

smart  urban
the foundations for building a better future

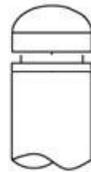


Aluminium Designer Caps

Caps can be provided raw
or polished

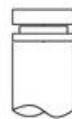


DOME



D1

FLAT



F1

UNIT INCLUDES

- Galvanised Steel Bollard
- 150 NB/ 165 mm diameter
- 950 mm above ground
- 450 mm in-ground
- Designer Aluminium Cap

INSTALLATION:

- Installed in 600 mm deep concrete footing and can be concrete filled

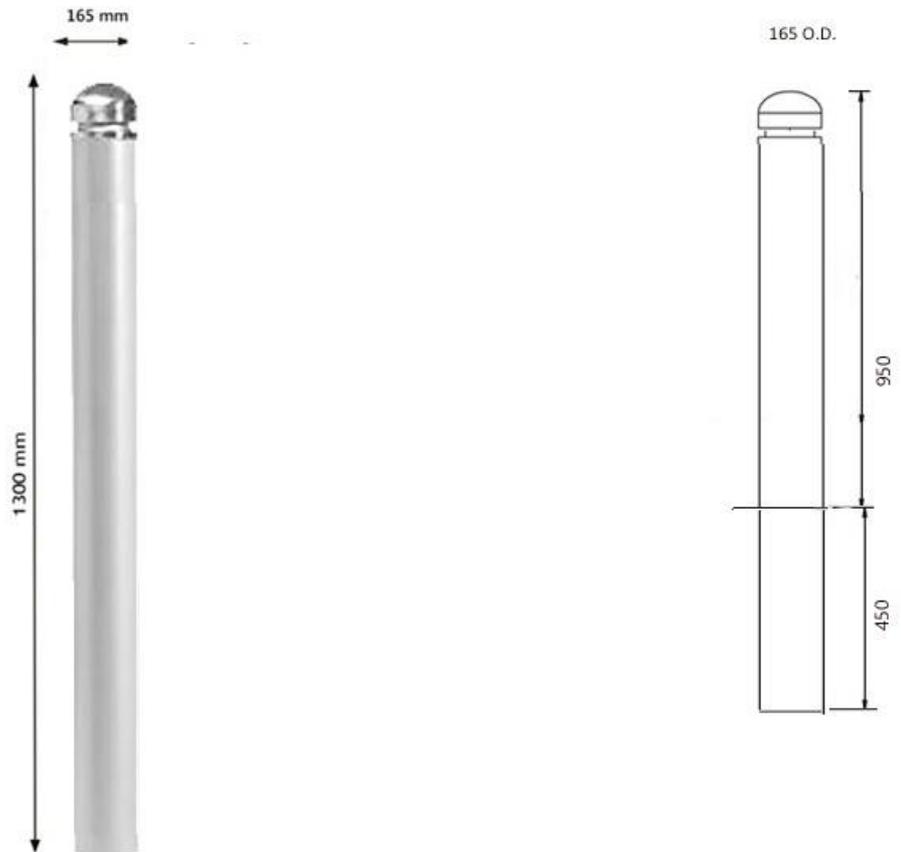
OPTIONS:

- Power coated colour of choice
- White striping on cap
- Eye bolts

WEIGHT:

Bollard weight: 30 kg

NB: Can be made to desired length



Sustainable foundations and bollard re-usable impact after impact, year after year. No on-going costs

UNIT INCLUDES

- Galvanised Steel Bollard
- Heavy Duty 5 mm wall
- 150 NB/ 165 mm diameter
- 980 mm above ground
- Capped with D1 cap

OPTIONS

- Polished cap
- Select industrial or foot tool

PERMENANT FOUNDATIONS:

- 350 or 650 mm Ground socket
- Cap

IMPACT RECOVERY SYSTEM

- 2 x Impact Recovery Rings
- Short Internal securing post
- Security stud

TOOLS

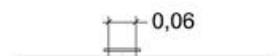
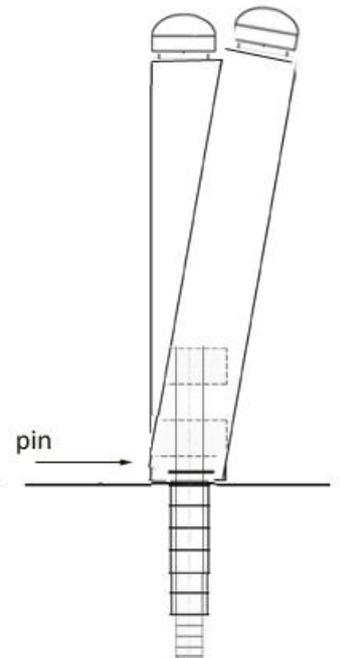
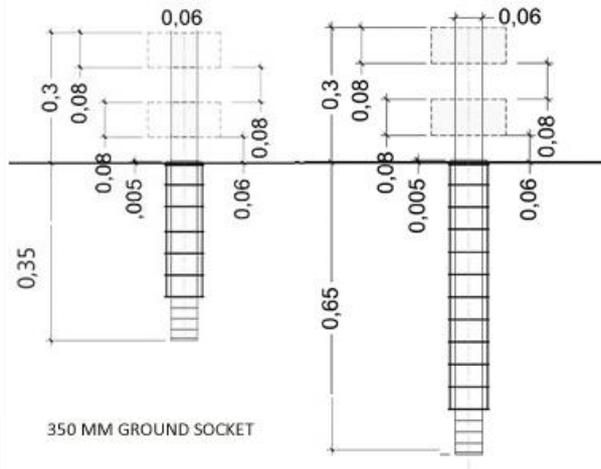
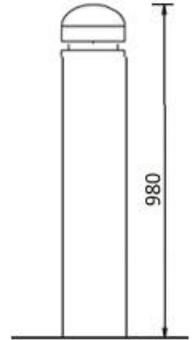
- Security Allen key is required to remove bollard
- Installation tool required to install sockets
- Removal tool required: Select industrial or foot tool

DEPTH

If base can be secured to solid concrete or asphalt foundations a 350 socket will suffice.

WEIGHT:

- Bollard: 20 kg
- 350 IRS: weight 5kg
- 650 IRS: weight 7kg



GROUND TUBE CAP

UNIT INCLUDES

150 mm diameter (152.4)
Galvanised Steel Bollard
980 mm high
5 mm Wall thickness

OPTIONS

Flat, Dome or Mitred cap
Can be powder coated
Nylon washer can be used to prevent scuffing of paving

IMPACT RECOVERY SYSTEM

- 2 x Impact Recovery Rings
- Internal securing post
- Security stud

TOOLS

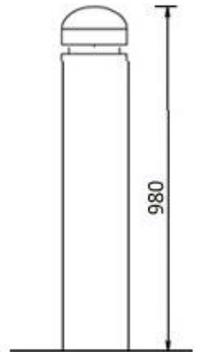
- Security Allen key to remove bollard
- Allen key to remove Rings

INSTALLATION

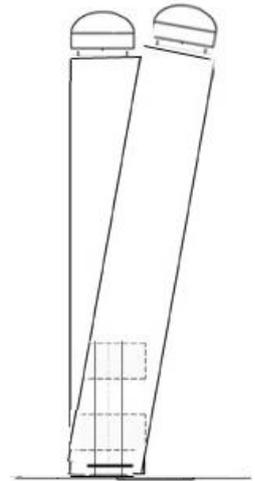
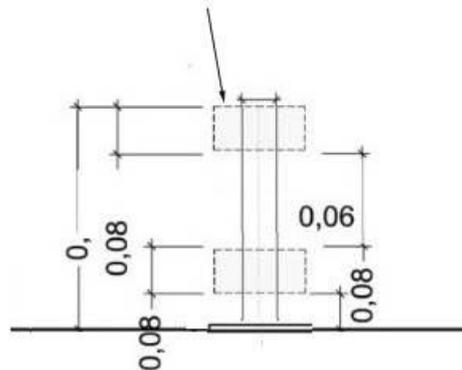
Secured on heavy duty 5 mm base Plate using 4 Impact resistant concrete anchors

WEIGHT:

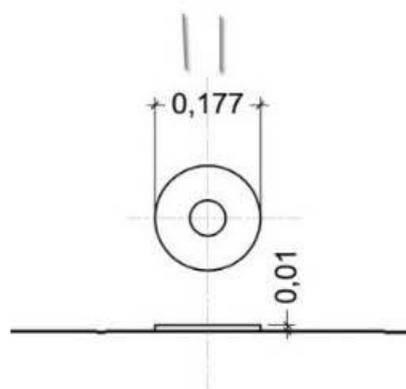
Bollard weight: 20 kg
IRS: 10kg



IMPACT RECOVERY RINGS



INTERNAL HOLE 75MM

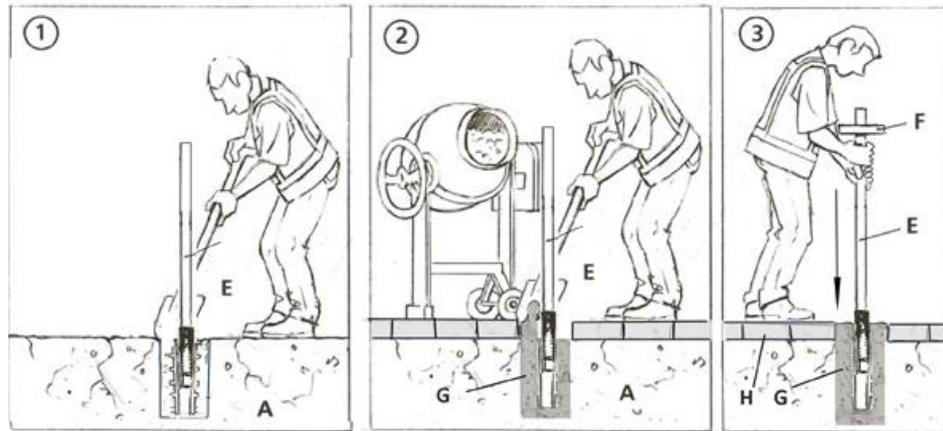


NYLON WASHER

Installation Tool

The installation tool ensures Smart sockets are not distorted or pushed out of alignment during installation (thus ensuring the socket will provide over 200 kg of resistance to unauthorized removal of a bollard)

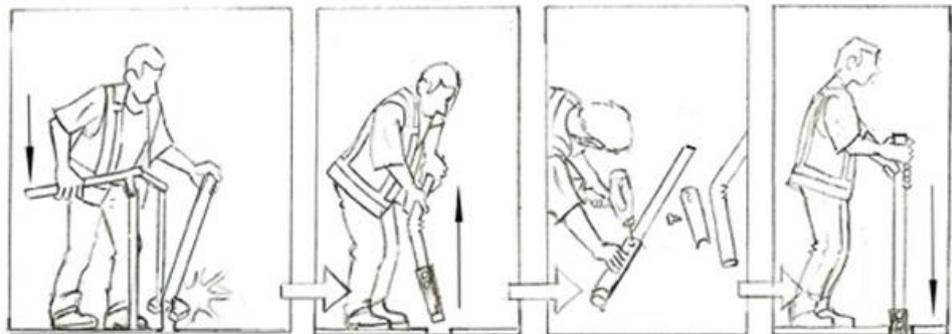
The tool is inserted into the socket, and the socket is lowered into the hole. Alignment is checked and concrete poured around the socket to secure.



Removal Tool - industrial

The industrial Removal tool is used to remove the internal post from the ground socket (they cannot be removed with a post puller- this will pull the entire base from the ground).

You simply hook the tool around the internal securing post. The handle will rise as you do this - Simply move handle down with jerking action, to remove post.



Simple foot tool

To enable removal of the internal post using a simple foot tool a pin is inserted into the internal securing post and the foot tool is used to lever the post from the ground socket.

