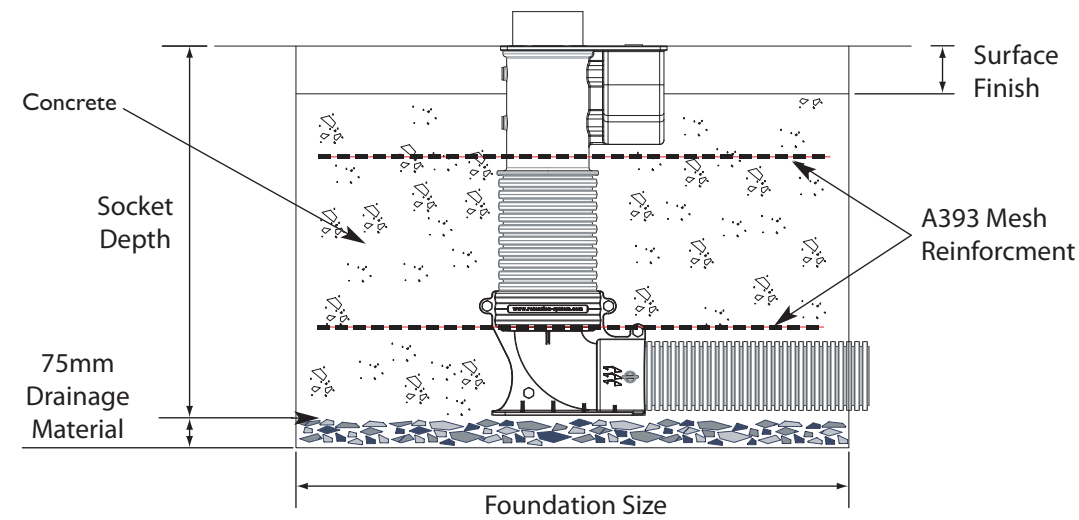


# foundation guide



RETENTION SYSTEM™ IPL group.  
Foundation sizes shown here are based on loadings calculated using EN40-3-1:2000 and are guidelines only. For more detailed foundation sizing on specific site conditions contact your supplier. All dimensions in Red require two layers of A393 mesh reinforcement.

rs socket depth		300	450	600	740	900	1200
rs socket size	post height	foundation size (mm)					
RS76	4m	750x750	650x650	610x610	-	-	-
RS89	6m	1050x1050	910x910	850x850	810x810	790x790	-
RS115	6m	1130x1130	990x990	920x920	880x880	850x850	-
RS140	8m	1480x1480	1300x1300	1200x1200	1140x1140	1110x1110	-
RS145	8m	1500x1500	1310x1310	1220x1220	1160x1160	1120x1120	-
RS168	10m	1850x1850	1610x1610	1490x1490	1410x1410	1370x1370	-
RS177	10m	1880x1880	1640x1640	1510x1510	1440x1440	1390x1390	-
RSe193	12m	2200x2200	1920x1920	1770x1770	1680x1680	1620x1620	1560x1560
RSe200	12m	2230x2230	1940x1940	1790x1790	1690x1690	1630x1630	1570x1570
RS219	12m	2290x2290	2000x2000	1840x1840	1740x1740	1680x1680	1620x1620
RSe226	12m	2320x2320	2020x2020	1860x1860	1760x1760	1700x1700	1640x1640
RSe245	14m	2650x2650	2300x2300	2120x2120	2010x2010	1940x1940	1860x1860
RSe250	14m	2660x2660	2320x2320	2130x2130	2020x2020	1950x1950	1870x1870

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For more information see website:  
[www.retention-system.com](http://www.retention-system.com)

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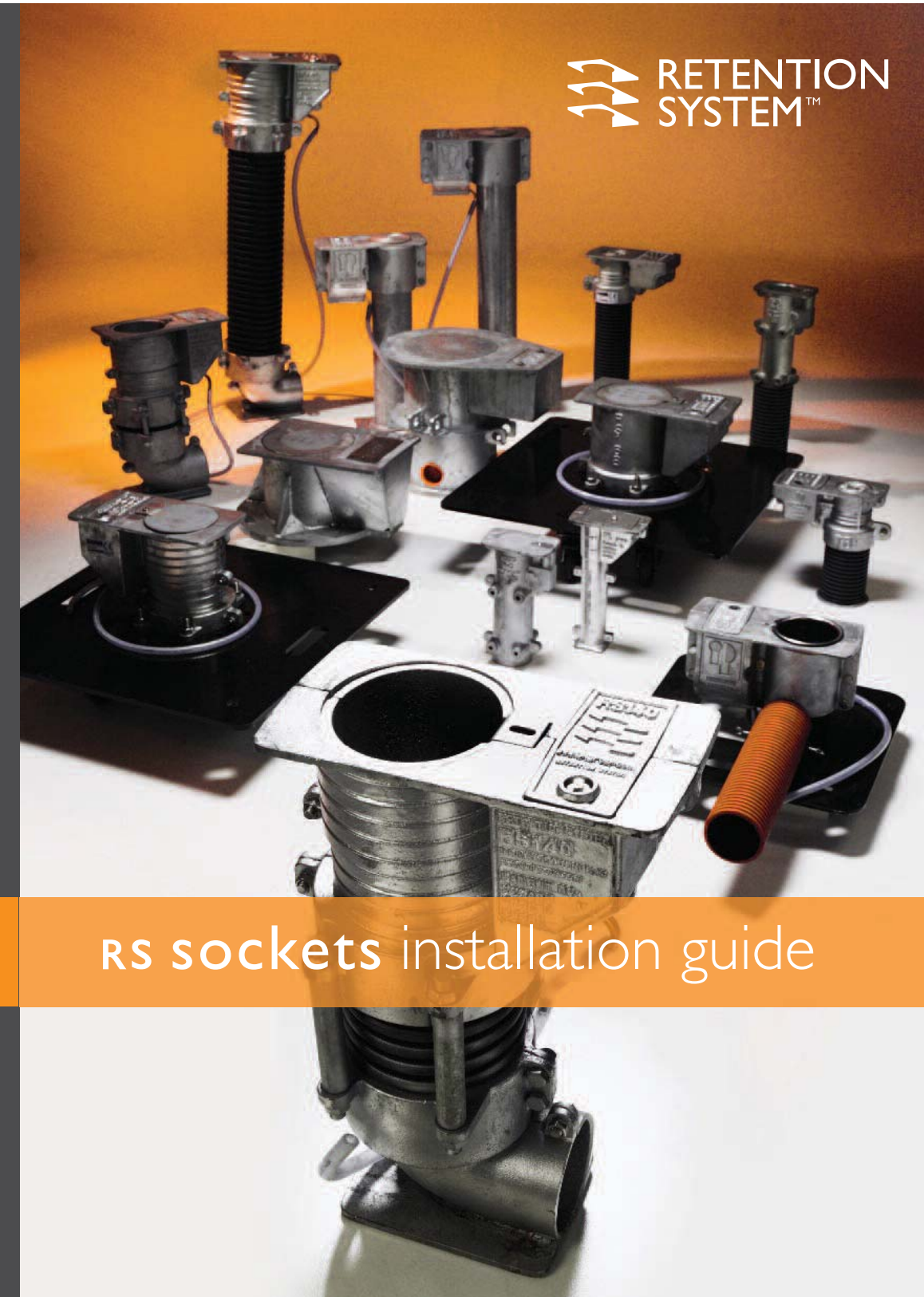
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RETENTION SYSTEM™ and RS sockets are patented products of IPL group.

[www.retention-system.com](http://www.retention-system.com)



rs sockets installation guide





RETENTION SYSTEM™

## installation guide

1



Prepare hole at least 75mm deeper than the overall height of the RS socket. If depth for RS socket cannot be achieved, unit can be shortened on site. Please contact your supplier for technical support.

2



Compact at least 75mm of MOT type I granular material in base of hole.

3



Position RS socket in centre of hole. For cabled installations connect ducting from remote chamber to swivel bend on RS socket and tighten wing bolts. Leave draw cord in base of RS socket.

4



Rotate the RS socket head into the required orientation. Remove locking lid, loosen the two M16 locking set-screws and remove the pedestrian plug.

5

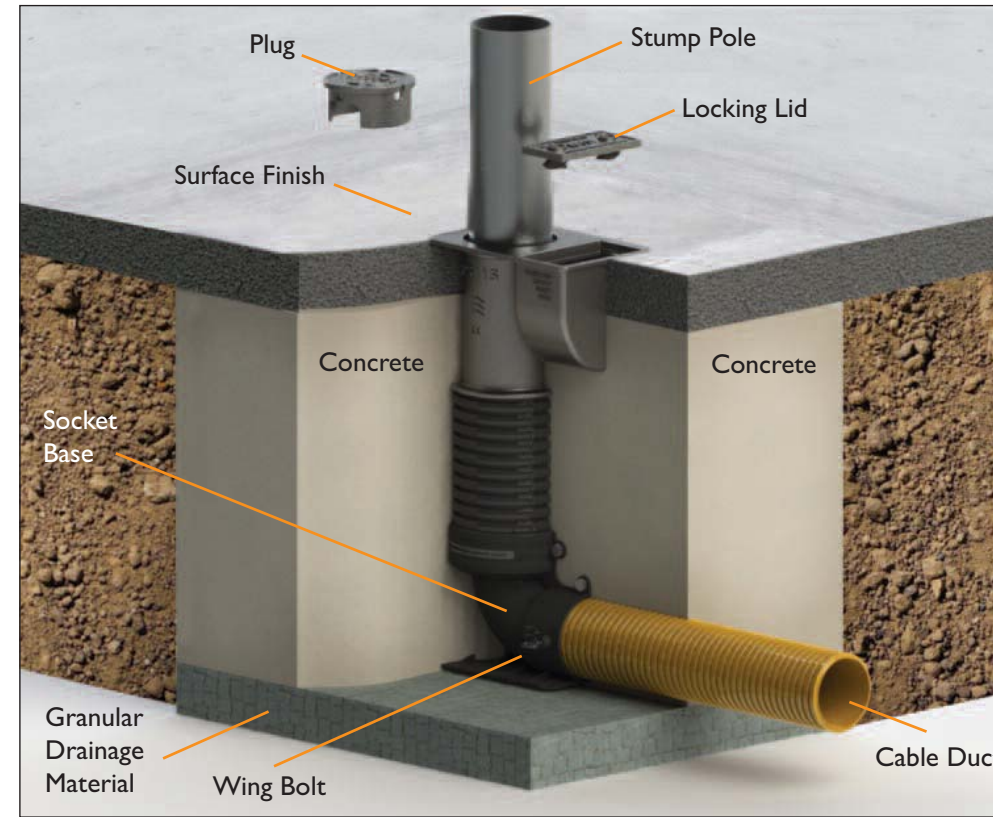


Install a levelling post (stump pole) in the RS socket, fasten the locking set-screws and replace the locking chamber lid.

6



Surround with the required amount of concrete (ST4 mix or stronger). See foundation sizes overleaf.



7



Use stump pole to achieve a vertical level.

8



Once vertical level is achieved, compact concrete. Once concrete has been compacted and has begun to cure, carefully remove stump pole and lock the pedestrian plug in place.

9



Replace the locking chamber lid and secure in position. Finish footway with required surface when concrete has cured.

## removal of damaged post

1



Open the locking lid and remove the plug from the locking chamber.

2



Loosen the locking set screws and remove damaged post. Replace damaged post with plug.

3



Tighten plug in place using the locking set screws. Replace locking lid.

## installation of new post

1



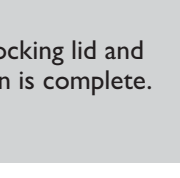
Remove locking lid. Loosen locking set screws. Using screwdriver remove plug.

2



Install new post and tighten in place using the locking set screws. Place plug in locking chamber.

3



Replace locking lid and installation is complete.