

UNIT INCLUDES

1. Ground Socket
2. Self-locking Taper (provided in two halves)
3. Cap

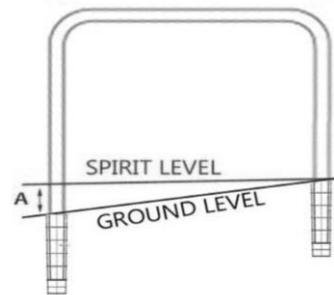
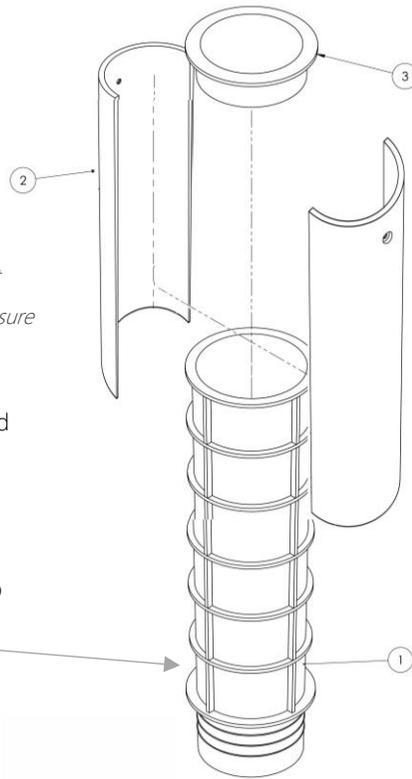
Units must be stored in boxes provided, away from sunlight prior to installation and not be subject to unwarranted pressure

Self-locking Taper and cap are removable and re-usable. (ensure Taper does not protrude from ground socket when item is installed)

EXTENDING SOCKET: To make 650 socket, truncate one socket just below the second vertical rib and insert into a complete socket.

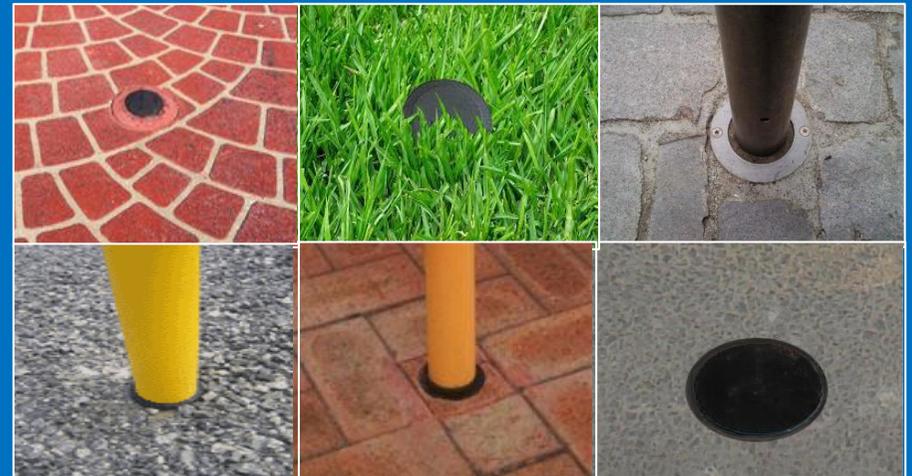
MULTIPLE LEGS If ground is uneven, Socket is still installed flush on both sides. Smart Taper is simply attached to legs at different level.

NO INSTALLATION TOOL REQUIRED. Attach Taper using self-drilling screws 345 mm from base of leg on higher end and clip Taper to second leg. Gently place grab-rail in both sockets to measure position for second Taper (or use spirit level to determine position for second Taper) Attach second Taper and once concrete has cured, insert grab-rail firmly



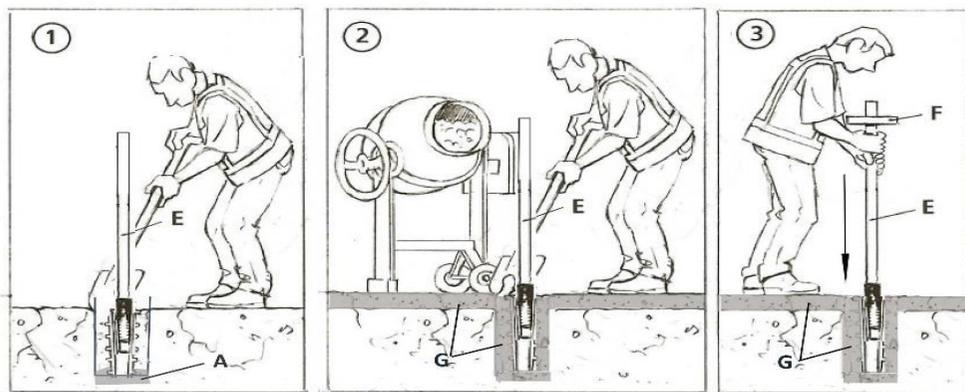
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Smart Sustainable Foundations installation instructions



Good quality concrete can last up to 100 years, whereas rapid-set will be damaged upon first impact. The Smart ground socket creates a protective shield between the item and the concrete foundations to make the item removable and the foundations re-usable.

ALWAYS INSTALL GROUND SOCKET FLUSH WITH GROUND LEVEL



1. EXCAVATE HOLE SO SOCKET FINISHES FLUSH WITH SURFACE,

Use socket to measure depth, (allowing room for paving or asphalt and place approximately 50 mm of rubble beneath socket). If retro-fitting/ you can either core drill or remove enough pavers (bell out base for added stability)

DRAINAGE OR WIRING: If you want drainage- use a screwdriver, or similar, to pierce a hole in the base of the socket (weak spot provided) and place rubble underneath socket.

2. FILL WITH CONCRETE Insert installation tool in socket (to stop it distorting when compacting concrete. If this happens items will not fully install) and position socket upright in hole (use spirit level to check alignment) and fill hole with concrete level with surface (allowing space for asphalt or paving if necessary).

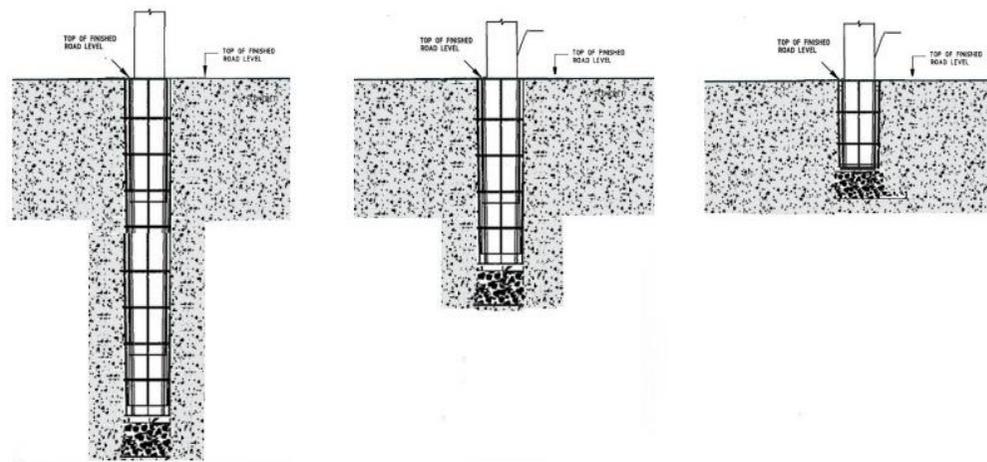
3. INSTALL PAVING Allow 150 mm of concrete on all sides of socket to protect paving and ground socket from damage. Install paving up to socket by either removing pavers and filling gap with concrete, or core drill and filling gap with concrete.

4. INSERT CAP Twist installation tool to remove and if concrete has not cured, insert cap (so no grit enters socket) and once concrete has cured sufficiently you can install your item.

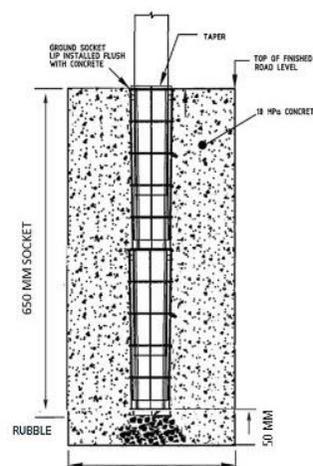
If item is removed, ground socket should be capped off to protect from sun and grit.

The foundation must be large enough to ensure it is not dislodged if the item is impacted by a vehicle. Good quality concrete lasts up to 100 years but rapid set can be damaged upon first impact-We suggest using MPa 20 or greater.

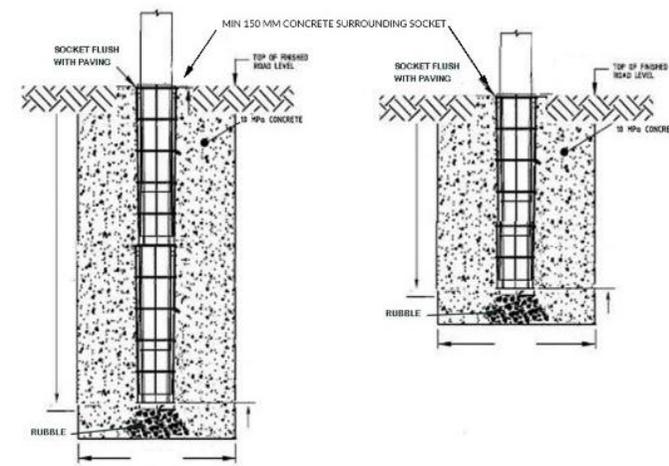
SOLID CONCRETE FOOTINGS



FREE STANDING



BRICK-PAVED AREAS 650 AND 350 MM DEPTH



For Bollards secured using a solid steel core we suggest re-enforcing the concrete foundations

