## TELECOMMUNICATION <br> Triangular Tower <br> DATA SHEET

## Series CHS

## 36m CHS - Strong

## 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 36 m CHS mast is built of 6 sections each being 6 m long.

The tower is prepared for installation of a 2 m toppole.

The Strong series CHS tower is used in areas along the west cost of Jutland ( $\mathrm{vb}=27 \mathrm{~m} / \mathrm{s}$, terrain category I ).

## Specification:

Total theoretical tower weight $=3360 \mathrm{~kg}$
Leg distance at tower base $=2730 \mathrm{~mm}$
Foundation bolts: $18 \times \mathrm{M} 27$

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 $15 \mathrm{~m}^{2}$ wind drag area equally distributed over the top 9 m .

Ladder with hoops from base to top $-0,14 \mathrm{~m}^{2} / \mathrm{m}$.
or
Ladder with fall arrest rail from base to top $-0,17 \mathrm{~m}^{2} / \mathrm{m}$.
The following feeder load is assumed:
$0,20 \mathrm{~m}^{2} / \mathrm{m}$ for each operator, (total of $0,60 \mathrm{~m}^{2} / \mathrm{m}$ ) 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.


