

Installing Smart Grab-rails



(Sockets installed flush with surface. Remember to allow room for paving or asphalt if it is to be used). The foundations are sustainable and will last the life of a development if installed correctly. Please do a neat job!

1. Install sockets (both sockets flush with ground level)

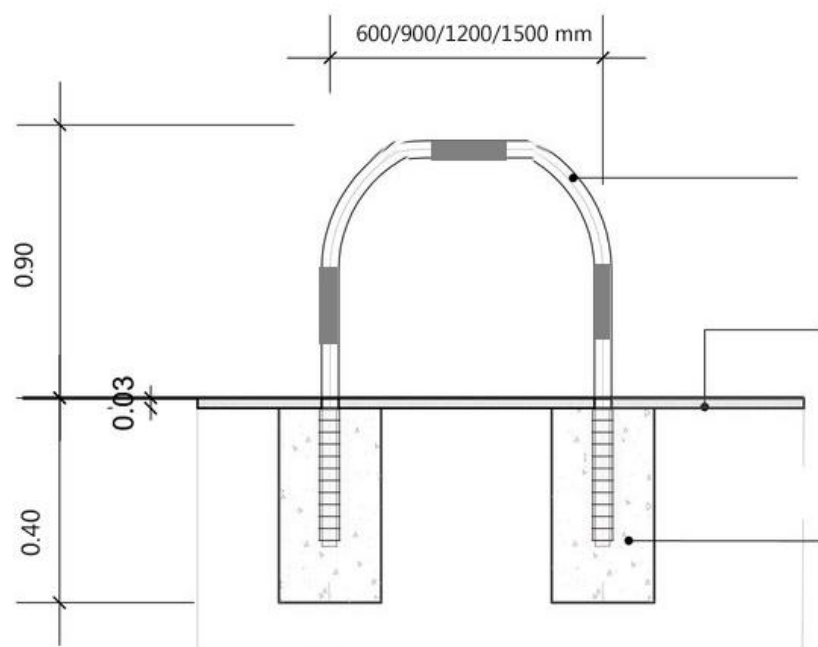
Ensure sockets finish flush with surface. (Allowing room for paving or asphalt/ you can use socket to measure depth). If retro-fitting, you can core drill or remove a couple of pavers and fill area with coloured concrete. Place a small amount of concrete in hole and position socket in hole so socket finishes level with surface.

2. Attach First Taper Only (using self-drilling screws provided)

exactly 345 mm from base of leg on higher end and gently place grab-rail in both sockets to measure position for second Taper. **If ground is uneven**, use a spirit level to measure the angle (see over for more details)

3. Insert grab-rail very gently in sockets (ensure they do not lock in)

Pour concrete foundations to secure sockets and dress off surface neatly. Clean up and allow time for concrete to cure before inserting grab-rails firmly in sockets. Once concrete has cured, tap grab-rails on top firmly to ensure they are locked in sufficiently. Taper should not protrude from socket once grab-rail is installed



ASPHALT PAVING
ASPHALT PAVING TO MATCH EXISTING
LAID OVER CONCRETE FOOTING.

SMART FOOTING
400MM DEEP X 300MM SQUARE
CONCRETE FOOTING SET FLUSH WITH
TOP OF SURROUNDING ASPHALT / PAVING.

Installing sockets on uneven foundations

Both ground sockets must finish flush with ground level or paving.
Use a spirit level to measure the angle. Attach first Taper (Taper on higher side) 345 mm from base of post.

(If difference = 5mm, Attach second Taper 340 mm from base).
Continue with Step 3 as normal.

Drainage

If you want sockets to drain, simply drill or use screwdriver to puncture a small hole in the base of each ground socket (there is a weak spot provided in each socket) before installing, cover with duct tape and place enough rubble beneath socket so hole does not fill with concrete.

Altering depth socket

To make 650 socket, truncate one socket just below the second vertical rib and insert into the complete socket (650 sockets can be supplied ready to install). Sockets can be altered to any depth. If you encounter problems on site do not leave socket protruding from ground- Truncate base of socket at one of the horizontal ribs and tape over with duct tape (so concrete does not enter socket during installation).

Installing sockets when pouring foundations

Sockets can be installed by simply positioning upright when pouring foundations. If you need to remove the grab-rails when asphalt or concrete is being poured, **please ensure caps are installed**. If caps are covered in too much asphalt/concrete and difficult to remove- they are sacrificial (you can prize them out with a screw driver) and we can supply new caps if required.

Installing in solid foundation (concrete or asphalt). If the base can be secured to an existing solid foundation that increases stability (concrete footpath; road base or limestone) you can excavate or core drill a 150 mm diameter hole to secure a 150 mm or 350 mm socket ensuring socket is protected on all sides by a minimum of 100 mm of concrete (to protect socket and paving from damage when item is impacted) and beneath by 50 mm of concrete or rubble. (as shown below).

WARNING: DO NOT USE RAPID SET AS IT IS NOT IMPACT RESISTANT

