TELECOMMUNICATION

Square Tower DATA SHEET

Product no. Ref. nr. Latest rev. **S 16 30,0M-83-OP** 02.04.01.123 09.12.2019

486

487

488 - 1



Series 16

30m 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.

Specification:

Total theoretical tower weight = 5290 kg Leg distance at tower base = 1720 mm

Foundation bolts: 16 x M30

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	39 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	29 m²
3	Northern part of Schleswig- Holstein, Bremen and Mecklenburg-Vorpommern.	27,5 m/s	II	22 m²
4	Costal part of Schleswig- Holstein and Bremen.	30 m/s	I	11 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 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 CHS tower. Carl C. can assist with the design if required, based on site specific geotechnical specifications.







