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Pergola Instructions

2700 x 2700 Kitset Kwila Pergola

SKU 5251

Tools Required:

- ☑ Drill/Driver
- ☑ Drive Bits – T25 and T30
- ☑ Level
- ☑ Square
- ☑ Tape Measure
- ☑ Rubber Mallet
- ☑ Ladder
- ☑ Fixings for post bases (Timber or Concrete)

And two people to assemble

Endless possibilities.
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bbi Wood Products DIY Pergola Installation Guide

STEP 1 — Install the Post Bases

1. Lay out your pergola footprint according to the drawing measurements.
2. Install the **Simpson Strong-Tie Concealed Post Bases** in the correct locations.
3. Follow the installation instructions provided in the Strong-Tie box.
4. Make sure the bases are:
   - perfectly **square**,
   - correctly **spaced**,
   - and aligned to the plan.
5. Fix the bases down using suitable fixings depending on your surface:
   - **Concrete** ➔ concrete screw bolts
   - **Timber deck** ➔ large timber screws into joists or blocking

Tip: Accuracy here will make standing the portals much easier.

STEP 2 — Build Each Portal (Two Posts + One Beam + Two End Pieces)

1. Lay two posts flat on the ground.
2. Position the beam across the top of the posts.
3. Make sure the **beam and the end pieces sit flush with the outside faces of the posts.**
4. Fix the **beam to each post** using:
   - **Two M6 x 80 mm ECKO washer-head screws**
   - Insert screws through the **pre-drilled holes inside the post,** into the beam.
5. Fix each End Piece (top corner) using:
   - One 10g x 75 mm ECKO screw
   - Through the pre-drilled hole in the top of the post and into the end piece
6. Repeat for the second portal.

Your portals are now complete and ready to be stood up.

STEP 3 — Stand the Portals and Secure Them

1. Lift each portal upright (two people recommended).
2. Drop the posts into the Strong-Tie Post Bases.
3. Insert the **supplied pins** through the base brackets to secure each post.
4. Use a level to check each portal is **plumb** (straight up and down).
5. Check the overall structure is **square** before continuing.

STEP 4 — Install the Rafters

1. Start with the **centre rafter first.**
2. Place the rafter into its pre-cut position.
3. Fix from the **top down** using:
   - **One 10g x 75 mm ECKO screw through the pre-drilled hole.**
4. Next, install the **two end rafters.**
5. If a rafter doesn't sit perfectly flush, you can use:
   - washers, or
   - small pieces of ice-cream container plastics hidden spacers to level it.
6. After each rafter, check:
   - **level,**
   - **plumb,**
   - **square,**
   - and alignment with the previous rafter.
7. Fit all remaining internal rafters until complete.

FINAL CHECKS

- All screws are tight
- Portals are plumb and square
- Rafters are straight and evenly spaced
- Post bases are fully pinned
- Structure is stable and rigid

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