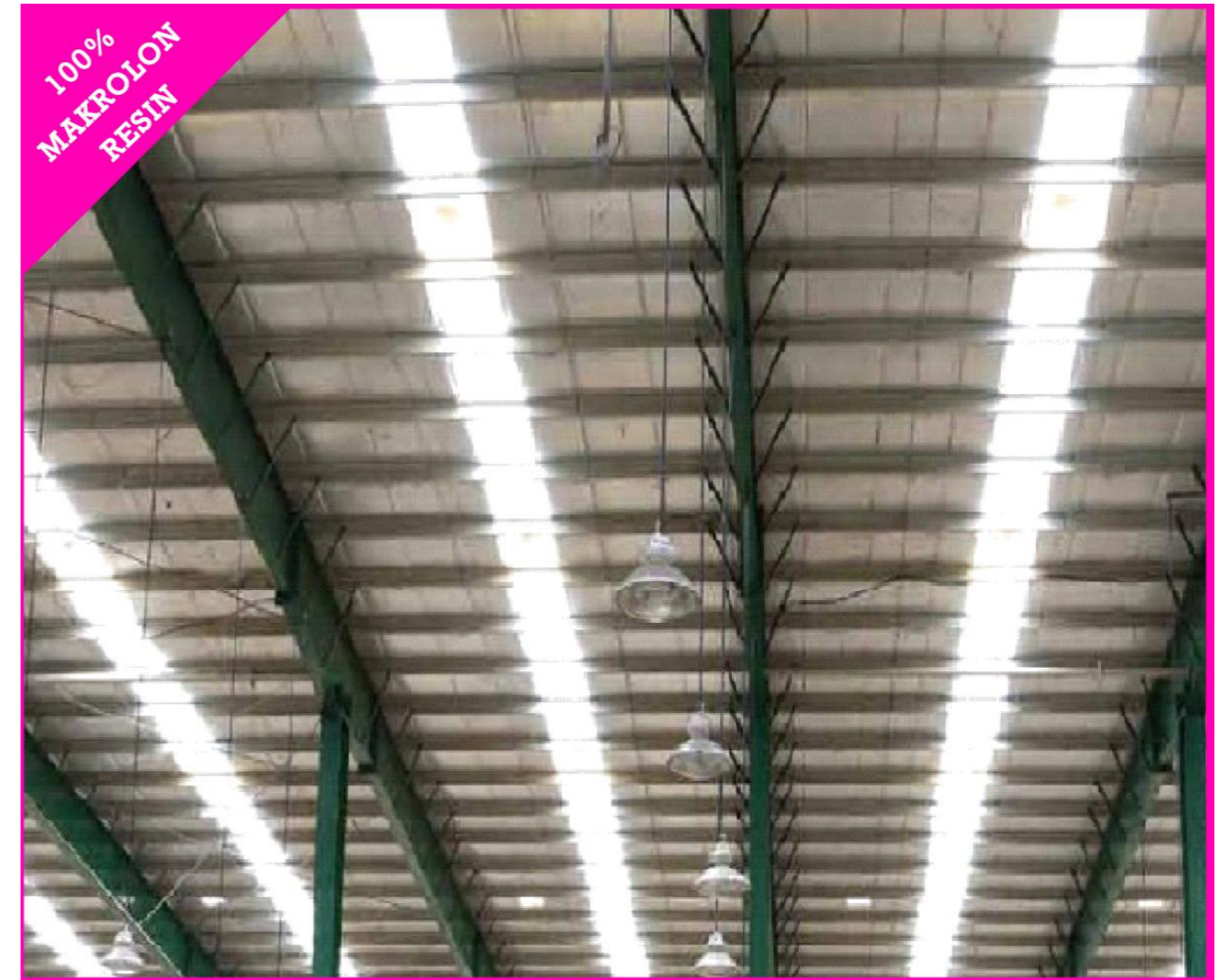


## Safety Recommendations

- Always exercise extreme care when walking on a roof.
- Never walk on or apply your load directly to sheeting.
- In particular consider all safety requirements when working at heights above 2m.
- For safety reasons we recommend the use of safety mesh for installations above 3m.
- Use appropriate personal protective equipment (PPE) such as safety footwear, glasses & gloves.
- All safety practices must comply with the applicable local building and/or work cover code(s).
- We do not recommend the collection of drinking water from any roof without appropriate precautions and filtration. Check with your local water authority for further advice.



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Product Liability Clause: This Information and our technical advice - whether verbal, in writing or by way of trials are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the Information currently provided- especially that contained in our safety data and technical information sheet - and to test products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of sale and Delivery.



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The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by SPIPL.

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With respect to health, safety and environment precautions, the relevant Safety Data Sheets (SDS) and product labels must be observed prior to working with our products.

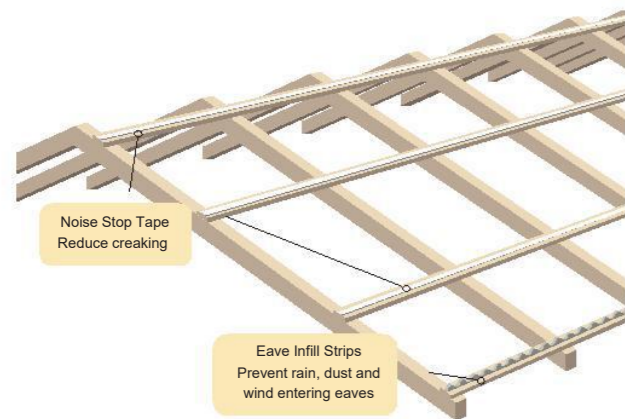
## Ultralite® Corrugated Polycarbonate Sheets



# Ultralite®

# Polycarbonate Roofing Installation Instructions

## Step 1 Purlins & accessories



1. Ensure that your roof pitch is at least 5°, ie. 88mm rise per lineal metre. This will ensure adequate water run off.



2. Allow for ventilation, particularly at the highest point, to minimise heat build-up and provide air circulation. Good ventilation will also minimise condensation in cold weather.

3. For roofing, purlin/batten spacings should be no more than those shown in Table X - Maximum Purlin Spacings. For curved structures, the maximum purlin spacing should be 750mm and a minimum radius of 6000mm for sinus and greca profile and 14000mm for Trimdek profile. For walls, noggings spacings should be no more than 1200mm. Use Noise Stop on all battens, purlins or noggings to minimise the noises associated with expansion and contraction.

Table X - Maximum Purlin Spacings

| Profile | End Span | Mid Span |
|---------|----------|----------|
| Sinus   | 800mm    | 1000mm   |
| Greca   | 900mm    | 1200mm   |
| Trimdek | 900mm    | 1200mm   |

4. Lay Noise Stop Tape to avoid creaking.

5. Lay Eave Infill strips at eaves to avoid rain, dust & wind entering the eaves.

6. For installations under a gutter, fit Metal back channel with Back channel infi II strips prior to laying sheet.

## Step 2 Sheet & Fixing



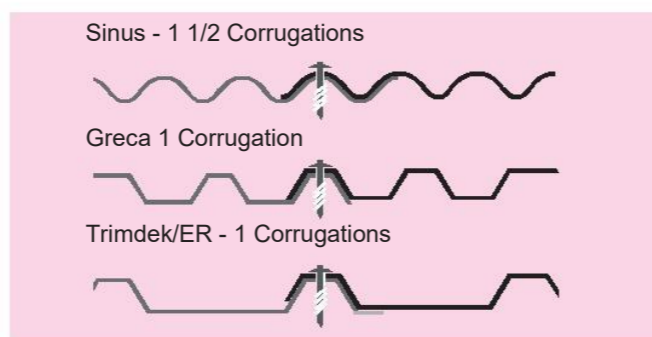
1. Ensure that the UV surface protected side faces the sun. This is the side of the label and the inkjet marking. When installed as a wall or fence it is recommended that the UV protected side is facing the most sun. The life of the sheet may be shortened and discolouration may occur due to the unprotected side being exposed to UV radiation.

2. The sheet can be easily cut with a pair of shears, a fine-toothed handsaw or a circular saw with a cut-off blade suitable for plastic.

3. For roof laying, start with the lower sheets first, keeping side laps away from prevailing wind. Allow an overhang of 50mm. Temperature changes will cause expansion and contraction, so make allowances for thermal movement. Resistance to movement can cause buckling.

4. Side laps will differ by profile. Install as shown below:

Table Y side laps position upward



5. To ensure maximum performance of the sheet, and to avoid buckling, it is necessary to oversize the holes and centre the fixings. They come complete with their own hole saw that cuts an expansion hole as you drill. The screw is centred every time and the cutter holds the plug of material removed. If using Standard Fixings, pre-drill your fixings holes. Use a 10mm drill for sheets up to 4.2m long and a 12mm drill for sheets longer than 4.2m. Fix the sheet through the centre of the pre-drilled holes, perpendicular to the purlins/battens. A (5/16") Drill hex driver bit should be used. Only tighten the fixings enough to prevent rattling.

Over tightening may cause distortion and undue stress with possible failure resulting. Any failure of the sheet due to improper fixings will void the warranty.

In normal conditions, use the Fixings spacings shown in Table Z - Fixing spacings. As a guide, you will need approximately 7 Fixings per lineal metre. This depends on your purlin spacings and wind conditions. In high wind areas fix Sinus and Greca on every second corrugation on each purlin/batten. It is suggested that barge capping be used. Fix the sheet through the valleys for walls with Fixings.

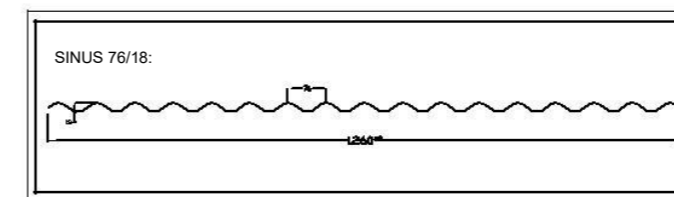
Table Z - Fixing Spacing

| Profile      | End Span        | Mid Span        |
|--------------|-----------------|-----------------|
| Sinus        | Every 2nd crest | Every 3rd crest |
| Greca        | Every 2nd crest | Every 3rd crest |
| Trimdek & ER | Every crest     | Every crest     |

6. End overlaps should be 150mm for steep pitch or 200mm for shallow pitch.

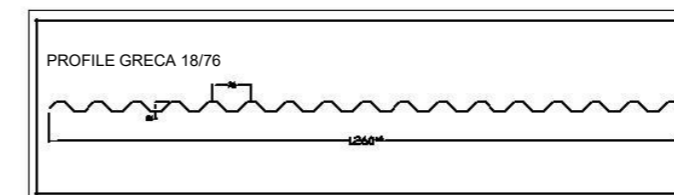
### Ultralite® CORRUGATED SHEETS

1. SINUS PROFILE 76/18:  
1MTR WIDTH (PROFILE) = 1.121 MTR FLATE SHEET



| THICKNESS | CALCULATED DENSITY | G.S.M    |
|-----------|--------------------|----------|
| 0.8 MM    | 1.345 KG           | 1.076 KG |
| 1.0 MM    | 1.345 KG           | 1.345 KG |
| 1.2 MM    | 1.345 KG           | 1.614 KG |
| 1.5 MM    | 1.345 KG           | 2.017 KG |
| 1.8 MM    | 1.345 KG           | 2.421 KG |
| 2.0 MM    | 1.345 KG           | 2.690 KG |

2. GRECA PROFILE 76/18:  
1 MTR WIDTH (PROFILE) = 1.223 MTR FLAT SHEET



| THICKNESS | CALCULATED DENSITY | G.S.M    |
|-----------|--------------------|----------|
| 0.8 MM    | 1.47 KG            | 1.176 KG |
| 1.0 MM    | 1.47 KG            | 1.470 KG |
| 1.2 MM    | 1.47 KG            | 1.764 KG |
| 1.5 MM    | 1.47 KG            | 2.205 KG |
| 1.8 MM    | 1.47 KG            | 2.646 KG |
| 2.0 MM    | 1.47 KG            | 2.940 KG |

### SIZES & COLOUR

| Item                              | Width     | Length           | Colors                            |
|-----------------------------------|-----------|------------------|-----------------------------------|
| Ultralite® Corrugated sinus 76/18 | 1260 MM   | 6100mm           | Clear, bronze, Blue, Green, White |
| Ultralite® Corrugated Greca 76/18 | 1260 MM   | 6100mm           | Clear, bronze, Blue, Green, White |
| Ultralite® Corrugated ER 30/200   | 1066.5 MM | 3050mm & 6100mm  | Clear, bronze, Blue, Green, White |
| Ultralite® Corrugated Trimdek     | 1072 MM   | 2440mm to 6100mm | Clear, bronze, Blue, Green, White |

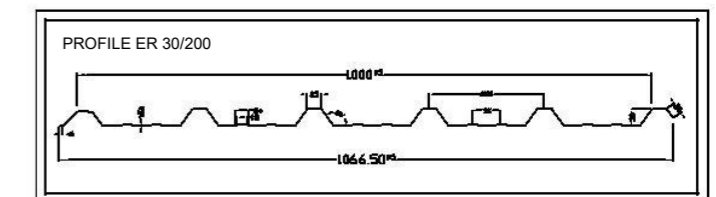
Variety : GP,UV1,UV2

Thickness :

Solid sheet : 0.8mm to 2mm

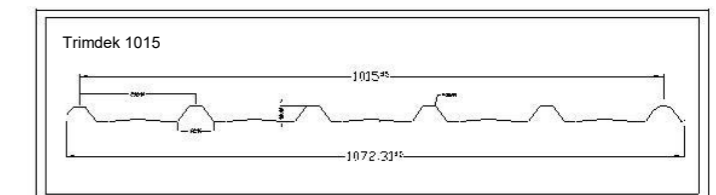
Embossed sheet : 1.2mm to 2mm

3. ER 30/200:  
1 MTR WIDTH (PROFILE) = 1.159 MTR FLATE SHEETS



| THICKNESS | CALCULATED DENSITY | G.S.M    |
|-----------|--------------------|----------|
| 1.0 MM    | 1.390 KG           | 1.390 KG |
| 1.2 MM    | 1.390 KG           | 1.668 KG |
| 1.5 MM    | 1.390 KG           | 2.085 KG |
| 1.8 MM    | 1.390 KG           | 2.502 KG |
| 2.0 MM    | 1.390 KG           | 2.780 KG |

4. TRIMDEK  
1 MTR WIDTH (PROFILE) = 1.170 MTR FLAT SHEET



| THICKNESS | CALCULATED DENSITY | G.S.M    |
|-----------|--------------------|----------|
| 0.8 MM    | 1.404 KG           | 1.123 KG |
| 1.0 MM    | 1.404 KG           | 1.404 KG |
| 1.2 MM    | 1.404 KG           | 1.684 KG |
| 1.5 MM    | 1.404 KG           | 2.106 KG |
| 1.8 MM    | 1.404 KG           | 2.527 KG |
| 2.0 MM    | 1.404 KG           | 2.808 KG |