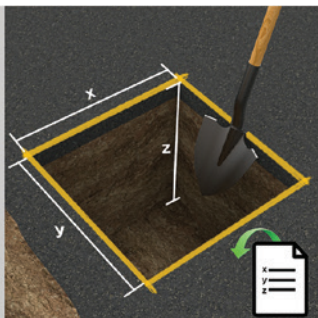


CIVILS INSTALLATION OF NAL RETENTION SOCKETS

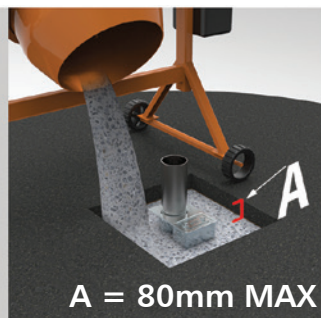
1

Excavate as per table on pages 2 and 3.



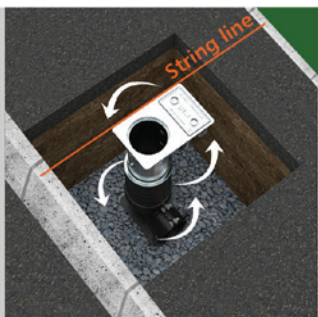
5

Surround with ST4 or C20 minimum strength wet concrete and compact.



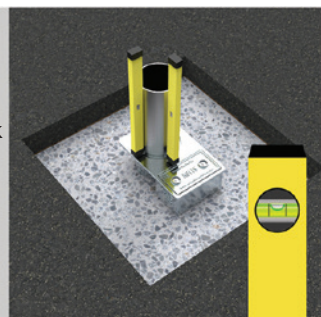
2

Insert socket, orientate top and bottom to suit. Set finished level with string line.



6

Using levelling pole, check vertical alignment.



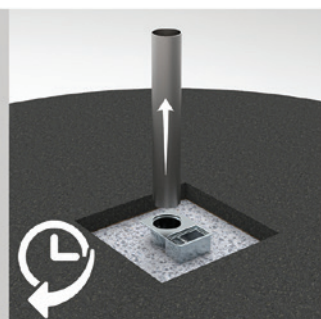
3

If required, connect ducting and insert draw cord.



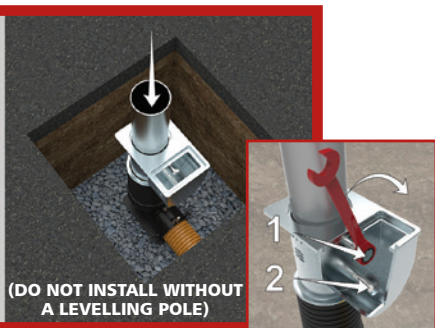
7

Remove levelling pole once concrete is set.



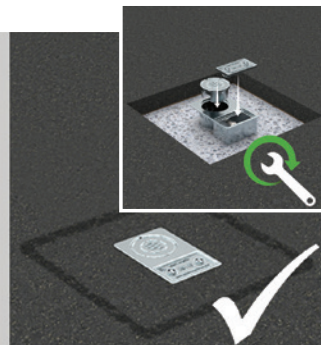
4

Insert and tighten levelling pole with bolts in the side chamber of socket.



8

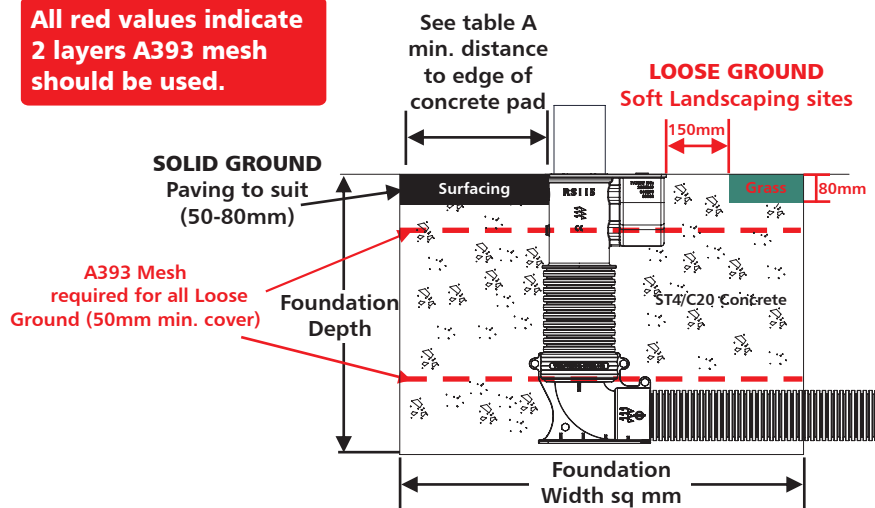
Replace pedestrian and side access covers. Re-instate finished surfacing.



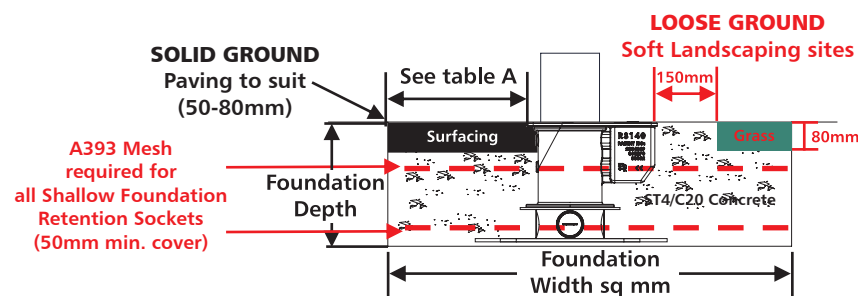
RETENTION SOCKET FOUNDATION DETAILS

Retention Socket with Duckfoot Bend

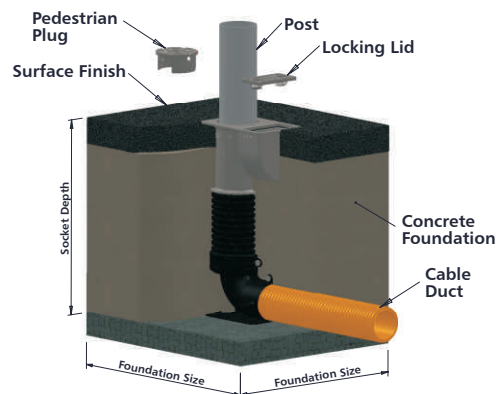
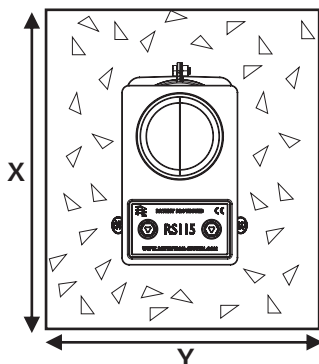
All red values indicate 2 layers A393 mesh should be used.



Retention Socket with Shallow Foundation Base



For technical enquiries - Tel: 01905 427100 or Email: sales@nal.ltd.uk



Solid Ground (Cat IV, Wind 26m/s) - Retention Socket Foundation Details

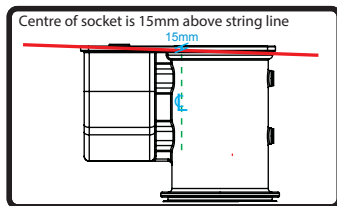
Retention Socket Depth		300mm		450mm		600mm		750mm		900mm		Table A
Retention Socket Size	Post Height Calculated	Foundation Width mm										
		X	Y	X	Y	X	Y	X	Y	X	Y	
RS48/50X50/50x60	Guardrail	450 x 450		-		-		-		-		150mm
RS60/RS76	4m	750 x 750		670 x 670		630 x 630		610 x 610		-		200mm
RS89	5m	920 x 920		800 x 800		740 x 740		700 x 700		670 x 670		200mm
RS115	6m	1200 x 1200		1000 x 1000		850 x 850		750 x 750		680 x 680		250mm
RS140/RS145	8m	1410 x 1410		-		1080 x 1080		1030 x 1030		990 x 990		250mm
RS165/168/177	10m	1700 x 1700		-		1370 x 1370		1300 x 1300		1250 x 1250		250mm
RS194/RS202	12m	2040 x 2040		-		1640 x 1640		1550 x 1550		1500 x 1500		300mm
RS219/RS226	12m	2130 x 2130		-		1710 x 1710		1620 x 1620		1570 x 1570		300mm
RS245	12m	2210 x 2210		-		1750 x 1750		1680 x 1680		1610 x 1610		300mm

Loose Ground (Cat II, Wind 26m/s) - Retention Socket Foundation Details

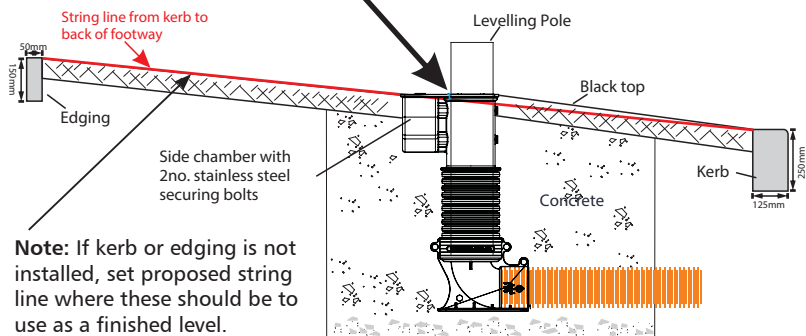
Retention Socket Depth		300mm		450mm		600mm		750mm		900mm		Table A
Retention Socket Size	Post Height Calculated	Foundation Width mm										
		X	Y	X	Y	X	Y	X	Y	X	Y	
RS48/50X50/50x60	Guardrail	650 x 650		-		-		-		-		150mm
RS60/RS76	4m	1070 x 1070		940 x 940		870 x 870		850 x 850		-		200mm
RS89	5m	1250 x 1250		1120 x 1120		1040 x 1040		990 x 990		960 x 960		200mm
RS115	6m	1600 x 1600		1400 x 1400		1200 x 1200		1100 x 1100		1040 x 1040		250mm
RS140/RS145	8m	1860 x 1860		-		1370 x 1370		1300 x 1300		1260 x 1260		250mm
RS165/168/177	10m	2130 x 2130		-		1710 x 1710		1620 x 1620		1560 x 1560		250mm
RS194/RS202	12m	2510 x 2510		-		2010 x 2010		1900 x 1900		1830 x 1830		300mm
RS219/RS226	12m	2630 x 2630		-		2100 x 2100		1990 x 1990		1920 x 1920		300mm
RS245	12m	2730 x 2730		-		2230 x 2230		2040 x 2040		1980 x 1980		300mm

Foundation calculations designed to EN40, wind speed 26m/s and max post height indicated. Lighting columns with post top lantern. Other EN40 variables and BD94/07 calculations available on request.

RECOMMENDED INSTALLATION FOR SLOPING SURFACES



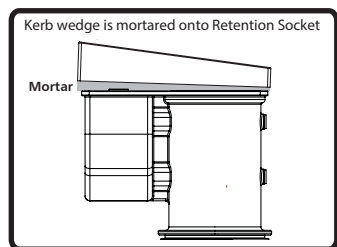
Retention Socket in tapered flexible paving (tarmac) without kerb wedge



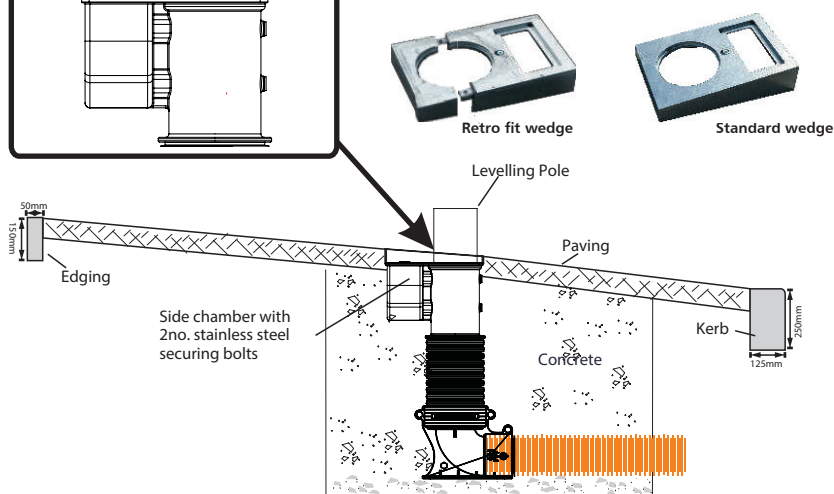
Black top installation without kerb wedge



Block paviour using drop kerb wedge



Retention Socket in tapered paving with kerb wedge



Grass verge installation



NAL Ltd, Weir Lane
Worcester WR2 4AY
Tel: +44 (0)1905 427100
Fax: +44 (0)1905 427030
Email: sales@nal.ltd.uk

