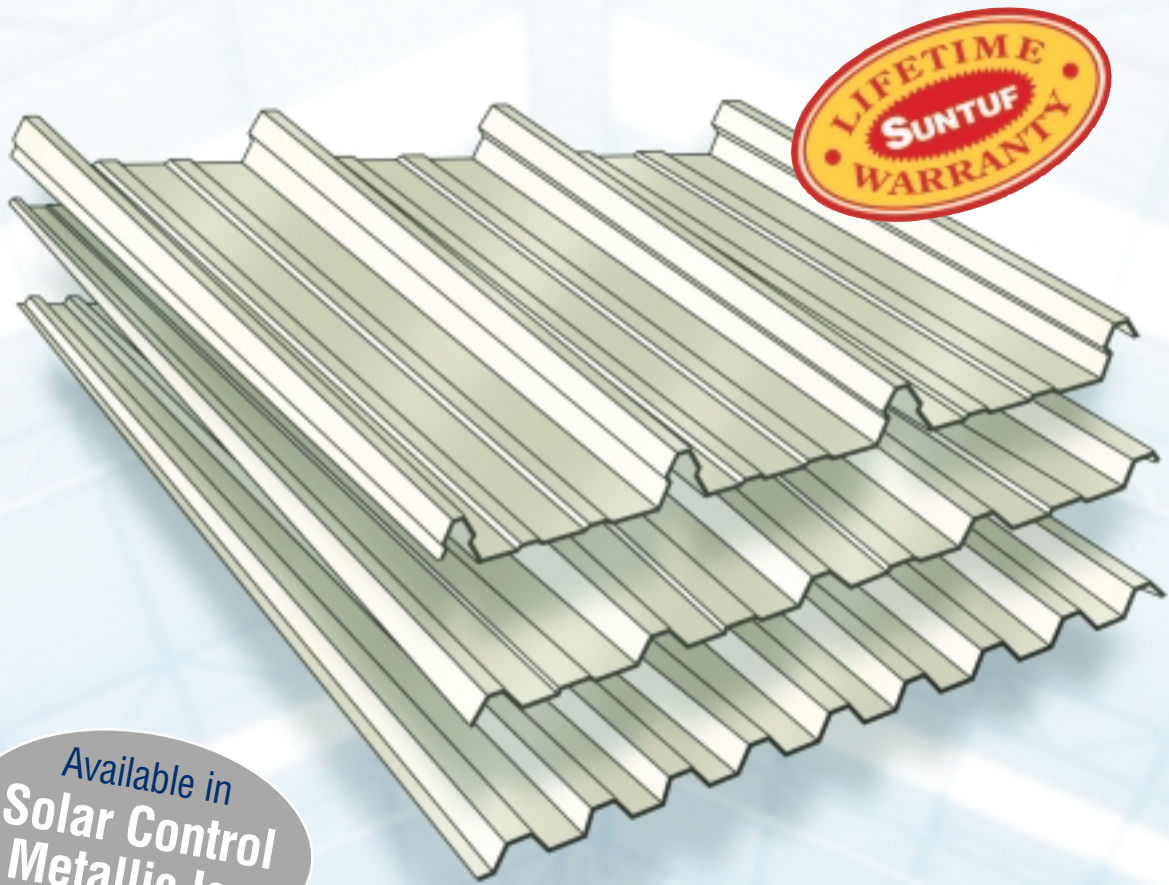


Ask for it by name!

SUNTUF[®]

INDUSTRIAL



Available in
Solar Control
Metallic Ice

Save money and energy
using **Suntuf Industrial***

More Light • Less Heat
Longer Life Span • Impact Resistant

*Source: Bassett Applied Research - Natural Lighting and Energy Modelling Study

SUNTUF INDUSTRIAL

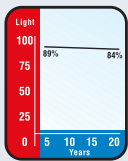
SUNTUF Industrial, the leading corrugated skylight panel in the world, is now available in an expanded range of profiles that will integrate with most metal roofing. SUNTUF Industrial possesses up to 20 times the impact resistance of fibreglass and 200 times the tensile strength of glass.

SUNTUF Industrial has the highest light transmission values, the lowest yellowing index, the highest load rating, and the highest resistance to wind uplift. These outstanding properties have been confirmed in accredited laboratory testing and in installations worldwide since 1985. Virtually unbreakable, SUNTUF Industrial corrugated polycarbonate retains its impact properties over a wide temperature range while meeting Australian building code requirements. SUNTUF Industrial is available in clear, opal, Metallic Ice and light diffuser.



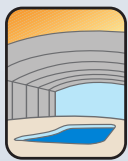
Flexibility

SUNTUF Industrial is virtually unbreakable and offers great design flexibility when curving both along and across the corrugations. Polycarbonate's unbreakable qualities make the sheet resistant to impact from hail or even hammer blows, yet the sheets can easily be cut using a wide range of cutting tools.



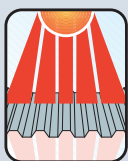
UV Protection

SUNTUF Industrial offers a maximum protection (as tested by Australian Skin Cancer Research Foundation) of 99.9% against harmful UV rays. This maximum UV protection also makes **SUNTUF Industrial** suitable for greenhouse applications. At the same time **SUNTUF Industrial** allows up to 90% of available light through the sheet and its resistance to weathering makes it suitable for Australia's varied climatic conditions.



Versatility

SUNTUF Industrial's light weight allows it to be installed at almost any height, making it ideal for industrial applications. **SUNTUF Industrial** offers a way to achieve the best combination of heat and light transmission and can significantly reduce the incidence of glare.



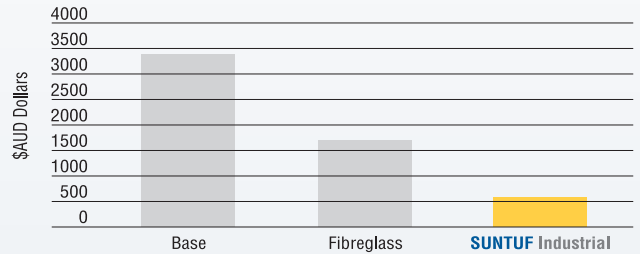
Longevity

SUNTUF Industrial 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. **SUNTUF Industrial** is also guaranteed not to break from hail (up to 25mm in diameter) for 5 years. It is the protective layer co-extruded into the sheet that allows **SUNTUF Industrial** to maintain its high light transmission and stops it from yellowing. 20 year old **SUNTUF Industrial** Polycarbonate Sheeting has been tested, and the results have shown less than a 5% light transmission loss.

Cost Effectiveness

Research into energy costs of warehouses has shown that natural lighting using **SUNTUF** skylights can reduce artificial lighting by up to 83% over a 10 year period. Significant financial savings can be achieved over a 25 to 30 year period as **SUNTUF** does not lose its light transmission over time.

Lighting costs per annum using **SUNTUF Industrial**



Source: Bassett Applied Research - Natural Lighting and Energy Modelling Study

Colour and Light Transmission

Only **SUNTUF Industrial** corrugated polycarbonate skylights offer such a range of options for light and heat transmission values.

SUNTUF Industrial		LIGHT TRANSMISSION	HEAT* TRANSMISSION
Metallic Ice	Diffused light with no glare	25%	21%
Opal	Diffused light with good shading	45%	46%
Diffuser**	Maximum diffused light	87%	75%
Clear	Maximum light and heat	90%	80%

* Percentage of direct heat from the sun passing through the sheet.

** Recommended for all roofing panels used as skylights.

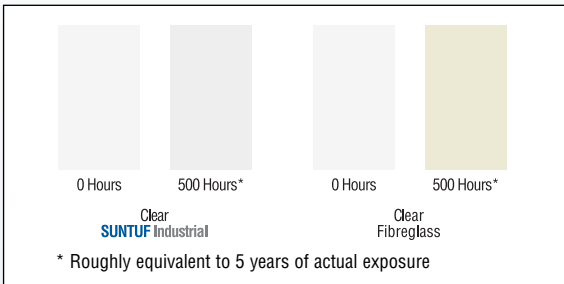


SUNTUF® INDUSTRIAL SHEETING PROFILE COMPARISON CHART

Profile	CLEAR	OPAL
TRIMDEK/ TL5 0.8	✓	✓
TRIMDEK/ TL5 1.0	✗	✓
SPANTUF	✓	✓
KINGKLIP	✗	✓

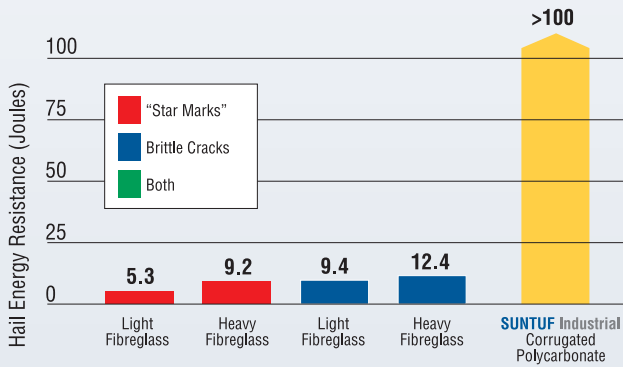
Resistance to UV Radiation

SUNTUF Industrial's resistance to UV radiation is far superior to that of fibreglass. **SUNTUF Industrial** will not yellow, and retains its clarity for many years. Simulated UV exposure results are graphically depicted below.



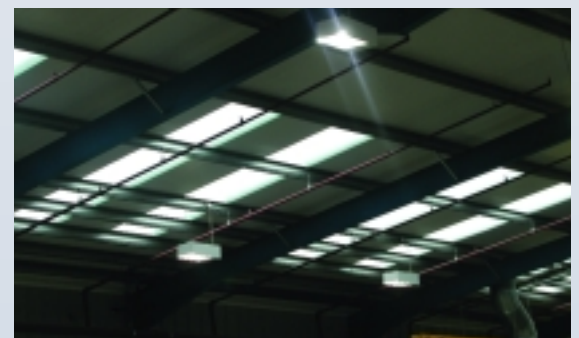
Hail Resistance

SUNTUF Industrial exhibits much greater resistance to high velocity impact (hail simulation tests) than a leading fibreglass panel.



SUNTUF[®]

INDUSTRIAL



DIFFUSER	SOLAR CONTROL METALLIC ICE	DIMENSIONS		HEIGHT mm	THICKNESS mm	WEIGHT kg/m ²	MIN. COLD BENDING RADIUS mm
		WIDTH mm	COVERAGE mm				
×	✓	820	760	29	08	1.2	11000
✓	✓	820	760	29	1	1.3	11000
×	×	750	700	29	1	1.5	12000
✓	×	747	700	42	1.2	1.6	12000

SHEET LENGTHS:

[mm] up to 7200mm

IMPORTANT

NOTE: The KingKlip sheet must be installed over metal deck roofing. Therefore it can only be used from the ridge line, not as an intermediate skylight.

INSTALLATION GUIDE

EASY INSTALLATION

SUNTUF® should be installed with its sticker 'This Side Up' facing the sunlight. This is the side that has been treated with a protective coating against UV rays and therefore protects the sheet's durability. The sticker should be removed immediately after installation. When cutting **SUNTUF®** you can use a wide range of cutting tools. However, for simplicity we suggest a fine tooth saw or a fine tooth circular saw. When moving about or working on top of **SUNTUF®** always walk on crawling boards placed above the purlins.

ROOF PITCH

SUNTUF® Polycarbonate Sheeting will provide correct run off of rainwater when the roof pitch is 5° [87mm per 1000mm] or greater. **SUNTUF®** can be used at lower pitches using special installation methods (consult your local distributor for fixing advice).

OVERLAPPING

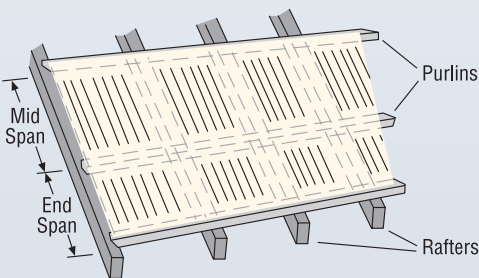
Length overlap should be 200mm. Side overlaps should be as per diagrams 1-4.

OVERHANG

To avoid sheet damage in high wind areas the maximum hangover at the roof edge or gutter line should not exceed 150mm.

PURLIN SPACING

SUNTUF® Polycarbonate Sheeting should normally be fixed to purlins at the below spacings. In areas exposed to high wind consult your local distributor for fixing advice.



Profile	Mid Span (mm)	End Span (mm)
Trimdek/TK5 0.8	1200	900
Trimdek/TL5 1.0	1500	1000
Spantuf	1400	900
KingKlip	2100	1800

INFILLS

Foam infills are recommended and available for all profiles and flashing situations for weather and vermin proofing.

FASTENER LOCATIONS

SUNTUF® is firmly fixed when fastened at every third corrugation and every second corrugation at gutters, ridging and overlaps (consult your local distributor for fixing advice). When using **SUNTUF®** in a roofing situation, fastening is best through the crest of the wave. For fences or walls, fastenings should be through the valleys.

FIXING SCREWS

SUNTUF® recommends the use of 'Clearfix' fasteners when installing polycarbonate sheeting, alternatively standard fixing screws must be compatible with polycarbonate sheeting. Approximately 8 per sqm are required. Overtightening of screws should be avoided to prevent stress and damage to polycarbonate sheeting. Suntuf should be fixed firmly but in such a manner that contraction and expansion can occur.

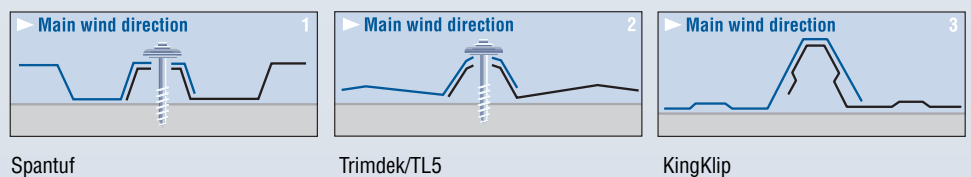
SPECIAL POINTS

Fixing: Fix sheets with UV protection facing the sun - as indicated on sheet stickers. Only **SUNTUF®** screws and fasteners should be used to maintain warranty requirements. Silicones and other chemicals not compatible with polycarbonate must be avoided.

EXPANSION ALLOWANCE

At least 10mm clearance should be left when butting to wall or fascia. Ensure a 10mm clearance hole is pre-drilled to allow for expansion and contraction.

OVERLAPPING SHEETS



Note: A range of Suntuf sheeting is available specifically for cyclonic regions which meets AS1170-2, please consult your local dealer for fixing details and advice.

SPECIAL NOTE

All **SUNTUF®** profiles except KingKlip are compliant with the requirements of AUSTRALIAN STANDARD 1562.3 - 1996, thus eliminating the new requirement for safety mesh under roofs over 3 metres above ground level. TL5 1.0 can span 1800mm but it is not compliant (therefore mesh is required at this span).

HANDLING AND STORAGE

SUNTUF® sheets should be handled with care to avoid any unnecessary scratches prior to installation. **SUNTUF®** should be stored on a flat surface away from direct sunlight. When stacked together this will prevent possible magnification of the sun's rays through the top sheets which may cause distortion of the lower sheets.

CLEANING

SUNTUF® will continue to look new when it is washed down regularly with a soft sponge and warm soapy water.

CARE

SUNTUF® Polycarbonate Sheeting is unaffected by a wide range of chemical substances however, it is important to avoid chemicals, paint, adhesives or other synthetic materials that are not compatible

FIRE RATING

SUNTUF® Polycarbonate Sheeting has a low flammability rating and does not release strong toxic gases when burning. **SUNTUF®** Polycarbonate Sheeting has been tested with a procedure conforming to AS1530, 3-1982 (Australian Standard Methods for Fire Tests on Building Materials and Structures, Part 3 - Tests for Early Fire Hazards Properties of Materials).

Proudly Distributed by:

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