TELECOMMUNICATION **Triangular Tower** DATA SHEET

Series CHS

48m 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 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.

Specification:

Total theoretical tower weight = 4250 kg Leg distance at tower base = 3370 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 (Vb0=29 m/s)
Bearing capacity (A _w) for terrain category II	18 m²	13 m²	9 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:

 $0,20 \text{ m}^2/\text{m}$ for each operator, (total of $0,60 \text{ m}^2/\text{m}$) distributed on 2 sides.

Foundation types:

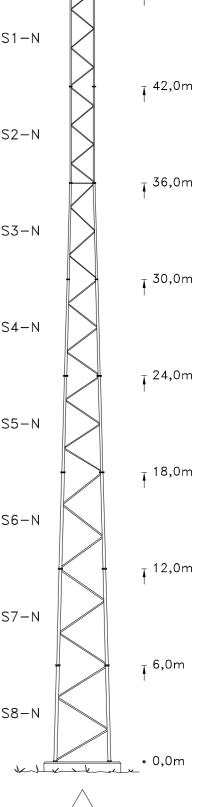
Normally a traditional Pier & Pad foundation is designed and casted for a CHS tower.

Carl C. can assist with the design if required, based on site specific geotechnical specifications.

S1-N S2-NS3-N S4-N S5-NS6-N



48,0m



Product no.

Latest rev.

Ref. nr.