



#### UV PROTECTION

SmartLite offers a maximum protection of 99.9% against harmful UV rays providing year round protection for you and your outdoor furnishings. SmartLite co-extruded UV barrier protects you from harmful UV radiation and the product from UV degradation, yellowing and prolong its life under the tough Australian sun.



#### STRENGTH IMPACT RESISTANT

SmartLite sheeting has an Impact strength 150 times higher than glass. Polycarbonate's unbreakable qualities make the sheeting resistant to impact from hail or even hammer blows yet the sheet can be easily cut.



#### FIRE RESISTANT

Polycarbonate sheeting has a low flammability rating and does not release strong toxic gases when burning. Also designed for fire resistance and to self-extinguish,



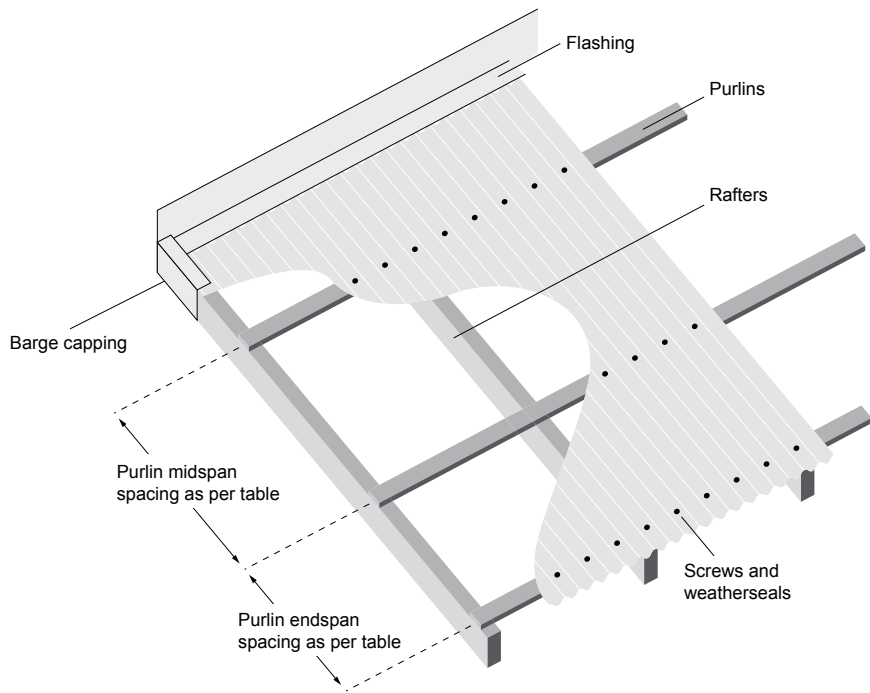
#### LOSS OF LIGHT TRANSMISSION

FGW warrants for a limited period of 10 years the product will not lose more than 10% of light transmission for the first 10 Years and thereafter no more than 1% per year for the serviceable lifetime when tested in accordance with ASTM D 1003.

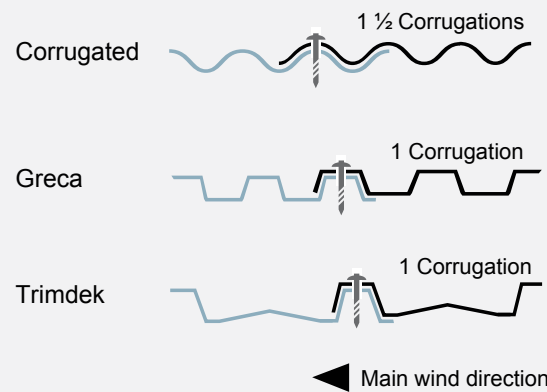


#### HAIL DAMAGE 10 YEAR WARRANTY

FGW warrants for a limited period of 10 years from date of purchase the product will not crack, break, or fracture as a result of hailstorm measuring up to 20mm in diameter by winds up to 75km/hr. Damage caused by impact of other objects other than hail is excluded from this warranty. (see terms & conditions back page)



#### Overlapping Sheets



#### Maximum Purlin Spacings

Profile	End Span	Mid Span
Corrugated	800mm	1000mm
Greca	900mm	1200mm
Trimdek	900mm	1200mm

SmartLite Standard Range						Heat Stop	
COLOURS	CLEAR	BRONZE	DARK GREY	OPAL	CREAM	SILVER	PEARL
Light Transmission	90%	36%	20%	49%	30%	23%	48%
Heat Transmission	85%	60%	39%	44%	45%	17%	32%
Corrugated	✓	✓	✓	✓	✓	✓	✓
Greca	✓	✓	✓	✓	✓	✓	✓
Trimdek	✓	✓	✓	✓	✓	✓	

## POLYCARBONATE ROOFING INSTALLATION GUIDE

### UV PROTECTION

For Polycarbonate roof sheeting it is important to check the label/markings on the sheet to determine the correct side exposed to the sun as one side has been treated against harmful UV rays. The life of the sheeting may be shortened and discolouration may occur due to the unprotected side being exposed to UV radiation. Installation instructions follow the Australian and New Zealand Standards of sheet and wall cladding, part 3: Plastic, AS/NZS 1562.3: 2006.

### ROOF PITCH

Ensure the roof pitch is a minimum of 5° (87mm per 1000mm). This will provide correct run off. If a flatter pitch is required, additional weathering will be required and you should contact your local distributor for advice. If insufficient fall is allowed leakage may occur.

### FIXING SCREWS AND SPACING'S

Screws should be fastened at every corrugation for Trimdek and at every third corrugation for Greca and Corrugated mid spans and every second corrugation at end laps and over laps. Fasten through the crest of rib for roofing and through the valley for walls and fencing. Avoid over tightening screws to prevent damage to sheet. Use only fixing screws recommended for polycarbonate sheeting.

### EXPANSION ALLOWANCE

Temperature changes will cause the sheet to expand and contract so allowance has to be made when drilling screw holes so that the sheet can move freely as it expands and contracts. Ensure a 10mm clearance hole is pre drilled for sheets up to 4.2m in length and 12mm diameter holes over 4.2m and all fixings to be centred. Allow at least 12mm clearance when butting against walls or fascia.

All screws must be fitted with a 26mm dome weather proofing seal compatible to polycarbonate sheeting. Only tighten the fixings enough to prevent rattling, over tightening the fixing screws can cause distortion and possible sheeting failure.

### PURLIN / BATTEN SPACING'S

Please refer to Table for purlin/batten spacing's. Spacings

should be reduced to 750mm maximum end spans in areas exposed to high winds. Overhang at eaves should not exceed 100mm and be less in high wind areas. Endlap at battens or purlins should not exceed 200mm. To reduce noise caused by friction due to expansion and contraction we recommend using 25mm x 3mm self-adhesive Anti-Noise tape.

See Maximum Purlin Spacing Chart

### SIDE LAPS

Corrugated profile is side lapped 1.5 corrugations with Greca and Trimdek sheeting lapped 1 rib but depending on the degree of exposure and weathering required this can be increased to 2 ribs. Laps should face away from the prevailing wind direction, see drawings. We recommend the use of foam tape and infill strips to reduce noise created by expansion and contraction of the sheeting. When using any sealants make sure the sealants are chemically compatible with Polycarbonate, incorrect sealing will damage the sheet and void the warranty.

See Overlapping Sheets Chart

### HANDLING AND STORAGE

SmartLite Polycarbonate sheeting should be handled with care to avoid scratching prior to installation. Store sheets on a flat surface. Keep away from direct sunlight during storage. Don't leave sheets outside or in stack or under cover in stack during hot conditions. The stack will act as a magnifying glass and cause the sheets to heat up and distort. Warranty will not be recognised should this situation occur. Prevent moisture getting between stored sheets as this may cause whitening. Avoid contact with chemicals, paint and solvents as many of these are incompatible with polycarbonate sheeting.

### CLEANING

Clean with warm soapy water (very mild detergent) and a soft sponge. Scrub down with a soft sponge and hose down thoroughly. Polycarbonate sheeting is effected by petrol and petroleum products like methylated spirits, acetone, hydrocarbons and harsh abrasive cleaners.

### TERMS AND CONDITIONS

This warranty applies from the date of original purchase and valid only to the original purchaser of the product (claims must be accompanied by an original purchase receipt). The product must be for domestic use only and must have been stored, installed and cleaned in accordance with the manufactures recommendations. The product is protected on one side with a UV protective layer and the warranty will only apply if the sheet is installed with the UV side facing the sun. Loss of light transmission caused by atmospheric deposits or dirt, chemical reaction, abrasion and like events are not covered by this warranty. Any product under warranty claim must be made available for inspection by FGW. If FGW determines that a claim for warranty is justified the liability of FGW is limited to the supply of replacement sheet. Costs associated with the removal and refixing of sheets or any loss or consequential damage of any kind are not covered by this warranty. Sheets failure due to incorrect installation or fair wear and tear is not covered by this warranty.

### DISCLAIMER

Colours depicted in this brochure are offered only as a guide and should not be used as a selection. Some colour variation may occur between production runs. Transmitted light and colour may vary in intensity depending on weather conditions. The information in this brochure is to the best of our knowledge accurate at the time of printing. All recommendations are made in good faith but without warranty.



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or see your nearest distributor for more information

# SmartLite

## POLYCARBONATE ROOF SHEETING



## LIGHTING THE WAY

# NATURALLY

Australian Owned By







POLYCARBONATE ROOF SHEETING

SmartLite Polycarbonate sheeting is the perfect roof cover for your pergola, patio, carport, verandah, gazebo, greenhouse or conservatory and many other applications. The incredibly strong, flexible polycarbonate sheeting cuts out the glare and as a result you can enjoy the outdoors even more. The unique combination of additives and tints block out a significant amount of glare without impacting on the quality of light that comes through the panel or its aesthetic appeal. Relax and enjoy the benefits and good looks of SmartLite polycarbonate sheeting.



# SmartLite - Your Smart Choice in UV Protection

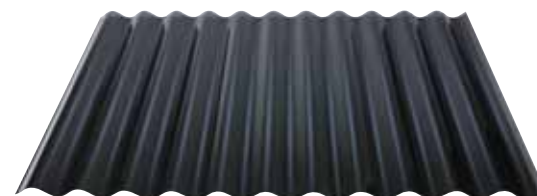


Today's UV rays are stronger than ever due to the degree of ozone layer depletion.

SmartLite polycarbonate with its 99.9% UV protection and high impact resistance provides all year round protection for you and your outdoor furnishings. SmartLite is manufactured by using the latest co-extrusion UV resistant technology. SmartLite is known for its durability, high light transmission and excellent UV resistance. SmartLite is commonly used in green houses, pergolas, patios, cladding, carports, walkways etc.



## SmartLite Leisure Range



CORRUGATED



GRECA

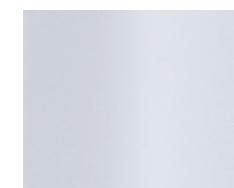


TRIMDEK



CLEAR

Light Transmission 90%  
Heat Transmission 85%



OPAL

Light Transmission 49%  
Heat Transmission 44%



BRONZE

Light Transmission 36%  
Heat Transmission 60%



CREAM

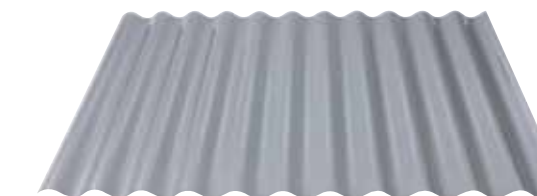
Light Transmission 30%  
Heat Transmission 45%



DARK GREY

Light Transmission 20%  
Heat Transmission 39%

## SmartLite Heat Stop Range



CORRUGATED



GRECA



TRIMDEK



SILVER

Light Transmission 23%  
Heat Transmission 17%



PEARL

Light Transmission 48%  
Heat Transmission 32%