



How to Build a Pergola

7

Check with your Local Authority if a permit is required.

The typical design illustrated and described here is one attached to the house fascia board (for further details on attaching pergolas to the fascia board or house wall see Pages 66-71).

Note: Although many pergolas are initially without roof cladding, at a later date many folk choose to clad the roof with metal, fibreglass, or acrylic sheet. Footings designed to anchor pergolas with roof cladding will generally be larger than those without, so it is advisable to design footings to receive roof claddings should the need arise.



Where to Begin

Step 1 Prepare a Plan

Prepare a layout plan and sectional view to establish lengths and quantities of materials (see 'Example Plan' Page 67).

EXAMPLE MATERIAL LIST

(Use also Page 7)

Footings:

Concrete 1 cubic metre

Timber:

Posts	90x90	FT treated H3	& Seasoned	2 @ 2.4
Beams	170x45	FT treated H3	& Seasoned	1 @ 3.6
Rafters	140x55	FT treated H3	& Seasoned	9 @ 3.0
Buttress	70x35	FT treated H3	& Seasoned	10 @ 4.2
Bracing	90x45	FT treated H3	& Seasoned	1 @ 1.8

Hardware:

Post Supports	24" high wood gal.
Round Head Bolt	12" 100mm 12mm gal (with nuts & washers)
Triple Grip	6" with 30x2.5mm gal. connector nails
Joint Hangers	6" with 30x2.5mm gal. connector nails

Step 2 Setting Out the Site

Mark on the fascia board the outside face of each end rafter.

From these points drop a plumb bob down to ground pegs and drive a nail indicating these points (see fig 2). Then, drive two further temporary pegs to indicate the two outer corners where the outside of the two end rafters will intersect with the beam (see fig 3). Square this area approx. at this stage.

Remember ends of rafters and beams can extend past these points as illustrated in fig 1.

To enable easier accurate squaring and positioning of the pergola posts, drive 90x35mm profile pegs about 600mm outside of the two corner pegs as in fig 3 with nails to indicate the outside faces of the posts.

Stretch string lines between these nails and square this area accurately by taking diagonal measurements between the line intersections, adjust the outer two nails together until both diagonal measurements correspond. On larger more complex pergolas construct profile handles as in fig 4, Page 69.

Re-position the original outer corner pegs to indicate the centre of each post footing. If the posts are set back from the outer face of the end rafters, adjust the centre of footing pegs accordingly.

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