

Series 16

30m Series 16 - Normal

Description:

The Series 16 is designed as a 4-sided steel lattice tower, composed of solid round bars used as legs and bracings.

The tower is prepared for installation of 2 m toppole.

Specification:

Total theoretical tower weight = 4180 kg

Leg distance at tower base = 1540 mm

Foundation bolts: 16 x M27

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

The design of the lattice tower is 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, Cornwall and Wales, ($v_{b0}=24$ m/s) | In most areas up to Southern Scotland, ($v_{b0}=27$ m/s) | In most areas up to Northern Scotland ($v_{b0}=29$ m/s) |
|--|--|---|--|
| Bearing capacity (A_w) for terrain category II | 21 m ² | 15 m ² | 12 m ² |

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

Ladder with söll rail from base to top – 0,15 m²/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 S16 tower.

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

