



SUNTUF® Industrial

Profiled Polycarbonate Sheet

Designed to meet complex engineering challenges, SUNTUF corrugated polycarbonate sheets are ideal for industrial roofing and cladding, and for commercial skylights.

SUNTUF offers all the unique properties of polycarbonate: mechanical robustness, durability, light transmission, UV protection, and strength-to-weight ratio. Unlike corrugated metal sheeting and reinforced glass panels, SUNTUF installs quickly and easily, and maintains its appearance and features for years.

SUNTUF polycarbonate profiles can be adapted to match any corrugated metal profile structure using Palram MetalMatch™ technology. This makes daylighting industrial and commercial spaces quick and easy.

Typical Applications

Construction and Industry

- Skylights, rooflights and sidelights
- Architectural structures
- Industrial facilities
- Public buildings
- Canopies and shelters for car parks, swimming pools, walkways etc.
- Partitions

Agriculture

- Commercial greenhouses
- Garden centers



Durable Against Impact



Optimized Light & Shade Balance



All Year Round



UV Protection






High Fire Rating




Low Maintenance

Colours


Colour	LT [%]
 Clear	90
 White diffused	87
 White Opal	45

* Additional colours are available under minimum quantities. Please contact your Palram distributor to check availability..

Profile Availability

 **MetalMatch™** Profile Matching Technology. SUNTUF can ideally integrate with almost any roof type, using Palram's proprietary MetalMatch™ profile matching technology, which allows it to be matched to existing or new corrugation profiles. SUNTUF is available in over 550 existing profiles.

SUNTUF® Product Range

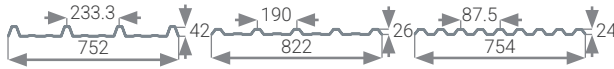
Product	Description
SUNTUF®	Corrugated polycarbonate sheet with UV protection on one side
SUNTUF® UV2	With UV protection on both sides
SUNTUF® Embossed	Embossed or Hair Cell finish on one sides
SUNTUF® Plus	For greenhouse covering, with anti-condensation treatment
	
SUNTUF® Solar Control	With effective heat blocking technology
SUNTUF® Smart	Advanced heat blocking with high clarity

Flammability

SUNTUF complies with the most demanding international fire resistance standards in the field of plastics, as indicated in the detailed table herein. The classification is subject to product type, thickness and color.

Standard	Classification*
AS/NZS	1530.3:1999

Profile Range

Property	KingKlip	Trimdek	Spantuf
	[SUNTUF 8000]	[SUNTUF 5000]	[Spandek]
			
Standard length	7.2m	7.2m	7.2m
Overall width	752mm	822mm	754mm
Cover width	700mm	760mm	700mm
Thickness	1.2mm	1.25mm	1mm
Profile height	42mm	26mm	24mm
Minimum Curving radius	17m	11m	12m
Maximum overhang	150mm	150mm	150mm
Maximum end spans	1200mm	1350mm*	1200mm*
Maximum mid spans	1600mm	1800mm*	1500mm*

* For more detailed information please contact your Palram distributor.

Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm³	1,2
Heat deflection temperature (H.D.T)	D-648	Load: 1.82 MPa	°C	135
Service Temperature Range (Short term)			°C	-50 to +120
Service Temperature Range (Long term)			°C	-50 to +100
Coefficient of linear thermal expansion	D-696		cm/cm°C	6.5 x 10 ⁻⁵
Thermal conductivity	C-177		W/m K	0.21
Tensile strength at yield	D-638	10 mm/min	MPa	62
Tensile strength at break	D-638	1 mm/min	MPa	65
Elongation at yield	D-638	10 mm/min	%	6
Elongation at break	D-638	10 mm/min	%	>70
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,300
Flexural strength mechanical	D-790	1 mm/min	MPa	93
Flexural modulus	D-790	1.3 mm/min	MPa	1,890
Impact falling weight	(ISO 6603/1 E50)	2.8 mm sheet	J	75
Rockwell hardness	D-785		R Scale	118
Light transmission	D-1003	Clear sheet	%	90%
Haze	D-1003	Clear sheet	%	<0.5
Yellowness index	D-1003	Clear sheet	YI	<1

* ASTM method except where noted otherwise

UV Blocking and Resistance

SUNTUF transmits radiation selectively. It effectively blocks harmful UV radiation. In addition, SUNTUF withstands the adverse effects of UV radiation.

Warranties only apply to installations and maintenance that follow Palram installation instructions and specifications.

SUNTUF® Trimdeck Premium

Longer Span - Stronger impact - More Light

SUNTUF Trimdeck contribute to the conservation of energy and improve the quality of the working environment. They stand up to demanding exterior usage and offer multiple advantages over alternatives.





SUNTUF Trimdeck are designed for use as in-plane rooflights and sidelights with profiled metal roofs. Advanced profile matching technology enables integration with virtually any metal profile.

SUNTUF panels form a complete shield against harmful UV rays while admitting most of the visible light. Clear panels allow maximum light in, while a range of colors and diffusions offer various solar transmission options and reduced heat loads.

1.25mm thick Skylight application



Colours


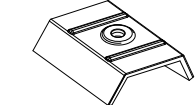
Colour	LT [%]	Haze [%]	SHGC [%]
 Clear	90	<5	0.87
 White Opal	35	100	0.41
 White diffused	85	100	0.87
 Solar Ice	25	100	0.30

* Light transmission data conforms to ASTM D-1003 standard

Load Span

Load [kpa]	End Span	Mid Span
0.75	1425	1900
1.00	1350	1800
1.25	1275	1700
1.50	1200	1600
1.75	1125	1500

Systems and Accessories

Product	Description
	Self Drill Screw 65mmX14g
	Top & Bottom Foam Infiles
	Butyl Rubber
	Cyclon Washer With EPDM Gasket
	Stitching Screws (Grommet Seals) With EPDM Seal
	Stitching Screws 6.35mm x 19mm (1/4" x 3/4") Self-Tapping Screw With 19 Mm Washer
	65mm Clearfix Screw

