



TWINWALL  
POLYCARBONATE PANELS

SKYLITE



## SKYLITE

### *Twinwall Polycarbonate Skylights*

**SkyLite Twinwall Polycarbonate Panels** are an advanced polycarbonate glazing system, offering design freedom for a wide range of commercial, industrial and domestic applications. Domestic applications include pergolas, patios, carports, verandahs, skylights, gazebos, sunrooms or pool covers. Shopping centers, sports complexes, screens, walls or greenhouses are just some of a multitude of commercial and industrial applications for which is most

#### Features at a Glance

##### Excellent Insulation

The ribbed configuration of the **SkyLite Twinwall Polycarbonate Panels** trap air within the sheets, providing outstanding thermal insulation.

##### Controlled Daylight Transmission

**SkyLite Twinwall Polycarbonate Panels** are ideal for applications where specific light transmission is required.



##### Virtually Unbreakable

**SkyLite Twinwall Polycarbonate Panels** have an impact strength 250 times greater than glass and 8 times greater than acrylic.

##### Lightweight

**SkyLite Twinwall Polycarbonate Panels** are 1/6th the weight of glass and 1/3rd the weight of acrylic

##### Flexible and Easy to Install

**SkyLite Twinwall Polycarbonate Panels** Easily bent into arches. Will not split or crack when cut sawn or drilled

##### Flame Retardant

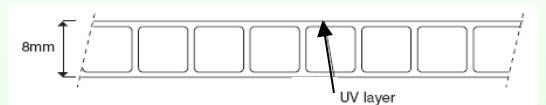
Compliant with most international standards, at very high temperatures, material melts but flames do not spread.

##### High Durability

By virtue of their high impact strength and UV protection **SkyLite Twinwall Polycarbonate Panels** are very durable and long lasting.

##### UV Blocking Layer

Layer protects objects inside the structure from yellowing and surface wear from extended UV exposure.



##### Environmentally Friendly

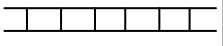
Reduces the use of fossil fuels— non polluting— 100% recyclable

##### Comparison to Glass

	Skylite	Glass
Impact resistance	250	1
Weight (per m <sup>2</sup> )	1.5kg	20kg
UV Protection	99.9%	0%
Sound Insulation	18db	27db
Thermal Conductivity (K value)	3.3W/m <sup>2</sup> °C	5.25W/m <sup>2</sup> °C

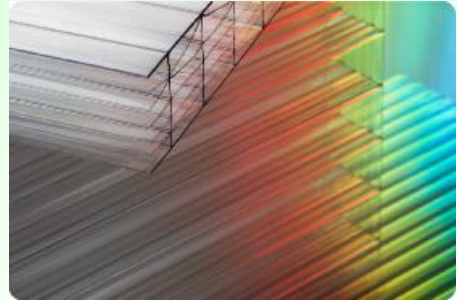
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## Mechanical and Thermal Properties

Product	Structure	Thickness (mm)	Weight (g/m <sup>2</sup> )	Standard Width (mm)	Minimum radius for cold bending arches (m)	U-factor ASTM C177 TNO(W/m <sup>2</sup> xC)
SkyLite Polycarbonate Panels		8	1500	2000	1.4	3.3

## Optical Properties

Light Transmission ASTM D1003 (%)					
Product	Thickness (mm)	Clear	NGL	ICE	Bronze
SkyLite Polycarbonate Panels	8	80	25	32	42

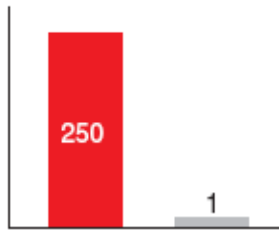


## Comparison to Glass

Based on Clear 8 mm SkyLite Twinwall Polycarbonate Panels VS 8 mm Clear Standard Glass



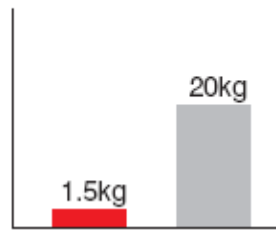
### Impact Resistance



SkyLite Ordinary Glass



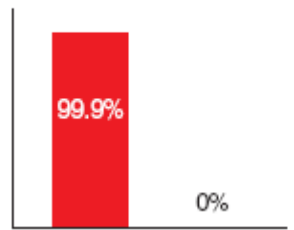
### Weight (per m<sup>2</sup>)



SkyLite Ordinary Glass



### UV Protection



SkyLite Ordinary Glass

## Colour Range



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