# TELECOMMUNICATION Square Tower DATA SHEET

## Series 16

### 24m Series 16 - Strong

#### **Description:**

The Series 16 is designed as a 4-sided steel lattice tower, composed of solid round bars used as legs and bracings.

The tower is prepared for installation of 2 m toppole.

#### Specification:

Total theoretical tower weight = 3840 kg Leg distance at tower base = 1540 mm Foundation bolts: 16 x M30

The steel is hot dip galvanized according to BS/EN ISO 1461.

The design of the lattice tower is 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	36 m²	26 m²	21 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 söll rail from base to top  $-0,15 \text{ m}^2/\text{m}$ .

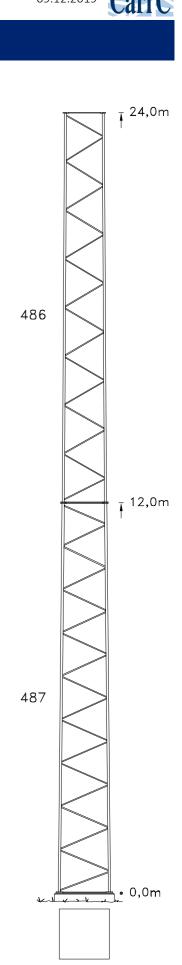
The following feeder load is assumed:

 $0,20 \text{ m}^2/\text{m}$  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 S16 tower.

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



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 S 16 24,0M-83-OP

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