

Summary of Decisions of the Structural Engineering Committee
SEC 05/2011 held on 18.05.2011

(a) Case 05/2011

Issue: Use of Jacking to install Precast Prestressed Spun Concrete Pile

Recommendation: To accept the use of jacking to install precast prestressed spun concrete piles, subject to the results of the static loading tests on three trial piles complying with the acceptance criteria stipulated in the Code of Practice for Foundations and the following criteria:

- (1) The design capacity under the working load (WL) is 1700 kN with a factor of safety of 3.
- (2) The tentative founding level of the pile is at the soil stratum with SPT N-value of not less than 80.
- (3) The pile settlement at termination of the jacking shall be monitored to confirm the termination criteria [a jacking force of 5400 kN (i.e. 3.176 WL) shall be maintained for such period until the pile penetration rate is less than 5 mm per 15 minutes].

Decision: Finding RSE's justification insufficient, members did not endorse the recommendation..