



# Retention Sockets

Non-illuminated



## Applications:

**Signage, Bollards, Guardrail, Seating,  
Litter Bins, Solar Signs, Flag Poles,  
Bus Stops / Shelters, Playground Equipment**

NAL Retention Sockets with flat bases are a range of galvanised cast steel and ductile iron sockets which securely retain in position all types of non-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 in the socket head, which locks the post/street furniture in place.

## Advantages

- ◇ Can be easily shortened on site to overcome planting depth issues
- ◇ Withstands all vehicle impacts and eliminates the need for costly and disruptive excavations after knockdowns, as posts can be replaced in minutes
- ◇ Allows simple removal of seasonal sites, temporary sites and wide load routes
- ◇ 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 easy orientation of installed furniture by authorised personnel
- ◇ Enables permanent street furniture to be removed for routine maintenance
- ◇ Simplifies future change and upgrades
- ◇ Life time foundation warranty



A CRH COMPANY

---

## Purchase Specification

The socket head shall be constructed of cast steel or ductile iron 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 one or two M16 A2 stainless steel lateral fixing setscrews inside a locking chamber.

Posts must be positively secured into the Retention Sockets and be able to withstand a turning moment of 3.4kNm through a load of 230kg @ 1.5metre from the centre of post without any rotation.

This locking chamber shall be covered with a locking lid, EN124- B125 load rated fitted with RS worm lock. The socket shall have a steel flat base. The socket shall contain a mild steel protective pressure plate. All operating components shall be serviceable on site.

---

The Non-illuminated Retention Socket consists of a cast steel or ductile iron head and locking lid, pedestrian plate and flat base. \* **Varies on socket size**

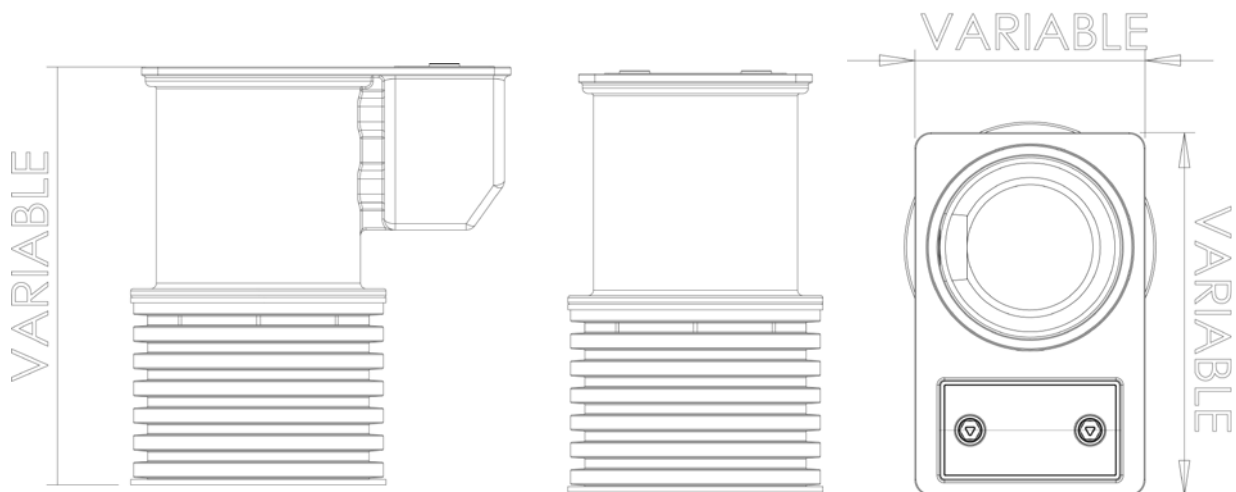
**Assembly screws:** a2 stainless steel

**Pressure plate, pedestrian plate:** stainless or mild steel\*\*

**Setscrews:** m16 a2 stainless steel

**Head, locking lid:** ductile iron or cast steel\*

**Body:** polypropylene or ductile iron\*



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



A CRH COMPANY

Standard Retention Socket Sizes		OD = Overall depth (mm) PPD = Pole planting depth (mm)					
RS size	Pole size	Depths	Non-illuminated				
RS48	48.3mm	OD	336				
		PPD	330				
RS50	50.1mm	OD	336				
		PPD	330				
RS50x50	50x50mm	OD	336				
		PPD	330				
RS50x60	50x60mm	OD	336				
		PPD	330				
RS60	60.3mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS76	76.1mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS80x40	80x40mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS89	88.9mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS100x50	100x50mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS100x60	100x60mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS100x100	100x100mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS115	114.3mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS120x60	120x60mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS120x80	120x80mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS120x120	120x120mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS140	139.7mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS145(alu)	145mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS150x80	150x80mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS150x150	150x150mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS168 (alu with reducer plate)	165mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890



Standard Retention Socket Sizes		OD = Overall depth (mm) PPD = Pole planting depth (mm)					
RS size	Pole size	Depths		Non-illuminated			
RS168	168.3mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS177 (alu)	177mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS185x185	185x185mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS194	193.7mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS200 (alu)	200mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS200x100	200x100mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS219	219.1mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS226 (alu)	226mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS245	244.5mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS250 (alu)	250mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS250x150	250x150mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS265	265mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS273	273mm	OD	300	450	600	750	900
		PPD	290	440	590	740	890
RS280	280mm	OD		450	600	750	900
		PPD		440	590	740	890
RS300	300mm	OD		450	600	750	900
		PPD		440	590	740	890
RS324	323.9mm	OD		450	600	750	900
		PPD		440	590	740	890
RS406	406mm	OD	1200				
		PPD	1190				



A CRH COMPANY

T: +44 (0)1905 427100  
F: +44 (0)1905 427030  
E: sales@nal.ltd.uk  
W: www.nal.ltd.uk

NAL Ltd  
Weir Lane  
Worcester  
WR2 4AY