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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. The bracket can also be used with flat based handrails.

KEY FEATURES

- Easy and quick to fit and assemble on-site.
- Suitable for internal or external applications.
- For use in commercial and residential applications including aged care. Complies with Australian Standard 1428.1.
- Range of 316 grade stainless steel fittings in a satin finish and 304 stainless steel in a matte black satin.



Porta Handrail System is simple to install.

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

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

HANDRAIL & BRACKETS

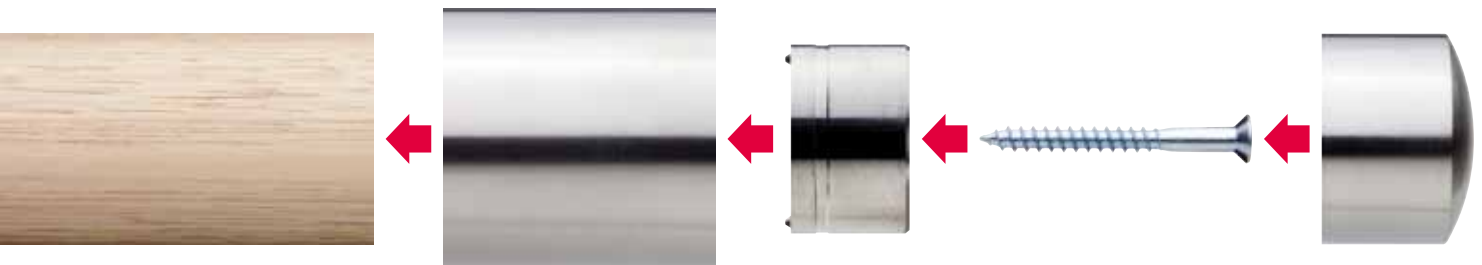
- Measure the desired height of handrail, then measure down 110mm to line up the bottom of the brackets. Mark the wall or use a laser level. Locate the brackets at a maximum of 900mm spacing.
- The brackets must be securely fixed to the wall. Fixings should be selected so the installed handrail can resist 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 the 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. Make final alignment adjustments and allow to cure.
- Rest handrail on brackets and fix with countersunk head screw.

FINISHING

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



Use Porta Round 43mm dowel handrail

Insert Porta Alignment Jig 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.















ROUND HANDRAIL

DESCRIPTION	PART NUMBER	SIZE	LENGTH	
Porta Round 43mm Handrail <i>*Alternative timber species available on request</i>	DOW43TOSL	43mm	1.2, 1.8, 2.4, 3.0, 3.6, 4.2, 4.8m	

FLAT BASED HANDRAIL *(Note these profiles suit use with the wall bracket only)*


DESCRIPTION	PART NUMBER	SIZE	LENGTH	
Porta Oval Profile	HRS7031	70x31mm	1.2, 3.0m	
Porta Rectangular Profile	HRS7029	70x29mm	1.2, 3.0m	
Porta Half Round Profile	HRS4433	44x33mm	1.2, 3.0m	

FITTINGS

DESCRIPTION	PART NUMBER	SIZE	PACK QTY	
Bend - 90°*	HDRBEND6531643	87x87mm	1	
	HDRBEND65304BLK	87x87mm	1	
Adjustable Bend 0° - 70°*	HDRADJ10031643	100mm	1	
	HDRADJ100304BLK	100mm	1	
Joiner*	HDRJOIN5031643	50mm	1	
	HDRJOIN50304BLK	50mm	1	
End Cap*	HDRCAP3031643	30mm	1	
	HDRCAP30304BLK	30mm	1	
Wall Bracket <i>Wall bracket is universal and suits Porta round 43mm and flatbased handrails handrail profiles</i>	HDRBRAC7031643	75mm wall to centre line of handrail. 70mm diameter escutcheon.	1	
	HDRBRAC70304BLK		1	
Terminating Bend 90°* <i>Only available in Satin Finish</i>	HDRTERM6531643	87 x 87mm	1	
Alignment Jig	HDRJIG31643		1	

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

INFORMATION

Connector	2 Connectors are supplied for each Bend, Adjustable Bend or Joiner. 1 Connector supplied for each Terminating Bend & End Cap.	
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OTHER RECOMMENDED PARTS - Supplied by others

Connector Adhesive	Loctite 680, Selleys Power Grip or equivalent high strength retaining compound
Screws for Connector	Countersunk Head 10g x 50mm
Suitable Wall Fixing	



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Issue: February 2020