## TELECOMMUNICATION Square Tower DATA SHEET

## Series 16

### 48m 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. 485 - 2The tower is prepared for installation of a 2 m toppole. 42,0m T Specification: Total theoretical tower weight = 8720 kg Leg distance at tower base = 2100 mm Foundation bolts: 16 x M36 486 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. Ţ 30,0m Basic wind Terrain Bearing Zone Description speed vb0 capacity (Aw) category Most part of Nordrhein-Westfalen, Hessen, Rhenland-Pfalz, Saarland, 22,5 m/s Ш 22 m<sup>2</sup> 1 Baden-Wurttemberg, Bayern and Thüringen. 487 Hamburg, Berlin, Brandenburg, Sachsen-Anhalt, Sachsen and some parts of Schleswig-Holstein 2 25 m/s Ш 16 m<sup>2</sup> Thüringen, Niedersachsen, Mecklenburg-Vorpommern, Bayern and Baden-Wurttemberg. 18,0m Ţ Northern part of Schleswig-3 Holstein, Bremen and 27,5 m/s Ш 9 m² Mecklenburg-Vorpommern. Costal part of Schleswig-Holstein 30 m/s Т 4 and Bremen. 488  $A_w$  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  $-0,15 \text{ m}^2/\text{m}$ . The following feeder load is assumed: 6,0m  $0,20 \text{ m}^2/\text{m}$  for each operator, (total of  $0,60 \text{ m}^2/\text{m}$ ) distributed on 2 sides. T

#### 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.

# Product no. S 16 48, Ref. nr. 02. Latest rev. 0

**S 16 48,0M-81-OP** 02.04.01.151 09.12.2019

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• 0.0m



48,0m