

Summary of Decisions of the Structural Engineering Committee  
SEC 14/2011 held on 27.10.2011

(a) Case 14/2011

- Issue:
- (a) Rational design approach
  - (b) Design parameters for shaft grouted mini-pile using soil friction to take axial load
  - (c) Use of 47 dia DYWIDAG threadbar in trial pile
- Recommendation:
- (a) To accept the rational design method for the design of 273mm diameter mini-piles using shaft grouted friction in soil subject to axial load only.
  - (b) The ultimate shaft grouted friction in colluvium and completely decomposed granite (CDG) shall be  $4.8 \times \text{SPT "N"-value}$  but SPT "N"-value is limited to 50. (i.e. 240kPa) with a factor of safety of 3.
  - (c) To accept the use of 47mm diameter DYWIDAG threadbars without bends connected with mechanical splice joints as rebars in trial piles only.
- Decision:
- Noting RSE's justifications and after making reference to previous cases, members endorsed the recommendations.