Retention Sockets

Shallow foundation

Applications: traffic signals, street lighting, ev charging, signage, vms/vas signs, cctv posts

The NAL retention socket with shallow foundation base is designed for the secure retention of all types of illuminated street furniture posts. Manufactured from galvanised cast steel and ductile iron, its innovative design enables installation at depths as shallow as 220mm, overcoming site depth restrictions.

Key features

- Accommodates any post or column height
- Four duct entry points for flexible cable management
- Can be installed as shallow as 220mm depth
- Stainless steel setscrews for secure retention

Advantages

- Eliminates the need for special columns or cranked roots
- 300mm depth as standard
- Foundation design to EN40 or BD94/07 calculated by NAL
- Withstands vehicular impacts for rapid, non-invasive post replacement
- Decouples civil works from street furniture delivery, avoiding project delays
- Flush-to-ground design with pedestrian cover enables early completion of civil works
- Enables ground-level cabling, reducing working-at-height and manual handling risks

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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**

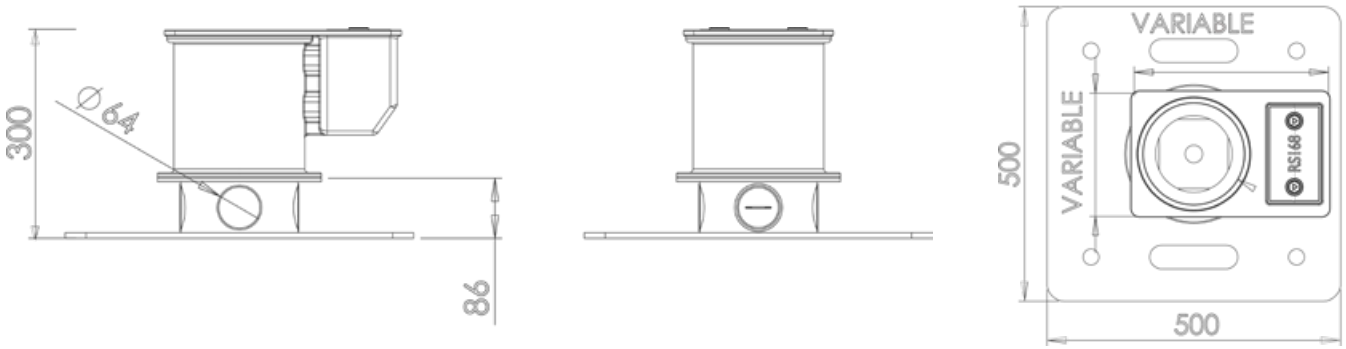
Assembly screws: a2 stainless steel

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.
Refer to the NAL installation guide for correct installation and foundation details.

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Standard Retention Socket Sizes		OD = Overall depth (mm) PPD = Pole planting depth (mm)	
RS size	**Pole size**	**Depths**	**Shallow Foundation**
RS48	48.3mm	OD	160
		PPD	155
RS50	50.1mm	OD	160
		PPD	155
RS50x50	50x50mm	OD	160
		PPD	155
RS50x60	50x60mm	OD	160
		PPD	155
RS60	60.3mm	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
RS100x100	100x100mm	OD	300
		PPD	220
RS115	114.3mm	OD	218
		PPD	210
RS120x60	120x60mm	OD	300
		PPD	220
RS140	139.7mm	OD	300
		PPD	220
RS145(alu)	145mm	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
RS194	193.7mm	OD	300
		PPD	220
RS200 (alu)	200mm	OD	300
		PPD	220

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Standard Retention Socket Sizes		OD = Overall depth (mm) PPD = Pole planting depth (mm)	
RS size	**Pole size**	**Depths**	**Shallow Foundation**
RS200x100	200x100mm	OD	300
		PPD	220
RS219	219.1mm	OD	300
		PPD	220
RS226 (alu)	226mm	OD	300
		PPD	220
RS245	244.5mm	OD	400
		PPD	312
RS250 (alu)	250mm	OD	400
		PPD	312
RS273	273mm	OD	400
		PPD	312

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