

Specifications

- B. The weighing and water-dispensing mechanisms shall be maintained in good order. Their accuracy shall be maintained within the tolerances described in BS 1305 and checked against accurate weights and volumes when required by the Engineer.
- C. The mass of cement and of aggregate indicated by the mechanism employed shall be within a tolerance of 2% of the respective mass per batch agreed by the Engineer. The mass of the fine and coarse aggregates shall be adjusted to allow for the free water contained in them. The water to be added to the mix shall be reduced by the quantity of free water contained in the fine and coarse aggregates, which shall be determined by the Contractor by a method approved by the Engineer immediately before mixing begins and further as the Engineer requires.
- D. Unless otherwise agreed by the Engineer, concrete shall be mixed in a batch type mixer manufactured in accordance with BS 1305. The mixing blades of pan mixers shall be maintained within the tolerances specified by the manufacturer of the mixer and the blades shall be replaced when it is no longer possible to maintain the tolerance by adjustment. The period of mixing, judged from the time that all the ingredients including water are in the mixing drum shall be as ordered by the Engineer's representative and shall be in accordance with the mixer manufacturer's recommendations.
- E. Mixers that have been out of use for more than 30 minutes shall be thoroughly cleaned before any fresh concrete is mixed.
- F. The method of discharge from the mixer shall be such as to cause no segregation whether partial or otherwise of the concrete materials.
- G. The Contractor shall ensure that the constituent materials of the concrete are sufficiently cool to prevent the concrete from stiffening in the interval between its discharge from the mixer and compaction in its final position. Precautions shall include the shading of aggregate stockpiles and the use of chilled water.
- H. The Concrete shall be carried in purpose-made agitators, operating continuously, or truck mixers. The concrete shall be compacted and in its final position within 1 hour of the introduction of cement to the aggregates, unless a longer time is agreed by the Engineer. The time of such introduction shall be recorded on the delivery note together with the weight of the constituents of each mix.
- I. Concrete shall only be mixed at a batching plant approved by the Engineer.
- J. Unless specially authorised by the Engineer, the concrete shall be mixed and the