

 **Macrolux**<sup>®</sup>

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**POLYCARBONATE 16 MM**  
STORM PANEL



**THE ULTIMATE LIGHT WEIGHT TRANSLUCENT STORM PROTECTION. DESIGNED TO PROTECT YOUR WINDOWS AND DOORS FROM HURRICANE AND SEVERE WEATHER WINDS, WHILE AT THE SAME TIME ALLOWING LIGHT IN.**

Macrolux® Polycarbonate Storm Panel is a strong X-Structure design produced by Imsa Plastics using 100% virgin resin and manufactured using the highest standards of quality.

**Features**

- High quality
- Translucent
- Light Weight
- Easy to install
- UV protected
- Easily stored
- Economical
- Recyclable
- Hail resistant

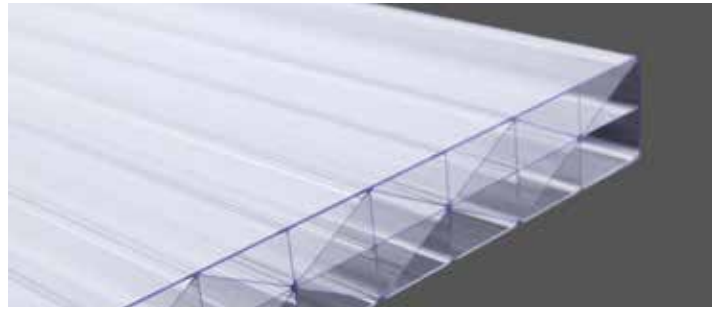
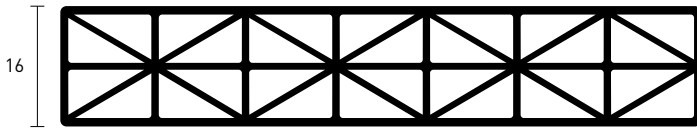
Our product is approved by the Florida Building Code for both hurricane zones, HVHZ and non HVHZ. Florida Approval #21379.

**Typical properties\***

PROPERTY		TEST METHOD	VALUES
<b>Physical</b>			
Luminous transmittance (D65) (%)	Clear	DIN 5036	59
	White		4
	Bronze		31
Thickness (mm)		-	16
Weight factor (lbs/ft <sup>2</sup> )		-	.55
Hail impact		Lab test	Pass
Minimum cold bend radius (in)		-	118
Sound transmission (dB)		EN ISO 140/717	21
<b>Thermal</b>			
Coefficient of thermal expansion (in/ft/°F)		ASTM D 696	3.60 x 10 <sup>-5</sup>
Temperature resistance, no load (°F)			248
U-Value / R-Value (BTU/hr x ft <sup>2</sup> x °F)		EN ISO 6946	0.35 / 2.86
Direct solar transmission	Clear	EN410 / EN13363-2	0.71
	White		0.48
Total solar energy (%)	Clear	EN410 / EN13363-2	75
	White		52
	Bronze		53
Solar heat gain coefficient	Clear	Calculated (Solar total energy /100)	0.75
	White		0.52
	Bronze		0.53
Shading coefficient	Clear	Calculated (Solar heat gain coef. x 1.15)	0.86
	White		0.60
	Bronze		0.61
<b>Flammability</b>			
Rate of burn	White	ASTM D 635	CC1
	Clear		
Flame spread and smoke		ASTM E 84	Class A
Ignition temperature (°F)	Self	ASTM D 1929	1031
	Flash		834

\* Typical properties are not intended for specification purposes.

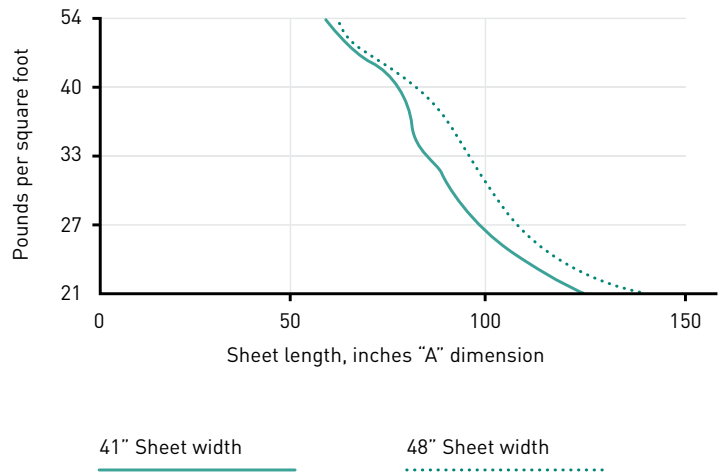
### X-Structure sheet profile



### Macrolux® 16 mm Storm Panel windload chart

Windload (uniformly applied loading) guidelines for specific Multi UV sheet widths and their corresponding lengths as a function of load bearing in pounds per square foot are shown in the graph. Recommendations are based on a clamped framing method that supports all four sheet edges by an extrusion having sufficient rabbet depth for edge engagement and room for thermal expansion. Instructions on glazing Multi UV sheet are outlined in the product installation guide.

LOAD (psf)	21	27	33	40	54	SHEET WIDTH (in)
Storm Panel	138	110	95	79	63	41
Sheet length (in)	126	98	83	79	59	48





1. The installation must comply with the IMSA Plastics guidelines for warranty to be valid. Local authorization may be required.
2. Installation guidelines available on request.  
For additional information or questions contact Macrolux USA at 901.414.8458