

Table of Volume, Size, Weight and Strength for Scots Pine Poles



	Length In Metres	Min Dia. In mm 1.5m From Butt	Top Min Dia. mm	Gefle cu.ft.	Caliper cu. m3	Creo. Weight Kg	Ultimate Load at 0.6m From Top of Pole (Kn)1	Load Per mm Deflection at Point of Application of Load (N)2
LIGHT	6.0	150	125	3.00	0.1099	76	4.39	9.3
	7.0	160	125	4.00	0.1288	108	4.31	6.0
	8.0	170	125	5.00	0.1985	126	4.40	4.8
	8.5	180	125	5.50	0.2149	146	4.81	4.5
	9.0	180	125	6.00	0.2251	168	4.46	3.6
	9.5	185	125	6.75	0.2492	179	4.52	3.1
	10.0	185	125	7.25	0.2699	190	4.25	2.8
	10.5	190	125	8.00	0.2934	203	4.32	2.5
	11.0	195	125	8.50	0.3200	230	4.40	2.3
	11.5	200	125	9.00	0.3613	251	4.48	2.1
	12.0	200	125	9.50	0.3922	272	4.26	1.7
	13.0	210	130	10.50	0.4366	288	4.46	1.6
MEDIUM	8.5	215	150	8.00	0.2919	203	8.20	9.1
	9.0	220	150	9.00	0.3149	217	8.15	7.8
	9.5	225	150	9.75	0.3463	246	8.13	6.8
	10.0	230	150	10.50	0.3599	254	8.15	6.4
	10.5	235	150	11.00	0.3936	261	8.16	5.7
	11.0	240	150	12.50	0.4928	293	8.18	5.0
	11.5	245	150	13.75	0.4624	319	8.21	4.5
	12.0	250	150	15.50	0.4899	345	8.23	4.1
	13.0	260	160	17.00	0.5760	376	8.46	3.7
	14.0	275	160	21.00	0.6434	432	8.98	3.3
	15.0	290	165	24.00	0.7651	532	9.60	3.3
	16.0	305	170	26.50	0.8688	591	10.23	3.1
	17.0	320	180	30.00	0.9951	676	11.07	3.0
	18.0	330	180	35.00	1.1482	771	11.14	2.7
	20.0	360	180	46.00	1.3787	954	11.98	2.5
22.0	380	180	54.00	*	*	12.63	2.3	
STOUT	8.5	265	190	11.00	0.4171	283	15.35	21.5
	9.0	275	190	13.00	0.4630	319	15.91	19.2
	9.5	280	190	14.50	0.5140	358	15.66	16.4
	10.0	285	190	16.00	0.5502	378	15.52	15.5
	10.5	290	190	17.00	0.5947	399	15.36	13.4
	11.0	295	190	19.00	0.6533	443	15.24	11.8
	11.5	300	190	20.50	0.6884	479	15.15	10.5
	12.0	305	190	22.00	0.7428	515	15.08	9.4
	13.0	320	195	25.00	0.8280	571	15.73	8.3
	14.0	335	195	28.00	0.9486	633	16.24	7.3
	15.0	350	195	33.00	1.0565	734	16.68	6.8
	16.0	365	200	36.00	1.1737	788	17.35	6.2
	17.0	375	200	40.00	1.3167	843	17.20	5.4
	18.0	390	200	47.00	1.5362	1120	17.51	5.0
	20.0	415	200	60.00	1.8516	1260	17.74	4.2
	22.0	435	200	72.00	2.0388	1419	17.49	3.6
	24.0	470	200	89.00	*	*	18.36	3.3

NOTES 1 & 2 The Strength Properties stated here are based on using Unstayed Poles (Cantilevers)