

Series CHS

48m CHS - Strong

Description:

The given tower is designed as an equilateral triangle, with bolted flange connections between CHS sections, composed of legs and bracings made of circular hollow sections. The 48 m CHS mast is built of 8 sections each being 6 m long.

The tower is prepared for installation of a 2 m toppole.

The Strong series CHS tower is used in areas along the west coast of Jutland (vb=27 m/s, terrain category I).

Specification:

Total theoretical tower weight = 5580 kg

Leg distance at tower base = 3370 mm

Foundation bolts: 18 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 m² wind drag area equally distributed over the top 9 m.

Ladder with hoops from base to top – 0,14 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.

