

## **Cantilevered Reinforced Concrete Structure 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) Qualified site supervision of cantilevered reinforced concrete structure 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 (RSE) 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 RSE's stream, as stipulated in the Code of Practice (CoP) for Site Supervision 2009.
- (c) The Registered General Building Contractor (RGBC) 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 RGBC's/Registered Specialist Contractor's stream, as stipulated in the CoP for Site Supervision 2009.
- (d) The names and qualifications of the supervisory personnel representing the RSE and the RGBC 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 BD.

2. Under regulation 10 of the Building (Administration) Regulations, where cantilevered slabs are constructed with span exceeding 750 mm and exposed to weathering, a construction report and a Form BA14 confirming that the works have been carried out in accordance with the approved plans and are structurally safe are required to be submitted to this Department upon completion of the works. The construction report should include:

- (a) an as-built plan showing:
  - (i) the location and dimensions of the members of the cantilevered slabs.
  - (ii) the direction and gradient of the fall, where applicable.

/(iii) ...

- (iii) the location of the drainage outlets/down pipes, where applicable.
- (iv) the thickness of screeding and finishes.
- (v) the details of the water-proof membrane/tanking, where applicable.
- (vi) the location and details of any construction joints.
- (vii) the grade of concrete and steel reinforcement.
- (viii) the diameter and spacing of steel reinforcement in the cantilevered slabs.
- (ix) the date on which the concrete was cast.
- (x) the concrete cover of the steel reinforcement at critical positions of the cantilevered slabs, as measured by covermeter.
- (b) record photographs of the cantilevered slabs and their supporting members showing:
  - (i) the condition and arrangement of the in-position steel reinforcement prior to concreting.
  - (ii) the condition after concreting but before laying of the finishes and waterproofing materials.

3. Upon the completion of the construction of the cantilevered slab canopy, the Authorized Person should coordinate with the RSE and RGBC to prepare documentation on the inspection and maintenance of the cantilevered slab canopy, for regular maintenance and repair to be arranged by the Incorporated Owners/management company. Routine inspection and maintenance works such as cleaning of clogged drain pipes and drainage channel, and inspection of waterproofing systems and finishes should be carried out regularly and particularly during the rainy seasons.