

**Drilled-in Anchors used for Works other than
Cantilevered Structure/Hanger/Curtain Wall Remedial Works**

In giving this approval of plans, I hereby impose the following conditions under item 6 in section 17(1) of the Buildings Ordinance:

- (a) Strength tests on a representative number of the drilled-in anchors should be carried out as directed by the Registered Structural Engineer to verify the performance and workmanship of the as-built anchors. Sampling rate should be at least 1% or 5 numbers, whichever is more, of each type and size of the anchors installed. The strength tests should be carried out by a recognised laboratory independent of the contractor.
- (b) Each representative anchor should be tested for tensile load by pull out test and/or shear load by shear load test as appropriate to demonstrate that its load carrying capacity is not less than 1.5 times the recommended load as specified by the anchor manufacturer. The tested anchor should not show any signs of separation, plastic deformation or deleterious effect. The reports of the above-mentioned tests shall be endorsed by Registered Structural Engineer and kept on site for inspection by representatives of the Buildings Department.
- (c) A method statement on the anchor tests mentioned above is required to be submitted at least one week prior to the actual commencement of the drilled-in anchor works.

2. The following conditions in respect of qualified supervision of works are imposed under item 6 in section 17(1) of the Buildings Ordinance:

- (a) Qualified site supervision of the drilled-in anchor works, by experienced and competent persons as defined in (b) and (c), should be provided to ensure that the works are carried out in accordance with the plans approved and that the required standards are complied with.
- (b) The Registered Structural Engineer should assign a quality control supervisor to supervise the works, determine the necessary frequency of inspection by the quality control supervisor which should not be less than once a week, and devise inspection check lists. The minimum qualifications and experience of the quality control supervisor is to be the same as the Technically Competent Person of grade T3 under the Registered Structural Engineer's stream, as stipulated in the Code of Practice for Site Supervision 2009.
- (c) The Registered General Building Contractor should assign a quality control co-ordinator to provide full time on site supervision of the works and devise inspection check lists. The minimum qualifications and experience of the quality control co-ordinator is to be the same as the Technically Competent Person of grade T1 under the Registered General Building Contractor's/Registered Specialist Contractor's stream, as stipulated in the Code of Practice for Site Supervision 2009.
- (d) The names and qualifications of the supervisory personnel representing the Registered Structural Engineer and the Registered General Building Contractor

respectively should be recorded in an inspection log book. The date, time, items inspected and inspection results should be clearly recorded in the log book. The log book should be kept on site for inspection by representatives of the Buildings Department.

3. Reference may be made to British Standard 5080: Parts 1 & 2 for the testing procedures for drilled-in anchors including apparatus set-up, load application and results presentation.