

HOW TO BUILD A PERGOLA

STEP BY STEP GUIDE
No. 2

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2

EASY TO FOLLOW STEP BY STEP GUIDE

COMPLETE MATERIALS CHECK LIST

LIST OF ALL TOOLS REQUIRED



REFER TO COUPON ON BACK PAGE FOR MORE INFORMATION REGARDING THIS AND OTHER BOWENS PROJECTS

MATERIALS CHECK LIST

- POSTS 90 x 90mm H4 Treated Pine or Cypress Gold D.A.R.
- BEAMS 190 x 45mm F7 Seasoned Treated Pine
- LEDGER BEAMS 140 x 45mm F7 Seasoned Treated Pine
- RAFTERS 140 x 45mm F7 Seasoned Treated Pine
- ROOFING BATTENS 90 x 45mm F7 Seasoned Treated Pine
- SHADE BATTENS 90 x 35mm F7 Seasoned Treated Pine
- POST BRACES 90 x 45mm F7 Seasoned Treated Pine
- GALV. POST SUPPORTS 150mm, 230mm or 300mm x ???mm
- GALV. COACH BOLTS 175mm x 10mm
- GALV. COACH SCREWS (Beam to wall) 125 x 10mm
- MASONRY EXPANSION BOLTS (Beam to wall) 100 x 10mm
- GALV. COACH SCREWS (Cleft to rafter) 150 x 8mm
- FRAMING BRACKETS (Rafter hangers)
- FRAMING ANCHORS (Rafter to beam)
- GALVANISED NAILS
- CEMENT OR CONCRETE MIX

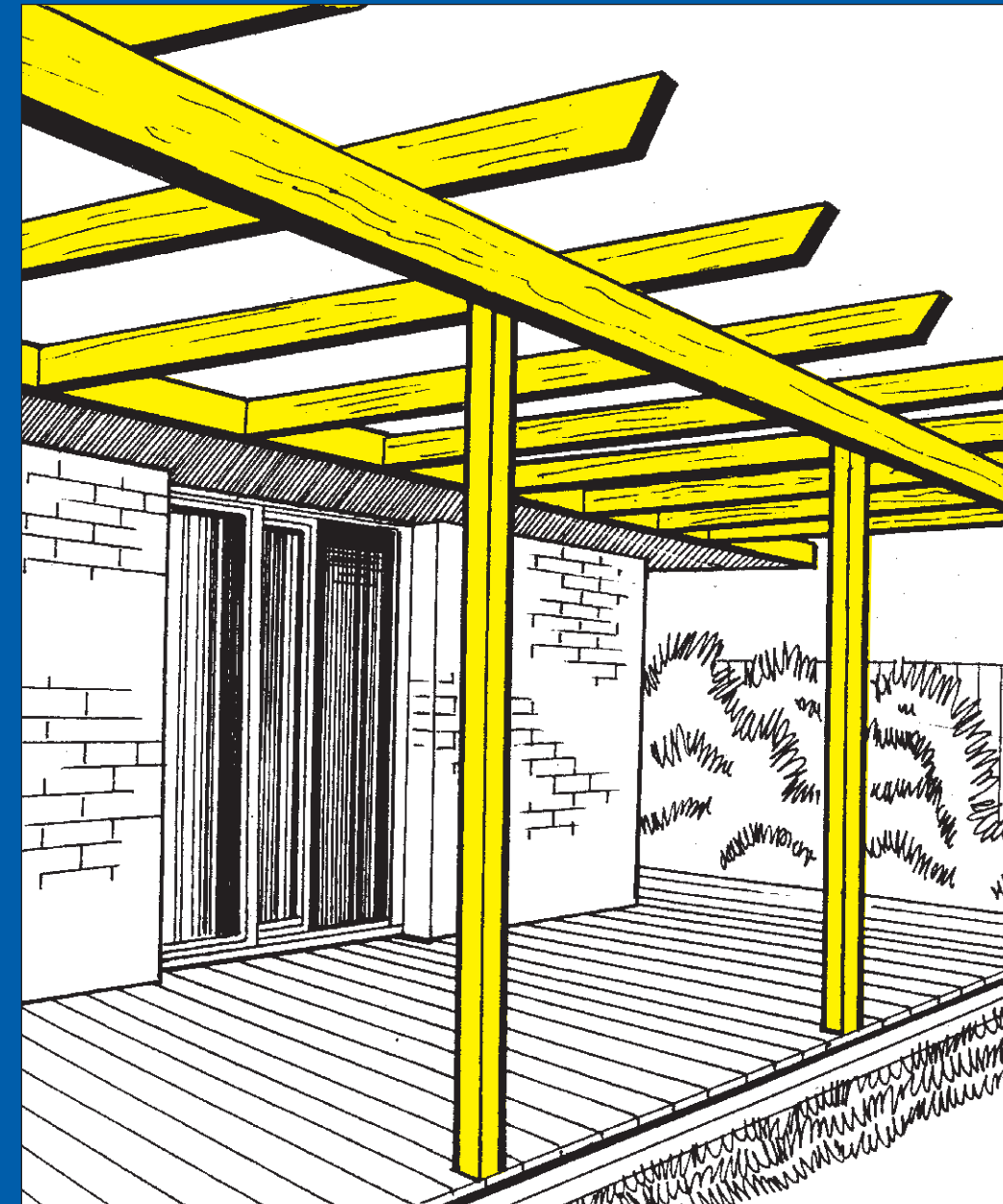
SIZES QUOTED TO BE USED AS A GUIDE ONLY

TOOLS REQUIRED

For most pergola projects you will need:

- Handsaw
- Circular saw
- Power drill and bits
- Wood chisel
- Tape measure
- Carpenters Pencil
- Nail punch
- Shovel
- Crow bar
- Hammer
- Spanner
- String line
- Spirit level
- Combination square
- Sandpaper
- Paintbrush

FOR SAFETY USE GOGGLES, GLOVES AND DUST MASK.



Bowens THE BUILDERS CHOICE

- | | | | | |
|--|--|---|---|--|
| Croydon
352 Dorset Rd
Ph 9723 0394 | Hastings
Graydens Rd
Ph 5979 1267 | North Melbourne
135-173 Macaulay Rd
Ph 9328 1041 | Rowville
963 Stud Rd
Ph 9763 7522 | Prefabrication Plants |
| Epping
13 Scanlon Drive
Ph 9408 6566 | Laverton
163 Cherry Lane
Ph 9353 7700 | Oakleigh South
717 Warrigal Rd
Ph 9579 1188 | Shepparton
7 Wheeler St
Ph 5822 2364 | Dandenong
267 Hammond Rd
Ph 9792 2888 |
| Hallam
48-50 Hallam Sth Rd
Ph 9796 3088 | Mt Evelyn
26 York Rd
Ph 9736 2588 | Phillip Island
83-85 Settlement Rd
Ph 5952 5633 | Taylors Lakes
45 Melton Hwy
Ph 9390 8899 | Hastings
Graydens Road
Ph 5979 2223 |
| | | | | Morwell
8 Jones Road
Ph 5135 6781 |

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CALL TOLL FREE
1 800 333 162
OR RETURN THIS COUPON TO:
BOWENS TIMBER AND BUILDING SUPPLIES
P.O. BOX 1377, VESPER DRIVE,
NARRE WARREN 3805

PLEASE SEND ME THE INFORMATION I HAVE MARKED HERE

② NAME:
ADDRESS:
POSTCODE: PHONE:

<input type="checkbox"/> 1 Timber Deck	<input type="checkbox"/> 8 Work Bench
<input type="checkbox"/> 2 Pergola	<input type="checkbox"/> 9 Timber Steps
<input type="checkbox"/> 3 Timber Fence	<input type="checkbox"/> 10 Timber Shelving
<input type="checkbox"/> 4 Feature Wall	<input type="checkbox"/> 11 Timber Gates
<input type="checkbox"/> 5 Carport	<input type="checkbox"/> 12 Handrail
<input type="checkbox"/> 6 Gazebo	<input type="checkbox"/> 13 Privacy Fence
<input type="checkbox"/> 7 Cubby House	<input type="checkbox"/> 14 Retaining Wall

IMPORTANT: This project sheet has been produced to give basic information and our helpful staff are available to answer any questions you may have. However, the use of this information is on the understanding that Bowens (including it's author, servants and owners) disclaim all and any liability for any damages or other amounts found to be recoverable in relation to such information, even when given negligently or attributable directly or consequentially upon any act or omission by or on behalf of Bowens. The user is advised to contract a qualified tradesman, when expert information or services are required.
WARNING: Always check with your council authority regarding by-laws or regulations which may be applicable to this project.

HELPING YOU BUILD IT BETTER! HELPING YOU BUILD IT BETTER!

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THE BUILDERS CHOICE

STEP BY STEP GUIDE TO BUILDING YOUR OWN PERGOLA

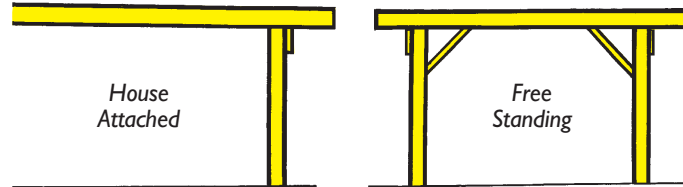
Add value to your home and extend your living area outdoors under a timber pergola. Great for relaxation and entertainment especially when combined with a timber deck or patio – add a translucent roof section for year-round comfort or fix sun-control battens that will provide shade in summer and let the sun through in winter.

LOCATION

When selecting a site for your pergola, determine its use such as family entertainment, relaxation or perhaps a barbeque area. Consider also access to the home, privacy and wind protection.

TYPE OR STYLE

There are two basic types of pergolas:



HOUSE ATTACHED – extended from wall or fascia cleat often built over timber deck or patio.

FREESTANDING – with posts set in ground this type can transform an unused garden space to a great outdoor living area.

Bowens can provide you with helpful advice on recommended timbers, sizes and spans.

Always check with your council regarding building permits & requirements. Do not order any materials until you are sure your plans meet these requirements.

PLAN BEFORE YOU START

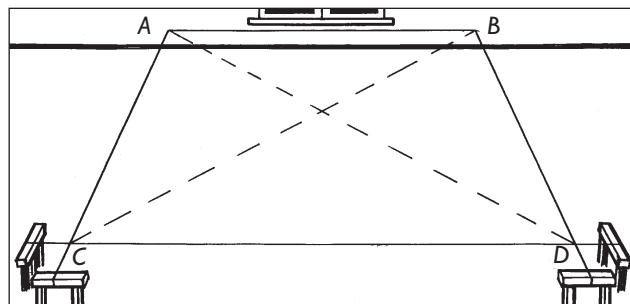
We recommend you read this step by step guide first so that you have a good understanding about the whole project.

Check also for underground cables, plumbing etc. Determine the type and size of your pergola and draw both a plan (view from top) and side elevation (side view), clearly showing timbers.

Once you have checked that with your council, calculate the sizes and lengths of timber you require using your plan and the “materials check list” on the back of this brochure and place your order with your nearest Bowens store.

PREPARE, MARK AND SET OUT

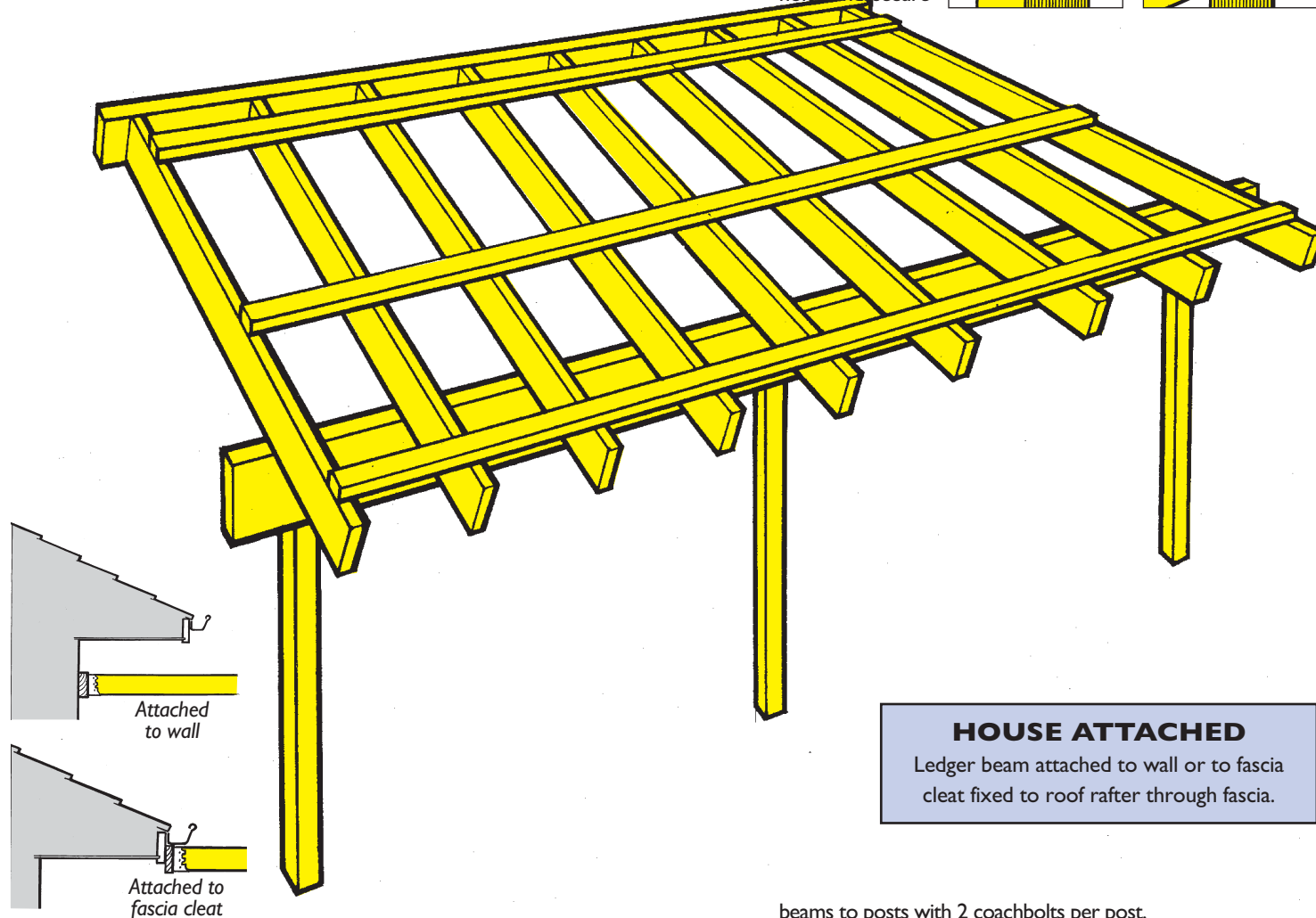
Remove unwanted materials and mark out correct positions on wall AB then build timber “hurdles” *2 on each post in approximately the right position, attach and measure stringlines AC - BD (width) and CD (length), all lines must be level. To ensure square



set out measure diagonals AD - CB they must be equal. You may need to adjust nails on hurdles a little until they are.

CHOOSE YOUR TIMBER

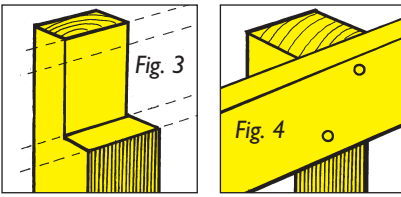
We recommend F7 Oregon or F7 seasoned Treated Pine for all timbers including posts, beams, fascia cleats, rafters, battens and braces. For “in ground” posts, use H4 Treated Pine.



concrete to set 3 days.

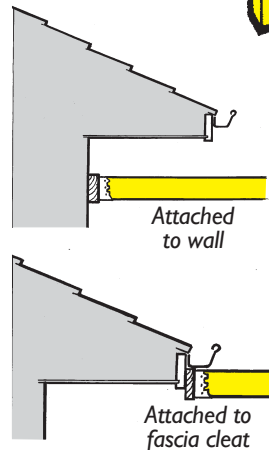
FIX BEAMS

Check out posts to depth of beams (Fig. 3) or fix beams directly to post (Fig. 4). Make sure beams are set level before you drill 10mm holes and secure



HOUSE ATTACHED

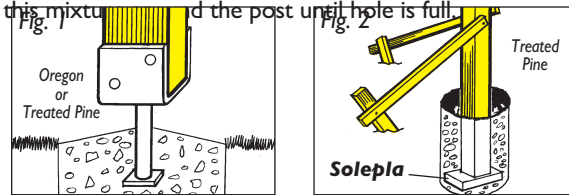
Ledger beam attached to wall or to fascia cleat fixed to roof rafter through fascia.



POSITION POSTS

For posts positioned on galvanised post supports, dig holes 350 x 350mm wide and 700mm deep and pour in mixed concrete, set post in centre (Fig. 1), check for correct position with stringline and finish with dome shape for water run off. Allow concrete to set 3 days.

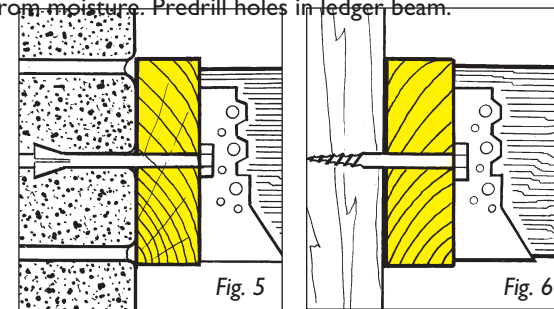
For attached pergolas you can also set post on soleplate at bottom of hole then mix 3 shovels of cement with dry earth and ram this mixture and the post until hole is full.



For FREE STANDING pergolas you need to dig holes 900mm deep, ram bottom solid and place post on top of sole plate (Fig. 2) positioned flush with stringline. Brace post and pour in concrete, 4 parts aggregate, 2 parts sand, 1 part cement (Fig. 2). Allow

ATTACH BEAM TO WALL

For house attached models secure a ledger beam to existing house wall. Attach to masonry wall using “Dynabolts” spaced 1 metre apart (Fig. 5). A strip of malthoid along back of ledger will help protect timber from moisture. Pre-drill holes in ledger beam.



Beam to masonry wall.

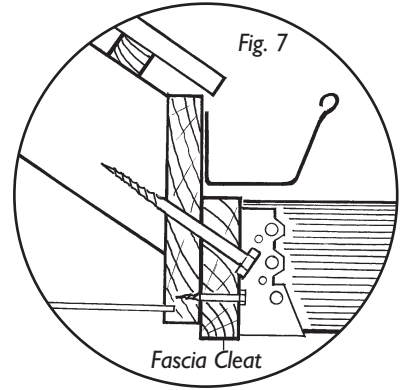
Beam to timber wall.

For timber walls attach ledger beam to every other

timber stud using coach screws (Fig. 6). Make sure these beams are level before you drill.

BEAM TO FASCIA (FASCIA CLEAT)

Do not attach joist hangers directly onto fascia board. First fix a 150 x 38mm fascia cleat under spouting using 150mm x 8mm coach bolts firmly fixing cleat through fascia to every other roof rafter (Fig. 7). You can then attach joist hangers to cleat using coach bolts (Fig. 7).



FIX RAFTERS

Cut rafters to correct length and saw ends square or cut to fantail or parrot beak shape (Fig. 8, 9). Space approximately 600mm apart and starting with two ends make sure rafters are square to beam. Use joist hangers to fix rafters to wall beam or fascia cleat (Fig. 10) and fasten to beams with framing brackets (Fig. 12).

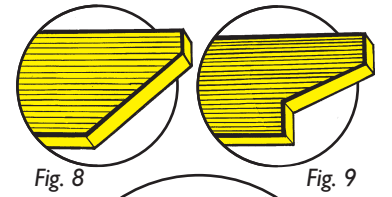


Fig. 8

Fig. 9

ROOFING BATTENS

If roofing your pergola, fix battens to rafters (Fig. 11) taking note of roofing manufacturers fixing details.

Select from Bowens great range of polycarbonate or fibreglass roofing and shademes.

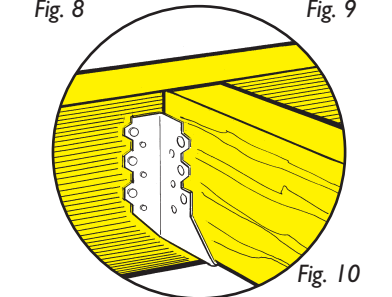


Fig. 10

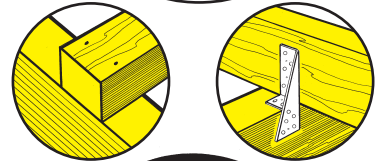


Fig. 11

Fig. 12

SHADE BATTENS

Timber shade battens can be fixed to screen out hot summer rays yet making the most of winter sun (Fig. 13). Pre-drill ends to avoid splitting.

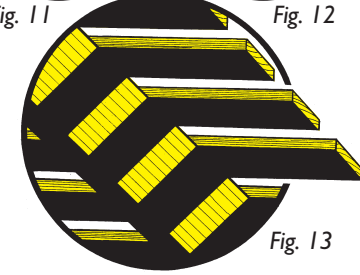


Fig. 13

FINISHING

Paint or stain your pergola before

FREESTANDING

A freestanding pergola can turn an unused garden spot into a

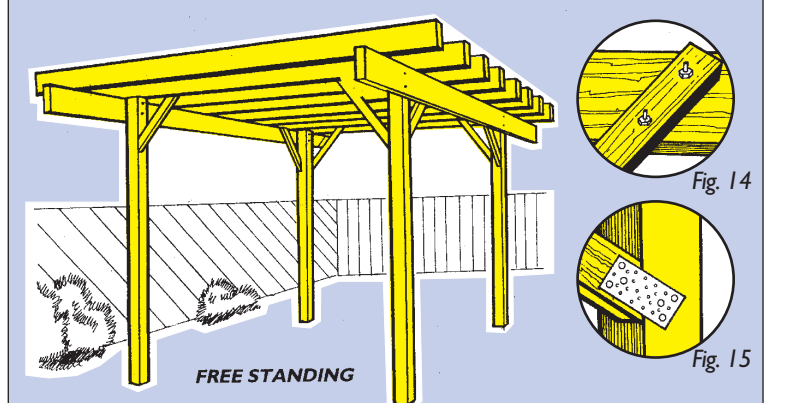


Fig. 14

Fig. 15

great outdoor living area. Free standing pergolas must have permanent bracings fixed to posts, rafters and beams for greater stability.

Fix with bolts (Fig. 14) or attach with nail plates (Fig. 15).