

TELECOMMUNICATION TOWERS			TYPE OF TERRAIN		
TOTAL HEIGHT "H	WIDTH "W" (m)	Soil "K" (daN/cm <sup>3</sup> )	8	12	16
12 m	1,25	Depth "h" (m)	1,89	1,70	1,58
		Excavation volume (m <sup>3</sup> )	2,95	2,66	2,48
		Clear height "FH" (m)	10,96	10,45	10,57
14m	1,25	Depth "h" (m)	1,98	1,79	1,66
		Excavation volume (m <sup>3</sup> )	3,10	2,79	2,60
		Clear height "FH" (m)	12,17	12,36	12,49
16m	1,25	Depth "h" (m)	2,07	1,87	1,74
		Excavation volume (m <sup>3</sup> )	3,23	2,92	2,71
		Clear height "FH" (m)	14,08	14,28	14,41
18m	1,25	Depth "h" (m)	2,15	1,94	1,80
		Excavation volume (m <sup>3</sup> )	3,35	3,03	2,82
		Clear height "FH" (m)	16,00	16,21	16,35
20m	1,25	Depth "h" (m)	2,22	2,01	1,87
		Excavation volume (m <sup>3</sup> )	3,47	3,13	2,92
		Clear height "FH" (m)	17,93	18,14	18,28
22m	1,25	Depth "h" (m)	2,29	2,07	1,93
		Excavation volume (m <sup>3</sup> )	3,58	3,23	3,01
		Clear height "FH" (m)	19,86	20,08	20,22
24m	1,25	Depth "h" (m)	2,36	2,13	1,98
		Excavation volume (m <sup>3</sup> )	3,69	3,33	3,10
		Clear height "FH" (m)	21,79	22,02	22,17
26m	1,25	Depth "h" (m)	2,43	2,19	2,04
		Excavation volume (m <sup>3</sup> )	3,79	3,42	3,18
		Clear height "FH" (m)	23,72	23,96	24,11
28m	1,25	Depth "h" (m)	2,49	2,25	2,09
		Excavation volume (m <sup>3</sup> )	3,89	3,51	3,27
		Clear height "FH" (m)	25,66	25,90	26,06
30m	1,25	Depth "h" (m)	2,55	2,30	2,14
		Excavation volume (m <sup>3</sup> )	3,98	3,60	3,35
		Clear height "FH" (m)	27,60	27,85	28,01
32m	1,25	Depth "h" (m)	2,61	2,36	2,19
		Excavation volume (m <sup>3</sup> )	4,08	3,68	3,43
		Clear height "FH" (m)	29,54	29,79	29,96
34m	1,25	Depth "h" (m)	2,67	2,41	2,24
		Excavation volume (m <sup>3</sup> )	4,17	3,76	3,50
		Clear height "FH" (m)	31,48	31,74	31,91
36m	1,25	Depth "h" (m)	2,72	2,46	2,29
		Excavation volume (m <sup>3</sup> )	4,26	3,84	3,58
		Clear height "FH" (m)	33,43	33,69	33,86
38m	1,25	Depth "h" (m)	2,78	2,51	2,34
		Excavation volume (m <sup>3</sup> )	4,34	3,92	3,65
		Clear height "FH" (m)	35,37	35,64	35,81

**Note:** For guidance purposes, the following table includes data on monoblock type dimensions required for these metallic supports, depending on the height (H) and the average compressibility coefficient of the soil at two meters depth (K). However, the adoption of one or the other value must be determined for each case and in view of the actual ground conditions and the expected stress for the tower.

To determine the values of the foundation dimensions for each type of **soil**, the Sultzberger equation has been used for soils with a coefficient of compressibility of  $K=8 \text{ kg/cm}^2$ ,  $K=12 \text{ kg/cm}^2$  and  $K=16 \text{ kg/cm}^2$ .

**These dimensions are given for information purposes only, being the responsibility of the site management the calculation and correct execution of the foundations.**