

# Calypso Polycarbonate Roofing



## Extend your outdoor living area with Calypso polycarbonate roofing.

With a Ten Year Limited Lifetime warranty, you can be sure that your Calypso roofing will not only look good, it will also last.

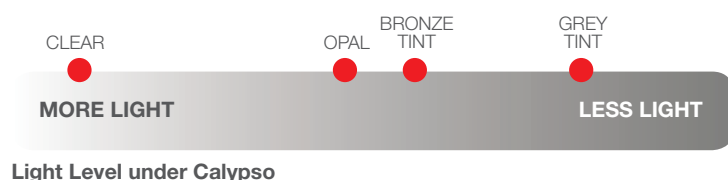
Designed to withstand harmful UV rays, rain and hailstones\*, Calypso is the ideal solution for covering your outdoor area.

- Affordable Polycarbonate Sheet
- 99.9% UV Protection
- Easy Installation
- Four stylish colours
- 0.8mm thick polycarbonate
- Good quality
- Ten Year Limited Lifetime warranty
- Eleven standard lengths
- Can be cut to length<sup>1</sup>

### TECHNICAL INFORMATION

	Corrugate Profile	Greca Profile
Sheet Width	840mm	815mm
Cover	755mm	760mm
Colours	Clear, Bronze Tint, Grey Tint, Opal	Clear, Bronze Tint, Grey Tint
Lengths	1.8m, 2.1m, 2.4m, 2.7m, 3.0m, 3.6m, 4.2m, 4.8m, 5.4m, 6.0m, 7.2m	

### LIGHT & HEAT TRANSMISSION



Light Level under Calypso



Comfort Level under Calypso

### SELECTING THE RIGHT COLOUR

Calypso comes in four colours. Opal will provide the best heat reduction and Clear will offer exceptional light transmission into your outdoor area. Find the ideal solution for your outdoor area.

### EASY INSTALLATION

**Installing Calypso is easy.** When installing your Calypso polycarbonate roofing, Alsynite recommends that you use One Shot Fasteners or Alsynite Multipurpose Fasteners. These fasteners will ensure that you have a pre-drilled oversized hole to allow your sheet to expand and contract.

Detailed installation information is inside this brochure.

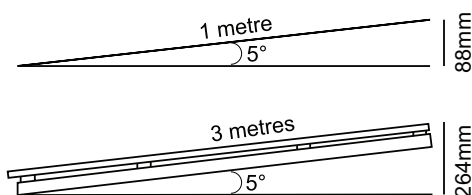
# INSTALLATION GUIDE

Carefully read all installation instructions before you start.

For installation in high wind prone areas, contact your nearest Alsynite office for special instructions.

## Installation Information

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



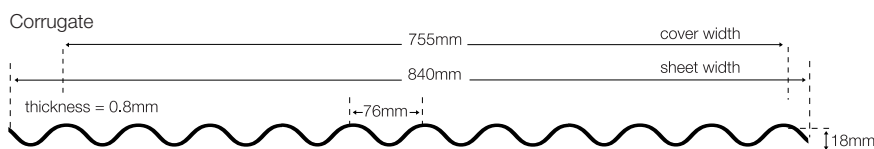
- **Allow for ventilation**, particularly at the highest point, to minimise heat build-up and provide air circulation. Good ventilation will also minimise condensation in cold weather.
- Ensure the UV surface protected side faces the sun. **This is the side with the adhesive label and ink-jet marking 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.

## SAFETY INFORMATION

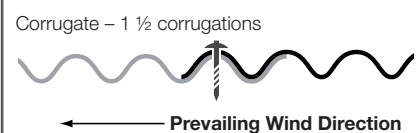
- Always exercise extreme care when working on a roof. Use walking boards along purlins.
- **Never walk directly on the sheeting.**
- Always wear eye protection when using cutting tools.
- For safety precautions, Alsynite recommends the use of safety mesh for installations above 3m.
- Alsynite does not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

- 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.

### PROFILE



### SIDE LAPS



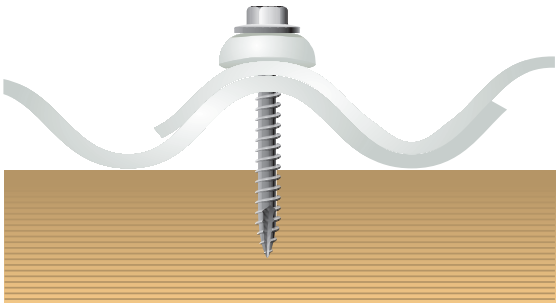
**CAUTION:** To maximise the life of your Calypso polycarbonate roofing, avoid exposing your polycarbonate sheeting to excess heat from patio heaters. A distance of 1m should be kept between the sheets and the heater, adequate ventilation at all times and temperature to be below 90°C beneath the sheeting. 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.

## 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 or 55mm fasteners to fasten your Calypso roofing sheets.
- For **roof laying**, start with the lower sheets first, keeping side laps away from prevailing wind. Allow an overhang of 50mm.
- **High Wind Zones:** Use load spreading profile washers.  
For information on high wind zones please visit the polycarbonate roofing page at [www.alsynite.co.nz](http://www.alsynite.co.nz)



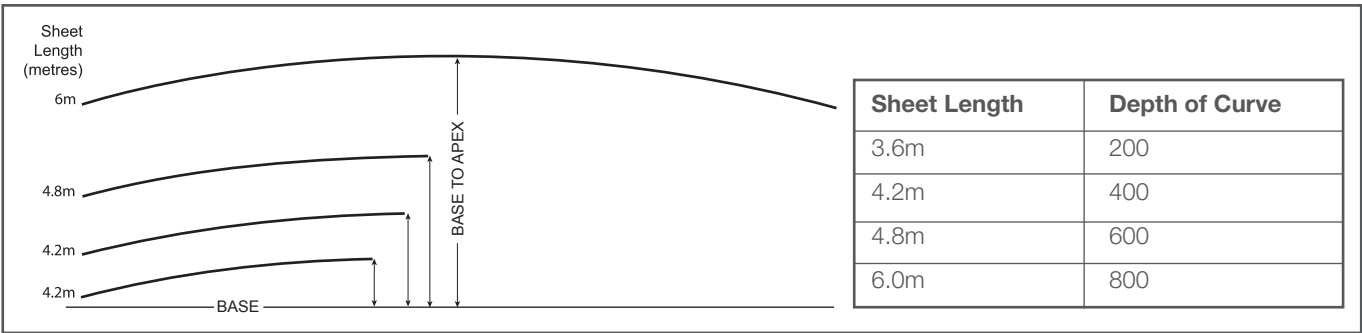
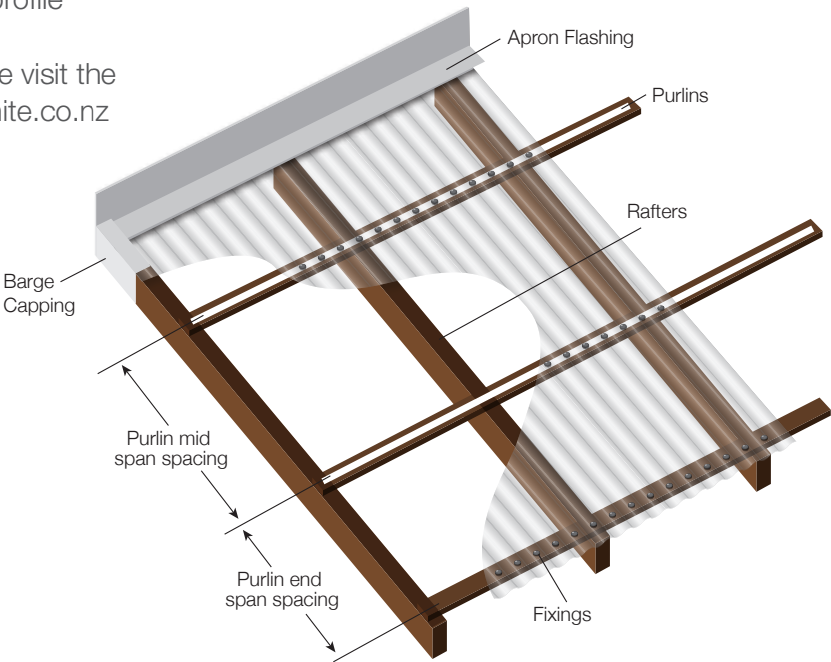
Profile	End Purlins	Mid Purlins
Corrugate	Every 2nd crest	Every 3rd crest

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.



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

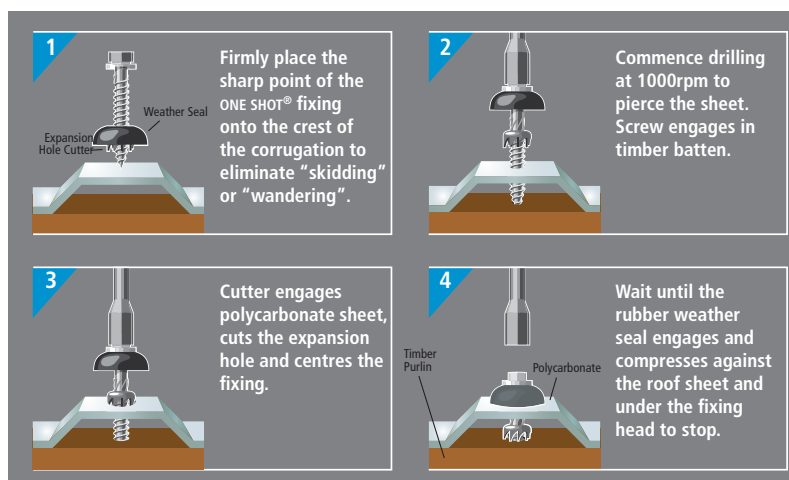
# ACCESSORIES

## Fasteners

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

Both 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.

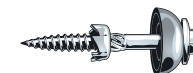
To ensure your roofing project is fitted correctly, you may require a few additional accessories such as flashings and foam.



**ONE SHOT**



STEEL



TIMBER

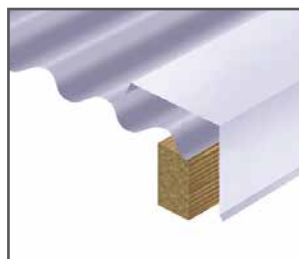
## Polycarbonate Flashings

**Tint:** Clear

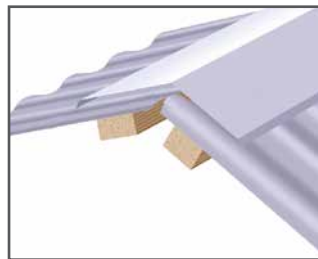
**Standard length:** 3.0m

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

### BARGE CAPPING



### RIDGE CAPPING



### APRON FLASHINGS



*Note: Apron flashings are available in other dimensions, please contact Alsynite for details. 0800 257 964.*

## 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.

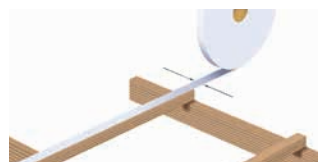
Length: 975mm

Colours: Black or White



### NOISE STOP TAPE

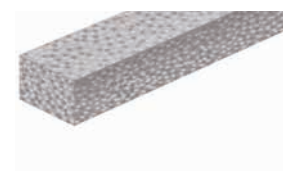
Prevent creaking noises created by your sheeting expanding and contracting as the temperatures outside change. Length: 25m.



### 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.

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**SUPREME**  
PLASTIC ROOFING