### **TELECOMMUNICATION**

# Triangular Tower DATA SHEET

Product no.
Ref. nr.
Latest rev.

S CHS-24M-N-ML 02.06.01.60 03.12.2019



24,0m

## **Series CHS**

#### 24m 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 24 m CHS mast is built of 4 sections each being 6 m long.

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

#### **Specification:**

Total theoretical tower weight = 1390 kg Leg distance at tower base = 2090 mm Foundation bolts: 18 x M20

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, (Vb0=27 m/s)	In most areas up to Northern Scotland (V <sub>b0</sub> =29 m/s)
Bearing capacity (A <sub>w</sub> ) for terrain category II	21 m²	15 m²	12 m²

 $A_{\rm w}$  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.

