

HOW TO BUILD A HANDRAIL

STEP BY STEP GUIDE
No. **12**

HOW TO BUILD A HANDRAIL

12

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

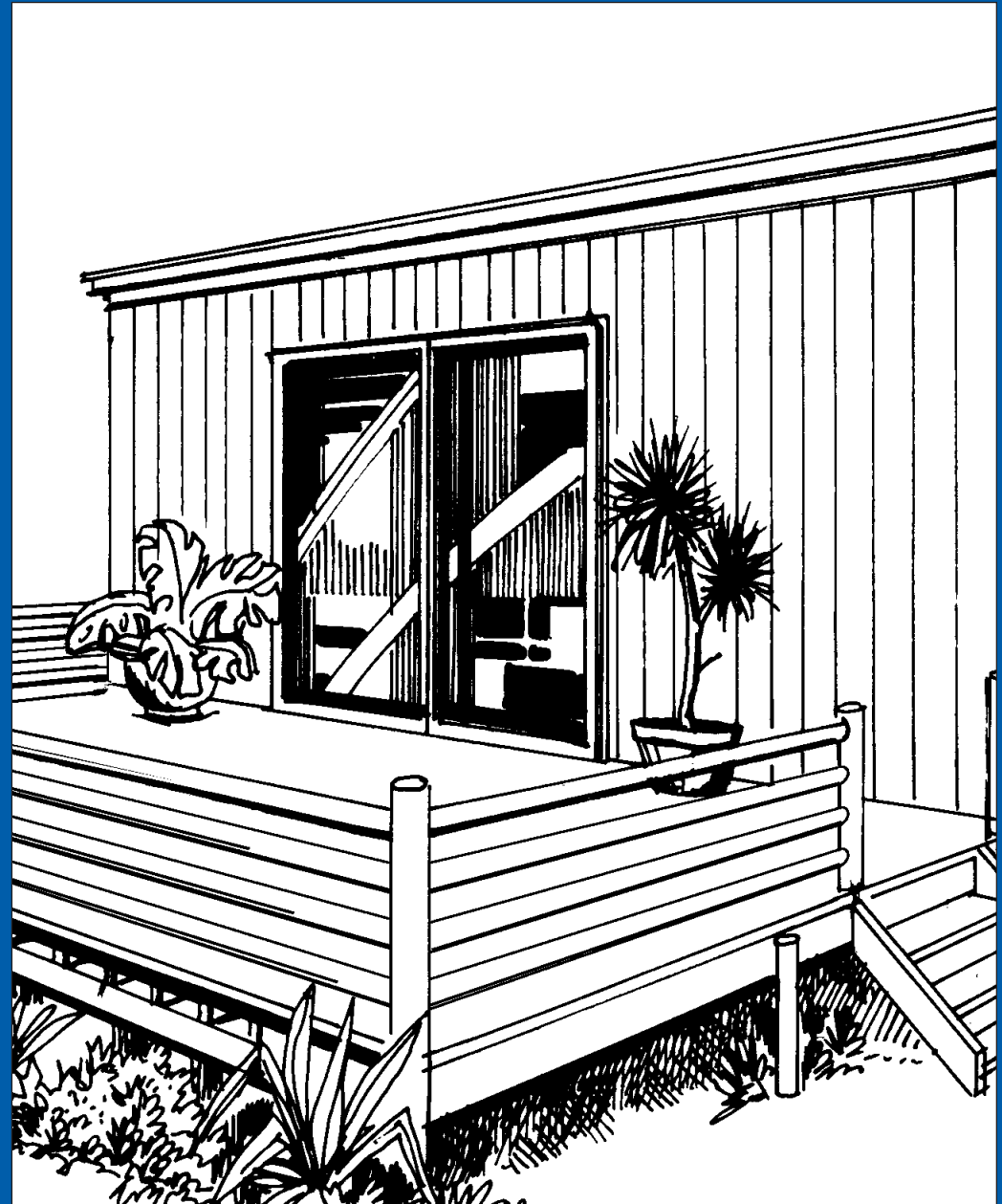
- Stumps 90 x 90 mm Seasoned treated pine
100 x 100 Cypress pine
- Posts 90 x 90 mm Seasoned treated pine
90 x 90 Cypress Gold
- Rails 140 x 35 mm Seasoned treated pine
- Balusters 70 x 35 mm Seasoned treated pine
70 x 20 mm Treated pine decking
- Top rails 70 x 20 mm Treated pine decking
- Lattice 2400 x 900 mm Treated pine
- Ant caps 150 x 150 mm (for stumps)
- Nails
Rails: 75 x 3.75 mm Galvanised bullet head
Balusters: 50 x 2.80 mm Galvanised bullet head

SIZES QUOTED TO BE USED AS A GUIDE ONLY

TOOLS REQUIRED

- Power or hand saw
- Hammer
- Carpenters square
- Power drill and bits
- Builders level
- Measuring tape
- Wood chisel
- Shovel
- Carpenters pencil
- String line
- Paintbrush
- Sandpaper

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 |

Proprietor: BOWEN & POMEROY Pty Ltd ABN 78 004 174 887 Reg. Office: 48-50 Hallam South Road, HALLAM 3803
www.bowens.com.au feedback@bowens.com.au

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

12 NAME:
 ADDRESS:
 POSTCODE: PHONE:

PLEASE SEND ME THE INFORMATION I HAVE MARKED HERE

<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

Bowens THE BUILDERS CHOICE

HELPING YOU BUILD IT BETTER!

HELPING YOU BUILD IT BETTER!

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 its 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 contact 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.

HOW TO BUILD A HANDRAIL

USING THESE EASY TO UNDERSTAND BOWENS PROJECT INSTRUCTIONS

PRACTICAL & DECORATIVE HANDRAILS

If you are building a deck, a patio or verandah, or renovating an old home, the finishing touch is usually a handrail to set the entire job off.

This guide demonstrate a number of alternatives, all built with attractive, durable Perma-Log treated pine. Some demand more carpentry skills than others, but all would add that professional touch to your project.

Call at your nearest Bowen's store for help and advice, or, alternatively, if you don't feel confident of building the handrail you want, we will be happy to recommend a competent tradesmen to do the job for you.

TREAT ALL CUT ENDS WITH RE-SEAL OR SIMILAR SEALER

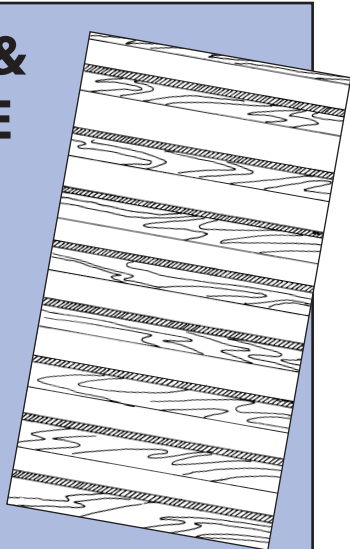
Planning

As with all such projects a little time spent planning your course of action will pay dividends.

For example, if you are finishing off a deck you have built with a handrail, you should already have extended the support posts around the perimeter of the deck high enough above floor level to accommodate the handrail.

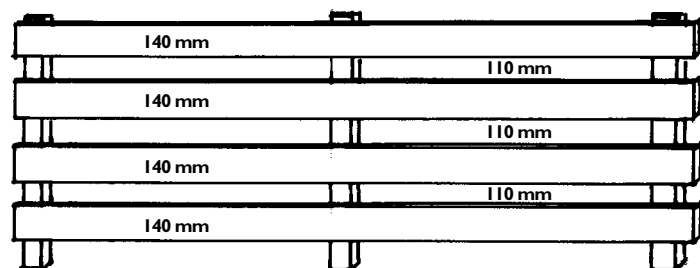
Bowens recommend that you contact your local council authority before you commence your project.

Decks over 600 mm from ground level require a one metre high handrail with maximum spacing of 150 mm between rails or balusters.



If you are installing a handrail around a pool deck, it may be considered part of a fence, and would therefore need to comply with pool fence legislation. If this is the case, the only one of this series of handrails which could comply would be type 'B', the Baluster Handrail.

Handrail posts would normally extend 1m above floor level, but if they were part of a pool fence, they would have to be 1.2 m high.



A. Boarded Handrail

The simplest of all the handrails

MATERIALS.

Perma-Log treated pine.

POSTS: Either 90 x 90 dressed posts or round log posts (pool deck). (Existing verandah posts could also be used). Set posts 600 mm in ground. For details of setting stumps and posts see Bowens "How to Build a Timber Deck" brochure.

RAILS: Typically 140 x 35 dressed.

- 1) Fix the top rail to the posts at one metre from deck level – check with your builders level to ensure that the rail is at an even height along its length. Pool fence should be 1200 mm.
- 2) Similarly fix the bottom rail to the posts at a convenient distance from the floor (say 110mm) again checking to make sure that the rail is level.
- 3) Fix the two other rails between top and bottom rails spaced 110 mm apart.
- 4) A capping rail can be fixed to the top of the posts if desired. It is a good idea to stagger the joins in the rails: i.e. join the top and bottom rails on one post, and the centre rail (and capping rail) on another.

Remember to use hot-dipped galvanised nails and bolts whenever you are working with treated pine.

B. Baluster Handrail

Another simple handrail system which can also be adapted to form a pool fence (1200 mm high)

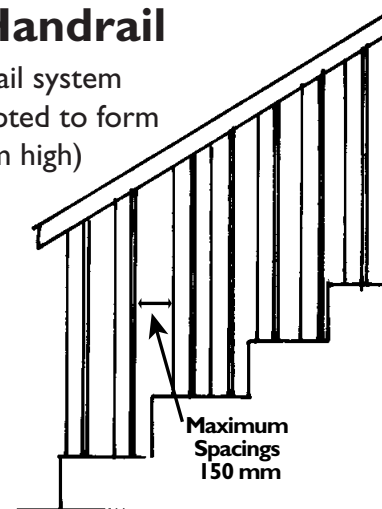
MATERIALS.

Perma-Log treated dressed pine.

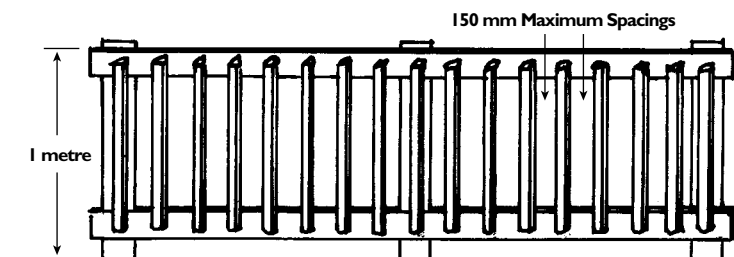
POSTS: 90 x 90 mm (round log posts are also suitable if desired).

RAILS: 140 x 35 mm.

BALUSTERS: 70 x 35 mm.



- 1) Fix 2 rails to the top and bottom posts. (If this handrail forms part of a pool fence, make sure that the rails are at least 900mm apart).
- 2) Cut a 45 degree bevel on each end of the balusters and fix to the rails at maximum 150mm spacing (maximum 100mm spacing if used for a pool fence). Both Boarded and Baluster Handrails are easily adapted to fit steps, simply by fixing the rails to follow the angle of the step stringers.

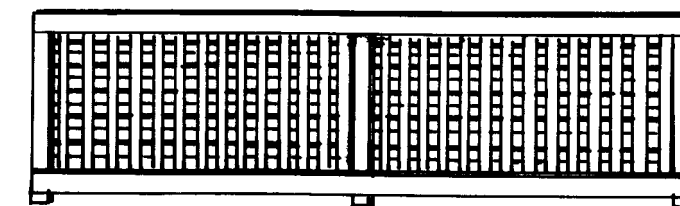


C. Lattice Handrail

Lattice is very difficult to make up without the proper equipment, so it is best to purchase made to order panels from your Perma-Log stockist.

All that is required is to drill a couple of small holes in the bottom section of framing to allow any water to drain out; then fix the framing to the posts.

Allow a gap of at least 100 mm between the bottom of the lattice framing and the floor.



Perma-Log TM range of treated products are produced from a renewable resource... Plantation Pine, grown in well managed forests on a sustainable yield basis. The preservative treatment provides long-term protection against termite and fungal attack. Treated Pine is treated for specific applications as indicated in table below ...

The 'H' level	The Use	The Hazard
H1	flooring, moulding, furniture, framing, lining,	BORERS (inside use)
H2	flooring, framing	BORERS TERMITES (inside use)
H3	cladding, fence rails, outdoor furniture, pailings, decking, external joinery	BORERS TERMITES MODERATE DECAY (outside above ground)
H4	stakes, posts, marker pegs landscaping materials pergola frames in ground retaining walls	BORERS TERMITES HIGH DECAY (outside in/on the ground, non-critical end use, low replacement cost)
H5	poles, building foundations, land piles, plywood foundations	BORERS TERMITES HIGH DECAY (outside in/on the ground, non-critical end use, high replacement cost)
H6	marine piles, oysters stakes, fresh water piles, cooling tower fill	MARINE BORERS VERY HIGH DECAY (in contact with water)

WARNING

AUSTRALIAN PLANTATION PINE PRESSURE TREATED WITH COPPER CHROME ARSENATE (CCA)

Risk: Exposure to the dust from this product is irritating to the eyes, skin and respiratory system. May cause sensitisation by inhalation (asthma) and skin contact (allergic dermatitis)

Repeated inhalation of the dust may cause cancer.

Safety: Avoid repeated or prolonged contact with skin. Avoid contact with eyes.

Avoid breathing dust. Work areas should be kept clean.

Sawing, sanding and routing equipment should be fitted with dust extractors such that dust levels are kept low as practicable and at least below standards laid down by Worksafe Australia for wood dust, copper, chrome and arsenic. Clean up by vacuum cleaning (not by sweeping or compressed air).

Wear suitable protective clothing including eye (AS/NZS 1337) and respiratory (AS 2161) and protective clothing (AS 3765.1) when handling freshly treated timber or machining treated timber.

Wash hands thoroughly with mild soap and water after handling treated timber. Wash work clothes regularly and separately from other clothes.

First Aid: Irrigate eyes with plenty of water.

Wash skin with soap and water.

Disposal: Follow above safety instructions, and note that disposal of CCA treated timber and its dust and shavings should be by burial. Collect in containers for disposal as trade waste in accordance with local authority guidelines. DO NOT BURN IT.

Fire: Wood dust can form an explosive mixture in air.

Earth all exhaust equipment and prevent high dust concentrations in confined spaces.

Additional information is listed in the Safety Data Sheet for this product. CSR Softwoods (ACN 007 541 460) Level 6, 9 Help Street, Chatswood, NSW 2067. Ph: 02 372 5777

Perma-Log™ is a Trademark of the CSR Group



"Bowens acknowledge that all information herewith is proudly supplied by and remains the property of CSR Softwoods".