

BS - CONCRETE MIX DESIGN (DOE)

DOE METHOD OF CONCRETE MIX DESIGN: The British method of concrete mix design, popularly referred to as the "DOE method", is used in the United Kingdom and other parts of the world and has a long established record. The method originates from the "Road Note No 4" which was published in Great Britain in 1950. In 1975 the note was replaced by the "Design of Normal Concrete Mixes", published by the British Department of the Environment (DOE). In 1988 the "Design of Normal Concrete Mixes" was issued in a revised and updated edition to allow for changes in various British Standards.

DOE mix design generally involves the following stages.

1. Determine the target strength
2. Determine the water/cement (W/C) ratio according to the target strength, types of cement and aggregate.
3. Determine the water content, W, from required workability, size and type of aggregate.
4. Determine cement content, C, from W/C ratio and water content.
5. Estimate the density of wet fresh concrete, D, based on relative density of combined aggregate and water content.
6. Determine the total aggregate content from D, C, and W.
7. Determine the proportion of fine aggregate according to the fineness of fine aggregate, maximum aggregate size, slump/vebe time and W/C.
8. Determine coarse aggregate.

Specified Strength and Target Strength For Mix Design

a. Variation and probability of concrete strength finding standard deviation and k values to calculate the margin.

b. Characteristic strength Probability and statistics have been widely adopted in engineering to describe structure failure and material properties. In the old practice, concrete strength is specified using "minimum strength". From the probability theory adopted today, there is always a possibility, however remote, that the strength of concrete falls below a specified strength. Therefore concrete strength is specified in term of "Characteristic Strength". The characteristic strength is the strength below

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Wenbin Ji



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