

## 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 long-term features and benefits with time, labour and cost savings...

European Standard Classification  
**EN124 B125**



**RSI40** socket

suitable for the installation of all Ø140mm posts including traffic signal posts, lights, signposts...

✓ typical applications

Road closed

### 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-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

### RSI40 socket advantages...

#### RS sockets separate foundation and civil groundwork from post or traffic-signal installation, which means...

- Foundation and street can be finished prior to post, sign, or traffic signal being installed
- Simplifies electrical connection and commissioning
- Additional subcontract work is avoided
- Total installation costs and time are reduced

#### RS socket rotational 90° cable entry bend allows...

- Easy pull-through of electrical cables
  - 360° rotation of cable entry bend\* independent of cable trench, road, or paving layout
- \* (limited - 90° rotation both sides of centre - on some shallow RS socket sizes)

#### RS socket health & safety installation features facilitate...

- Electrical cabling and connections at ground level
- Passive safety post compatibility for vehicle and driver safety
- Safe post installation and lifting policies plus supportive workbench and weight-carrying options





# RSI40 socket



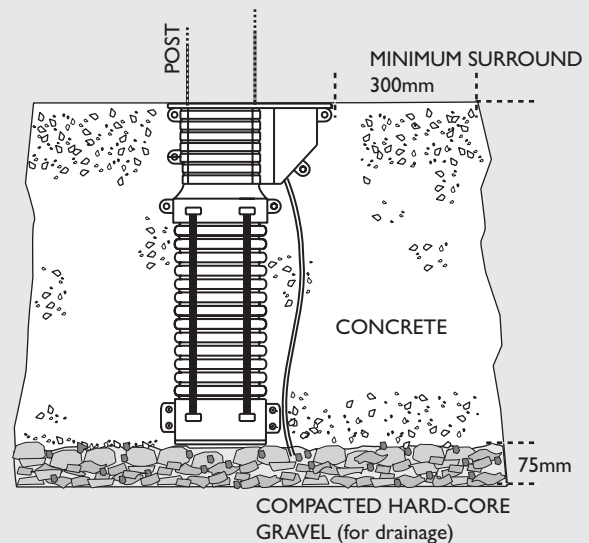
## Recommended Installation INSTRUCTIONS

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

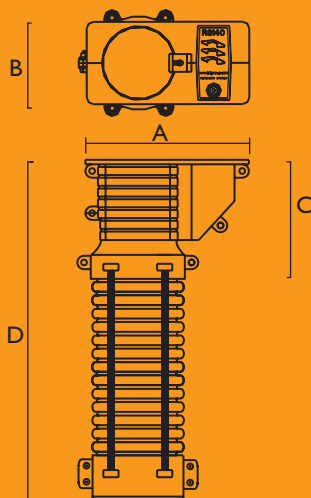
- [1] Prepare hole as shown, at least 75mm deeper than the overall height of the RS socket.
- [2] Compact at least 75mm of hard-core or gravel in base of hole.
- [3] Position RS socket in centre of hole, ensuring there is good clearance on all sides.
- [4] Install a temporary post (stump pole) in the 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.



## RSI40 – Dimensions



Ref No:	Post Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kilos)
RSI40x270	Ø140	365	203	265	270	38.8
RSI40x600	Ø140	365	203	265	600	39
RSI40x1000	Ø140	365	203	265	1000	39.3

## RSI40 – 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:	Polyethylene

## RSI40 – Options

Stump Pole

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

**ipl** group



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



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