



### Applications: Signage, Street Furniture, Traffic Signals, Street Lighting

The NAL Precast Retention Socket System is designed to allow the rapid installation of foundations for all types of illuminated and non-illuminated street furniture. Retention Sockets cast centrally within the foundation securely retain in position the furniture in position. The system is designed to suit the specific furniture being installed, the ground conditions on site, and the site location. Manufactured with certified lifting points enables the system to be lifted simply and safely into position.

Once installed it can be levelled, ducting can be connected and the entire unit can backfilled with as dug compactable material drastically reducing the construction time on site. The system eliminates the requirement for wet trade on site and is ideal for projects with strict time constraints. The precast system enables civils and furniture installations to be carried out on the same working shift. Alternatively it enables the civils works to be installed in advance of the furniture installation.

### Advantages

- ◆ Reduces construction time
- ◆ Foundations designed to EN40
- ◆ No requirement for concrete on site
- ◆ Certified lifting points
- ◆ Street furniture can be installed immediately or at a later date
- ◆ Withstands unlimited vehicle impacts
- ◆ Allows simple future change
- ◆ 99 year life expectancy
- ◆ Reducing inserts enable multi use



## Purchase Specification

Precast foundations must be designed to EN40 or BD94/07 to suit the post and furniture being installed. Supporting calculations must be supplied by the manufacturing organisation.

All foundations to be of C40/C50 compressive strength.

Precast foundations must be supplied with removable lifting points which conform and are certified to the requirements of the lifting equipment regulations 1998, S12307 and the supply of machinery regulations.

Foundations must clearly display their Safe Working Load (SWL).

Precast foundations must have a centrally located Retention Socket to suit the furniture being installed into it.

Retention Sockets must be constructed from cast steel to GS240 or ductile iron to BS2789 500-7.

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 @ 1.5metres from the centre of the post without any rotation.

Retention Sockets must be capable of withstanding high speed vehicle impact forces to steel posts with a wall thickness of 6mm. A valid impact test must result in a post deflection greater than 30 degrees. All sockets must be impact tested. Test data and independent certification must be available to substantiate claims for sockets and foundations.

Securing mechanism of the sockets to the post must not damage the coating or galvanized surface of the post.

All fixings which secure posts in place must be housed below ground ensuring no risk of damage, vandalism or theft.

Retention sockets must be supplied with Pedestrian plugs to ensure the post aperture is kept free from debris when not in use.

Precast foundations for illuminated posts must be supplied with bottom cable entry which enables the cables to feed through the base of the post.

All operating components must be serviceable on site without removing the socket.

All Retention Sockets must be provided to the above specification by NAL Ltd or any equally approved manufacturer.

