



# SUNLITE®

Twin-wall Polycarbonate Sheet



Glazing



Construction



DIY



Advertising



Agriculture

## ► Introduction

SUNLITE twinwall sheeting combines the strength of polycarbonate with superior insulation due to its cellular structure. SUNLITE is the only twinwall sheet available showcasing the Solarsmart technology, providing more light with less heat. Also standard is double sided UV protection, providing 99.9% protection of harmful UV and impact resistance 250 times that of glass. This combination makes SUNLITE the perfect material for both commercial and domestic structures such as pergolas, walkways, facades, skylights etc.

## ► Main Benefits

- High thermal insulation
- Lightweight and impact resistant
- High light transmission
- Excellent structural durability
- Weather and UV resistance
- Blocks virtually all UV radiation
- Easy to handle and install
- High fire performance rating

## ► Typical Applications

- Architectural roofing & glazing
- Skylights and sidelights
- Industrial roofing and glazing
- Residential roofing and glazing
- Conservatories
- Pergolas and facades
- Covered walkways
- Displays, signage and decorations
- Covered swimming pools
- Agricultural greenhouses



## ► Standard Colours\*

Colour	SC	SHGC	%LT	U Value	HT
Clear	0.80	0.80	80	2.9	70%
Grey	0.42	0.37	20	2.9	43%

## ► Solar Control Colours\*

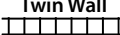
Solar Control Grey	0.41	0.36	25	2.9	21%
Solar Ice	0.40	0.35	20	2.9	21%

\* Solar properties data corresponds to ASTM D-1003 standard.

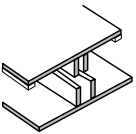
\*\* Other options are available upon request. Minimum lead times & quantities apply.

SC= Shading co-efficient    SHGC= Solar heat gain co-efficient  
LT= Light Transmission      HT= Heat transmission

## ► Standard Dimensions

Structure	Thickness mm	Area Weight Kg/m <sup>2</sup>	U-Value W/m <sup>2</sup> °K	Standard Width mm	Standard Lengths
					metres
 Twin Wall	10	1.7	2.9	980	1, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 6.0, 7.0, 8.0, 9.0, 12.0

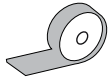
## ► Installation 2 Piece Joiner



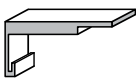
**2 Part H Joiner 50mm**  
(base and cover)



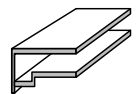
**Captive Wedge**



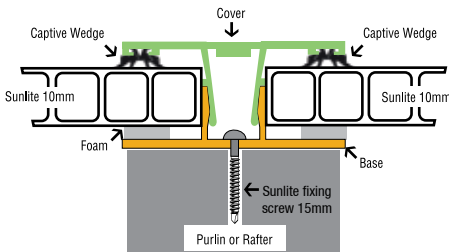
**Foam Roll**



**End Cap Lock**



**Sheet End Cap (vented)**

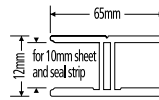


## ► Typical Physical Properties

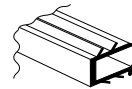
Property	method*	Condition	Units	Value
Density	D-792		g/cm <sup>3</sup>	1.2
Heat deflection temperature (HDT)	D-648	Load: 1.82 MP	°C	135
Service Temperature - Short term			°C	-50 to +120
Service Temperature - Long term			°C	-50 to +100
Coefficient of linear thermal expansion	D-696		mm/mm °C	6.5x10 <sup>-5</sup>
Tensile strength at yield	D-638	10 mm/min	MPa	62
Elongation at break	D-638	10 mm/min	%	>90
Impact falling dart	ISO 6603/1		J	40-400
Practical thermal expansion/contraction			mm/m	3

\* ASTM except where noted otherwise.

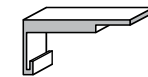
## ► Installation 1 Piece Joiner



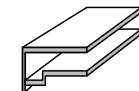
**1 Part H Joiner 65mm**



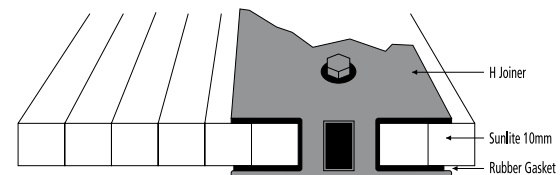
**Rubber Gasket**



**End Cap Lock**



**Sheet End Cap (vented)**



Please visit PALRAM Australia website [www.palram.com.au](http://www.palram.com.au) for installation instructions, or contact your local representative.



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