# 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 is prepared for installation of a 2 m toppole.

### 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 BS/EN ISO 1461.

The design of the lattice tower is made 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	31 m²	22 m²	18 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  $-0,14 \text{ m}^2/\text{m}$ .

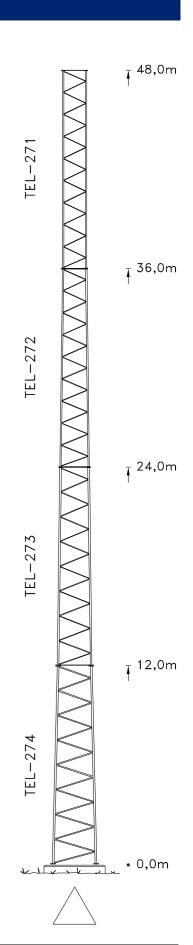
The following feeder load is assumed:

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

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





**Product no.** Ref. nr. Latest rev.