

Standard High Mast Design Details

Section Details	Description	Measurement	20m	25m	30m
Base Section	Length	mm	10750	5000	10000
	Butt A/C	mm	445	442	511
	Top A/C	mm	265	374	374
	Thick	mm	4	5	5
	Weight	Kgs	414	291	599
Mid Section	Length	mm		10600	10600
	Butt A/C	mm		396	396
	Top A/C	mm		251	251
	Thick	mm		4	4
	Weight	Kgs		348	348
Top Section	Length	mm	10000	11000	11000
	Butt A/C	mm	286	269	269
	Top A/C	mm	119	118	118
	Thick	mm	3	3	3
	Weight	Kgs	153	168	168
Total Mast Weight - Galvanised		Kgs	567	807	1115
No of Sides			16	16	16
Centre of Gravity - for lifting		m	7.178	8.921	10.312

Foundation details	Description	Measurement	20m	25m	30m
Flangeplate	Diameter	mm	610	675	750
	Thickness	mm	30	30	40
Anchor Bolts	Diameter	mm	M39	M39	M39
	Total Length	mm	1380	1380	1380
	Threaded Length	mm	250	250	250
	Material Grade		Concrete re-bar textured		
	Supplied with		3 full nuts and 2 washers		
	Finish		Self Colour		
	Qty		8	8	12
	PCD		550	550	620
Hole Size in Flangeplate			44	44	44

Door opening details	20m	25m	30m
Door Opening	1040 long x 245 wide opening Lower Edge 500 from flange Standard door in not hinged		
Door Opening Internals	Galvanised Steel demountable winch plate Wooden Board for electrical equipment Earthing Point and anchor point		

High Mast Performance	Description	Measurement	20m	25m	30m
Weight / Windage	Weight	kgs	400	350	300
	Wind Area	m2	1.4	1.0	1.0
	Temporary Deflection	mm	1586	2593	3329
Foundation Data	Overturning Moment	Nm	141270	169880	241770
	Shear Force	N	10530	11060	14020

Notes

Based upon 45m/sec wind speed. Analysed to ILE Tech Report 7
Wind area is the max wind area the mast can withstand at 45m/sec and does not include any drag factors
Other wind speeds on request