



SUNLITE® 7 Wall

Multiwall Polycarbonate Sheet



AGRICULTURE



CONSTRUCTION



DIY



ARCHITECTURE



Overview

SUNLITE 7 Wall stretches further the thermal insulation properties of the standard sheet, while retaining its low weight and high impact strength. High light transmission is also maintained to make SUNLITE ideal for varied roofing, wall cladding and glazing applications.

Optional anti-condensation makes SUNLITE 7 Wall ideal for roofing applications in greenhouses and garden centers. SolarSmart™ heat-blocking tints will ideally combine with the sheet's high thermal insulation when used as skylights and provide excellent climate control in closed populated areas and structures.

Main Benefits

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

Typical Applications

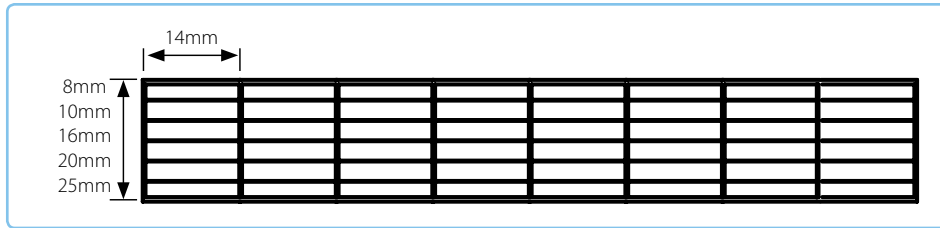
- Commercial greenhouses
- Architectural roofing and glazing
- Skylights and sidelights
- Conservatories and sun rooms
- Industrial roofing and glazing
- Residential roofing and glazing
- Covered swimming pools



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Structure



Typical Physical Properties

Property	Method**	Conditions	Units	Value				
Overall thickness			mm	8	10	16	20	25
Area weight*			kg/ m ²	1.8	1.9	2.65	2.9	3.4
U-value (Ug)	C-236		Watt/m ² ·°K	2.7	2.3	1.75	1.55	1.39
U-value (Ug) - US Units	C-236		BTU / (hr·ft ² ·°F)	0.47	0.40	0.30	0.27	0.24
Standard widths (Closed/Closed)*			mm	700, 980, 1050, 1200, 1250, 2100**				
Standard lengths*			mm	6000, 7000				
Rib Distance			mm	14				
Light transmission	Clear	D-1003	%	64	64	64	62	60
	White Diffuser	D-1003	%	45	45	38	38	38
	Bronze	D-1003	%	29	29	29	29	22
Min. cold bending radius			m	1.4	1.5	2.4	3.5	4.4
Heat deflection temperature (HDT)	D-648	Load: 1.82 MP	°C	135				
Service temperature	Short term		°C	-50 to 120				
	Long term		°C	-50 to 100				
Coefficient of linear thermal expansion	D-696			6.5x10 ⁻⁵				
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 range			mm/m	3				
Flammability ratings	EN 13501-1 2013			B-s1, d0				
Sound Redaction Valu***			dB	18	19	20	21	23

*Non-standard options are available upon request.

**Max width of 7 Wall 8mm is 2080mm. Max width of 7 Wall 10mm is 2090mm.

***Calculated values according to DIN 52210 - 75.

SUNLITE® Product Range

Product	Description
SUNLITE®	Standard sheet with UV protection on one side.
SUNLITE® UV2	UV protection on both sides.
SUNLITE® ML	Multi-layered color combinations for special designs.
SUNLITE® Plus	With anti-condensation, for greenhouses.
SUNLITE® Solar Control	Solar metallic reflective heat blocking sheet.
SUNLITE® SLT	Heat blocking and anti-condensation for garden centers.
SUNLITE® CL	Heat blocking sheet for architectural applications
SUNLITE® Smart	See-through sheet with advanced heat-blocking.

Installation

When specifying SUNLITE sheets, thermal expansion must be accommodated on end and side interfaces, nominally 3mm per meter. For more information please refer to the SUNLITE technical guide available for download on the Palram websites.