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PORTA HANDRAIL SYSTEM

The Versatile Timber Handrail System

Versatile,
attractive &
durable

Ideal for internal
& external
applications



The Porta Handrail System provides the perfect balance of safety and style. The versatile system features a contemporary solid round timber dowel handrail and stylish high grade stainless steel fittings.

Fast and flexible to install, the Porta Handrail System is the ideal on-site handrail solution to meet residential and commercial handrail applications.

KEY FEATURES

- Easy and quick to fit and assemble on-site.
- Suitable for internal or external applications
- System complies with Australian National Construction Code
- Range of 316 grade stainless steel fittings in a satin finish



Porta Handrail System is simple to install.

The range of components allow for a broad range of applications; both internal and in external uses.

- Before commencing to install the handrail system, check that there is sufficient handrail, components, adhesive and fasteners.

HANDRAIL & BRACKETS

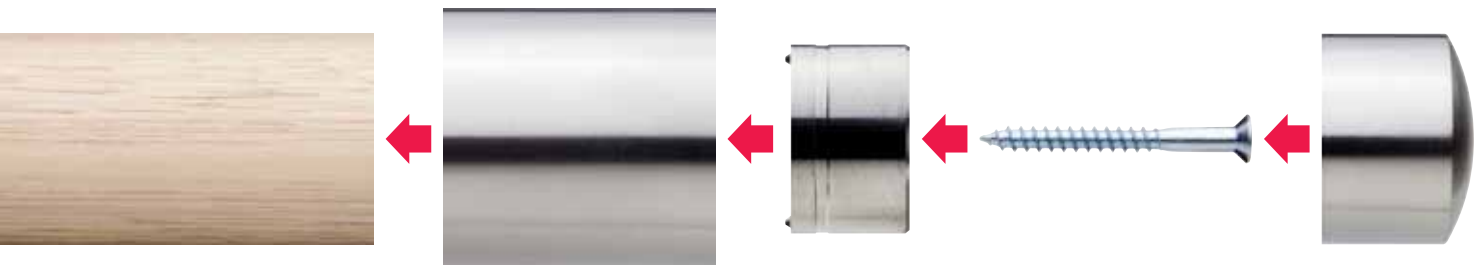
- Measure the desired height of handrail, measure down 110mm to line up the bottom of the brackets. Mark the wall or use a laser level. Locate the brackets at a maximum of 900mm spacing.
- The brackets must be securely fixed to the wall. Fixings should be selected so the installed handrail can resist at least a 60kg load. Preferably fix into a timber wall frame, directly into brickwork or onto a separate rail securely fixed to the wall. Use a Pan Head 12g x 50mm screw to fix through 10mm plasterboard and into a timber frame. If fixing directly into the wall lining, ensure fixing plugs are appropriate for the application and securely fixed.
- Rest the handrail onto the brackets and mark the desired length. Cut the handrail to length (protect the cut line with masking tape and cut using an 80-100 tooth saw). Sand the cut edge forming a slight bevel with fine sand paper (220 grit).

CONNECTING FITTINGS - Refer to diagram below

- Locate the Alignment Jig onto the end of handrail, position the Connector inside the Jig and drill a 3.0mm diameter pilot hole. Use a 10 gauge x 50mm Countersunk screw to fix the Connector to the handrail.
- Use a high strength slow cure retained compound adhesive (Loctite® 680™ or equivalent high strength retaining compound) to adhere the components to the connectors (adhesive not provided). Make final alignment adjustments and allow to cure.

FINISHING

- Use masking tape to protect fittings and apply a coating finish.



Use Porta DOW43
43mm dowel
handrail

Insert Porta HDRJIG over
the dowel, ensuring it is
fully inserted against the
end of the dowel. Take care
not to mark the handrail.

Insert the connector
(supplied with the
fitting), pushing
firmly, to engage
the teeth.

Pre-drill 3.0mm.
Use a 10G x 50mm
screw and fix firmly
into place.

Using Loctite® 680™
or equivalent high
strength retaining
compound. Lightly
coat the connector
& inside fitting, and
press into place
until cured.

HANDRAIL			
DESCRIPTION	PART NUMBER	SIZE	LENGTH
Handrail 43mm Tasmanian Oak* Select Grade *Alternative lengths & timber species available on request	DOW43TOSL36	42.4mm diameter	3.6m
FITTINGS			
DESCRIPTION	PART NUMBER	SIZE	PACK QTY
Bend - 90° *	HDRBEND6531643	87 x 87mm	1
Terminating Bend 90°*	HDRTERM6531643	87 x 87mm	1
Adjustable Bend 0°- 70°*	HDRADJ10031643	100mm	2
Joiner*	HDRJOIN5031643	50mm	2
End Cap*	HDRCAP3031643	30mm	4
Wall Bracket	HDRBRAC7031643	75mm wall to centre line of handrail. 70mm diameter escutcheon.	5
Connector	2 Connectors are supplied for each Bend, Adjustable Bend or Joiner. 1 Connector supplied for each Terminating Bend & End Cap.		
Alignment Jig	HDRJIG31643		1

*Screws are not supplied with fittings. All fittings suit 43mm Dowel Handrail.

OTHER RECOMMENDED PARTS - Supplied by others

Connector Adhesive	Loctite® 680™ or equivalent high strength retaining compound
Screws for Connector	Countersunk Head 10g x 50mm
Screws for Handrail Bracket	Pan Head 10g x 25mm
Screws to fix Wall Bracket when fixing into a timber frame*	Pan Head 12g x 50mm

*Use appropriate fixing to suit the application. Always use pre-drilled pilot holes when fixing screws.

How to specify the Porta Handrail System

Handrail and fittings shall be Porta brand by Porta, telephone 1300 650 787.

Handrails and fittings shall use the Porta Handrail System comprising Porta 43mm PEFC™ certified Tasmanian Oak timber dowel, finished in a suitable timber coating (if applicable).

Porta Handrail System commercial grade satin-finish 316 stainless steel fittings and compliant to Residential (NCC Vol 2: Class 1 & 10) and Commercial (NCC Vol 1: Class 2 and NCC Class 3/9a Aged Care Facilities) requirements. Materials listed to be supplied to specified areas, or otherwise quantified.

Installation shall comply with relevant building codes using approved fixing and the work executed by competent tradespersons.

All materials delivered to site shall be stored in an enclosed area, provided with protection from damage and exposure to the elements.

Damaged or deteriorated material shall be immediately removed from site.

Upon completion of the installation, check that all fittings and handrail are securely fastened. Finish with a suitable coating (if applicable).

Loctite® and 680™ are trademarks of the Henkel Corporation





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Issue: April 2018