### **TELECOMMUNICATION**

# **Triangular Tower DATA SHEET**

Ref. nr. Latest rev.

Product no. S TEL 48M-N-ML-00 02.01.01.40 10.11.2021



## **Series TEL**

48m TEL - Normal

### **Description:**

The given tower is designed as an equilateral triangle, with a fully welded steel lattice structure, composed by legs and bracings made of solid round bars.

The tower can be prepared for installation of a 2 m toppole.

The TEL series tower is used for most areas in Denmark (vb=24 m/s, terrain category II).

#### **Specification:**

Total theoretical tower weight = 8170 kg Leg distance at tower base = 1800 mm Foundation bolts: 12 x M36

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  $-0.14 \text{ m}^2/\text{m}$ .

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 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 TEL

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

