TELECOMMUNICATION

Triangular Tower DATA SHEET

Product no. Ref. nr. Latest rev. S TEL 48M-N-ML-00 02.01.01.90 05.12.2019



Series TEL

48m TEL - Normal

Description:

The given tower is designed as an equilateral triangle, with a fully welded steel lattice structure, composed by legs and bracings made of solid round bars.

The tower is prepared for installation of a 2 m toppole.

Specification:

Total theoretical tower weight = 8170 kg Leg distance at tower base = 1800 mm Foundation bolts: 12 x M36

The steel is hot dip galvanized according to BS/EN ISO 1461.

The design of the lattice tower is made according to:
BS/EN 1993-3-1 – Design of steel structures – Towers, masts and chimneys.
BS/EN 1991-1-4 – Actions on structures – Wind actions.

| | In most areas in England, Corn- wall and Wales, (Vb0=24 m/s) | In most areas up to Southern Scotland, (V _{b0} =27 m/s) | In most areas up to Northern Scotland (Vb0=29 m/s) |
|--|---|---|--|
| Bearing capacity (A _w) for terrain category II | 18 m² | 12 m² | 7 m² |

 A_w is the maximum total wind drag area incl. shape factor, that can be equally distributed over the top 9 m.

Ladder with hoops from base to top $-0.14 \text{ m}^2/\text{m}$.

The following feeder load is assumed:

0,20 m²/m for each operator, (total of 0,60 m²/m) distributed on 2 sides.

Foundation types:

Normally a traditional Pier & Pad foundation is designed and casted for a TEL tower.

Carl C. can assist with the design if required, based on site specific geotechnical specifications.

