

Summary of Decisions of the Structural Engineer  
SEC 13/2013 held on 13.12.2013

(a) Case 13/2013

Issue: Methodology Report for Wind Tunnel Test

Recommendation: To accept the following parameters for wind tunnel test of the proposed development:

(1) Topographic Model  
Model scale: 1: 4000

(2) Proximity Model  
(i) Model scale: 1: 400  
(ii) Extent of model: all known existing and proposed surrounding buildings and structures within a radius of 750 m from the subject site will be modeled.

(3) Wind Climate Study Results  
A typhoon simulation will be carried out to determine the design wind speeds for the typhoon wind climate based on data between 1950 - 2008. A Monte Carlo statistical technique will be used to simulate typhoon effect. The results of the typhoon simulation give the variation of wind speed with direction for a range of return periods at the site.

(4) Existing condition and Possible removal of adjacent / surrounding buildings that is considered significant influence  
Two proximity models were proposed:-

- (i) Model 1 - Existing condition  
A proximity model test with all existing adjacent / surrounding buildings presence.
- (ii) Model 2 - Removal of adjacent / surrounding buildings  
Based on the above existing condition, 34 nos of existing buildings were proposed to be removed.

Decision: Having noted the background information and arguments, members endorsed the recommendation subject to subject to quality supervision should be provided for the test by the RSE.