### TELECOMMUNICATION

## **Triangular Tower DATA SHEET**

Product no. S CHS-24M-N-ML Ref. nr. Latest rev.

02.06.01.10 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.

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

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 m<sup>2</sup> wind drag area equally distributed over the top 9 m.

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

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

The following feeder load is assumed:

0,20 m<sup>2</sup>/m for each operator, (total of 0,60 m<sup>2</sup>/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.

