

## Series 16

### 42m 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 2 m toppole.

The Series 16 Normal tower can be used for most areas in Denmark ( $v_b=24$  m/s, terrain category II).

#### Specification:

Total theoretical tower weight = 7220 kg

Leg distance at tower base = 1900 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  $15 \text{ m}^2$  wind drag area 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.

#### 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.

