

CAST IRON PLUG

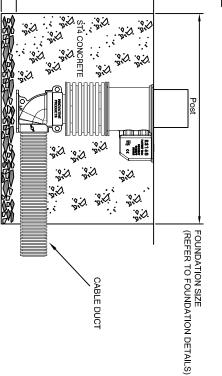
NOTES

RETENTION SOCKETS MUST BE CAPABLE OF WITHSTANDING HIGH SPEED VEHICLE IMPACT FORCES TO STEEL POSTS WITH A WALL THICKNESS OF 6mm. RETENTION SOCKETS MUST BE ABLE TO WITHSTAND IMPACT WITHOUT ANY STRUCTURAL SURROUND TO THE TOP 80mm OF THE UNIT.

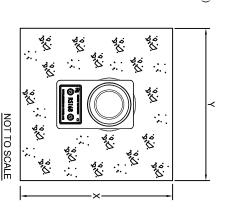
RETENTION SOCKETS TOPS MUST BE CONSTRUCTED FROM CAST STEEL TO GS240 OR DUCTILE IRON TO BS2789 500-7

MOT TYPE 1 GRANULAR MATERIAL (FOR DRAINAGE)

DUCTILE IRON 'DUCKFOOT' BEND (360° ROTATION)



FOUNDATION DETAIL



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ALL OPERATING COMPONENTS MUST BE SERVICEABLE ON SITE WITHOUT EXCAVATING THE SOCKET.

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THE RETENTION SOCKET MUST BE CAPABLE OF BEING INSTALLED IN AREAS OF GRADED SURFACES SUCH AS THOSE AT PEDESTRIAN CROSSING WHILE THE INSTALLED POLE IS

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RETENTION SOCKETS INSTALLED IN LOOSE GROUND CONDITIONS SHALL REQUIRE 2 LAYERS OF A393 MESH.

RETENTION SOCKETS MUST BE SUPPLIED WITH A BOTTOM ENTRY BEND THAT CAN SWIVEL 360 DEGREES. THE BEND MUST HAVE THE ABILITY TO UTILISE THE FULL BORE 100mm DIAMETERS FOR EASY CABLE ENTRY. THE BEND MUST BE COMPACT, ALLOWING THE POST TO REST NO FURTHER THAN

150mm ABOVE THE FOUNDATION BASE. DUCTS MUST BE ABLE TO BE INSERTED A MIN OF 75mm INTO THE BEND AND BE MECHANICALLY FIXED TO ENSURE NO DISPLACEMENT OCCURS

RETENTION SOCKETS MUST HAVE THE ABILITY TO BE REDUCED IN DEPTH ON SITE EASILY TO A MIN OF $600 \mathrm{mm}$.

RETENTION SOCKET PEDESTRIAN PLUGS MUST BE TESTED TO EN124 - B125 (12.5 TONNE) LOADING.

ALL FIXINGS WHICH SECURE POSTS IN PLACE MUST BE HOUSED BELOW GROUND ENSURING NO RISK OF DAMAGE, VANDALISM

OR THEFT.

SECURING MECHANISM OF SOCKETS TO POST MUST NOT

DAMAGE THE COATING OR GALVANISED SURFACE OF THE POST.

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 @ 1.5 METRE FROM THE CENTRE OF POST WITHOUT ANY ROTATION.

ALL SOCKETS MUST BE IMPACT TESTED BY AN INDEPENDENT CERTIFIED TEST CENTRE AND MUST BE IMPACT TESTED WITH A MIN 6mm STEEL POST AT 50kph. TEST DATA AND INDEPENDENT CERTIFICATION MUST BE AVAILABLE TO SUBSTANTIATE CLAIMS FOR SOCKETS AND FOUNDATIONS.

RETENTION SOCKET FOUNDATION DETAILS

SOLID GROUND (Cat IV, WIND 26m/s)

RS168	SOCKET SIZE	RETENTION	RETENTION
10m	CALCULATED	POST HEIGHT	RETENTION SOCKET DEPTH
1370 x 1370	Х Ү	FOC	600mm
1300 x 1300	X	FOUNDATION WIDTH (mm)	750mm
1250 x 1250	X	mm)	900mm
250mm	PAD	CONCRETE	MINIMUM

LOOSE GROUND (Cat II, WIND 26m/s)

RS168	SOCKET SIZE	RETENTION	RETENTION
10m	CALCULATED	POST HEIGHT	RETENTION SOCKET DEPTH
*1710 x 1710	А Х	FOL	600mm
*1620 x 1620	ΥΥ	FOUNDATION WIDTH (mm)	750mm
*1560x 1560	, х		900mm
250mm	PAD	CONCRETE	MINIMUM

2 LAYERS OF A393 MESH TO BE USED FOR ALL INSTALLATIONS IN LOOSE GROUND

Date Auth d

10/15 ΑВ В

RETENTION SOCKET DETAIL

RS168 'DUCKFOOT BEND'

Chd

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Title:	Drawn: RPF
Standard Detail File Ref.: 05796.43	Rev. No.:

Trent Bridge House, Fox Road, West Bridgford, Nottingham, NG2 6BJ **Tel:** 0300 500 80 80

Drawing No

Scale @ A3: SLN

ESD 6/43

Nottinghamshire County Council

RETENTION SOCKETS SUPPLIED MUST HAVE AN ASSOCIATED LIFTING MECHANISM WHICH ENABLES TRAFFIC SIGNAL POLES TO BE LIFTED AND LOWERED IN AND OUT OF THE RETENTION SOCKET. THIS MUST BE OPERATED WITHOUT THE

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ALL RETENTION SOCKETS MUST BE PROVIDED TO THE ABOVE SPECIFICATION BY NAL LTD, OR ANY EQUALLY APPROVED

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SUPPLIERS OF RETENTION SOCKETS MUST BE ABLE TO SUPPLY EN40 & BD94/07 FOUNDATION DESIGN CALCULATIONS FOR ALL

SIZES AND DEPTHS OF RETENTION SOCKETS SUPPLIED.