

PuraComposite™

Technical Installation Guide

PRODUCT **PuraFence™**



APPLICATION

Composite fencing

SYSTEM

Post, board & trim

READ

In full before use

Required equipment

General woodworking tools are all that is needed to install PuraFence™. When using electrical tools, always observe the manufacturer's recommendations and safety information. It is your responsibility to comply with all applicable health-and-safety legislation and guidelines.

— SAFETY EQUIPMENT

- Ear protection
- Safety glasses
- Gloves
- Dust mask
- Safety footwear
- Long sleeves

— TOOLS

- Jig saw
- Mitre saw
- Hand saw
- Hack saw
- Tape measure
- Spirit level
- Power drill
- General hand tools

Considerations

— PRE-INSTALLATION

- **Read the guide.** Read this PuraFence™ installation guide in full, especially if you are new to installing our ranges.
- **Buy boards together.** Purchase all fence boards for the project together — colour can vary from batch to batch due to natural and process variables.
- **Inspect on delivery.** Always inspect the boards for damage on arrival.
- **Allow for wastage.** Allow around 10% wastage, subject to design.
- **Plan storage.** Consider how you will store the product once it arrives on site or at your store.

— INSTALLATION

- **Blend the shades.** Variation is designed into the shade spectrum through colour mixing; inspect each pack and mix as needed for a natural blend.
- **Report concerns first.** Report any concerns to your supplier before starting work. PuraComposites Ltd will not accept liability or costs where product deemed unsatisfactory was then installed.
- **Leave an expansion gap.** All composite products expand and contract. Leave an expansion gap between the fence boards and post, sized for the ambient temperature at installation:

AMBIENT TEMPERATURE (AT INSTALL)	EXPANSION GAP
0 °C	4 mm
10 °C	3 mm
20 °C	2 mm
30 °C	1.5 mm

Storage, handling & recommendations

— STORAGE

- **Store under cover.** Keep products under cover and in the shade, dry and protected from the weather, to maintain a clean surface until installation.
- **Support the boards.** Store on a clean, flat, level surface, supported above the ground on battens at no more than 500 mm intervals so boards do not bow.
- **Secure any covering.** If stored outside, ensure any covering is adequately secured.
- **Stack safely.** Stack fencing panels on top of each other; pallets of boards no more than 3 m high.

— HANDLING

- **Handle with care.** Do not slide or drag boards over one another.
- **Carry on edge.** Carry boards from the middle, on their edge, for better support.
- **Keep surfaces clean.** Do not drag equipment across the board faces, and keep boards free of debris.

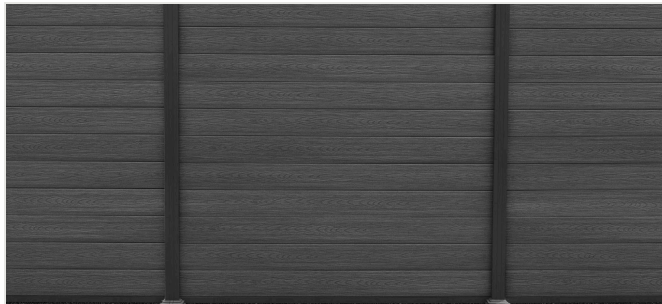
— RECOMMENDATIONS

- **Check regulations.** Consult your local authorities about building-regulation requirements, special requirements or restrictions before installing.
- **Use as a guide.** These instructions describe a typical installation and do not replace the advice of a professional fencing installer.
- **Verify measurements.** All measurements are subject to manufacturing tolerances; check every measurement before installation.

Fence designs & components

PuraFence™ installs as a standard fence or a fence with a trellis top, from a common set of boards, posts, trims and caps.

— FENCE DESIGNS



STANDARD FENCE



FENCE WITH TRELLIS

— COMPONENTS



Fence board

1780 mm W × 150 mm



In-ground post

2.5 & 3.0 m



Bolt-down post & bolts

1.90 m



Post cap



Post skirt



Top & bottom trim kit



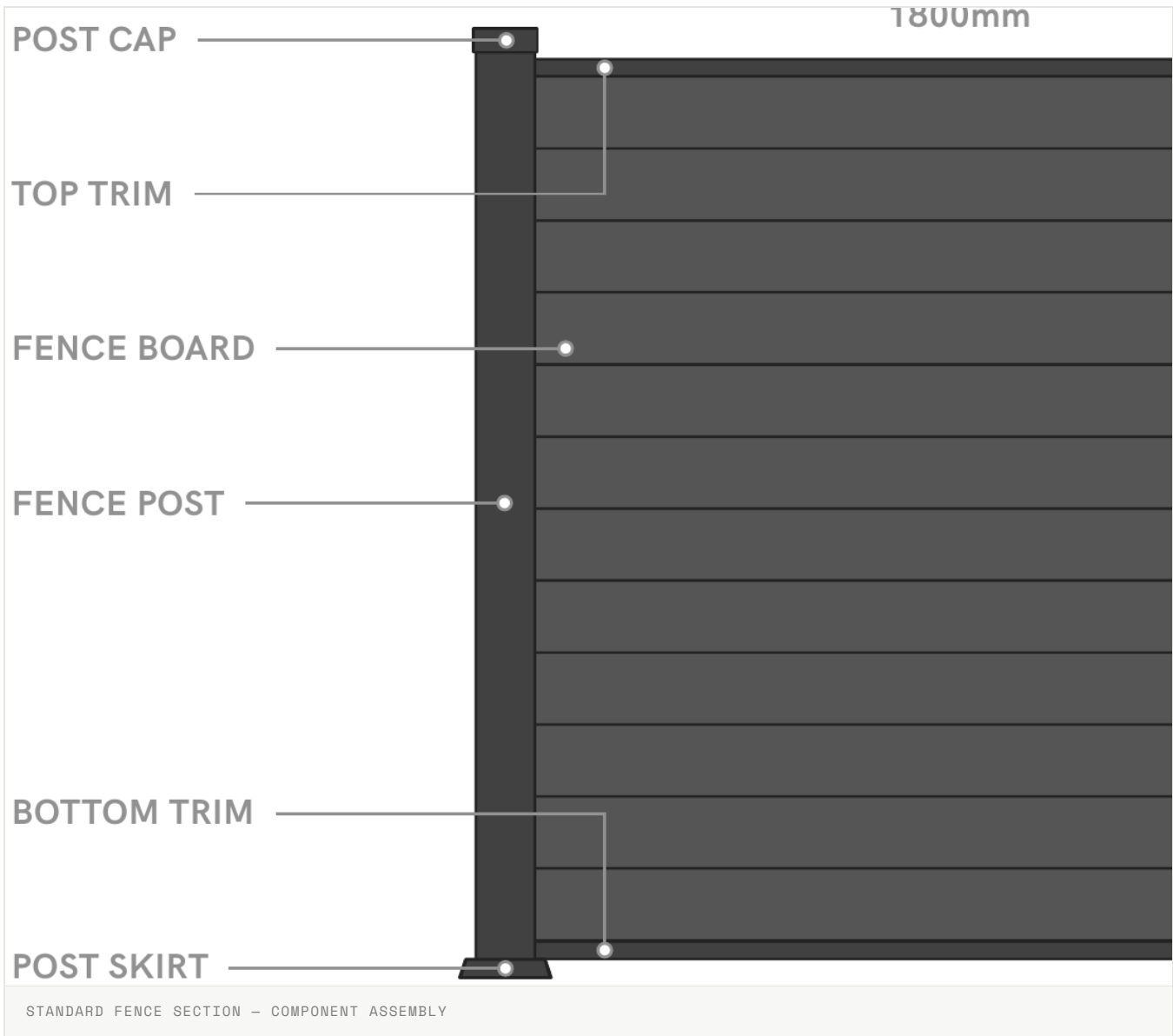
Diagonal trellis



Horizontal trellis

Component assembly

A standard fence section for a 1890 mm finished height uses 12 fence boards. Boards slide down the post grooves between the bottom and top trims, with a post cap on top and a post skirt at the base. A 1800 × 1890 mm section topped with a trellis uses 9 fence boards and 1 trellis.

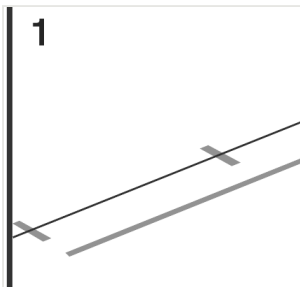


Option 1 — fixing into the ground

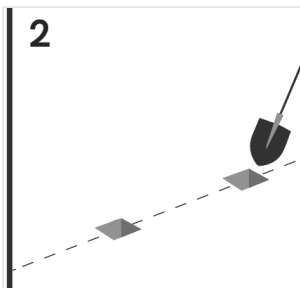
The foundation under the fencing area determines the post substructure. Option 1 fixes the posts into the ground with a concrete footing.



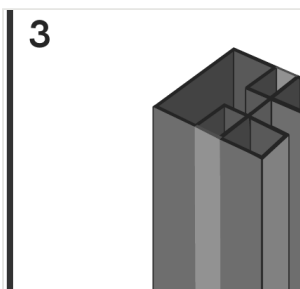
FIG. 1 – INSTALLATION OPTIONS – CONCRETE FOOTING (LEFT) AND PRE-PREPARED FOUNDATION (RIGHT)



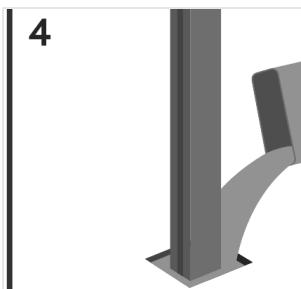
1 **Mark out.** Set the fence line with a string line, keeping the area clear of obstacles. Install the posts on your side of the boundary.



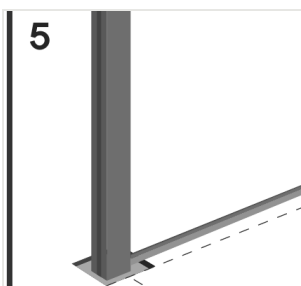
2 **Dig the post holes.** For most installations a hole 600–850 mm deep is appropriate, depending on site and ground conditions. Remove any rocks or roots.



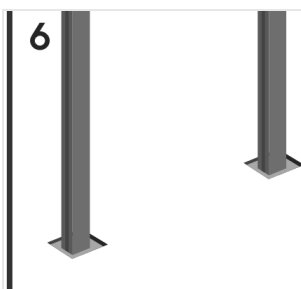
3 **Set the post.** For an 'L' or 'T' layout, remove the relevant post-slot closure. Place the post in the hole and check you have the required height above ground.



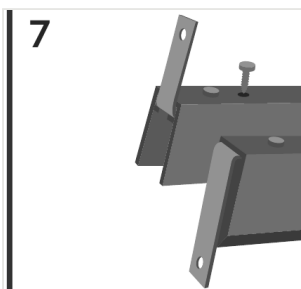
Concrete in. Fill the hole with a suitable cement-based product to suit ground conditions, to about 25 mm below ground level, angling the concrete away from the post for water run-off.



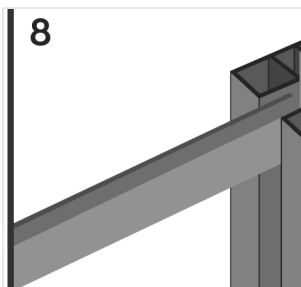
Space the next post. Measure centre-to-centre to the next post with a string line, and use the bottom trim to check fitment — keep concrete off the trim.



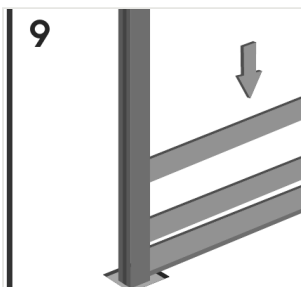
Repeat for all posts. Check the centre-to-centre distance at both top and bottom so they match.



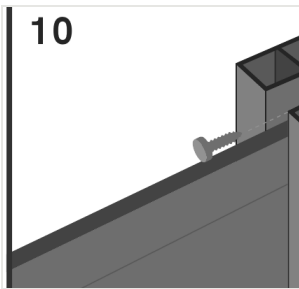
Fit the trim brackets. Fasten the bracket inside the top trim with the provided screws using a crosshead (Phillips) screwdriver; repeat for the bottom trim, aligning the holes.



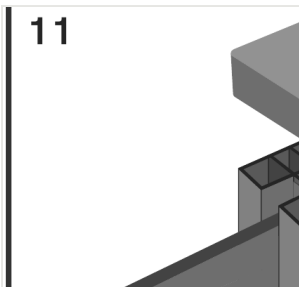
Fit the bottom trim. Insert the bottom trim into the post grooves, align both ends, level it, and secure it into the posts.



Slide in the boards. Slide the first board down the post grooves into the bottom trim, then each following board onto the previous one, up to your desired height (12 boards for a standard 1.80 m / 6 ft fence).



Secure the top trim. Fix the top trim to the posts with the provided screws.



Fit the post cap. Push the post cap onto the post.

INSTALLATION TOP TIP – SLOPING GROUND



Sloping ground. On a gradient or slope, mitre (cut) the boards to the required angle and length, keeping the tops straight and level. The fence boards can also be scribed into the ground if required.

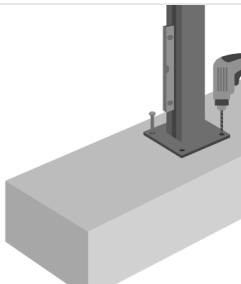
Option 2 — pre-prepared foundation

Option 2 fixes bolt-down posts to an existing wall or footing.



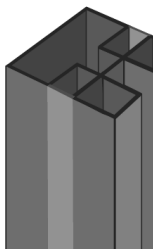
FIG. 2 - FINISHED FENCE WITH TRELLIS TOP

1



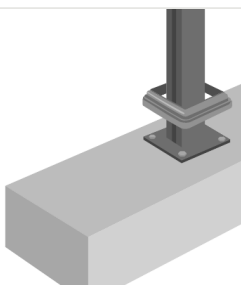
Check the foundation. Ensure the wall or footing is in good condition and sufficient for local ground, environment and weather conditions.

2

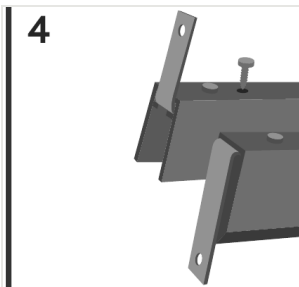


Position the bolt-down post. Place the post level and square, mark the hole positions through the base, and pre-drill with a 12 mm masonry bit. Posts can be cut to suit panel height.

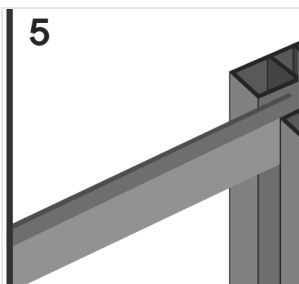
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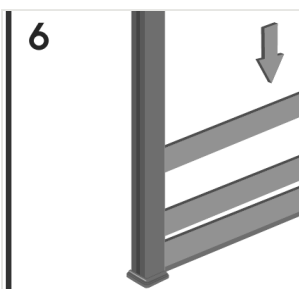
Secure the post. Ensure the post is plumb, pack to level if needed, and tighten all four bolts. For an 'L' or 'T' layout, remove the relevant post-slot closure.



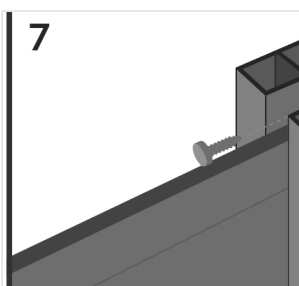
Fit the post skirt. Place the post skirt over the bolts and snap out the slot to suit your orientation.



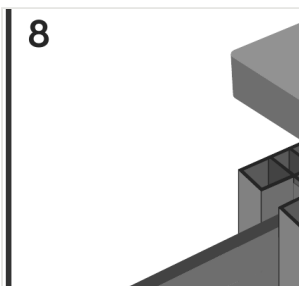
Fit the trim brackets. Fasten the bracket inside the top trim with the provided screws; repeat for the bottom trim, aligning the holes.



Fit the bottom trim. Insert the bottom trim into the post grooves, align both ends, level it, and secure it into the posts.



Slide in the boards. Slide the first board into the bottom trim, then each following board onto the previous one, to your desired height (12 boards for a standard 1.80 m / 6 ft fence). Secure the top trim to the posts.



Fit the post cap. Push the post cap onto the post.

Trellis installation

HORIZONTAL TRELLIS

- **Height.** The trellis height equals three fence boards (450 mm).
- **Fit.** Insert it into the post channels on top of your last fence board, then secure the top trim to the posts with the provided screws.

VERTICAL TRELLIS

- **Use.** A vertical trellis between two posts creates semi-private spaces within the fence.
- **Fit.** Cut the top and bottom trim to length and fasten the brackets. Insert and fix the bottom trim, slide the trellis into place, and secure with the top trim.



FIG. 3 – HORIZONTAL TRELLIS PANEL



FIG. 4 – DIAGONAL TRELLIS PANEL

Care & maintenance

COLOUR STABILISATION

All PuraFence™ products contain UV stabilisers, but because of their high natural content every composite landscaping product goes through an initial colour stabilisation. The HDPE capping gives increased protection against fading and weathering for a long service life.

COLOUR BANDING

Variation is designed into the shade spectrum through colour mixing, and some packs may be more predominant in one shade than the next — inspect each pack and mix for a natural blend. Orders bought at different times, or the same order split across projects installed at different times, will stabilise at different rates and show some variation.

MAINTENANCE

- **Clean regularly.** Clean the fencing every 3–6 months with warm soapy water and a soft-bristled brush.
- **Mildew & mould.** The boards resist mould and mildew; routine cleaning avoids excessive surface build-up.
- **Water stains.** Clean thoroughly with warm soapy water; a jet wash can help remove surface residue.
- **No painting.** PuraFence™ is fully capped and needs no painting or staining.

PuraComposite™

SUSTAINABLE SOLUTIONS

For technical datasheets, warranty terms, BIM/CAD files and sample requests, contact PuraComposite or visit puracomposite.com.

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