



45m Guyed Mast - 5m² Loading 160 Km/H

Optimised for cellular telecom applications, this structure is produced with deployment and operation in mind and is capable of supporting 5m² of antenna load whilst remaining within a deflection limit of 0.5° at operational wind speed.

Produced from premium steel members hot dip galvanised equivalent to ASTM A123 (2000) and connected with high grade galvanised bolts, this structure has a design life in excess of 25 years.

Export packed and supplied with guy furniture, holding down bolts, anchor plates and setting template this product is the quality choice.

Loading	Height	Type	Area
Distributed	Over Top 10m	Antenna Loading	5m ²
Linear	Vertical Run	Feeder Cable & Ladder	0.40m ² /m

Design Wind Speeds (3 Second Gust)	
Basic Wind Speed	44.0 m/s
Operational Wind Speed	31.0 m/s

Deflection	
Less than or Equal to	0.5° (at Operational Wind Speed)

Design Parameter	
Structure Class	2
Exposure Category	C
Topographic Category	1

Design Standards

Material	Standard	Steel Grade	Tensile Strength	Yield Strength
Structural Steel	JIS G 3444	STK 41	402 N/mm ²	235 N/mm ²
	ASTM A 53-87	Grade A	331 N/mm ²	207 N/mm ²
Structural Bolts	BS 3692	8.8	830 N/mm ²	664 N/mm ²



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Codes of Practice

ANSI/TIA 222-G : 2005 - Structural Standard for Steel Antenna Tower and Antenna Support Structures

ANSI/AISC 360-05 : 2005 - Specification for Structural Steel Buildings

Galvanization Equivalent to ASTM A123 (2000)

Features

- Guy Wires and Furniture

- Work Platform

- Rest Platform

- Holding Down Bolt Kit

- Setting Template

- Lightning Spike