Intelligent Foundation Solutions

RETENTION SYSTEM sockets are intelligent foundation solutions for the installation and maintenance of posts.
Essential to sustainable infrastructure design, they add value through improved asset management and performance, reduced operational costs and deliver environmental, health and safety benefits.

world leading design...

- Designed and tested to international standards
- Approved and used throughout the world
- High-strength, reusable design survives vehicle impact
- Solution for knock-down and access-control locations
- Eliminates repeat excavation, disruption and expense
- Shallow foundation options for congested sites
- Easy to handle, adjust and install on site
- Facilitates electrical cabling at ground level
- Simplifies project, contractor & site management
- Assists maintenance and seasonal schedules
- Supports health and safety work practices
- Promotes environmental policies and targets

Sustainable Infrastructure Design

RS115

RS115 socket for the installation of Ø114mm (4.5in) posts including traffic signals, bollards, signs, lighting columns...

RETENTION SYSTEM
sockets for post installation

RS sockets *are available in common industry sizes and post installation depths.*
Base options include: standard [flat] / duck-foot & tee bends for cable access / shallow foundation.
RS engineered sockets *are made to size, specification and installation requirements.*

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- » Facilitates Passive Safety design to EN12767
- » Foundation size and specification to EN40 & BD94/07
- » Product tested and load rated to EN124 B125

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nqa ISO 9001 nqa ISO 14001 nqa ISO 45001

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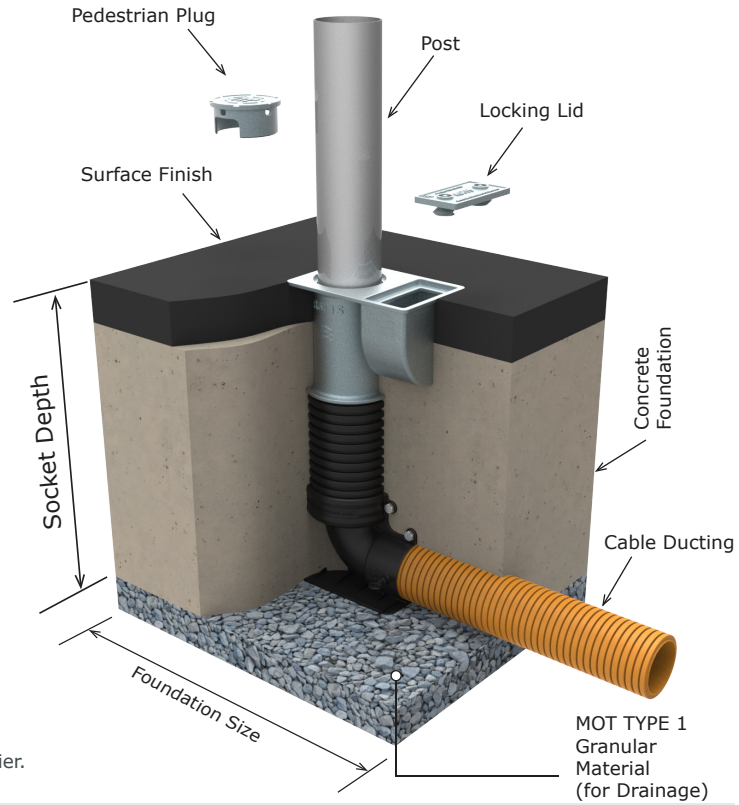
RS socket
installation & specification...

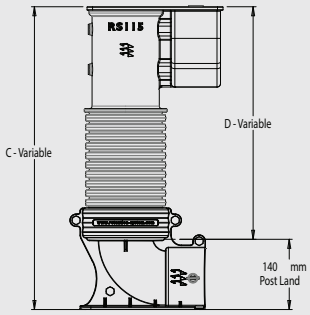
The **RS socket** should be set into concrete generally in accordance with International Standards or good Codes of Practice for the installation of posts.

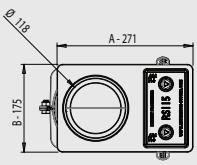
1. Prepare hole at least 75mm deeper than the overall height of the **RS socket**. If depth for **RS socket** cannot be achieved, unit can be shortened on site. Please contact your supplier for technical support.
2. Compact at least 75mm of MOT type 1 granular material in base of hole.
3. Position **RS socket** in centre of hole. For cabled installations connect ducting from remote chamber to swivel bend on socket. Leave draw cord in base of **RS socket** bend.
4. Rotate the **RS socket** head into the required orientation.
5. Remove locking lid, loosen the two M16 locking set-screws and remove the pedestrian plug.
6. Install a levelling post (stump pole) in the **RS socket**, fasten the locking set-screws and replace the locking chamber lid.
7. Surround with the required amount of concrete (ST4 mix or stronger). Use stump pole to achieve a vertical level.
8. Once vertical level is achieved, compact concrete.
9. Once concrete has been compacted and has begun to cure, carefully remove stump pole and lock the pedestrian plug in place.
10. Replace the locking chamber lid and secure in position. Finish footway with required surface when concrete has cured.

See **RS socket** installation guide for EN40-3-1:2000 foundation guidelines

For detailed foundation sizing on specific site conditions contact your supplier.







RS115

C* **RS socket foundation depth**
D** **post insertion depth**

Technical drawings for all **RS sockets** available from **IPL group**.

Drawings not to scale, illustrations, technical data, dimensions and weights are subject to alteration without notice.

RS115 socket for the installation of Ø114mm (4.5in) posts

Ref No:	Base Type	A (mm)	B (mm)	C* (mm)	D** (mm)	Weight (kg)
RS115x300sf	shallow foundation	271	175	300	210	22.5
RS115x300	standard [flat]	271	175	300	300	16
RS115x450	standard [flat]	271	175	450	450	16.25
RS115x450df	duck foot bend	271	175	450	310	15.6
RS115x450t	tee bend	271	175	450	310	27.3
RS115x600	standard [flat]	271	175	600	600	16.5
RS115x600df	duck foot bend	271	175	600	460	15.8
RS115x600t	tee bend	271	175	600	460	27.5
RS115x750	standard [flat]	271	175	750	750	17
RS115x750df	duck foot bend	271	175	750	610	16
RS115x750t	tee bend	271	175	750	610	27.7
RS115x900	standard [flat]	271	175	900	900	17.5
RS115x900df	duck foot bend	271	175	900	760	16.3
RS115x900t	tee bend	271	175	900	760	28

Options:

RS stump pole | RS drop kerb wedge | RS post installer
RS adapters for post sizes: Ø101.6mm / Ø88.9mm
(non-standard foundation depths & base types per specification)

Material Specification:

Head, Plug, Locking Lid:	Cast Steel (EN10340 GS240 Grade)
Body:	PP - Polypropylene Twin Wall
Flat Base:	Mild Steel
Duck Foot Bend:	PC/ABS - Polycarbonate
Tee Bend:	Ductile Iron (BS2789 500-7)
Setscrews:	M16 A2 Stainless Steel
Assembly Screws:	M12 A2 Stainless Steel
Finish:	Galvanised

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