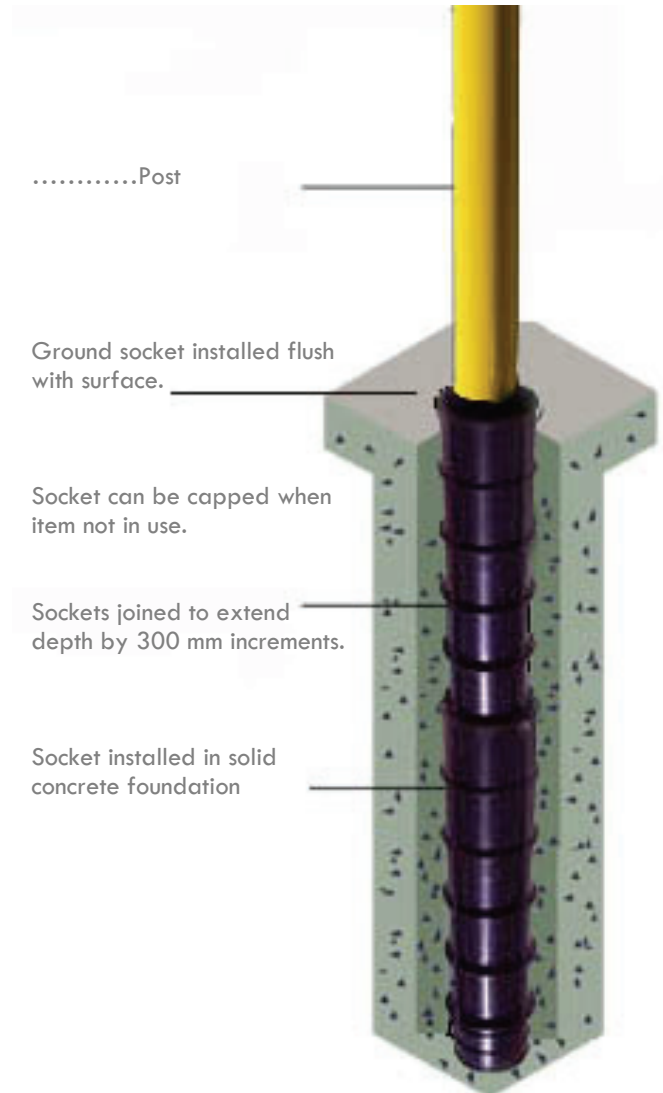


Install units in solid concrete foundation.

The foundation should be permanent so it must be large enough to ensure it is not dislodged when impacted. It should be solid concrete to ensure it does not crumble or crack when impacted.



Determining Depth of base

The base can be extended to any depth and size of base required to ensure foundations are not disturbed when an item is impacted, (requirements will differ according to soil and existing foundation conditions). Please refer to standard installation specifications for your region. As a guide:

- **150 mm "modified" units** are for use on solid concrete areas such as solid concrete traffic islands and footpaths. As base is solid concrete you would need to simply make hole, large enough to insert socket.
- **350 mm "standard" units** are used for standard installations. We suggest a base approximately 3-400 mm square by 400 mm deep, allowing approx 50 mm concrete for beneath the ground socket.
- **650 mm "extended" units** are recommended for installing bollards and large items. Suggest base 4-500 mm square by 700 mm deep, allowing for approx 50 mm concrete beneath the ground socket.
- **950 mm "extended" units** are recommended for installing bollards on solid steel posts and very large items such a football posts. Suggest base 5-600 square by 1000 deep, allowing for approx 50 mm concrete beneath the ground socket.

Extending depth of socket

To extend depth of socket you cut the base off one ground socket, just below the middle rib, (Approx. 20 mm from base of ground socket) and insert the modified ground socket into top of standard ground socket.

Auto Lock & Release Socket Installation Instructions



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REFER TO SPECIFICATION DRAWINGS

Refer to Specifications for a complete diagrammatical guide to installing units. Call our office to be emailed copies, or download from the web site at www.sis-ww.com



UNIT INCLUDES:

- 1 x 350 mm Ground socket
- 1 x 270 mm Wedge (comes in two halves)
- 1 Cap
- Self-drilling screws, to secure wedge
- * Additional sockets can be purchased to extend depth

INSTALLATION TOOL MUST BE USED

The installation tool will stop the ground socket from being distorted when concrete is impacted and enable installation of socket from a standing position. If the installation tool is not used, posts will not necessarily lock in with over 200 kg of force and you will void your warranty.

Fit installation tool in ground socket and place into the hole. Place concrete in hole and tamp down, making sure the unit is correctly aligned.

ITEMS WITH MULTIPLE LEGS

Instead of using installation tool you can attach a wedge using screws to one leg, and simply clip on other leg.

Slide down into Ground Sockets (**leaving 25 mm of wedges protruding**, so the legs of the item act as an installation tool and do not lock in). This ensures sockets are the correct width apart for item. Once cured you can attach wedges at correct location on post and drop in.

DIG HOLE

Ensure hole is deep enough to allow the top of the Ground Socket to finish level with the top of the concrete foundation or brick-paving, allowing 50 mm for concrete at the base of the socket, (IE: 400 mm for 350 mm socket).

For new works: (shown right)

When laying concrete foundations or footpaths you simply dig a hole and insert socket (ensuring when concrete is poured it will finish level with the top of the socket- NB if paving is to be installed, leave enough of the socket protruding from the concrete to allow for brick-paving). Allow concrete to set and spin installation tool to remove. Cap off unit until ready to install infrastructure.

When retro-fitting units

Hole can be core drilled, or bricks simply removed and hole excavated beneath brick paving. N.B.: The base can be "belled" out for greater protection from impact.

FILL WITH SOLID CONCRETE TO SURFACE

Fill hole with concrete level with surrounding brick paving or concrete surface & top of ground socket, dress off. NB: For a solid concrete foundation do not use rapid set concrete which can crumble upon impact.

REMOVE INSTALLATION TOOL

Place foot on lip of ground socket and carefully rotate installation tool to remove. Dress off surface and install cap, or **when concrete is sufficiently dry**, install post.

ELECTRICAL WIRING OR DRAINAGE

A hole can be pierced at the base of the socket to allow access for electrical wiring or for drainage. If a hole is pierced in the socket we suggest placing a small amount of rubble at the base of the socket rather than concrete- to enable drainage. NB: *If hole is not pierced, rubble is not required.*



UNITS FLUSH WITH SURFACE NOT PROTRUDING!



When installed correctly the ground socket should be flush with the surface of the footpath or brick paving as shown above- Cap installed. No trip factors with or without cap installed. **If installed correctly it will be in place for generations to view.**

NB: REFER TO SPECIFICATION DRAWINGS FOR DETAILS

Refer to Specification drawings for a complete diagrammatical guide to installing units.