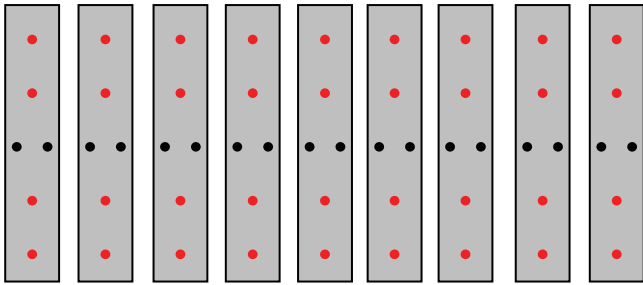


# Profiles - Installation

Replas Profiles are similar to timber to install; however, there are some key points which will reduce your installation time and result in a better finished product.

## Installing

Place **one fixing** through the centre of each Profile, for as many joists as support the Profile.



## Drilling

Profiles can be drilled with the same tools and accessories as timber. Fixing points should be pre-drilled with an 8 mm hole and countersunk.

## Recommended fasteners

### Composite fibre

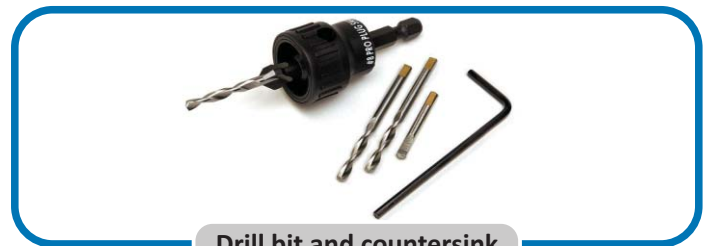
75 mm bugle batten 14 gauge screws

### Timber/plastic

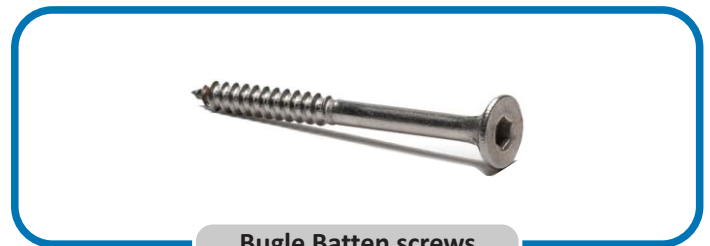
100 mm bugle batten 14 gauge screws

### Steel

Coach bolt as per traditional methods



Drill bit and countersink



Bugle Batten screws

## Advanced Screw Driving system

*Extreme Coil Auto Feed from Powers®* is ideal for large, repetitive projects. See the website for more information.

Replas can provide all of the above accessories and more to make your job as efficient and safe as possible.

## Cutting Profiles

To create a cleaner cut and reduce the risk of over-heating when cutting Profiles, Replas recommends a thin kerf blade with anti-kick, and as few teeth as possible.



An 18 or 20 toothed blade is recommended for use with a drop saw.

Drop saw



A 4 or 6 toothed blade is recommended for use with a circular saw.

Circular saw

## Kick Rails & fascia coverings

Recycled-plastic profiles can be used for kick rails or fascia coverings. They are tough, aesthetically pleasing and provide the perfect solution to complete your structure. Profiles may also be used to create water drainage scuppers below the kick rail.

A 10 mm gap between lengths of kick rail will allow for expansion and contraction.



Fascia coverings



Kick rail & scuppers

## Packing Accessories

Profiles should be spaced at 5 mm intervals. It is important to continuously monitor and measure to ensure a consistent outcome; smaller or larger packers may be required in some circumstances.

## Expansion and contraction

The coefficient of linear expansion for RPA material is applicable to Enduroplank™, profiles and wharf fenders. The value of  $1.1 \times 10^{-4}$  applies. This means that each one-metre length will expand by 0.0001 metre for each degree Celsius change in temperature, or 0.11 millimetres per degree change in temperature.

A one-metre length will expand, or contract, 2.2 millimetres for a 20 degree change in temperature. Important to note that any material in direct sunlight will be at a higher temperature than the surrounding air and therefore actual expansion may vary from that calculated. To accurately recommend the gap between planks depends on the temperature of the installation site and the maximum temperature to be reasonably expected at that location.

**Installers who do not wish to use the above calculation may choose to use the below rule of thumb.**

The below chart assumes a 20 degree difference between the installation temperature and the maximum temperature.

<b>Length of profile</b>	-	1 metre	2 metres	3 metres	4 metres	5 metres	6 metres	7 metres	8 metres
<b>Gap to be provided</b>	-	3.0 mm	6.0 mm	9.0 mm	12.0 mm	15.0 mm	18.0 mm	21.0 mm	24.0 mm.

*Please note: the above is the total gap between boards so to get a measurement for either end divide by two.*

The above chart is a *suggested recommendation only* for installers. It is suggested best results will be achieved by controlling the temperature of the material during installation. This may be achieved by placing shade cover over stored material while installation is in progress.