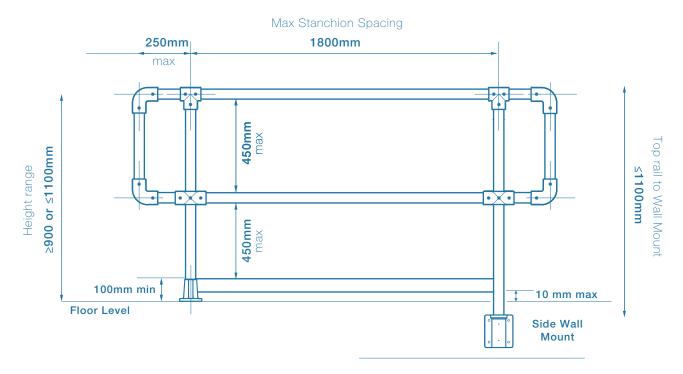


MODULAR HANDRAIL PRODUCT GUIDE

GRP AUSTRALIA

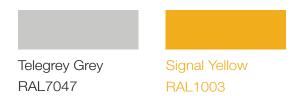
The FRP modular handrail system uses round tube (RT50x5) made from premium vinyl ester resin which forms the top rail, knee rail and stanchions. The rails and stanchions are connected using BMC composite fittings which are fire retardant, non-corrsoive and contain UV inhibitors. The fittings are clamped together with stainless steel fasteners provided by GRP Australia. The standard stock colours are yellow RAL 1003 & light grey RAL 7047.

The modular handrail system has been designed and laboratory tested to be compliant with the requirements of AS 1657-2018. The minimum design requirements for FRP Modular Handrail have been set out in the diagram below. Please refer to the GRP Australia Modular Handrail Installation Guide for fabrication proceedures and requirements.



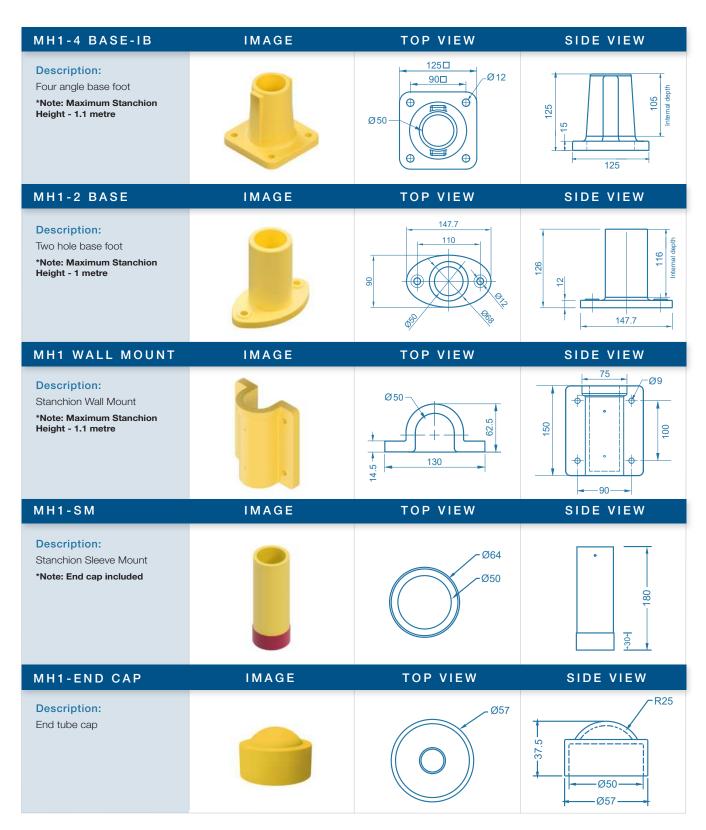
Standard Colours

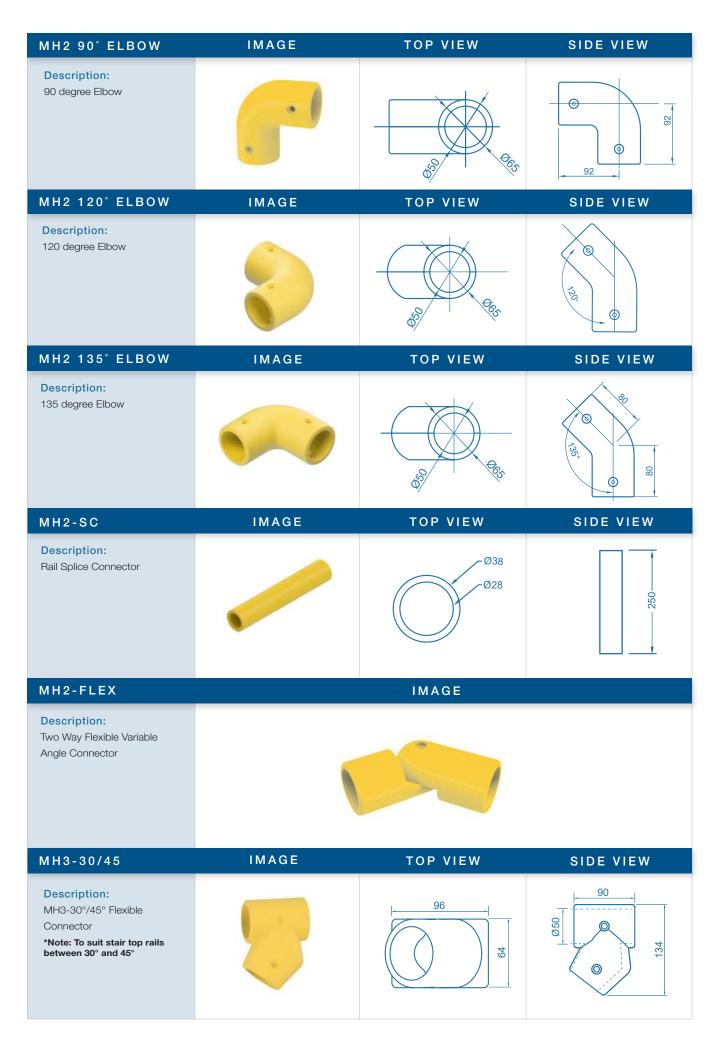
GRP Australia offers two standard colours for modular handrail.

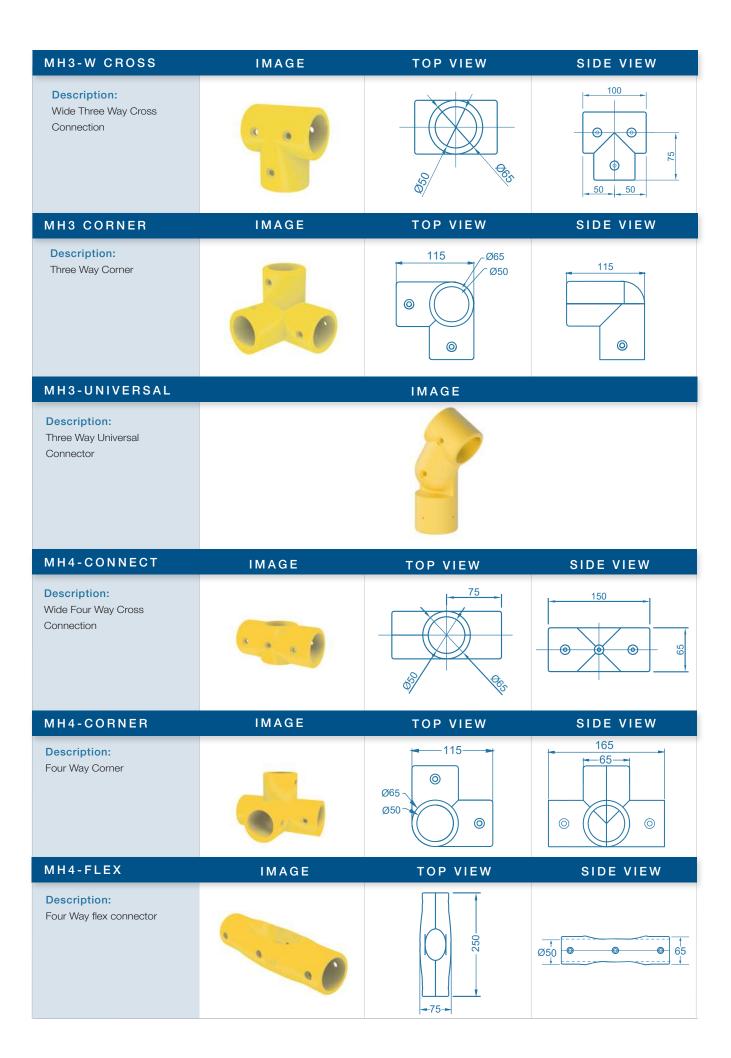


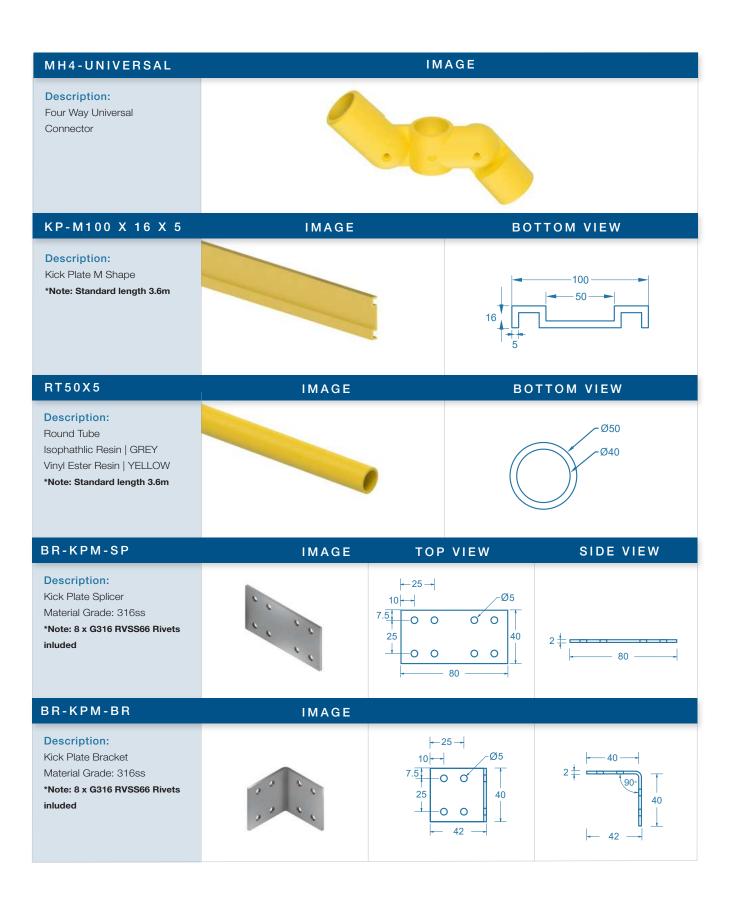


Handrail components shown in the table below are supplied with all fasteners except for stanchion mount anchor bolts. Note: STEP files of all components can be downloaded from www.grpaustralia.com.au.









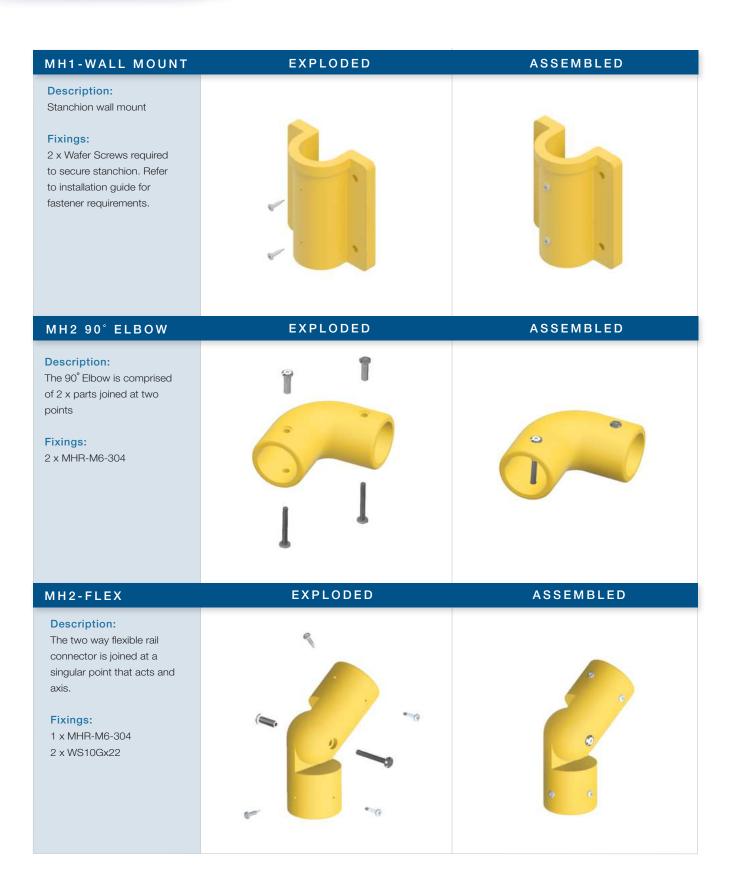
Fixing Componentry

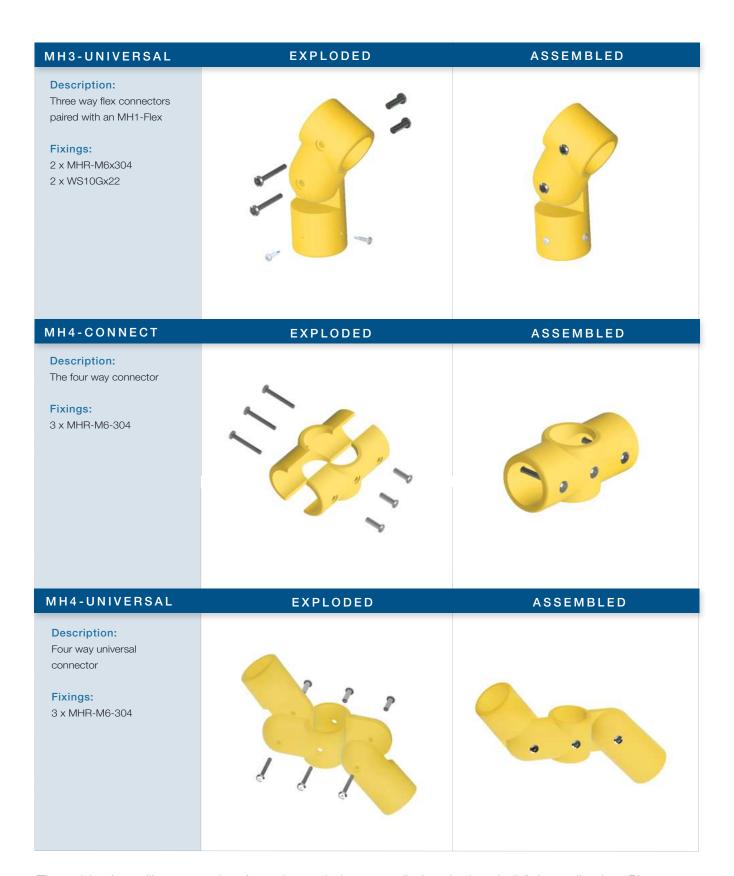
MHR-M6-304	IMAGE	TOP VIEW	SIDE VIEW
Description: M6 x 30 Barrel Nut & M6 x 40 Pan Head Soc Screw Fastener.		Pan Soc Head Barrel Nut	Pan Soc Head Barrel Nut
WS10GX25	IMAGE	TOP VIEW	SIDE VIEW
Description: 10G x 25mm G410 (Stainless Steel) Wafer Head Screw	Charles of the Control of the Contro		
RIVET	IMAGE	TOP VIEW	SIDE VIEW
Description: Dome rivets 4.8x14.5 max grip 9.5mm 316ss			

Typical Component Assembly









The guide above illustrates - key fastening techniques applied to the handrail fitting collection. Please note, wafer screws are used only to secure tubing in footings, wall mounts and the MH2-Flex connector. Other fittings do not require additional support if installed properly with the required fixings. Take care when fastening and ensure the correct use of PPE when necessary.

KICKPLATE INSTALLATION

ASSEMBLY

Kick Plate Installation

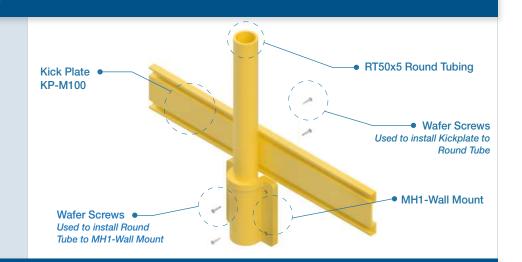
MH1 - WALL MOUNT

Description:

Once the stanchion has been installed the kick plate is secured with a riv nut no more than 10mm from the ground.

Fixings:

2 x Rivet 6 - 8.5 Ø5.1 304 SS 2 x WS10G22



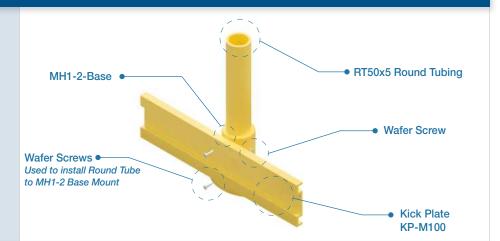
MH1-2 BASE MOUNT

Description:

The kick plate, stanchion and tubing is secured with a singular wafer screw. In this case a riv nut is not suitable.

Fixings:

4 x WS10G22.



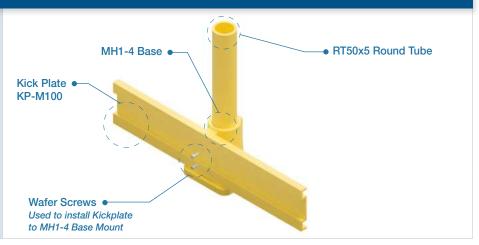
MH1-4-IB BASE MOUNT

Description:

To install kick plate onto a MH1-4 Base Mount, a connector should be secured prior

Fixings:

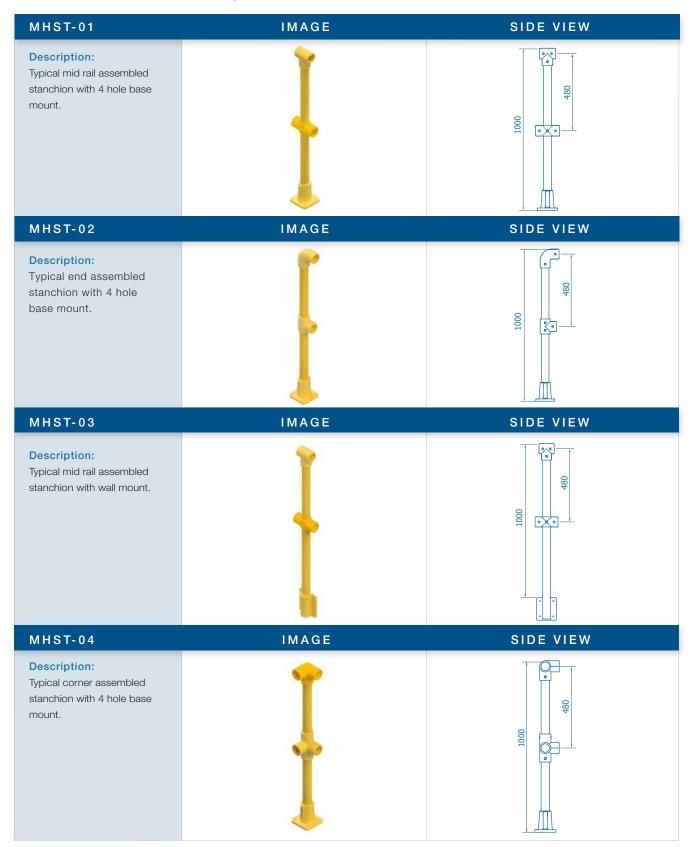
4 x WS10G50 2 x WA10G22



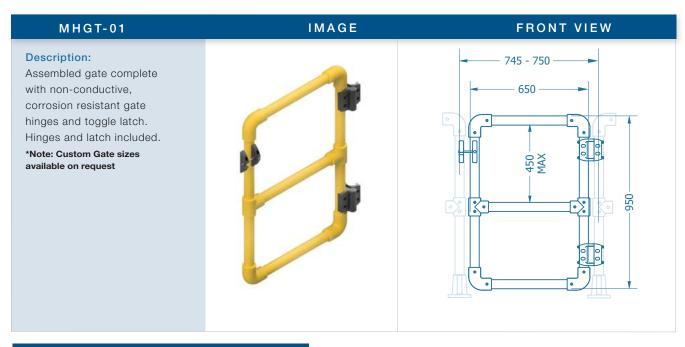


PRE-ASSEMBLED HANDRAIL COMPONENTS

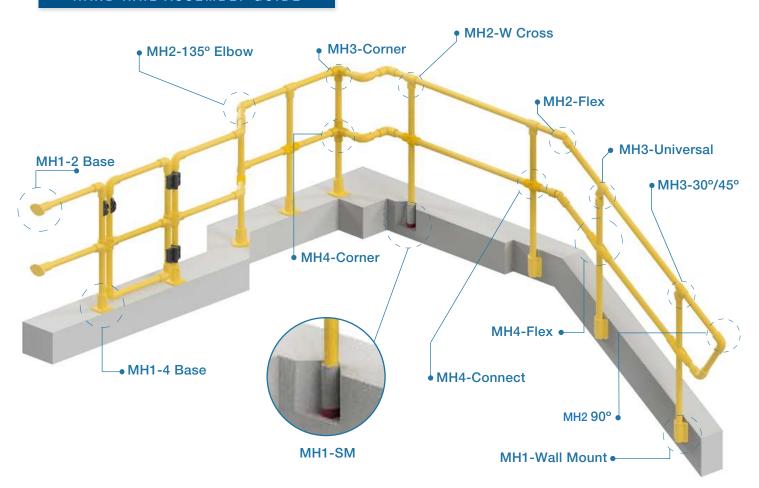
Pre-assembled Handrail components







HAND RAIL ASSEMBLY GUIDE





Painted FRP Modular Handrail

Prior to painting the FRP surface, the product must be cleaned appropriately. We recommend cleaning with thinners. If the surface is not prepped before hand, the fibreglass may not accept the paint or it will peel soon after application. Start by lightly sanding the FRP so that the top layer of gloss is removed. Wipe down and remove any dust with water. Cover any areas of the product you do not want painted with tape or drop sheets. Using a spray gun, apply an even amount of paint to the surface. Spray intermittent mists to promote a professional-looking finish free of runs, dips and sagging.

GRP Australia recommends using an Outdoor Acrylic Paint for domestic applications (non-harsh environments). For commercial applications, we recommend using a 2-Pack Polyurethane Base and Hardener.





GALLERY









GALLERY













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