

TELECOMMUNICATION MONOPOLE DATA SHEET

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MP19

42m MP19 - Monopole

Description:

The structure is made of 7 pieces of 6-9 m hollow steel sections with 3m toppole, connected with bolts. The monopole appears light, elegant and conceals cabling completely.

The Strong series is analysed for a basic wind speed of 27 m/s and terrain category I (*along the west coast of Jutland*).

The Normal series is analysed for a basic wind speed of 24 m/s and terrain category II (*rest part of Denmark*).

Specification:

The steel is hot dip galvanized according to DS/EN ISO 1461, but can also be painted for uniform design.

The design of the monopole is according to:

EN 1993-1-1 – Design of steel structures – General rules.

EN 1991-1-4 – Actions on structures – Wind actions.

Loads:

The structure is prepared for 10m² wind drag area over top 12m.

A Söll Y-spar is included in the design (can be removed if required).

Normal monopole weight: 5610 kg

Strong monopole weight: 7110 kg

Foundation types:

A site-specific foundation design should be prepared based on geotechnical report.

The following types are suggested:

- Pier & Pad foundation
- Block foundation
- Drilled shafts foundation

