

Box Pergola

BUILDING INSTRUCTIONS - MATERIALS - COSTS



This pergola is called the 'box' pergola because it is built with rows of solid nogs between the rafters forming rows of square or oblong boxes. This type of pergola is becoming increasingly popular and is relatively easy to build.

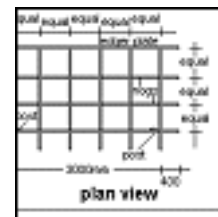
About the timber.

All the timber used in this project is treated mg (dressed) pine. The posts are h4 (treated for inground applications) and the rest of the structure is h3 (treated for outside use). All timbers that are used in this project are readily available at most timber merchants.

NOTE: If the posts are also used as the sole deck supports and are inground, Then h5 treated posts are required by most councils.

The Plans.

The plan view (birds eye view looking down), the front view plan and the side view plan.



The Posts, beams and rafters.

The bottoms of the posts are bolted to the deck joists or the deck boundary joist and also concreted into the ground. The ledger plate (also called stringer) is bolted to the house wall above the door, The top of the posts are checked out to accommodate the beam and the rafters are nailed in place between the ledger and the beam.



The Nogs and Decorative Rafter Ends.

The rows of solid nogs are placed and nailed between the rafters and the decorative ends are fixed in place.



Securing the top together.

The pergola roof structure is locked together by fixing nail plates on the top edges of the rafters, nogs and decorative ends.



The Finish.

All done. Eazy with a Z



Materials, quantities and cost

NOTE 1: Price does not include labour.

NOTE 2: Prices include GST. These prices are indicative only.

MATERIAL	AMOUNT
145x46 (ex 150x50) mg h3 rafters, nogs and decorative ends	30 metres
195x46 (ex 200x50) mg h3 beam	3.6 metres
95x95 (ex 100x100) mg h4	7.2 metres
1kg gal 90mm nails; 20 240x30 galvanised nail plates; 8 12mmx120mm galvanised coach bolts, 2 40kg bags concrete mix	