# TELECOMMUNICATION Triangular Tower DATA SHEET

## Series CHS

Cařl C

## 30m 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 30 m CHS mast is built of 5 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 = 1930 kg Leg distance at tower base = 2410 mm Foundation bolts: 18 x M24

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:

or

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.

