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Performance of Windposts to Eurocode 3

Height	Design Resistance (kN) per Post (uniformly distributed) for Various Windpost Spans										
	2.1 m	2.3 m	2.5 m	2.7 m	2.9 m	3 m	3.2 m	3.4 m	3.6 m	3.8 m	4 m
Standard wind post											
90x90x3.6 SHS S355	13.61	14.90	15.95	13.65	11.76	11.07	9.73	8.62	7.65	6.90	6.19
90x90x6.3 SHS S355	13.61	14.90	16.20	17.50	18.42	17.33	15.24	13.49	11.99	10.81	9.70
Special Order											
90x90x8 SHS S355	13.61	14.90	16.20	17.50	18.79	19.44	17.94	15.88	14.11	12.72	11.42
100x100x10 SHS S355	13.61	14.90	16.20	17.50	18.79	19.44	20.74	22.03	23.24	20.96	18.81

Note: Table based on tie spacing of 225mm. Figures in bold indicate capacity limited by tie capacity.

Windposts are designed as 'simply supported beams' with a maximum deflection of span/360.

Maximum design loads to BS EN 1993 (Eurocode 3). The design resistances shown should be compared to factored loads.

Windposts comply with all CE marking requirements of BS EN 1090-1, including designs to EN 1993 (Eurocode 3) and external certification of our factory production controls by an approved body.

