

Form: Structural Advice
Job Reference: T-17-096
Enquiries to: Chris Tenni

23rd September 2016

Swivelpole Group Pty Ltd
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Attention: Rob Pannekoek

Dear Sir,

**RE: SEISMIC EFFECTS (EARTHQUAKE LOADING)
LIGHT POLE STRUCTURES**

We, Tenco Engineers are the structural engineers engaged by Swivelpole Group Pty. Ltd. to complete structural analysis for Swivelpole. AS4676– 2000 – Structural design requirements for utility service poles Clause 3.5 – Earthquake loads allows earthquake analysis to be waived for utility service poles.

The standard allows this waiver given in service, utility service poles have proved to not be susceptible to damage from ground accelerations due to earthquake the design standard allows earthquake analysis can be waived.

Conformance with the Wind Load design requirements of the relevant design standards will in general, provide conformance with Earthquake Load design requirements. This applies to both Australian and International design standards in general conditions.

A non-standard scenario requiring further analysis would be one with an unusually large non-standard luminaire with significant mass atop a light pole.

Given our understanding of Swivelpoles' design range and offering we advise for general conditions with standard luminaires, that Swivelpole's achieve the earthquake loading requirements of international design standards when designed suitably and adequately for wind loading.

This advice is general and aims to provide Swivelpole confidence that earthquake design compliance requirements of various design specifications are highly unlikely to affect the suitability of standard product offering when selected to meet the design wind speeds, which we advise will govern product selection generally.

Should you wish to discuss this further please do not hesitate to contact the undersigned.

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'G Tenni', with a horizontal line underneath.

Chris Tenni MIEAust CPEng NER
Director & Principal Engineer - Structures
Tenco Engineers Pty. Ltd.