

PORTLAND Collection

RALING INSTALLATION GUIDE

PORTLAND RAIL COMPONENTS

Available in Soft Grey, Anthrazit & Fired Earth.

		Curved Top Rail
CURVED HANDRAIL Curved Profile 100 x 50 x 1800mm	121	Spigot Spindle Post Cap
RECTANGULAR BASERAIL / HANDRAIL Square Profile 90 x 45 x 1800mm Can also be used as contemporary handrail.		Leave 3mm expansion gap top and bottom on both sides or use spacers Post Flange Post Flange Bottom Rail Post Bracket Baserail Support (cut spindle)
SPINDLE Including Spigot & Screws 50 x 50 x 900mm		
HANDRAIL / BASERAIL BRACKET 10 Per Pack Secures rails to posts.		
SQUARE POST CAP		
POST 120 x 120 x 1200/2400mm		These 2 supports are vital to give support to each section of rail and must be in place as shown.
POST FLANGE Hides Post Bracket		NEW CURVED HANDRAIL Spacers supplied free of charge with handrail
POST SUPPORT BRACKET Must be fixed to substructure (Screws for fixing to sub-construction not included)		NEW SQUARE HANDRAIL / BASERAIL Spacers supplied free of charge with handrail Allows for natural expansion & contraction

Note: Portland hand rail is only suitable for installation to a maximum of 600mm above ground level.

POST & RAILINGS INSTALLATION

NOTE: IT IS IMPORTANT THAT COMPOSITE MATERIAL IS PRE-DRILLED PRIOR TO FIXING SCREWS INTO IT.

Step 1

As the diagram 2.1 below shows, firstly use expansion bolts to fix the Post Bracket in the right position of measured posts on the concrete ground or in case of timber joists, use coach screws suitable for outdoor use.

THE POST BRACKET SHOULD BE FIXED TO THE SUB-CONSTRUCTION, NOT THE DECKING.

We recommend that the spacing between two posts should be not more than 1800mm; this distance is based on the specific spacing between the spindles.

The standard spacing between spindles is 100mm. Insert the posts into the Post Bracket, then using fixing screws, fix the posts through the holes of the angle iron on the Post Bracket.



Step 3

125 45

After fixing the posts, insert the post flange to the bottom of the posts; then mark the position for the top and bottom handrail on all posts. Fix the handrail bracket on the marked position on the post, just as diagram 2.2 below shows. Its important to leave 3mm expansion or use spacers where rail meets the post. We recommend that the spacing between two posts should not be more than 1800mm.

As diagram 2.3 below shows: fix the spindle spigot on both the

top and bottom handrail - the fixing spacing is based on the

standard spindle spacing of 100mm. Install and fix the top and

bottom handrail to the handrail bracket - base rail spacers should

be interested between post and rail to allow for natural expansion

Step 4

Please install a minimum of 2 pieces of spindles below the bottom baserail as seen in the installation of spindles in diagram 2.4. These pieces must be spaced evenly to support the overall handrail section and avoid warping. This is very important.





Step 5

Install the post cap on top of the posts. This is to prevent water accumulating within. Now you are finished the installation of the post and handrail system. Please consult the finished drawing of post and handrail system as shown in diagram 2.5 below.



DIAGRAM 2.1





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