



STRATCO smartPIU

MULTIWALL POLYCARBONATE PATIO ROOFING

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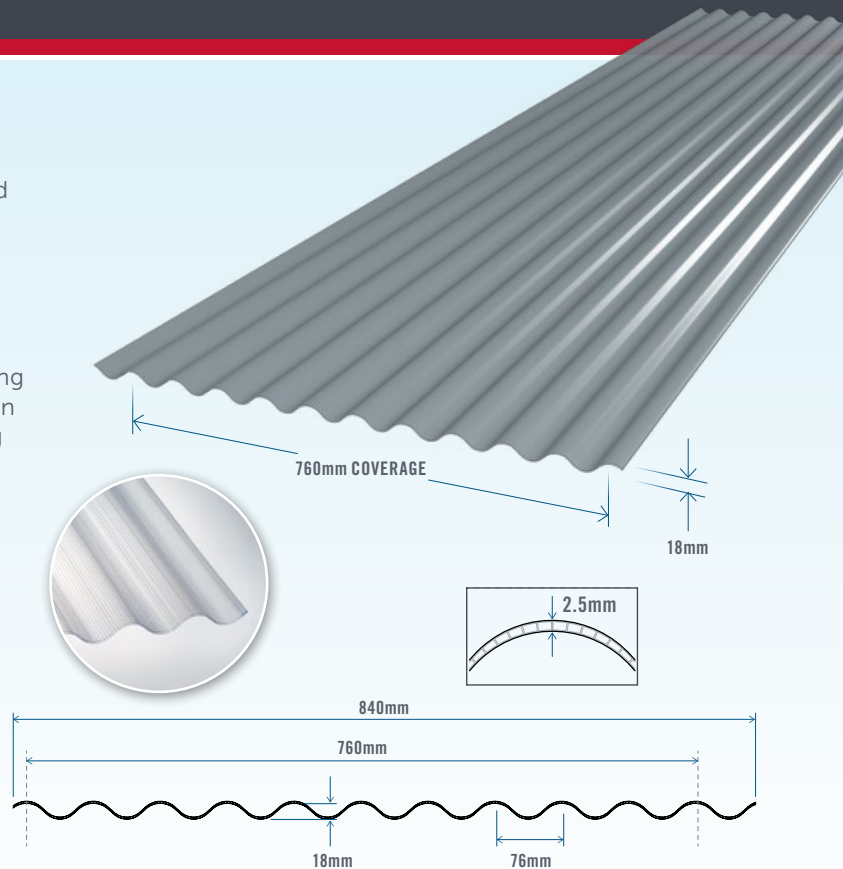
INNOVATIVE TRANSLUCENT SHEETING

SmartPIU is an innovative 2.5mm thick multiwall corrugated polycarbonate sheet for use in domestic patio and home improvement roofing applications. The uniqueness of this product lies in its strength, spans and clean appearance. Product spans up to 1400mm separate SmartPIU from all other polycarbonate seen on the market today.

Its amazing heat and light transmissions and high performing thermal rating make it the polycarbonate of choice. The thin sheet thickness allows for greater versatility for overlapping and the multiwall structure offers remarkable advantages if compared to single skin sheets.

SmartPIU FEATURES

- Higher UV protection than single skin product
- 25% better thermal insulation than a single skin product
- 50% better spanning capability than a single skin product
- Ideal for patio roofing applications
- Excellent light transmission
- Sunlight diffusion - no blinding rays or hot spots
- Market leading minimum 3 degree sheet fall
- 10 year product warranty.



SPECIFICATIONS

	CLEAR	OPAL	SOLAR ICE	GREY	SOLAR GREY
Light Transmission	84%	76%	48%	32%	19%
Heat Transmission	69%	41%	26%	47%	18%
R Value	0.21	0.21	0.21	0.21	0.21
Shade Factor	1	2	6	4	7
Maximum Span	1400mm	1400mm	1400mm	1400mm	1400mm
Minimum Roof Pitch	3°	3°	3°	3°	3°



USE & MAINTENANCE REQUIREMENTS

STOCKING

The material must be stocked protected from the sun and rain to prevent any possible accumulation of heat, and the building up of condensation within the multiwall structure of the sheet.

INSTALLATION

The material must be installed with the UV protected layer always outwards and the protective film must be taken off after the installation.

SAFETY DURING INSTALLATION

Multiwall polycarbonate sheets can not be walked upon. Therefore do not walk onto the sheets and follow safety regulations and safe methods of installation.

PRODUCT CARE

Polycarbonate suffers the chemical attack of some products. Use only compatible clear silicone for the sealing. The cleaning of the sheets must be executed only with water and mild detergents. Do not use bituminous or tar joints in contact with the product.

CUTTING AND DRILLING

Cutting of the sheets can be executed on site by means of a cutter or of a hack sawing machine. Once the cut is executed, seal the open cells with an adhesive aluminium tape. The drilling can be executed with a drill and suitable heads. The hole must be 3mm wider than screw gauge.

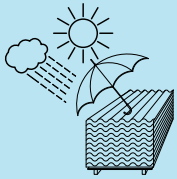
CURVING

Cold curving of the sheets on site can be executed along the flutes direction and respecting the minimum curving radius.

SEALING OF THE CELLS

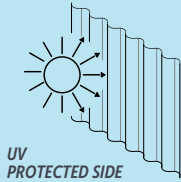
Sheet cells can be thermosealed or taped to prevent them from getting dirty with dust, anyway both systems do not seal the air inside the cells and condensation can appear both on the internal and external side of the cells. Condensation depends on the weather conditions as well as on the specific conditions of installation. It is not to be connected with production quality and no claims for this will be accepted.

FIXING RECOMMENDATIONS



PROTECT THE SHEETS FROM THE SUN AND RAIN.

FIGURE 1.0



ALWAYS INSTALL THE SHEETS WITH THE UV PROTECTED LAYER FACING OUTWARDS.

FIGURE 2.0



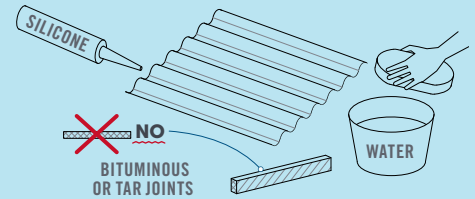
MULTIWALL POLYCARBONATE SHEETS CAN NOT BE WALKED UPON.

FIGURE 3.0



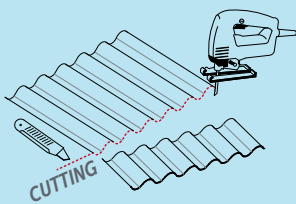
DO NOT WALK ONTO THE SHEETS AT ANY TIME. FOLLOW SAFETY REGULATIONS & SAFE METHODS OF INSTALLATION.

FIGURE 4.0



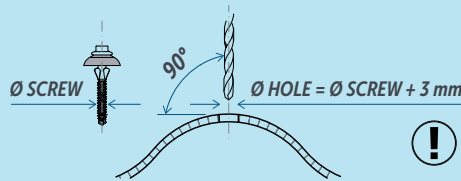
POLYCARBONATE MAY SUFFER A CHEMICAL ATTACK FROM SOME PRODUCTS. ONLY USE COMPATIBLE CLEAR SILICONE FOR THE SEALING. ONLY USE WATER AND MILD DETERGENTS FOR CLEANING.

FIGURE 5.0



SHEETS ARE SUPPLIED TO THE EXACT LENGTH REQUIRED WITH THERMOSEALED ENDS. SHEETS CAN BE CUT ON-SITE USING A JIGSAW OR A CUTTING KNIFE. SEAL THE OPEN CELLS AFTER CUTTING WITH APPROVED SILICONE.

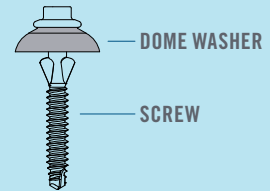
FIGURE 6.0



DRILLING OF THE SHEETS CAN BE EXECUTED ON-SITE BY MEANS OF DRILL AND SUITABLE HEADS. THE HOLE MUST BE 3MM WIDER THAN SCREW GAUGE OR A SLOT ALONG THE LENGTH. NOTE: NOT REQUIRED IF USING APPROVED POLYCARBONATE SCREWS.

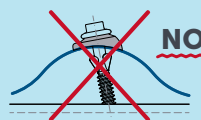
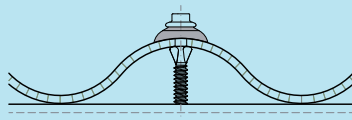
FIGURE 7.0

M6.5 X 50MM HEX HEAD POLYZIPS® WITH DOMED WASHER CLIMASEAL 3 ARE RECOMMENDED FOR CREST FIXING SMARTPIU SHEETS TO TIMBER BATTENS AND STEEL UP TO 1.2MM THICK.



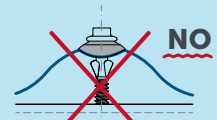
THE SCREW FIXING MUST BE INSTALLED PERPENDICULAR TO THE SHEET.

FIGURE 8.0



DO NOT OVERTIGHTEN THE SCREWS AS YOU MAY DAMAGE THE SHEET AT THE FIXING POINT.

FIGURE 9.0

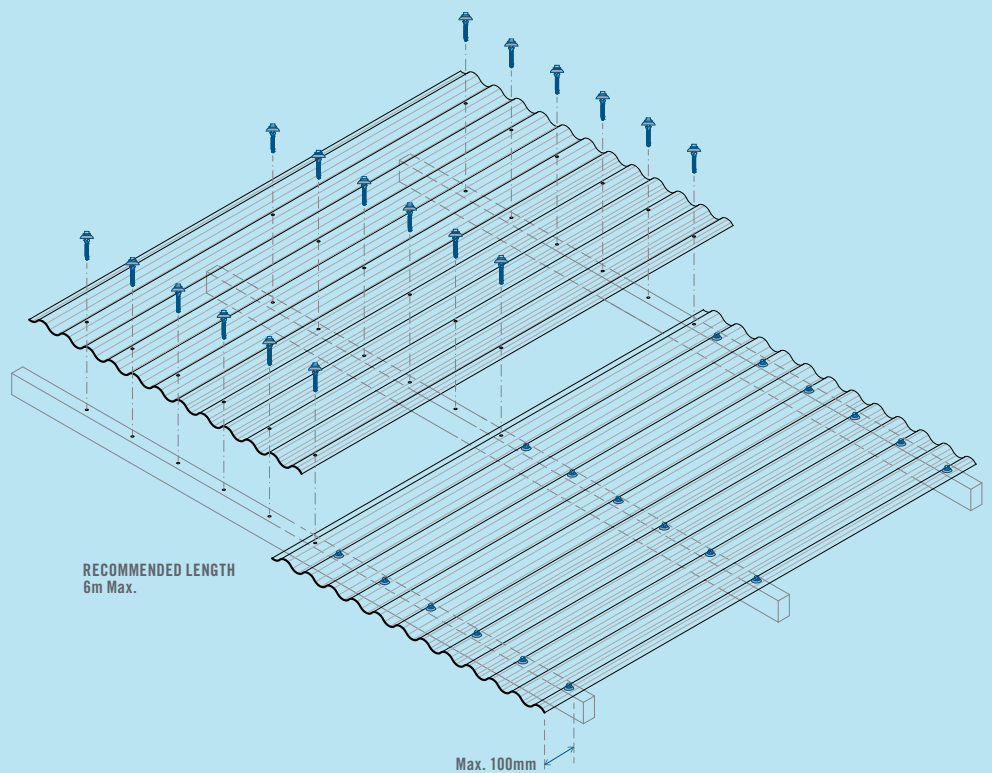


LOADING AND SPACINGS: CHECK OUR TECHNICAL LITERATURE TO DETERMINE LOADING AND SPACING OF THE WHOLE ROOF SYSTEM.

ROOFING LAYING PROCEDURE

» PREVAILING WIND

LAYING DIRECTION «



SHEET OVERLAPPING

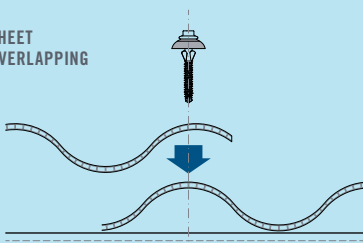


FIGURE 10.0



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How To.

