TELECOMMUNICATION
Square Tower
DATA SHEET

Product no.	**S 16 24,0M-81**
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Series 16

24m 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 a 2 m toppole.

Specification:
Total theoretical tower weight = 3080 kg
Leg distance at tower base = 1420 mm
Foundation bolts: 16 x M27

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 speed v_{b0}	Terrain category	Bearing capacity (A_w)
1	Most part of Nordrhein-Westfalen, Hessen, Rhenland-Pfalz, Saarland, Baden-Wurttemberg, Bayern and Thüringen.	22,5 m/s	II	26 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	19 m²
3	Northern part of Schleswig-Holstein, Bremen and Mecklenburg-Vorpommern.	27,5 m/s	II	14 m²
4	Costal part of Schleswig- Holstein and Bremen.	30 m/s	I	8 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 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 CHS tower. Carl C. can assist with the design if required, based on site specific geotechnical specifications.