

## THE INTELLIGENT FOUNDATION FOR POST INSTALLATION


# RETENTION SYSTEM

## sockets for post installation

IPL group's patented **RETENTION SYSTEM** is a unique method for installing posts in ductile-iron **RS sockets** that builds-on or replaces traditional foundation methods for fast, easy installation and removal of posts.

The design and build of the **RS socket** range provides many immediate and long-term features and benefits with time, labour and cost savings...


European Standard Classification  
**EN124 B125**



**RS89** socket

suitable for the installation of all Ø89mm posts including railings, bollards, signposts...

✓ typical applications



### features & benefits...

#### RS sockets are designed to withstand vehicle impact and to protect the foundation, which means...

- Quick and easy re-installation of posts on knock-down sites
- No excavation required to remove and re-install posts
- Less street hazards, disruption or lane closures
- Less heavy equipment, machinery and ground works
- Cost savings because no fill required and no removal of spoil

#### The RETENTION SYSTEM is easy to install...

- Standard hole size and concrete foundation methods
- Post can be installed anytime once foundation is set

#### RS socket modular construction and ductile-iron high-strength castings provide...

- Greater site adaptability and variable post depth
- Ideal solutions for bridge decks, congested and shallow sites
- Cost effective alternative to specially fabricated posts
- Superior foundation strength, reliability and longevity

#### Safe & secure post installation and removal...

- Posts can be installed, removed and re-installed in RS sockets quickly and easily with key and spanner
- No spare parts or special tools required
- Dual-locking system means reliable security and only authorised post installation and removal by keyholders

#### RS socket specification protects the expenditure, planning and design in urban environments to ensure...

- Systematic management of knock-down sites
- Essential urban services are safeguarded
- No unnecessary excavation, disruption or downtime
- Clean, high-quality finish for all post installations
- Easy maintenance schedule and renewal of street furniture

#### Investment in the RETENTION SYSTEM pays for itself...

- Based on calculated costs of a single post replacement

### RS89 socket advantages...

#### The RS socket with integrated locking plug enables temporary post installation for security, access control, or seasonal purposes...

- The RS socket may be installed, sealed and foundation finished ready for future post installation
- No hinged covers or dangerous projections ensures vehicle and pedestrian safety at all times

#### Dual-locking system with post protection means...

- All RS sockets are fitted with anti-rotational, stainless steel locking set-screw(s) and optional stainless steel sleeve
- Access chamber fitted with secure screw head lock
- Resistant to extreme weather conditions and vandalism



## versatility & foresight

Specifying the use of **RS sockets** anticipates the expected installation demands, maintenance needs and lifecycle of the post.



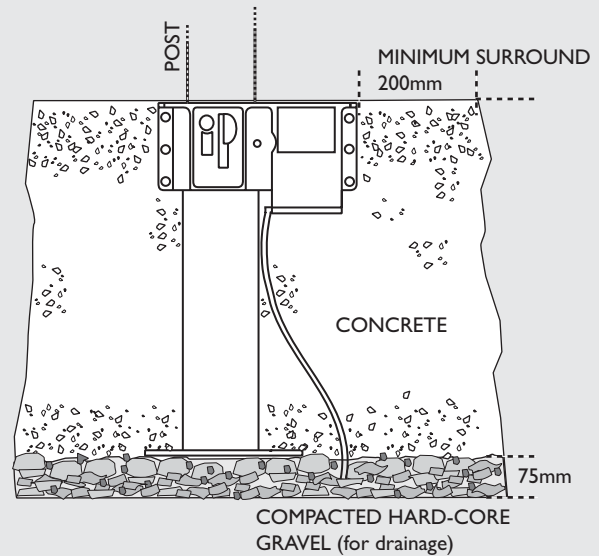
# RS89 socket



## Recommended Installation INSTRUCTIONS

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

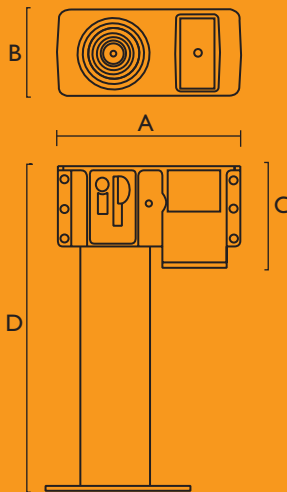
- [1] Prepare hole as shown, at least 75mm deeper than the overall height of the RS socket.
- [2] Compact at least 75mm of hard-core or gravel in base of hole.
- [3] Position RS socket in centre of hole, ensuring there is good clearance on all sides.
- [4] Install a temporary post (stump pole) in the RS socket, fasten the locking set-screw(s) and ensure post is vertical.
- [5] Close RS socket lid, pour concrete (ST4/C25 mix or stronger) and compact well.
- [6] Check the post is vertical and finish.



### NOTE:

For greater foundation strength and impact resistance, or if ground is uncompacted, a wider/deeper base of concrete should be used.

## RS89 – Dimensions



Ref No:	Post Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kilos)
RS89x300	Ø89	340	160	190	300	30.2
RS89x600	Ø89	340	160	190	600	32.8

## RS89 – Construction

Body, Lid, Plug, Base:	Ductile Iron [SG] (BS 2789 / G-500/07) European Standard - EN124 B125 class
Set Screw:	M16, Stainless Steel, DIN 933, RVS, A2
Assembly Screws:	M12, Stainless Steel, DIN 933, RVS, A2
Extension Tube:	Galvanised Steel

## RS89 – Options

Drop Kerb Wedge | QRE (Quick Release Extractor) | Stump Pole

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

**ipl** group



RETENTION SYSTEM sockets for post installation

[www.retention-system.com](http://www.retention-system.com)



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