

Summary of Decisions of the Structural Engineering Committee  
SEC Meeting 8/2024 held on 27.11.2024

Case 06/2024

- Issue: Use of steel fibres in concrete to replace the use of conventional steel reinforcement of precast reinforced concrete linings for tunnel construction
- Recommendation: To accept the use of Steel Fibres in concrete mix (dosage 40 kg/m<sup>3</sup>) to replace the use of conventional steel reinforcing bars as specified in Section 3.2 of the Code of Practice for Structural Use of Concrete 2013 (Concrete Code) for precast concrete linings to be used in TBM tunnel construction of Tung Chung Line Extension (TUE).
- Decision: Having noted the background information, members had no objection to endorse the paper on a case-by-case basis subject to the following conditions:
- (a) Prototype tests regarding 3-Point Bending Test and TBM Thrust Loading Test should be carried out prior to the commencement of installation. A performance report on the prototype tests should be submitted and found satisfactory prior to installation; and
  - (b) Qualified supervision to the use of Steel Fibres in concrete mix (dosage 40 kg/m<sup>3</sup>) should be provided by the Competent Person and the Registered Contractor to ensure that the relevant standard would be complied with.