

## 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 high-strength 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...



**NEW MODEL**  
**CAST STEEL**

**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 cast-steel 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-instated 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.





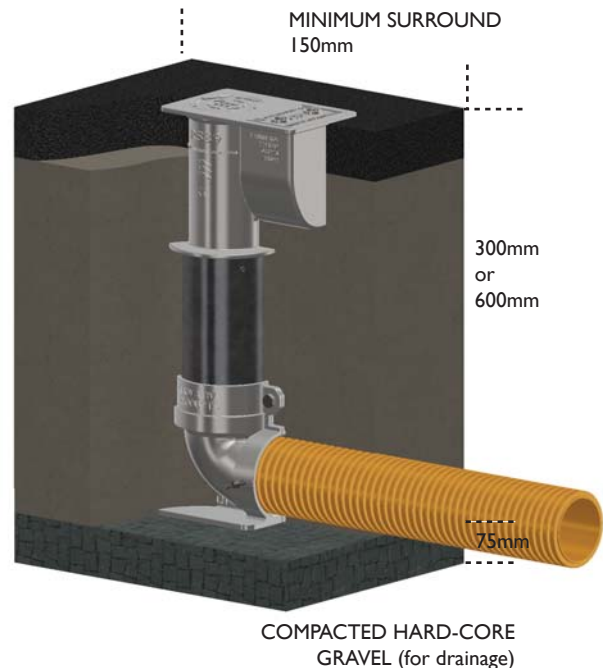
# RS89 socket

NEW MODEL  
CAST STEEL

## Recommended Installation INSTRUCTIONS

The RS76 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 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 I 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 Socket bend.
4. Rotate the 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.



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

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## RS89 – Dimensions

Ref No:	Post Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kilos)
RS89x600	Ø89	340	160	190	600	17.1

## RS89 – Construction

Body, Lid, Plug, Base:	Cast Steel
Set Screws:	M16, Stainless Steel, DIN 933, RV5, A2
Extension Tube:	Galvanised Steel
(Duckfoot)	Ductile-Iron

## RS89 – Options

Variable Depths | Standard Base | Tee Bend Base | Stump Pole

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

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

