



# INSTALLATION MANUAL

## PolyPIU is a highly structured Company, but at the same time it is agile and active.

Our products are our core. We dream them, design them, perfect them to meet the specific needs of our clients and manufacture them. PolyPIU explores and invests in new technologies to ameliorate our products and provide our clients with a better working solution. Our ever-expanding range of products currently includes 78 solutions for roofing and 19 solutions for facades.

Established in Italy over 30 years ago in the Polycarbonate manufacturing industry, PolyPIU boasts worldwide distribution channels thanks to well established partnerships.

### About Us

PolyPIU Australia is one of the latest expansion strategies that the PolyPIU group has committed to. Specialising in manufacturing of multiwall and solid polycarbonate sheets, panels and systems for the industrial, home improvement and domestic markets is what PolyPIU does best, and we are striving to become a worldwide market leader.

PolyPIU Australia is a young and dynamic company, backed by PolyPIU Italy, a company that looks for innovative solutions which is demonstrated through the constant creation of new industry leading products, a reference point for quality.

Along with our products, customer service and customer satisfaction represent the focus for our company. PolyPIU is an innovative approach to polycarbonate, an ideal partner when finding a solution to best meet your needs.

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### Quality Warranty

The PolyPIU products are covered by a 10-year warranty with regards to resistance to weathering and hail.

*\* Please refer to written warranty.*



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# Use & Maintenance

## 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.

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## INSTALLATION

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

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## 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.

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## 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.

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## CURVING

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

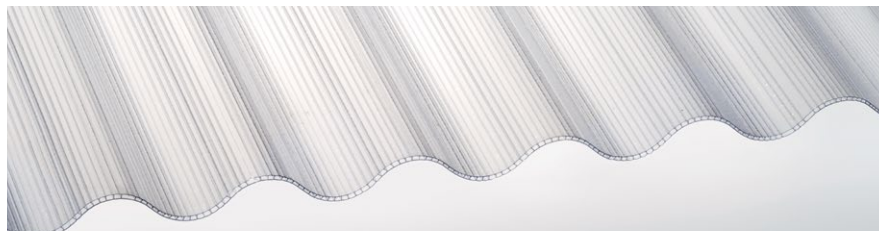
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## SEALING OF THE CELLS

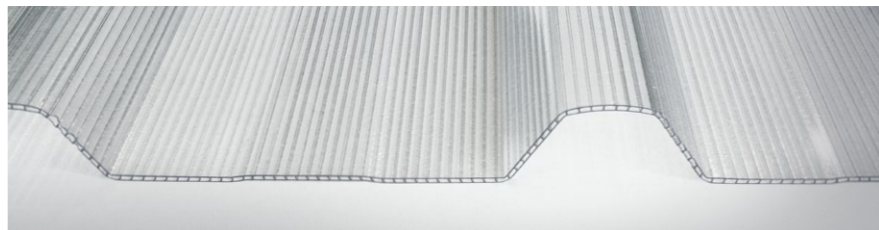
Sheet cells can be thermosealed or taped to prevent them from getting dirty with dust, anyway both systems do not seal the air inside the cells and condensation can appear both on the internal and external side of the cells. Condensation depends on the weather conditions as well as on the specific conditions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



**Corrugated**



**Rev5**

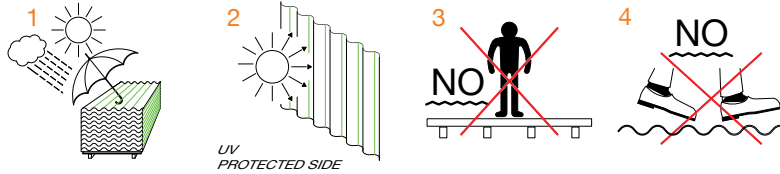


## smartPIU

SmartPIU is an innovative 2.5 mm thick multiwall corrugated and Rev5 polycarbonate sheets for use in domestic, home improvement and industrial roofing applications. The uniqueness of this product lies in its strength, spans and clean good looks. Product spans up to 1500mm 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 a high versatility of overlapping and the multiwall structure offers remarkable advantages if compared to single skin sheets. SmartPIU's ability to adapt into existing polycarbonate or steel sheets makes it the perfect choice for the next generation of light transmitting sheets. All of that backed by an exclusive 10 year written product warranty.

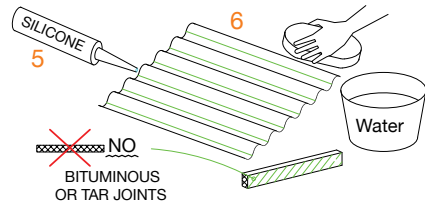
**TECHNICAL RECOMMENDATIONS:**



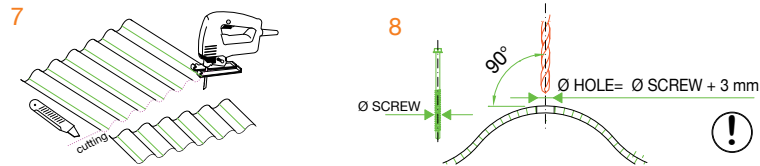
1. Protect the sheets from the sun and rain
2. Install the sheets always with the UV protected layer facing outwards
3. Multiwall polycarbonate sheets **can not be walked upon**
4. Do not walk onto the sheets at any time. Follow safety regulations and safe methods of installation

Polycarbonate may suffer a chemical attack from some products, therefore:

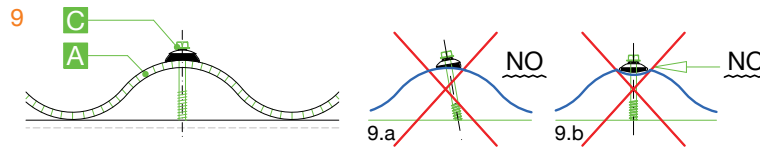
5. Use **only compatible clear silicone** for the sealing
6. Use only **water and mild detergents** for cleaning



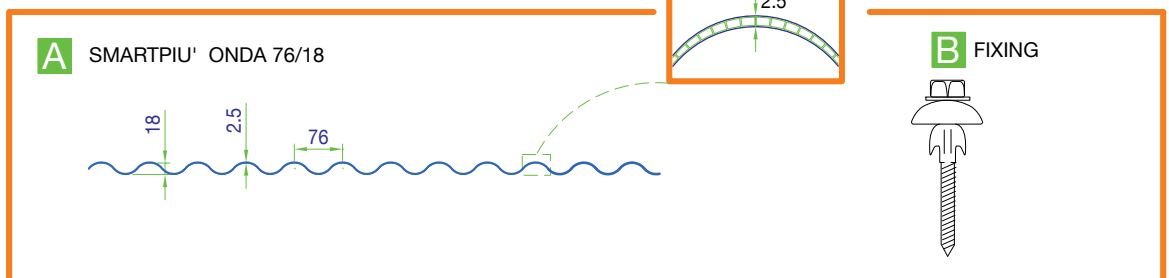
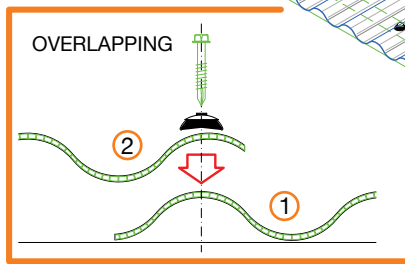
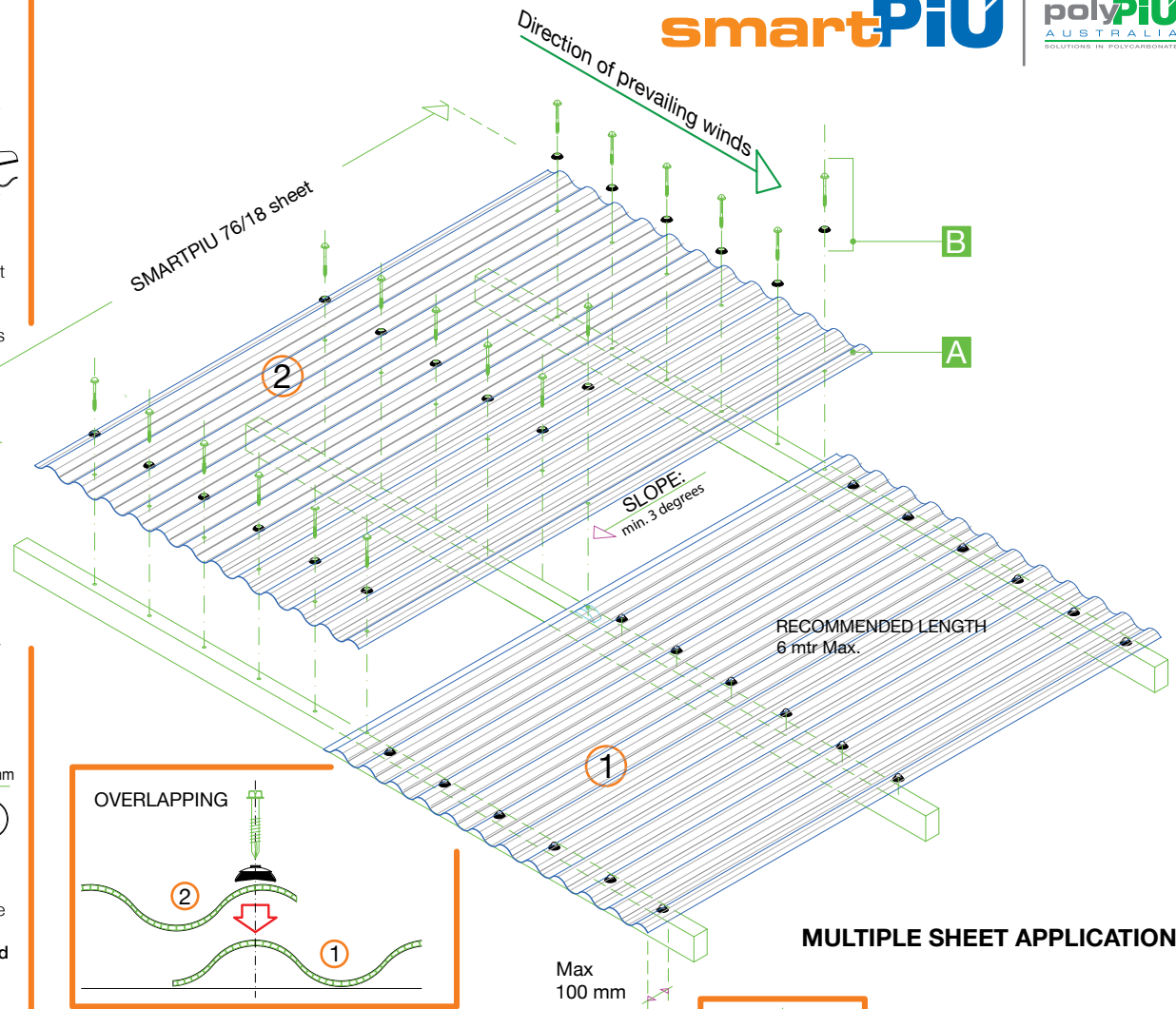
Sheets are supplied to the exact length required **with thermosealed ends**



7. Cutting of the sheets can be executed on site by the means of a hack sawing machine (1) or of a cutter (2). **seal the open cells after cutting with approved silicone.**
8. 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.**



- 9a) The fixing must be executed perpendicular to the sheet.
- 9b) Do not over-tighten the screws as to not damage the sheet at the fixing point.
10. Loading and Spacings - Check our technical literature to determine loading and spacing of the whole system





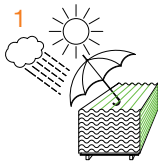
## lightPIU

LightPIU is the most popular product in the PolyPIU polycarbonate range. Available in an 18mm corrugated profile and with two distinct quality finishes, LightPIU exceeds market expectations.

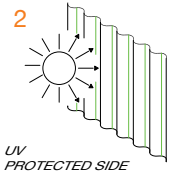
The standard finish offers three colours with excellent light and heat transmissions while the two premium quality finishes provides outstanding heat reducing technology through its specially formulated colours. These features coupled with a minimum 4 degree roof pitch, make this product the market leader for excellent value for money.

LightPIU's unique ability to cut out harmful UV rays, combined with the peace of mind that comes with a 10 year written product warranty, sees it fast becoming Australia's first choice for polycarbonate sheeting.

## TECHNICAL RECOMMENDATIONS:



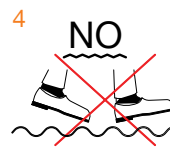
1. Protect the sheets from the sun and rain



2. Install the sheets always with the UV protected layer facing outwards



3. Multiwall polycarbonate sheets **can not be walked upon**

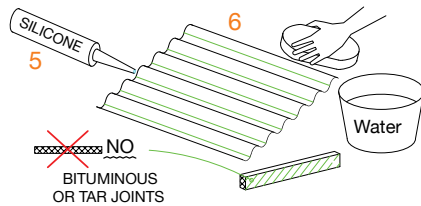


4. Do not walk onto the sheets at any time. Follow safety regulations and safe methods of installation

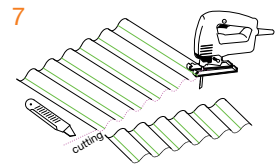
Polycarbonate may suffer a chemical attack from some products, therefore:

5. Use **only compatible clear silicone** for the sealing

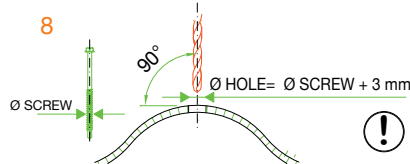
6. Use only **water and mild detergents** for cleaning



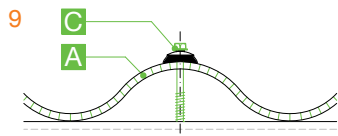
Sheets are supplied to the exact length required **with thermosealed ends**



7. Cutting of the sheets can be executed on site by the means of a hack sawing machine (1) or of a cutter (2). **seal the open cells after cutting with approved silicone.**



8. 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.**



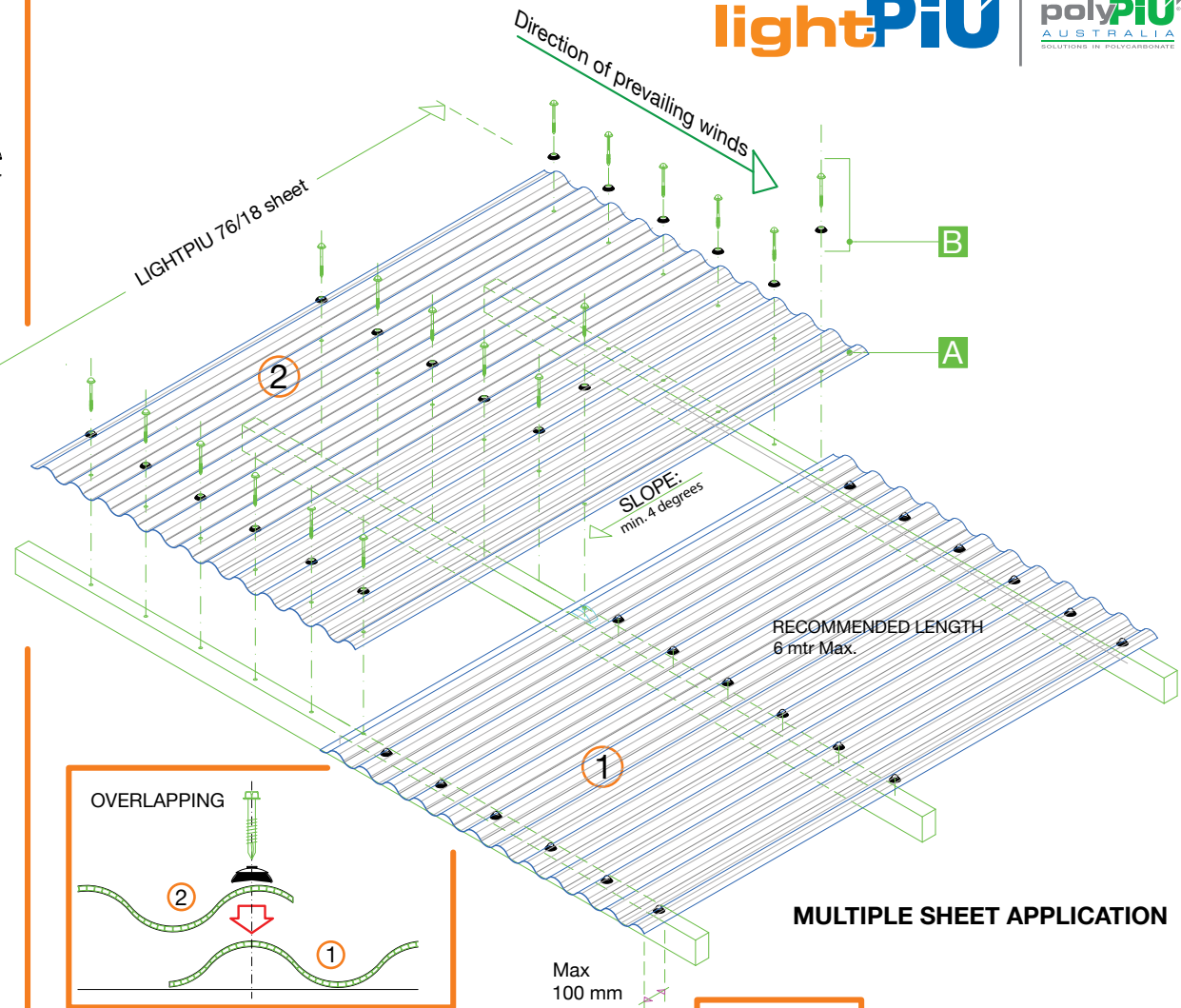
9a) The fixing must be executed perpendicular to the sheet.  
9b) Do not overtighten the screws as to not damage the sheet at the fixing point.

10. Loading and Spacings - Check our technical literature to determine loading and spacing of the whole system

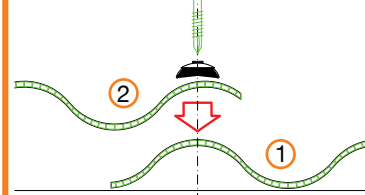


lightPIU

polyPIU  
AUSTRALIA  
SOLUTIONS IN POLYCARBONATE



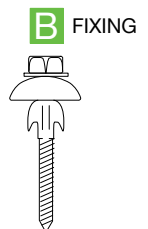
OVERLAPPING



Max 100 mm

MULTIPLE SHEET APPLICATION

A LIGHTPIU' ONDA 76/18





## panelPIU

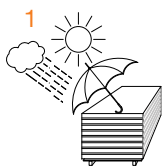
PanelPIU 500 is an advanced interlocking modular system available in 16mm thickness. This product is perfect for gable ends, walling application or screens. Its innovative locking system makes installation quick and easy.

PanelPIU is a product with a high light transmission figure, great thermal insulation and an attractive aesthetical finish thanks to the elimination of connection profiles.

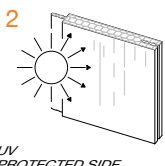
PanelPIU's uniqueness makes this product the polycarbonate of choice for a great looking finish to gable ends or screens.



## TECHNICAL RECOMMENDATIONS:



1. Protect the sheets from the sun and rain

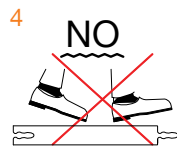


UV PROTECTED SIDE

2. Install the sheets with the UV protected layer facing outwards

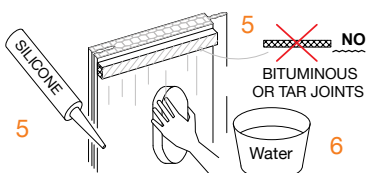


3. Multiwall polycarbonate sheets **can not be walked upon**



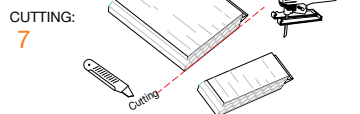
4. Do not walk onto the sheets at any time. Follow safety regulations and safe methods of installation

Polycarbonate may suffer a chemical attack from some products therefore:



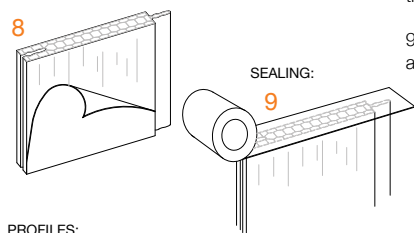
5. Use **only compatible clear silicone** for the sealing

6. Use **only water and mild detergents** for cleaning



7. Cutting of the sheets can be executed on site by the means of a hack sawing machine (1) or of a cutter (2). **Seal the open cells after cutting.**

PROTECTIVE FILM:



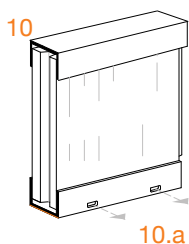
8. Take off the protective film before the installation.

9. Seal the open cells with an adhesive aluminium tape.

10. Protect the sealing with an upper and lower profile flashing

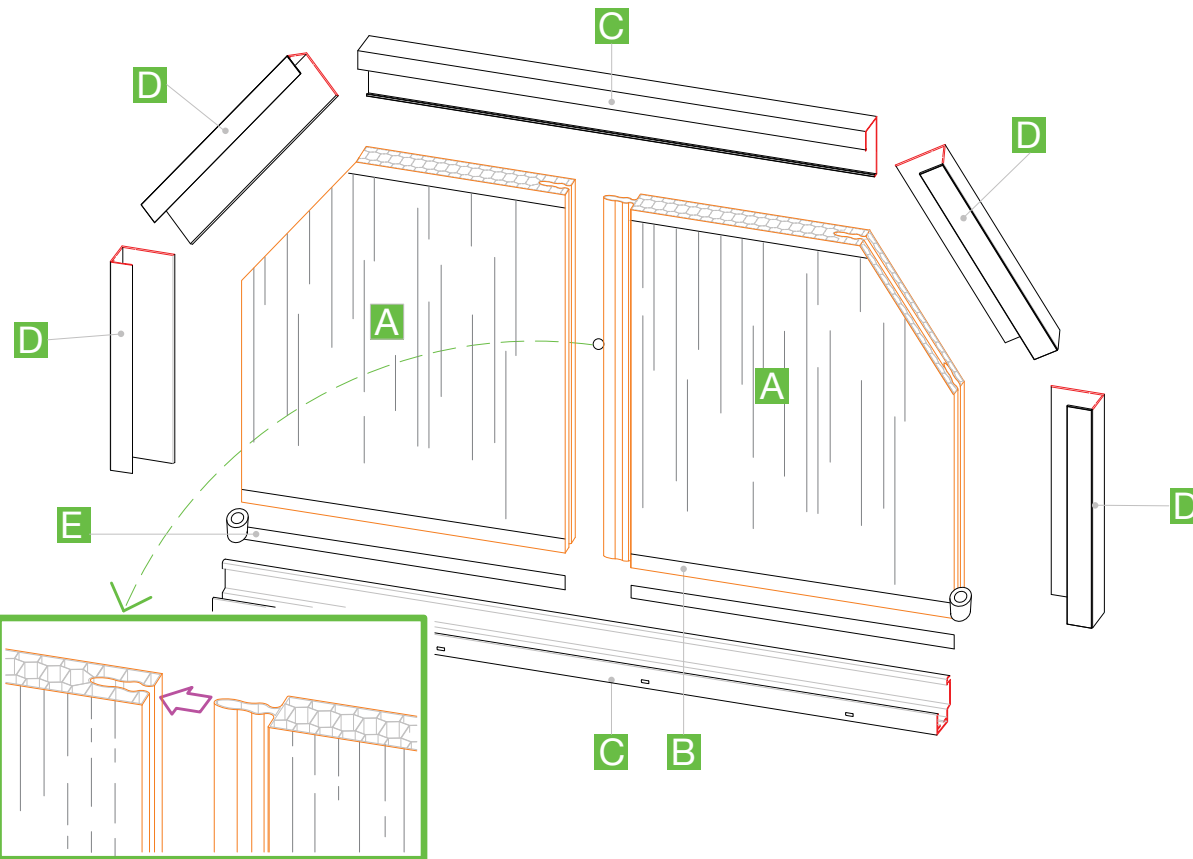
10a) Lower profiles must be drilled for water draining.

PROFILES:

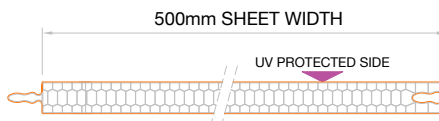


LOADINGS AND SPACING:

11. Loading and Spacings - Check our technical literature to determine loading and spacing of the whole system



**A** PANELPIU' 500

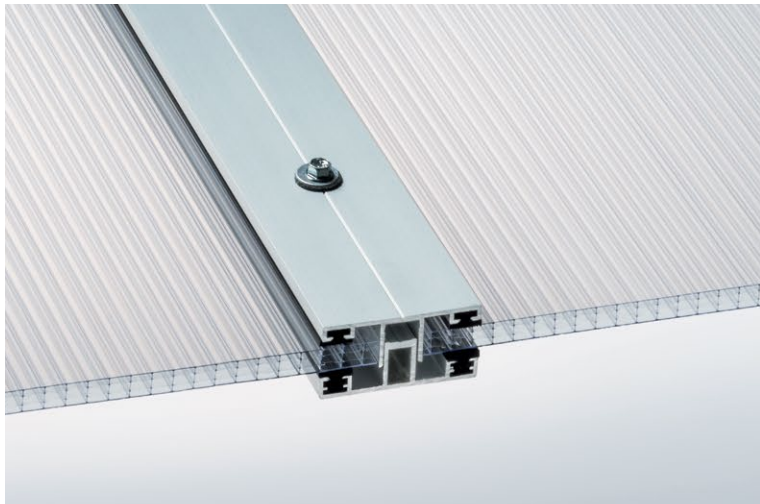


**B** SEAL TAPE

**C** TOP / BOTTOM FLASHING

**D** SIDE FLASHING

**E** DOUBLE-SIDED TAPE

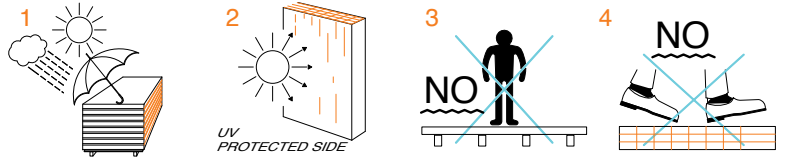


## carboPIU

CarboPIU's Multiwall sheets in polycarbonate, is the product with excellent physical and mechanical properties, excellent impact resistance and a high elasticity that makes them virtually unbreakable. CarboPIU's 10mm fourwall is the core product in the range which combines the strength of a polycarbonate product with superior insulation and spanning capabilities. Available in a unique 2100mm wide sheet or the popular 1050mm, the scope for this product is endless in both the domestic and commercial fields.

The fourwall composite reduces heat and increases light, while the thermal numbers exceed the market expectations. Made to suit the Australian conditions while providing protection from the harmful UV rays. Available in all the popular colours and finishes, and with all the accessories, this product has features beyond market expectations.

**TECHNICAL RECOMMENDATIONS:**

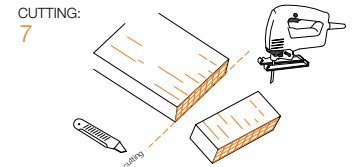


1. Protect the sheets from the sun and rain
2. Install the sheets always with the UV protected layer facing outwards
3. Multiwall polycarbonate sheets **can not be walked upon**
4. Do not walk onto the sheets at any time. Follow safety regulations and safe methods of installation

Polycarbonate may suffer a chemical attack from some products, therefore:

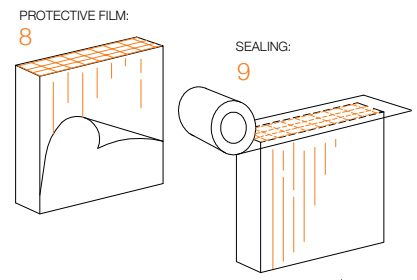


5. Use **only compatible clear silicone** for the sealing
6. Use only **water and mild detergents** for cleaning

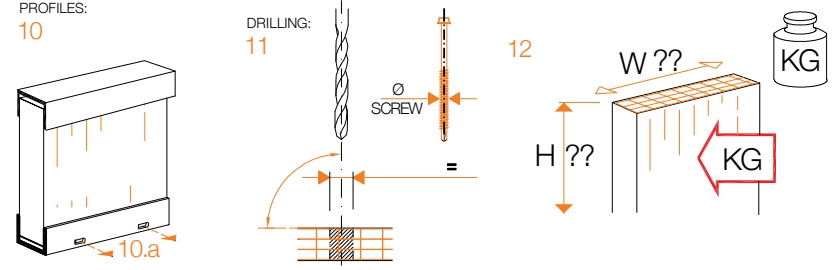


The sheets are supplied to the exact length required either **thermosealed or sealed with an aluminum foil tape** at the ends

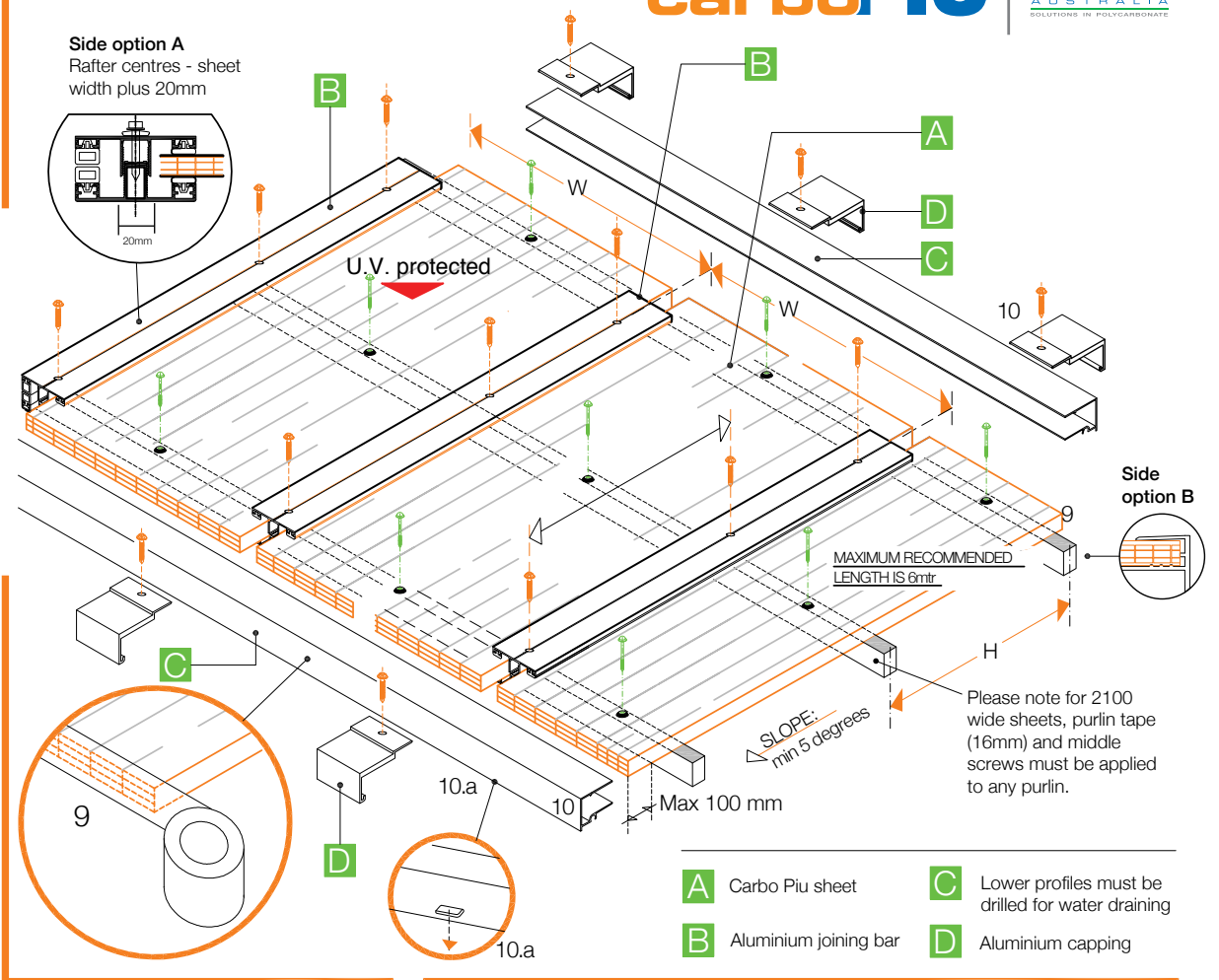
7. Cutting of the sheets can be executed on site by the means of a hack sawing machine (1) or of a cutter (2). Seal the open cells after cutting



8. Take off the protective film before the installation.
9. Seal the open cells with an adhesive aluminium tape
10. Protect the sealing with an upper and lower profile
- 10a) Lower profiles must be drilled for water draining



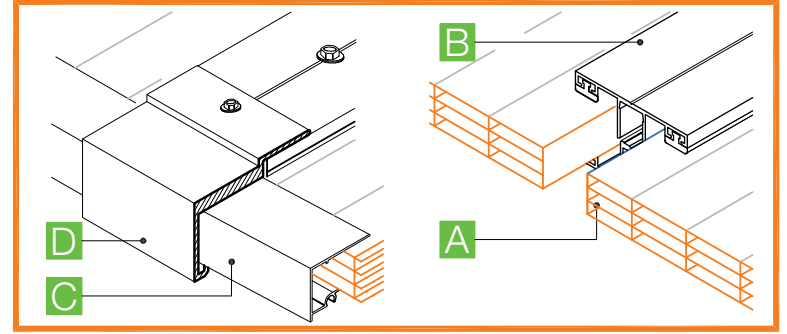
**Side option A**  
Rafter centres - sheet width plus 20mm



- A Carbo Piu sheet
- B Aluminium joining bar
- C Lower profiles must be drilled for water draining
- D Aluminium capping

11. Drilling of the sheets can be executed on site by means of a drill and suitable heads. The hole must be 3mm wider than screw gauge or a slot along the length

12. Loading and Spacings - Check our technical literature to determine loading and spacing of the whole system



[www.polypiuaustralia.com.au](http://www.polypiuaustralia.com.au)  
1300 POLY PIU (1300 765 974)

