

smart urban

the foundations for building a better future

UNIT INCLUDES:

- 1 x Spring Return Base
- 1 x Self-locking Taper attached
- 1 x Self-healing ground socket (350 mm)
- 1 x Cap

Optional: Powder coat cuff

How it works

The Spring Return base is secured using a Self-locking Taper which locks the unit into a permanent self-healing ground socket which protects the surrounding foundations from damage when bollards are impacted.

An Allen key is used (just above ground level) to secure a 60 mm O.D. (50NB) Post or Bollard to the Spring Return base using an embedded grub screw. If impacted the bollard bends at the surface of the ground and self-recovers.

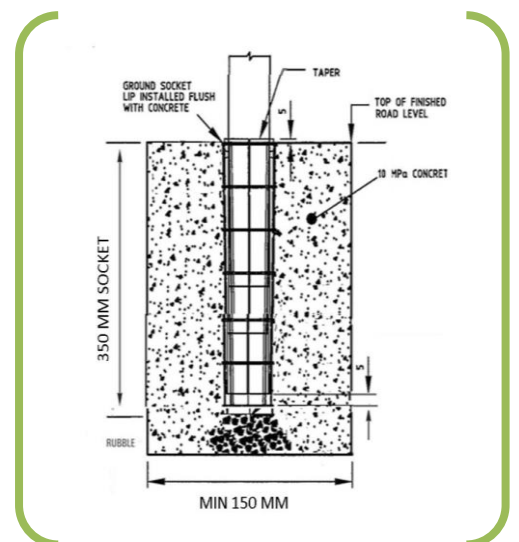
The Spring Return base can only be removed from the ground socket using the removal tool as shown above (optional foot tool is available, for items that do not require protection from unauthorised removal).

Installing ground socket

Socket must be installed in concrete foundation. If item is vulnerable to impact from vehicles, base must be large enough to ensure it will not be dislodged when impacted by a vehicle.

If socket is installed when laying foundations it can be simply positioned upright and concrete poured to secure. If retro-fitted into a solid concrete footpath, road base or traffic island the hole can be simply core drilled using 150 mm core drill and secured to existing foundation.

Refer to install guide for details.



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|---|--|---|-------------|
| Item | Spring Return base is secured on Smart Self-healing ground socket (protects paving & foundations) and locks into the Self-healing ground socket using the Smart Self-locking Taper. | | |
| Materials | Spring is made from high tensile steel and body is made from galvanised steel- cuff protrudes above surface when installed and can be powder coated to suit post or bollard. | | |
| Impact resistance | Withstands hundreds of impacts: Spring has been tested to withstand over 700 impacts (at 60Km/hour) and continue working effectively. Smart Polypropylene Ground sockets are impact resistant and self-healing, protecting foundations from damage when items are impacted by vehicles. Smart Taper-lock is also impact resistant and re-usable. | | |
| Locking device | Made from polypropylene and tapered from 6 mm at the top down to 2 mm at the bottom, the Smart Taper is a “Self-locking” Taper (meaning it automatically locks the post into the ground socket) using friction- No pins, keys or breakable components required. Another name for this is the Morse Taper (named after the inventor Samuel Morse). <i>Patent No:</i> PCT/AU2011/000414 | | |
| Supports | Steel CHS Post 60mm OD [Min – 900 mm; Max – 1600 mm; Most Common Post Height – 1400 mm]. Sign Carrying capacity: 1600mm post supports 1 x 600 x 450mm aluminium sign. 1400mm post (or less) can support 2 x 600 x 450mm aluminium signs. | | |
| Tools | An Allen key is used to attach and remove post or bollard to Spring Return Base. Installation tool is used to check alignment of socket and protect from distorting when concrete is compacted. Smart Removal tool is required to remove the Spring Return Base from the ground socket. Smart Tools can be purchased as a pack (including 2 x Installation Tools; 1 x Removal Tool & sheared post attachment). | | |
| Dimensions | Spring Base with Taper | 70 mm OD x 1000 length (650 mm above ground + 350 mm depth) | |
| | Smart Socket | 82 mm Outside/ 60 mm Inside diameter x 350 mm depth | |
| | Smart Cap | 82 mm Outside diameter (2 mm tapered cap -No trip factors) | |
| Packaging Dimensions | | l / w / h (mm) | weight (kg) |
| | 1 x Spring Return Base | 1000 / 70 /70 | 3kg |
| | 1 box 6 x 350 mm sockets & cap | 425 / 150 /310 | 2kg |
| | 1 box 50 x 350 mm sockets & cap | 800 / 400 /400 | 15kg |
| | Set of Tools | 160 / 160 / 1300 | 5kg |
| Smart Taper Approvals & Awards | Approved for use by Australian Road Authorities. The Smart Taper was awarded the Department of OH&S Worksafe Award for its ability to reduce the incidence of workplace injury. SBDC Innovation of the Year Award. | | |
| Spring Return Base Approvals | Approved for use by Australian Road Authorities. Main Roads only approved Spring Return System. Smart Urban are distributors in WA and NSW | | |

