

# Calypso

## ULTRA

  
**SUPREME**  
 PLASTIC ROOFING



Extend your outdoor living area with Calypso Ultra polycarbonate roofing.



- With a Lifetime warranty, you can be sure that your Calypso Ultra roofing will not only look good, it will also last.
- Designed to withstand harmful UV rays, rain and hailstones\*, Calypso Ultra is the ideal solution for covering your outdoor area.



| FEATURES   | TYPICAL APPLICATIONS   |
|--|--|
| <ul style="list-style-type: none"> <li>• Lifetime Warranty*</li> <li>• 99.9% protection from harmful UV rays</li> <li>• Strong and flexible</li> <li>• Hail resistant</li> </ul> | <ul style="list-style-type: none"> <li>• Shed skylights</li> <li>• Gazebos</li> <li>• Pergola roofing</li> <li>• Carports</li> </ul> |

Up to 50% better heat reduction than standard corrugated sheet#



## SELECTING THE RIGHT COLOUR

Calypso Ultra comes in seven colours. Clear will offer exceptional light transmission into your outdoor area. Find the ideal solution for your outdoor area.



|                      |     |     |     |     |     |     |     |
|----------------------|-----|-----|-----|-----|-----|-----|-----|
| Light Transmission % | 56% | 53% | 93% | 38% | 19% | 49% | 17% |
| Heat Reduction % ‡   | 49% | 46% | 0%  | 33% | 47% | 61% | 66% |

Light and Heat Transmission in accordance with ISO 9050 Standard test method.  
Opal Data is in accordance with ISO 10350.

## EASY INSTALLATION

Installing Calypso Ultra is easy. When installing your Calypso Ultra polycarbonate roofing, Supreme Plastic Roofing recommends that you use One Shot Fasteners for timber purlins, and Alsynite One Multipurpose fasteners are recommended for timber or steel purlins. These fasteners will ensure that you have pre-drilled oversized holes to allow your sheet to expand and contract. Detailed installation information is inside this brochure.

Available sheet profile and physical properties



| profile    | sheet thickness | sheet width | cover width | end span | mid span |
|------------|-----------------|-------------|-------------|----------|----------|
| corrugated | 0.8mm           | 840mm       | 755mm       | 800mm    | 1000mm   |
| greca      | 0.8mm           | 815mm       | 760mm       | 900mm    | 1200mm   |
| 5-Rib      | 0.8mm           | 830mm       | 762mm       | 900mm    | 1200mm   |

Available lengths: 1.8m, 2.1m, 2.4m, 2.7m, 3.0m, 3.6m, 4.2m, 4.8m, 5.4m, 6.0m, 7.2m. \*5-rib only available in Clear, Bronze or Grey

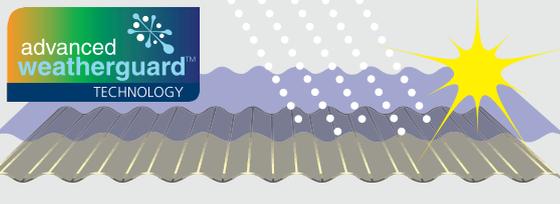
## ADVANCED WEATHERGUARD™ TECHNOLOGY

Calypso Ultra sheeting in the Ice and Platinum features Advanced Weatherguard technology, a special protective material that is warranted to:

- Extend the life of the sheet by up to 50%
- Maintain sheet colour and clarity up to 50% longer
- Provide 99% protection from UV rays up to 50% longer
- Resist 25% larger hailstones

### HOW IT WORKS

UV rays, wind, hail and rain have the potential to make polycarbonate resins brittle and lose colour over time. **Advanced Weatherguard™** protects the sheet and protects from harmful UV radiation



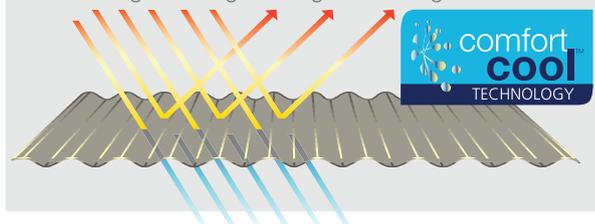
## COMFORT COOL™ TECHNOLOGY

Comfort Cool keeps you cool and comfortable. Calypso Ultra features Comfort Cool technology, unique properties in the sheet that reflect the warming effect of the sun's rays to offer:

- Up to 50% better heat reduction than standard profiled polycarbonate sheet
- Reduced glare for ultimate comfort

### HOW IT WORKS

Infra red light emitted by the sun passes through polycarbonate sheet making it warm underneath. **Comfort Cool™** Technology reflects the heat away whilst letting visible light through with less glare.



## SAFETY INFORMATION

- Always exercise extreme care when working on a roof. Use walking boards along purlins.
- Never walk directly on the sheeting.
- Always wear eye protection when using cutting tools.
- For safety precautions, Supreme Plastic Roofing recommends the use of safety mesh for installations above 3m.
- Supreme Plastic Roofing does not recommend the collection of drinking water from any roof without appropriate precautions and filtration. Check with your local water authority for further advice.

## CAUTION:

To maximise the life of your Calypso Ultra polycarbonate roofing, avoid exposing your polycarbonate sheeting to excess heat from patio heaters. A distance of 1m should be kept between the sheets and the heater, adequate ventilation at all times and temperature to be below 90°C beneath the sheeting. If temperature beneath your sheet rises above 90°C, immediately remove the patio heater from underneath the polycarbonate sheeting.

## IMPORTANT:

These instructions are designed to prevent leaking and alleviate the requirement for sealants. Sealants, especially silicone, are incompatible with polycarbonate. They will damage the sheet, restrict expansion and contraction, and void the warranty. Use the appropriate flashings and infill strips to complete your project and help protect your outdoor entertaining areas from the weather, without the need for sealants.

## Handling, Storage and Cleaning

- Store sheets on a flat surface in a well-protected and shaded area, out of direct sunlight. Stacked sheets stored in the sun will cause heat build-up and possibly distortion, even if covered. If damage occurs in this situation, warranty is void.
- Prevent moisture getting between stored sheets as this may cause whitening.
- Clean sheets regularly with warm soapy water (mild detergent) and a soft sponge. Take care not to scratch the sheet. Hose down thoroughly.

## Chemical Properties

Calypso Ultra Polycarbonate Roofing is affected by methylated spirits, benzene, petrol, ketones, acetone, phenols, chlorinated and aromatic hydrocarbons, petroleum-based paints, abrasive cleaners and solvents.



## NZBC Fire Group 1-S Rating

Calypso Ultra has been extensively tested using the full scale ISO 9705 room test. This extensive testing utilises a gas burner exposing the sheeting to 100kw for 10 minutes, and then 300kw for a further 10 minutes.

Calypso Ultra achieves a NZBC 1-S Rating as flashover is not reached.

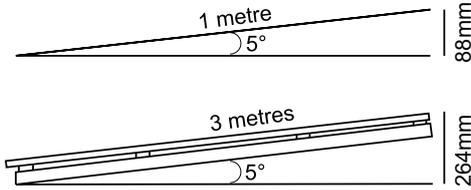


BRANZ  
Technical Opinion FAR 458010 (2016)

# INSTALLATION GUIDE

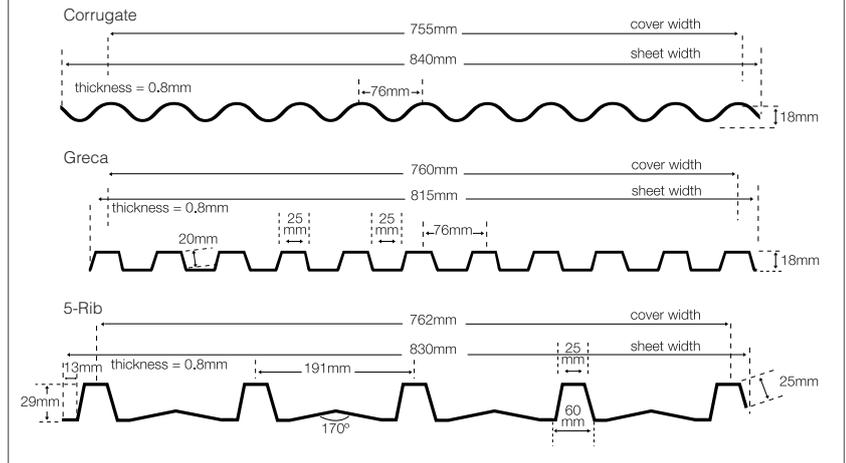
Carefully read all installation instructions before you start. For installation in high wind prone areas, contact your nearest Supreme Plastic Roofing office for special instructions.

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



- 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.
- Ensure the UV surface protected side faces the sun. This is the side with the adhesive label and ink-jet marking on the edge. 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.
- 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.
- Temperature changes will cause expansion and contraction, so make allowances for thermal movement. Resistance to movement can cause buckling (see fasteners section in this brochure).
- To ensure maximum performance of the sheet, and to avoid buckling, it is necessary to oversize the holes and centre the fixings.

## PROFILES



## SIDE LAPS

Corrugate – 1 ½ corrugations



Greca – 1 corrugation



← Prevailing Wind Direction

## FIXING SPACINGS

In normal conditions, use the fixing spacings shown in the table (right). 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 the sheet on every second corrugation on each purlin/batten. It is suggested that barge capping be used. Fix the sheet through the crests for roofing and through the valleys for walls.



- Use 50mm fasteners to fasten Corrugate and Greca and 65mm for fastening 5-Rib Calypso Ultra roofing sheets
- For roof laying, start with the lower sheets first, keeping side laps away from prevailing wind. Allow an overhang of 50mm.
- For high and very high wind zone installations please contact Supreme Plastic Roofing for specific fastening recommendations.

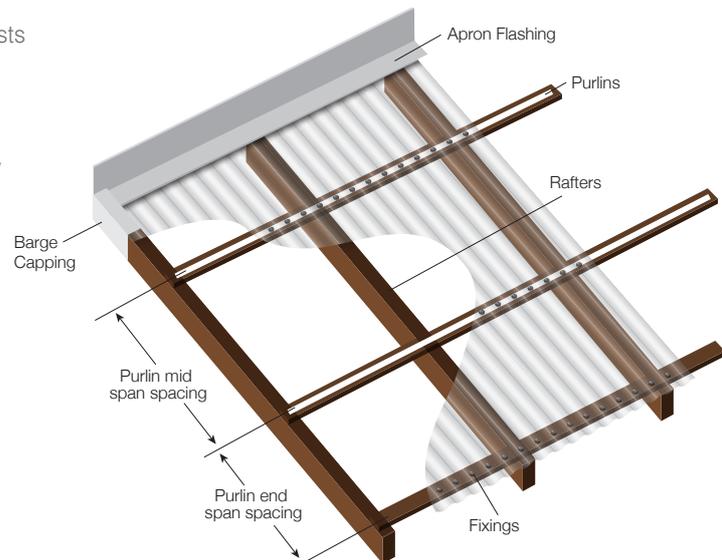
| Profile   | End Purlins     | Mid Purlins     |
|-----------|-----------------|-----------------|
| Corrugate | Every 2nd crest | Every 3rd crest |

| Profile   | End Span | Mid Span |
|-----------|----------|----------|
| Corrugate | 800mm    | 1000mm   |

## PURLIN SPACINGS

For roofing, purlin spacings, refer to the table on this page. For curved structures, the maximum purlin spacing should be 750mm and a minimum radius of 6000mm for Corrugate profile. For walls, nogging spacings should be no more than 1200mm.

Use **Noise Stop Tape** on all battens, purlins or noggings to minimise the noises associated with expansion and contraction.



| Sheet Length | Depth of Curve |
|--------------|----------------|
| 3.6m         | 200            |
| 4.2m         | 400            |
| 4.8m         | 600            |
| 6.0m         | 800            |

# ACCESSORIES

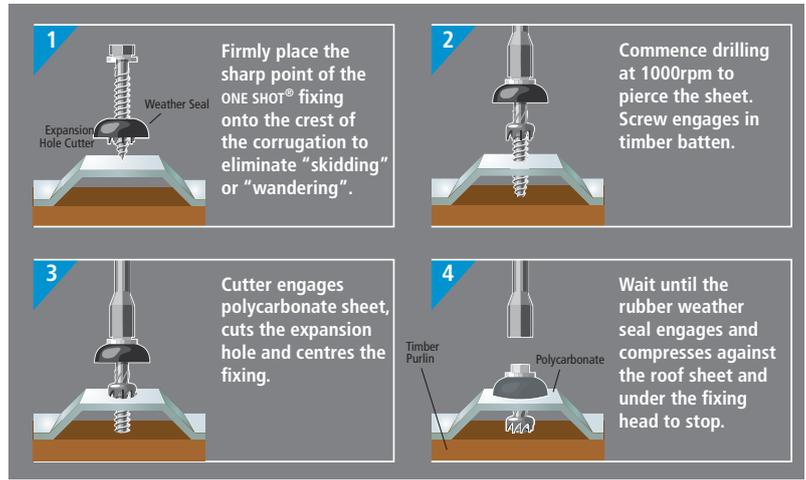
## FASTENERS

You can use either One Shot® fasteners or Alsynite One Multipurpose fasteners to fix your Calypso Ultra polycarbonate roofing.

These types of fasteners have built in cutting devices that will pre-drill an expansion hole while you drill in the fastener. The expansion hole is very important because it allows the sheet to expand and contract when the temperature changes.

To ensure your roofing project is fitted correctly, you may require a few additional accessories such as flashings and foam.

One Shot® Fasteners not recommended for high and very high wind zone installations.



Superdrive Tip drills through timber battens and steel purlins in one easy step. Now with Premium DEKS 26mm Washer



## POLYCARBONATE FLASHINGS

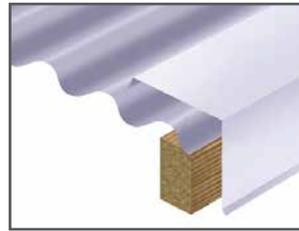
**Tint:** Clear, Bronze, Grey

**Standard lengths:** 3.0m & 6.0m

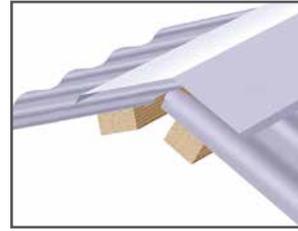
Flashings can be ordered when you purchase your Calypso Ultra sheeting. They can be cut to length<sup>1</sup>.

*Note: Apron flashings are available in other dimensions, please contact Supreme Plastic Roofing for details 09 636 0949*

### BARGE CAPPING



### RIDGE CAPPING



### APRON FLASHINGS



## FOAM PRODUCTS

Depending on your installation design and location, you may need foam products to ensure your roofing will last and performs the way it is designed to.

### EAVE INFILL STRIP

Prevents rain, dust and wind entering eaves.

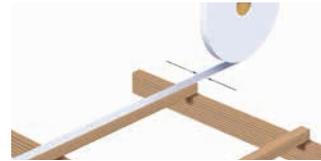
Length: 975mm

Colours: Black or White



### NOISE STOP TAPE

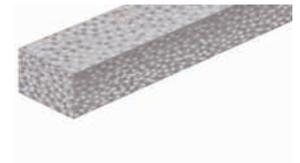
Prevent creaking noises created by your sheeting expanding and contracting as the temperatures outside change. Length: 25m.



### BACK CHANNEL INFIL STRIP

Prevent leaking at walls and fascias.

Length: 3.6m



<sup>1</sup>If you require a sheet or flashing length that is not standard, you will need to purchase the next standard length of sheet or flashing. Eg: If you require a length of 2.8m, you will need to purchase a 3m length.

\*Warranty Terms and Conditions Apply.

Fire performance rating:

Calypso Ultra has been BRANZ tested using the full scale ISO 9705 room test and achieves a NZBC fire group 1- S classification.

WARRANTY: Calypso Ultra (the product) is warranted to perform as follows:

1. LOSS OF LIGHT TRANSMISSION – LIMITED LIFETIME WARRANTY. For the commercial life of the Products (subject to the terms below) they will not lose the ability to transmit light\*.

The loss of light transmission will not exceed 8% in the first 15 years (0.8% per year), from the date of manufacture and 1% per year thereafter as long as the sheet lasts in its original installation, available to the original purchaser only (when tested in accordance with AS/NZ 4257.4-1994 determination of diffuse light transmission).

2. WEATHER BREAKAGE – 15 YEAR WARRANTY. Manufacturer warrants that for a period of 15 years from the date of manufacture the Products (subject to the terms below) will specifically resist damage due to hail measuring up to 25mm in diameter accompanied by winds of up to 80 km per hour.

\*Refer to full terms and conditions at [www.supremeplastics.co.nz](http://www.supremeplastics.co.nz). Any claim should be made in writing to: The Customer Services Manager, Calypso Ultra, PO Box 10409, Te Rapa, Hamilton 3241



**SUPREME**  
PLASTIC ROOFING

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