



45m Guyed Mast - 5m² Loading

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 | 57.5 m/s |
| Operational Wind Speed | 54.0 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 |



CostWORX is the leading wholesale distributor of telecom & technology infrastructure products, supplying globally through a network of local alliance partners.

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 | 5m Below Top |
|-----------------|--------------|

| | |
|-----------------|-----------------------|
| - Rest Platform | 10.2m / 21.8m / 33.4m |
|-----------------|-----------------------|

- Holding Down Bolt Kit

- Setting Template

- Lightning Spike