TELECOMMUNICATION Triangular Tower DATA SHEET

Series CHS

Product no. Ref. nr. Latest rev. S CHS-36M-S-ML 02.06.01.81 03.12.2019



36m 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 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.

Specification:

Total theoretical tower weight = 3360 kg Leg distance at tower base = 2730 mm Foundation bolts: 18 x M27

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

The design of the lattice tower is according to: BS/EN 1993-3-1 – Design of steel structures – Towers, masts and chimneys. BS/EN 1991-1-4 – Actions on structures – Wind actions.

	In most areas in England, Corn- wall and Wales, (vb0=24 m/s)	In most areas up to Southern Scotland, (v _{b0} =27 m/s)	In most areas up to Northern Scotland (v _{b0} =29 m/s)
Bearing capacity (A _w) for terrain category II	32 m²	23 m²	19 m²

 A_w is the maximum total wind drag area incl. shape factor, that can be equally distributed over the top 9 m.

Ladder with hoops from base to top $-0,14 \text{ m}^2/\text{m}$.

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.

