



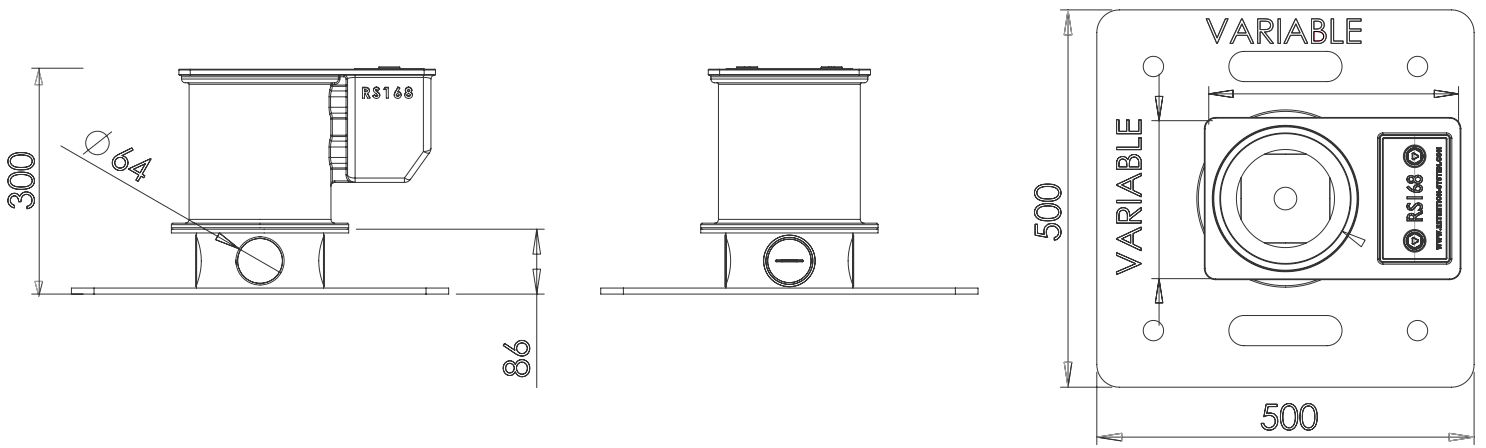
**Applications:** Traffic Signals, Street Lighting, Signage, EV Charging Units, VMS/VAS Signs, CCTV Posts

The NAL Retention Socket with Shallow Foundation Base is a range of galvanised cast steel and ductile iron sockets which securely retain in position all types of illuminated street furniture posts. They are manufactured in a range of sizes and shapes to suit the wide variety of street furniture being installed on the highway today. All posts are secured into the socket by stainless steel setscrews, located in a recessed chamber of the socket head, which locks the post/street furniture in place. The design of the Retention Socket with Shallow Foundation Base allows any post or column to be planted as shallow as 220mm, ensuring any depth restrictions can be overcome. NAL provide foundations for all Retention Sockets to either EN40 or BD94/07.

### Advantages

- ◆ Removes the need for special columns or cranked roots
- ◆ 300mm depth as standard
- ◆ EN40 or BD94/07 foundations calculated by NAL
- ◆ Any height column can be supported
- ◆ Four duct entry points
- ◆ Withstands vehicular impacts removing the need for costly and disruptive excavations, as posts can be replaced in minutes
- ◆ Civil's contracts cannot be delayed by late deliveries of street furniture/posts
- ◆ Retention Sockets are flush with the ground with a pedestrian cover plate allowing civil works to be completed prior to installation of the street furniture
- ◆ Allows contractor to cable the post at ground level, eliminating the working at height and manual handling risks





Please see individual Retention Socket drawings for dimensions and individual specifications. Please refer to the NAL installation guide for correct installation and foundation details.

The Shallow Foundation Retention Socket consists of a Cast Steel or Ductile Iron Head and Locking Lid together with a steel Pressure plate, Pedestrian plate and steel base plate.

**Assembly Screws:** A2 Stainless Steel

**Pressure plate, Pedestrian plate:** Mild Steel, Cast Steel

**Setscrews:** M16 A2 Stainless Steel

**Head, Locking Lid:** Cast Steel or Ductile Iron\*

**Body:** Cast Steel or Ductile Iron\*

**Base:** Galvanised Steel

**\* Varies on socket size**

## Purchase Specification

The socket head shall be constructed of cast steel to ISO 3755 230-450 or Ductile Iron to BS2789 500-7, galvanised on all internal and external surfaces. The socket shall be capable of withstanding impact forces from vehicle impact to steel posts with wall thickness up to 6mm. All assembly screws shall be M12 A2 stainless steel. It shall contain two M16 A2 stainless steel lateral fixing setscrews inside a locking chamber. This locking chamber shall be covered with a locking lid, EN124-B125 load rated fitted with RS worm lock. The socket shall have a galvanised steel base. The socket shall contain a steel protective pressure plate. All operating components shall be serviceable on site. NAL calculate foundations to EN40 or BD94/07 for all Retention Sockets. ST4 Concrete and A393 mesh must be used for all installations of Shallow Foundation Retention Sockets.

RS Size	Pole Size	Depths	Shallow Foundation
RS48	48.3mm	OD	160
		PPD	155
RS50	50.1mm	OD	160
		PPD	155
RS50x50	50x50mm	OD	135
		PPD	130
RS50x60	50x60mm	OD	135
		PPD	130
RS60	60.3	OD	300
		PPD	220
RS76	76.1mm	OD	300
		PPD	220
RS80x40	80x40mm	OD	300
		PPD	220
RS89	88.9mm	OD	300
		PPD	220
RS100x50	100x50mm	OD	300
		PPD	220
RS100x60	100x60mm	OD	300
		PPD	220
RS100x100	100x100mm	OD	300
		PPD	220
RS115	114.3mm	OD	218
		PPD	210
RS120x60	120x60mm	OD	300
		PPD	220
RS120x80	120x80mm	OD	300
		PPD	220
RS120x120	120x120mm	OD	300
		PPD	220
RS140	139.7mm	OD	300
		PPD	220
RS145 (alu)	145mm	OD	300
		PPD	220

RS Size	Pole Size	Depths	Shallow Foundation
RS150x80	150x80mm	OD	300
		PPD	220
RS150x150	150x150mm	OD	300
		PPD	220
RS168 (alu) with reducer plate	165mm	OD	300
		PPD	220
RS168	168.3mm	OD	300
		PPD	220
RS177 (alu)	177mm	OD	300
		PPD	220
RS185x185	185x185mm	OD	300
		PPD	220
RS194	193.7mm	OD	300
		PPD	220
RS200 (alu)	200mm	OD	300
		PPD	220
RS200x100	200x100mm	OD	300
		PPD	220
RS219	219.1mm	OD	300
		PPD	220
RS226 (alu)	226mm	OD	300
		PPD	220
RS245	244.5	OD	400
		PPD	312
RS250 (alu)	250mm	OD	400
		PPD	312
RS250x150	250x150mm	OD	400
		PPD	312
RS265	265mm	OD	400
		PPD	312
RS273	273mm	OD	400
		PPD	312

OD = Overall depth (mm)  
PPD = Pole planting depth (mm)



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