FOUNDATION DESIGN. 1st January 2015

Calculations for resistance to over-turning and ground bearing pressures are normally included structural analyses and evaluations.

Foundations are checked for resistance to overturning and ground bearing pressures where adequate information is available and form part of a full structural analysis.

When insufficient information is available on the foundation size and construction an assessment is made based on the results of the tower analysis and any conclusions that can be drawn from a visual inspection of the site.

Foundations are designed using the same figures that design the base legs of a self-supporting tower; therefore it can be reasonably assumed that if the base legs are well within capacity then the foundation is not overloaded. Alternatively if the base legs are highly stressed then it is likely that the foundation is similarly loaded, in these cases it is usually recommended that an excavation is carried out to confirm the size and construction of the foundation; but this is not always p0ssable.

With structural evaluations and assessments the conclusions drawn for the tower equally apply to the foundation.