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...

• Patented design 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

RS219
RS219 socket for the installation of Ø219mm (8.6in) posts including traffic signals, flag poles, signs, lighting columns...

www.retention-system.com

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

RETENTION SYSTEM™ is a trademark and patented product of IPL group | Innovative Products Ltd:
ISO 9001 / ISO 14001 / OHSAS 18001

IPL group | +353 (0) 41 983 2591
### 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.
4. Leave draw cord in base of **RS socket** bend.
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.

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### RS219 socket for the installation of Ø219mm (8.6in) posts

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<th>Base Type</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C* (mm)</th>
<th>D** (mm)</th>
<th>Weight (kg)</th>
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**Options:**

- **RS socket stump pole**
- RS219x1220 / RS219x1220df / RS219x1220t

**Material Specification:**

- **Head, Plug, Locking Lid:** Cast Steel (EN10340 GS240 Grade)
- **Body:** PE - Polyethylene Twin Wall
- **Flat Base:** Mild Steel
- **Duct Foot Bend:** Ductile Iron (BS2789 500-7)
- **Tee Bend:** Ductile Iron (BS2789 500-7)
- **Setscrews:** M16 A2 Stainless Steel
- **Assembly Screws:** M12 A2 Stainless Steel
- **Finish:** Galvanised

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Further information on the RETENTION SYSTEM sockets for post installation is available at [www.retention-system.com](http://www.retention-system.com). Measurements and weights are approximate. The designs are the property of Innovative Products Ltd (IPL group) and may not be reproduced without express permission. Innovative Products reserve the right to amend specifications or to withdraw models without prior notice. © August 2016.