

Series HYB

24m HYB - 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 circular hollow sections and solid round bars respectively.

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

The HYB series tower is used for most areas in Denmark ($v_{b,0} = 27$ m/s, terrain category I).

Specification:

Total theoretical tower weight = 2445 kg

Leg distance at tower base = 2000 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^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 HYB tower.

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

