

Series 16

24m 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 2 m toppole.

The Series 16 Strong tower can be used for areas along the west coast of Jutland ($v_b=27$ m/s, terrain category I).

Specification:

Total theoretical tower weight = 3840 kg

Leg distance at tower base = 1540 mm

Foundation bolts: 16 x M30

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

The design of the lattice tower is made according to:

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

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

The tower is designed for three operators equal to 15 m^2 wind drag area equally distributed over the top 9 m.

Ladder with søll 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.

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.

