Tower Design Input

**Compilation Date: 6/07/2016**

**Company Name:** Click or tap here to enter text.

**Company Address:** Click or tap here to enter text.

**Contact Person:** Click or tap here to enter text.

**Position:** Click or tap here to enter text.

**E-mail:** Click or tap here to enter text.

**Phone:** Click or tap here to enter text.

**Project Name:** Click or tap here to enter text.





SITE INFORMATION

**Location:** Click or tap here to enter text.

(GPS Coordinates)

**Importance Level:** Click or tap here to enter text.

(1 / 2 / 4)

**Terrain Category:** Click or tap here to enter text.

(1 / 1.5 / 2 / 2.5 / 3 / 4)

**Seismic Activity:** Click or tap here to enter text.

(Yes / No)

**Ice Conditions:** Click or tap here to enter text.

(Yes / No)

**Footing Type:** Click or tap here to enter text.

(Surface Slab / Buried Slab / Bored Piers / Reaction Forces)

TOWER REQUIREMENTS

**Type:** Click or tap here to enter text.

(Free Standing / Guyed)

**Height:** Click or tap here to enter text.

(Meters)

**Orientation:** Click or tap here to enter text.

(e.g. One Face North / South/ East / West)

**Accessories:** Click or tap here to enter text.

(Ladder, Safety Climb Device, Lightning Finial, Obstruction Lighting, Headframe, Special Antenna Mount, Cable Hanger/Bracket)

**Certification:** Click or tap here to enter text.

(No / QLD; RPEQ / NT; Sect 40 / VIC; Cert Comp-Design / TAS; Form 55 / Industry 3rd Party / Other)

**Other Loading:** Click or tap here to enter text.

(Excluding Antennas)

NOTES

Location: Open cut mines or overseas locations will require a topographic map of the area within 2km radius of site for accurate wind loading assessment. Ensure scale, contour interval and grid are provided. Preferred scale is 1:25,000. Preferred contour interval is 10m.

Importance Level: 1 – Low risk of property damage or loss of life

2 – Higher risk – non habitable structures

4 – Client nominated risk (eg. post disaster)

Terrain Category: 1 – Snow

1.5 – Open Water

2 – Grassland

2.5 – Few trees, outer suburbs

3 – Trees, inner suburbs

4 – High rise buildings

Footing Type: Footing design requires a full geotechnical report including:

* Minimum recommended founding depth
* Safe allowable bearing pressure at recommended founding depth (100kPa min)
* Angle of internal friction and cohesion
* Bulk unit weight / soil density (educated estimate is appropriate)

\* Bored piers require additional details.

Antenna Loading

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mount Height (m) | Mounting Orientation (Degrees Relative to True North) | Antenna Description and Size | Antenna Manufacturer | Model Number | Stand-off Distance (m) | Maximum Allowable Horizontal Deflection | Mounting Arrangements (Face Mount, Chord Mount or Clamped) | Feeder Cable Diameter |
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NOTES

Antenna Orientation: Identifies the physical location of the antenna on the structure

Stand Off Distance: Distance from edge of the structure out to the centreline of the antenna

Maximum Deflection: Applicable to directional antennas, particularly microwave links

Mounting Arrangements: Significant antennas such as dishes, panels and large arrays must be mounted as specified here for results to be valid