TELECOMMUNICATION

Triangular Tower DATA SHEET

Product no. S CHS-36M-N-ML Ref. nr. 02.06.01.30

Latest rev.



Series CHS

36m CHS - Normal

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 36 m CHS mast is built of 6 sections each being 6 m long.

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

The Normal series CHS tower can be used in most areas in Denmark (vb=24 m/s, terrain category II).

Specification:

Total theoretical tower weight = 2640 kg Leg distance at tower base = 2730 mm Foundation bolts: 18 x M24

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 $9 \, \text{m}$.

Ladder with hoops from base to top $-0.14 \text{ m}^2/\text{m}$.

or

Ladder with fall arrest rail from base to top $-0.17 \text{ m}^2/\text{m}$.

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.

