

The accuracy of your tower analysis depends on the accuracy of information provided about the tower!

The following is a list of desired information. If all required information is not available to the engineer, certain assumptions must be made.

- Tower location. Need to identify tower and to determine TIA recommended wind speed & classifications.
- Tower Make/Model. Give us the information needed to determine tower construction.
- Tower Height..
- Compass orientation of tower face.
- As-built drawings.
- Tower leg, diagonal, and girt sizes with type and grade of steel.
- Quantity, size and grade of bolts used in construction.
- Accurate antenna loading on tower (antenna type, elevation on tower, azimuth, etc.).
- Location and type pf other loads on tower (lights, platforms, ice shields, etc.).
- Soils analysis at tower base and guy anchors.
- Location, size and grade of all guy strand.
- Elevation of guy anchors as compared to the elevation of the tower base.
- Location and sizes of antenna feed lines.
- Location and size of stabilizers.
- Guy anchor radii (distance of guy anchors from base of tower).
- Type of tower base (pivot or fixed).
- Foundation design for tower and anchors.
- Proposed antenna loading, if the tower is to be analyzed considering loads other than the existing tower load.
- Photographs of the tower.
- Any usual climatic condition. Are prevailing wind and ice conditions at the tower site higher than normal?

Note: Absence of the above information will cause the tower to be analyzed based on certain assumptions such as normal soil conditions, manufacturer's specifications, and professional engineering experience and judgement. Analysis provided represents conditions as provided to Ehresmann Engineering by the client.

Ehresmann Engineering can provide an on-site mapping of your tower to obtain the required information.

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