

- **UNITREX® Suntop**

Foamed, corrugated polycarbonate panels

- **Accessories**

Flashings, fasteners, closures, sealants, extrusions and more

H&F Manufacturing Corp.

Servicing our customers with quality products and service since 1973.

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Mechanical and Thermal Properties

Product	Structure	Thickness (mm)	Weight (g/m ²)	Standard width (mm)	Minimum radius for cold bending arches (m)	U-Factor ASTM C177 TNOU/m ² x °C
Standard Sheets (PCSS)		4	800	980	0.70	3.9
		6	1300	1050	1.05	3.6
		8	1500	1200	1.4	3.3
		10	1700	1250	1.75	3.0
		16	2700	2100	2.8	2.3
Triple-Clear (PC-3)		8	1650	1830	-	2.8
		10	1750	2100	-	2.6
Titan Sky		10	1750	1050 1200	1.75	2.4
		16	2500	2100	2.8	2.1
Selectogal RFX		16	3000	1050, 1200	2.8	2.3
Thermogal		25	3500	1200, 2100	4.37	1.7
		32	3800	980	5.6	1.3
		35	4000	1200	6.1	1.25
		32	3800	1200	5.6	1.2
		40	4200	1230 1250	-	1.1

Optical Properties

Product	Thickness (mm)	Light Transmission ASTM D1003 (%)			
		Clear	NGL	Ice	Bronze
Standard Sheets (PCSS)	4	82	-	32	42
	6	80			
	8	80	25		
	10	79	35		
	16	72	35		
Triple-Clear	8	77	-	-	-
	10	76	-	-	-
Titan Sky	10	62	25	32	42
	16				
Selectogal RFX	16	34	32	-	42
Thermogal	25	55	20		
	32	50	15	51*	16*
	35			47*	14*
	40			-	-

* By ASTM D1494

Available standard colors:
Clear, Ice, Bronze, Non-glare,
Blue, Green, Turquoise
and Grey.

Standard Sheet Length:
2.44m, 3.66m, 4.88m, 7.32m

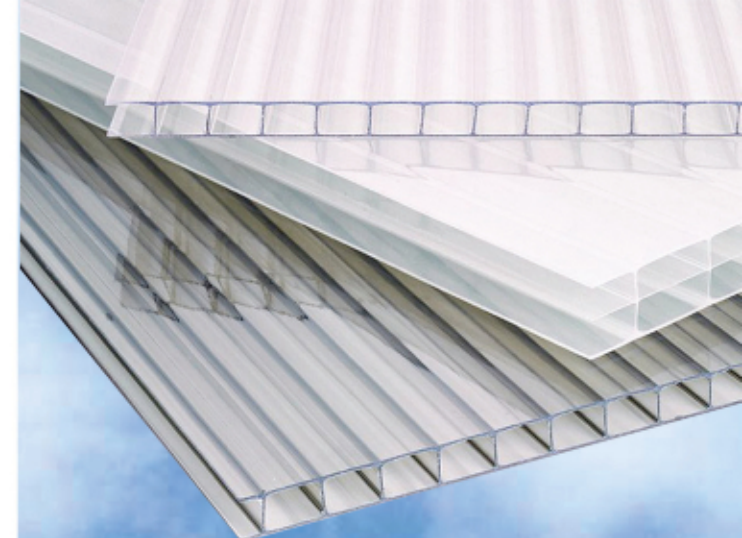
Maximum length in
accordance with handling
restrictions.

Thermal expansion: 2.5mm/m
for Clear and Ice
4.5mm/m for dark colors.

Service temperature range:
-40 to +120°C.

Special Layer Optical Properties

Product	Structure	Thickness (mm)	Light Transmission (%)		Shading Coefficient
			ASTM D1003	ASTM D1494	
PolyShade	Standard	8-10	18	-	0.33
		16			0.26
Permalite	Standard	8-10	45	-	0.45
		16			32
	Titan Sky	16	18		0.27
	Thermogal	25	15		0.34
		32	15	0.28	
Shilouette Pearl	Standard	8	40	-	0.58
	Titan Sky	16	18	-	0.35
	Thermogal	32	10	45	0.39
Shilouette Gold	Standard	8-10	35	61	0.42
	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



Polycarbonate Multi-Wall Sheets

Multi-Wall sheets from H&F Manufacturing are the ideal solution for a product that creates the ultimate atmosphere, gives a sense of openness, and maximizes advantages of nature while protecting from its elements.

Multi-Wall sheets provide you with a broad range of excellent solutions for a variety of applications such as skylights, sidelights, roofing, siding, walkways, room dividers, pool enclosures and greenhouses to name a few.

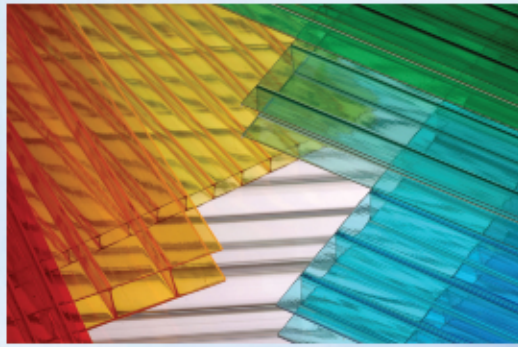
- Excellent Insulation
- Controlled Daylight Transmission
- Virtually Unbreakable
- Flame Retardant
- Flexible and Easy to Install
- Lightweight
- UV Blocking Layer
- Environmentally Friendly



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Manufactured by:





Standard

Standard Sheets come in double and triple layered profiles, are manufactured in various colors and degrees of transparency, and are designed for use in most conventional roofing and glazing applications.



Thermogal

Thermogal's unique inner X-brace structure provides extra-strength, rigidity and outstanding insulation. Available in different thicknesses, widths and colors, Thermogal is ideal for low-pitched roofs and glazing in closed structures with large-span openings.



PolyShade

PolyShade is ideal for glazing applications in warm climates. PolyShade effectively reflects sunlight and prevents excess heat build-up, and combines effective solar heating control with a highly attractive metallic look.



Polycoolite

Polycoolite sheet is specifically designed to supply plants natural solar light needs for photosynthesis. It blocks the harmful UV, supplies high blue and red, and reflects heat from the unused green. It reflects undesirable excess heat from the infrared range.



Titan Sky

Titan Sky's internal cross-brace structure gives these sheets twice the strength and rigidity of standard polycarbonate sheets. Titan Sky is ideal for applications where withstanding heavy loads is required.



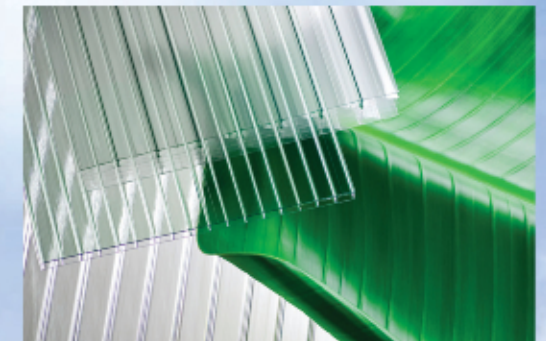
Triple Clip

Triple Clip Glazing System combines endless design possibilities with many important advantages: excellent thermal insulation, high flexibility, virtually unbreakable, lightweight and easy to install. Rigid sheet structure provides extra strength under wind and snow loads



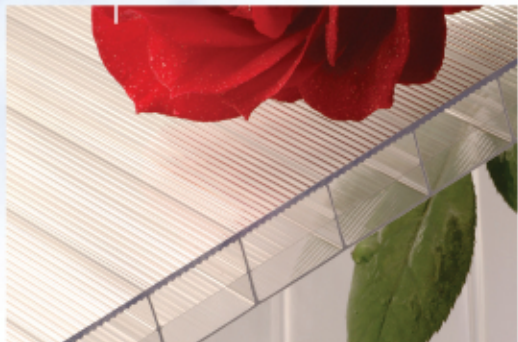
Primalite

Primalite sheet selectively reflects a large portion of the Near Infra-Red solar radiation, while transmitting more of the visible light radiation.



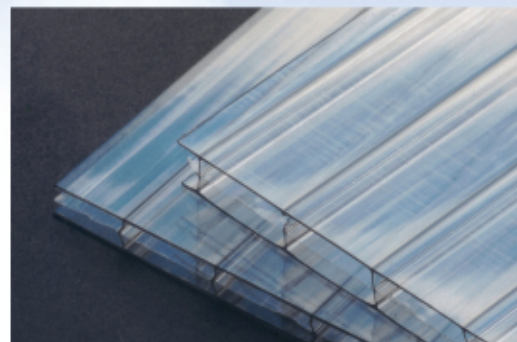
Spring

Spring is a transparent sheet with a special co-extrusion layer on the external side of the sheet, under the protective layer. Spring blocks the invisible IR solar radiation and heat which results in lower temperatures (less heat enters the structure), but still allows maximum light to enter the structure.



Selectogal (RFX)

Selectogal (RFX) offers an exclusive patent that enables the controlled penetration of heat and the transmission of pleasant daylight into buildings, while reducing heating and lighting costs. Selectogal RFX's sophisticated prismatic structure enables it to reflect most of the sun's heat in the summer, yet allows increased penetration of solar heat in the winter.



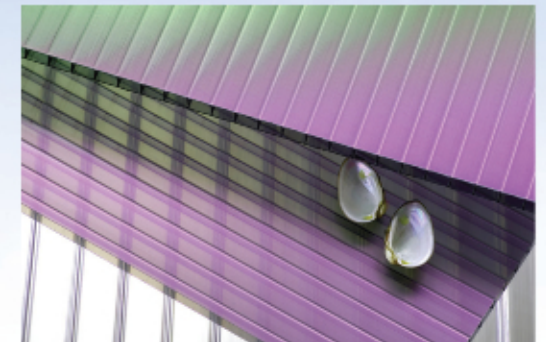
Triple Clear

Specially manufactured with a clear tint appearance, Triple Clear provides excellent thermal insulation, high flexibility, and virtually unbreakable strength. Triple Clear is coated with an anti-fog layer that prevents condensation build up. The rigid sheet structure provides extra strength under wind and snow loads.



Silhouette

Silhouette, with it's sophisticated and lustrous exterior surface, radiates elegance and good taste. Silhouette is available in a variety of formats, featuring outstanding reflective qualities, making it an excellent choice for all daylight covering applications.



Rainbow

Special optical effects in Rainbow sheets combine with the angle of the light to change the sheet color (e.g. from red to green), thus the Rainbow sheets present a unique harmony that is both dynamic and varied.