

Ref : BD \_\_\_\_\_

Address : \_\_\_\_\_

Appendix \_\_\_\_\_ to approval dated \_\_\_\_\_

**Steel T Bolts with Cast-in Channels used for  
Curtain Wall/ Cladding 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 assemblies of T bolts with cast-in channels should be carried out as directed by the Registered Structural Engineer to verify the performance and workmanship of the T bolts with cast-in channels. Sampling rate should be at least 1% or 5 numbers, whichever is more, of each type and size of the assemblies of T bolts with cast-in channels installed. The strength tests should be carried out by a recognized laboratory independent of the contractor.
- (b) Each representative assembly of T bolts with cast-in channels 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 manufacturer of the T bolts with cast-in channels. The tested assemblies of T bolts with cast-in channels 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 T bolts with cast-in channels works.

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

- (a) Qualified site supervision of the T bolts with cast-in channels 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, 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, 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 including apparatus set-up, load application and results presentation.

4. Under Building (Administration) Regulation 10, a copy of mill certificates of the steel T bolts and cast-in channels used, is required to be submitted within 60 days of the delivery of the steel T bolts and cast-in channel to the site which should be appended with a statement signed by the Registered Structural Engineer to confirm that the requirements of chemical composition and mechanical properties appropriate to the type/grade of steel have been complied with.