TELECOMMUNICATION

Square Tower DATA SHEET

Product no. Ref. nr. Latest rev. **S 16 36,0M-83-OP** 02.04.01.133 09.12.2019



Series 16

36m Series 16 - Strong

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 a 2 m toppole.

486-2

487

488

Specification:

Total theoretical tower weight = 7530 kg Leg distance at tower base = 2100 mm

Foundation bolts: 16 x M36

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

The design of the lattice tower is according to:

DIN/EN 1993-3-1 – Design of steel structures – Towers, masts and chimneys.

DIN/EN 1991-1-4 – Actions on structures – Wind actions.

| Zone | Description | Basic wind | Terrain | Bearing |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|----------------------------|
| | | speed v _{b0} | category | capacity (A _w) |
| 1 | Most part of Nordrhein-Westfalen, Hessen, Rhenland-Pfalz, Saarland, Baden-Wurttemberg, Bayern and Thüringen. | 22,5 m/s | II | 45 m² |
| 2 | Hamburg, Berlin, Brandenburg, Sachsen-Anhalt, Sachsen and some parts of Schleswig-Holstein Thüringen, Niedersachsen, Mecklenburg-Vorpommern, Bayern and Baden-Wurttemberg. | 25 m/s | II | 33 m² |
| 3 | Northern part of Schleswig- Holstein, Bremen and Mecklenburg-Vorpommern. | 27,5 m/s | II | 24 m² |
| 4 | Costal part of Schleswig- Holstein and Bremen. | 30 m/s | I | 13 m² |

 $A_{\rm w}$ 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 $-0.15 \text{ m}^2/\text{m}$.

The following feeder load is assumed:

 $0,20 \text{ m}^2/\text{m}$ for each operator, (total of $0,60 \text{ m}^2/\text{m}$) distributed on 2 sides.

489-1 • 0,0m

Foundation types:

Normally a traditional Pier & Pad foundation is designed and casted for a CHS tower. Carl C. can assist with the design if required, based on site specific geotechnical specifications.

36,0m

√ 30,0m

_↓ 18,0m

6,0m