

Engineer. The sequence of pours shall be arranged to minimise thermal and shrinkage strains.

- B. The Concrete Works have been designed as continuous construction in accordance with BS EN 1992-3. Therefore, consideration should be given to maximising the size of pours and minimising the number of construction joints.

3.3.5 Compaction of Concrete

- A. All concrete shall be compacted to produce a dense homogeneous mass. Unless otherwise agreed by the Engineer, it shall be compacted with the assistance of vibrators. Sufficient vibrators in serviceable condition shall be on site so that spare equipment is available in the event of breakdown. A 50mm diameter internal vibrator shall be deemed capable of compacting 20 m³/hr. Internal vibrators shall be capable of producing not less than 10,000 cycles per minute.
- B. Vibration shall not be applied by way of the reinforcement. Where immersion vibrators are used, contact with reinforcement and all inserts shall be avoided.
- C. Vibrators shall be so manipulated as to work the concrete thoroughly around the reinforcement and embedded fixtures and into corners and angles of the forms. Vibrators shall not be used as a means to cause concrete to flow to its position in lieu of placing. The vibration at any point shall be of sufficient duration to accomplish compaction. After initial set of the concrete, the forms shall not be jarred and no strain shall be placed on the ends of projecting reinforcement.
- D. External vibration shall not be used unless permitted by the Engineer for special circumstances.

3.3.6 Concrete Blinding Layer

- A. Place a concrete blinding layer immediately upon completion of the excavation and where shown on the drawings or ordered by the engineer, to prevent deterioration of the formation and to form a clean working surface for the structure.
- B. Place a concrete Class C blinding layer of a minimum thickness of 100 mm or to the depth shown on the contract drawing

3.3.7 Separate Floor Toppings

- A. Prior to placing floor topping, roughen substrate concrete surface and remove deleterious material. Broom and vacuum clean.
- B. Place required dividers, edge strips, reinforcing and other items to be cast in as shown in the drawings.
- C. Apply sand and cement slurry coat on base course, immediately prior to placing