

SWAGED TYPE STEEL TUBULAR POLES AS PER IS:2713/80

Designation	Overall Length L (m)	Planting Depth (m)	Load Applied from Top at a Distance of (m)	Height Above Ground H (m)	Length of Sections			Outside diameter and Thickness of Sections			Approx Weight of Pole (kg)	Breaking Load (kg)	Crippling Load (kg)	Working Load		Load for Permanent Set not Exceeding 13mm (N/kg)	Load for Temporary Deflection of 157.5mm (N/kg)
					Bottom h ₃ (m)	Middle h ₂ (m)	Top h ₁ (m)	Bottom h ₃ (mm)	Middle h ₂ (mm)	Top h ₁ (mm)				Col 14 2.5 (N/kg)	Col 13 2.5 (N/kg)		
410-SP-1	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	62	2570 (262)	1820 (186)	91212 (93)	1030 (105)	1245 (127)	785 (80)
410-SP-2	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	73	3100 (316)	2240 (224)	1100 (112)	1240 (126)	1510 (154)	941 (96)
410-SP-3	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 5.40	88.9 x 4.65	76.1 x 3.25	85	3630 (370)	2580 (263)	1228 (131)	1450 (148)	1760 (180)	1090 (111)
410-SP-4	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	67	2350 (240)	1670 (170)	1320 (135)	941 (96)	1150 (117)	627 (64)
410-SP-5	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	79	2760 (281)	1990 (200)	981 (100)	1100 (112)	1340 (137)	745 (76)
410-SP-6	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 5.40	88.9 x 4.65	76.1 x 3.25	93	3320 (339)	2360 (241)	1160 (120)	1330 (136)	1620 (166)	873 (89)
410-SP-7	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	97	4330 (442)	3030 (314)	1540 (157)	1740 (177)	2110 (215)	1400 (143)
410-SP-8	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	103	4630 (472)	3280 (335)	1650 (168)	1850 (189)	2250 (229)	1480 (151)
410-SP-9	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	110	5100 (520)	3620 (369)	1810 (185)	2040 (208)	2480 (253)	1600 (163)
410-SP-10	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	70	2260 (230)	1600 (163)	804 (82)	902 (92)	1100 (112)	520 (53)
410-SP-11	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	83	2730 (278)	1930 (197)	971 (99)	1090 (111)	1320 (135)	618 (63)
410-SP-12	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 5.40	88.9 x 4.65	76.1 x 3.25	97	3190 (325)	2270 (231)	1130 (115)	1270 (130)	1550 (158)	725 (74)
410-SP-13	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	101	4180 (424)	2950 (301)	1480 (151)	1670 (170)	2020 (206)	1180 (120)
410-SP-14	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	111	4440 (453)	3180 (322)	1580 (161)	1770 (181)	2160 (220)	1280 (131)
410-SP-15	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	119	4890 (499)	3470 (354)	1740 (177)	1960 (200)	2380 (243)	1350 (140)
410-SP-16	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	75	2090 (213)	1480 (151)	745 (75)	834 (85)	1020 (104)	432 (44)
410-SP-17	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	89	2520 (257)	1790 (182)	893 (91)	1010 (103)	1230 (125)	510 (52)
410-SP-18	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 5.40	88.9 x 4.65	76.1 x 3.25	104	2950 (301)	2100 (214)	1050 (107)	1180 (120)	1430 (146)	586 (61)
410-SP-19	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	109	3844 (392)	2730 (278)	1360 (139)	1540 (157)	1800 (181)	991 (98)
410-SP-20	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	115	4110 (418)	2910 (297)	1460 (149)	1650 (168)	2000 (204)	1100 (113)
410-SP-21	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	129	4530 (462)	3220 (328)	1620 (165)	1810 (185)	2210 (225)	1150 (116)
410-SP-22	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	141	5450 (556)	3870 (396)	1930 (197)	2180 (222)	2650 (270)	1730 (176)
410-SP-23	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	148	5840 (596)	4150 (423)	2080 (212)	2330 (238)	2840 (290)	1820 (186)
410-SP-24	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	158	6450 (658)	4580 (467)	2340 (234)	2570 (263)	3140 (320)	1970 (201)
410-SP-25	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	78	1940 (198)	1380 (141)	666 (70)	775 (79)	941 (96)	333 (34)
410-SP-26	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	92	2340 (239)	1670 (170)	834 (85)	941 (96)	1140 (118)	402 (41)
410-SP-27	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 5.40	88.9 x 4.65	76.1 x 3.25	108	2750 (280)	1950 (199)	971 (99)	1100 (112)	1330 (136)	431 (47)
416-SP-27	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 5.40	88.9 x 4.65	76.1 x 3.25	109	2750 (280)	1950 (199)	971 (99)	1100 (112)	1330 (136)	431 (47)
416-SP-28	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	113	3650 (369)	2540 (259)	1270 (130)	1430 (146)	1740 (177)	745 (76)
416-SP-29	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	125	3820 (390)	2720 (277)	1350 (138)	1530 (156)	1860 (190)	814 (83)
416-SP-30	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	133	4220 (430)	2990 (305)	1500 (153)	1690 (172)	2050 (209)	882 (90)
416-SP-31	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1 x 4.50	114.3 x 3.65	88.9 x 3.25	147	5070 (517)	3600 (367)	1800 (185)	2030 (207)	2460 (251)	1360 (139)
416-SP-32	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65	154	5430 (554)	3850 (393)	1930 (197)	2180 (222)	2640 (269)	1430 (146)
416-SP-33	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65	164	6030 (612)	4270 (435)	2130 (217)	2410 (245)	2910 (297)	1540 (157)
416-SP-34	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	122	3663 (370)	2580 (263)	1280 (131)	1450 (148)	1780 (180)	745 (76)
416-SP-35	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	129	3880 (396)	2760 (281)	1350 (142)	1550 (158)	1880 (192)	784 (80)
416-SP-36	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	137	4280 (438)	3040 (310)	1520 (155)	1710 (174)	2080 (212)	833 (85)
416-SP-37	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1 x 4.50	139.7 x 4.50	114.3 x 3.65	153	5150 (525)	3660 (373)	1820 (186)	2060 (210)	2500 (255)	1300 (133)
416-SP-38	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65	160	5510 (562)	3910 (399)	1960 (200)	2210 (225)	2690 (273)	1370 (140)
416-SP-39	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65	170	6090 (621)	4320 (441)	2160 (220)	2430 (248)	2960 (302)	1480 (151)
416-SP-40	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	128	3360 (345)	2410 (246)	1210 (123)	1350 (138)	1650 (168)	608 (62)
416-SP-41	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	135	3630 (370)	2650 (263)	1280 (131)	1450 (148)	1780 (180)	637 (65)
416-SP-42	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	144	3990 (407)	2830 (285)	1410 (144)	1600 (163)	1940 (198)	677 (69)
416-SP-43	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1 x 4.50	139.7 x 4.50	114.3 x 3.65	160	4810 (490)	3410 (348)	1710 (174)	1920 (196)	2330 (238)	1060 (108)
416-SP-44	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65	168	5150 (525)	3660 (373)	1820 (186)	2060 (210)	2500 (255)	1120 (114)
416-SP-45	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65	178	5690 (580)	4040 (412)	2020 (206)	2280 (232)	2780 (282)	1200 (122)
416-SP-46	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7 x 4.85	165.1 x 4.50	139.7 x 4.50	208	7210 (735)	5120 (522)	2560 (261)	2880 (294)	3500 (357)	1680 (169)
416-SP-47	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7 x 5.40	165.1 x 4.50	139.7 x 4.50	221	7910 (807)	5620 (573)	2800 (286)	3170 (323)	3840 (392)	1890 (203)
416-SP-48	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7 x 5.90	165.1 x 4.50	139.7 x 4.50	233	8620 (879)	6120 (624)	3060 (312)	3450 (352)	4190 (427)	2110 (215)
416-SP-49	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	140	3000 (306)	2130 (217)	1070 (109)	1200 (122)	1480 (149)	412 (42)
416-SP-50	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	147	3210 (327)	2280 (232)	1140 (116)	1280 (131)	1560 (159)	431 (44)
416-SP-51	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	164	3530 (360)	2510 (256)	1280 (128)	1410 (144)	1720 (175)	480 (49)
416-SP-52	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1 x 4.50	139.7 x 4.50	114.3 x 3.65	175	4250 (433)	3010 (307)	1510 (154)	1700 (173)	2060 (210)	726 (74)
416-SP-53	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65	183	4550 (464)	3203 (329)	1620 (165)	1820 (186)	2220 (226)	755 (78)
416-SP-54	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65	194	5030 (513)	3570 (364)	1750 (182)	2010 (205)	2440 (249)	814 (83)
416-SP-55	11.00	1.80	0.60	9.20	5.60	2.70	2.70	193.7 x 4.85	165.1 x 4.50	139.7 x 4.50	227	6370 (650)	4530 (462)	2280 (231)	2550 (260)	3100 (316)	1270 (130)
416-SP-56	11.00	1.80															