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SUNTUF®

Profiled Polycarbonate Roof Sheeting

Overview

SUNTUF Roof Sheets stand up to demanding exterior applications and offer multiple advantages over alternatives. They are designed for use as in-plane rooflights and sidelights with most metal roofs. SUNTUF Sheets form a complete shield against harmful UV rays while admitting most of the visible light. The sheets contribute to conservation of energy and improve the quality of the working environment. Clear SUNTUF Roof Sheets allow maximum light in, while a range of colours and diffusions will filter light or reduce heat loads.

Main Benefits

- Virtually unbreakable
- Self extinguishing
- Maintains high light transmission far better than alternative materials
- Wide service temperature range (-50°C to 120°C)
- Easily and safely installed
- Twenty year warranty
- Hail and wind resistant
- Filters over 99% of UV radiation

Typical Applications

DIY

- Carports
- Patios / Pergolas
- Canopies / Awnings
- Pool Enclosures

Construction and Industry

- Roofing
- Cladding
- Skylights

Agriculture

- Greenhouses



Profile Availability

Standard SUNTUF Roof Sheeting profiles appear below.

Profile	Drawing	Thickness mm	Width mm	Cover Width m
Corrugated		1-1.25	815	762
Greca			810	750
IBR		1-1.25	756	686
WIDEDEK		1-1.25	830	762

Colors and Light Transmissions*

Color /Type	%Light Transmission	%Haze
Clear	90	<1
White Opal	45	100
White Diffuser	85	100
Transparent Blue	35	<5
Transparent Green	45	<5



Property	Value
Solar Control (Heat-Blocking)	20 / 70

*Measured according to ASTM 0-1003.

**Other specifications are available upon request, subject to minimum order.

Flammability

SUNTUF has a low flammability rating and does not emit toxic gasses when burning. SUNTUF meets many international fire standards, some of which appear in the enclosed table.

Standard	Classification*
NFP 92501,4, 5	M-1
DIN4102	B-1
UL 723	4.7, 47.0
Los Angeles Building Code	CC2 (Section 2603)
UNI 9177, 9176	Class 2

*Additional information is available upon request.

Resistance to UV Radiation & Longevity

SUNTUF transmits radiation selectively and completely shields against harmful UV (ultraviolet) rays. SUNTUF itself withstands the detrimental effects of UV radiation, as specified in the SUNTUF warranty.

SUNTUF Sheeting is guaranteed not to lose more than 8% of the sheet's light transmission in its first 10 years and no more than 1% for every year thereafter. It is the protective layer co-extruded into the sheet that allows SUNTUF Sheeting to maintain its high light transmission and stops it from yellowing. 20 year old SUNTUF Polycarbonate Sheeting has been tested, and the results have shown less than 5% light transmission loss.

UV Protection

SUNTUF Sheets offers maximum protection (as tested by Australian Skin Cancer Research Foundation) of 99% against harmful UV rays, helping protect you and your family all years round. This maximum UV protection also makes SUNTUF Sheets suitable for greenhouse applications. At the same time SUNTUF Sheets allows up to 90% of available light through the sheet and its resistance to weathering makes it suitable for South Africa's varied climatic conditions.

Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm ³	1,2
Heat deflection temperature (H.D.T)	D-648	Load: 1.82 MP	°C	130
Service Temperature - Short term			°C	-S0 to +120
Service Temperature- Long term			°C	-S0 to +100
Coefficient of linear thermal expansion	D-696		cm/cm°C	6.5 x 10 ⁻⁵
Thermal conductivity	C-177		W/mK	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	%	7
Elongation at break	D-638	10 mm/min	%	>80
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,300
Flexural strength	D-790	1.3 mm/min	MPa	93
Flexural modulus	D-790	1.3 mm/min	MPa	1,900
Impact falling weight	(ISO 6603/1 ESO)	0.8 mm sheet		50
Rockwell hardness	D-785		R Scale	118
Light transmission	D-1003	Clear sheet	%	90%
Haze	D-1003	Clear sheet	%	>0.5
Yellowness index	E-313	Clear sheet	WI	>1

*ASTM method except where noted otherwise.



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