# TELECOMMUNICATION Triangular Tower DATA SHEET

# Series TEL

48m TEL - Strong

## **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=48 m/s, terrain category I).

### Specification:

Total theoretical tower weight = 9710 kg Leg distance at tower base = 2600 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  $15 \text{ m}^2$  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  $-0,17 \text{ m}^2/\text{m}$ .

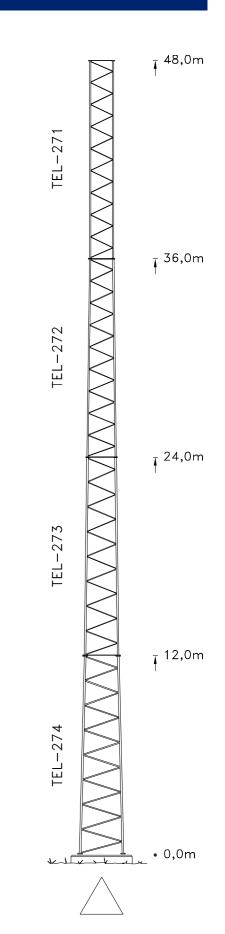
The following feeder load is assumed:

 $0,20 \text{ m}^2/\text{m}$  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 TEL tower.

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





Cařl C

Product no. S TE Ref. nr. Latest rev.