Busck Pole Data 2017

Part Number	Length	Height above GL	Tip Load ULS	Tip Load ULS	Tip Load SLS	Tip Load SLS	Axial Load Minor Axis			Mass
			Across line	Along line	Across line	Along line	Mode 1	Mode 2	Mode 3	
	m	m	kN	kN	kN	kN	kN	kN	kN	kg
B9.5	9.5	7.9	13	4	6.5	2	235	58	470	750
B10.0	10	8.2	26	8	13	4	583	145	1166	1222
B10.5	10.5	8.8	10	3	5	1.5	135	33	270	790
B11.0	11	9.2	22	8	11	4	400	100	800	1290
B11.5	11.5	9.4	26	8	13	4	487	121	974	1532
B12.4	12.4	9.2	43	11	21.5	5.5	1159	290	2318	2300
B12.5	12.5	10.4	22	7	11	3.5	365	91	730	1600
B13.65	13.65	10.45	38	10	19	5	827	207	1654	2500
B14.85	14.85	11.65	34	9	17	4.5	609	152	1218	2650
B15.5	15.5	12.3	32	8	16	4	520	130	1040	2750
B15.6	15.6	12.3	40	10	20	5	536	134	1072	3800
B18.5	18.5	15.2	32	8	16	4	536	134	1072	4100

Note

ULS – Ultimate load strength at the top hole

SLS – Serviceable load strength at the top hole. SLS limits are set with a maximum crack width of 0.3mm.

Axial loads are for the y-y axis of the pole based on Euler buckling loads assuming the following mode types;

Axial Mode 1 – includes structures where both ends of the pole are rotation free and translation fixed

Axial Mode 2 – includes structure where the ground line is rotation fixed and translation fixed and the top of the structure is rotation fixed and translation free

Axial Mode 3 – includes structure where the ground line is rotation fixed and translation fixed and the top of the structure is rotation free and translation fixed.

Mode 1 Mode 2 Mode 3