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Concrete Mix Design as per IS CODE easy way by excel sheet ...

Mix design of M40 Projects requirements . 1 mix design of : M40 2 Type of cement

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used PPC cement ( supplied only with strength of 33 grade as per clause no 7.4.1 page no 2 of IS 1489 ).  
conforming to IS 1489 Part 1. -2015.3. Maximum nominal size of aggregate: 20 mm.4. Exposure condition :  
Moderate exposure condition  
5 Workability : mm 75 mm (slump)

Concrete Mix Design |  
Different Grades of Concrete  
Learn Mix design of M25  
Grade Concrete as per Indian  
standard codebooks – IS10262  
-CONCRETE MIX PROPORTIONING  
– GUIDELINES and IS456. I.  
STIPULATIONS FOR  
PROPORTIONING . This section  
is about the condition or

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requirement that is specified or expected from the concrete. Change the values in this section as per your requirements to do the mix ...

M25 Grade Concrete Mix Design - IS10262 Recent Revision ...

1 Concrete mix design for m50  
2 Type of cement used OPC 53 grade cement conforming to IS 269  
3 Maximum nominal size of aggregate : 20 mm.  
4 Exposure condition : Severe exposure condition defined as per table 3 Page no 18 of IS 456 2000 .

(PDF) Comparison of IS, BS

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and ACI Methods of Concrete Mix ...

MIX DESIGN DETAILS IRC: 15-2011 specified that for concrete roads OPC should be used. This code also allowed PPC as per IS: 1489 (Part-1) with flyash content not more than 20 percent by weight of PPC.

Mix Design For Concrete Roads As Per IRC:15-2011  
1/22/2014 6 Basic Concrete Mix Design Materials Pounds of material S.G. Abs Volume  
667 3.15 X 62.4 Cement 667  
3.15 3.39-Total Cementious  
667 Miller Stone 1590 2.6  
9.80

Concrete Mix Design

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Calculation - M 25, M 30 & M 35

Eg: M20(1:1.5:3); the quantity of cement, sand and aggregate is batched in volume as per the fixed ratio 1:1.5:3. From the above table till M25 grade, the concrete proportions are called as Nominal mix concrete. Design Mix: Design mix concrete is adopted for high rise constructions.

Concrete Mix design as per IS (Indian Standard) Method

...

In this article, you will get full detail information about the mix design of concrete also one excel sheet which include all

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concrete mix design procedure as per is code (concrete mix design as per is 10262) so that easily calculate your mix design for building construction. Concrete Mix Design play an extremely important role in the field of civil engineering because no building erected ...

Types of concrete grade and their ratio as per British

...

When the aim is to build a concrete structure that is efficient and durable, this demands to follow the concrete mix design steps as per IS codes (IS- 10262:2009 and IS- 456:2000). If you



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are searching for detailed step by step procedure for concrete mix design of M25 grade using IS - 10262:2009 and IS - 456:2000....

Concrete Mix Design Calculation for M20, M25, M30 Concrete ...

ABSTRACT: In this paper a comparison of mix design procedures of IS method - Concrete mix proportioning guidelines (Bureau of Indian Standards-I.S.10262-2009), BS method ( BS EN 206-1 and its ...

M30 Grade Concrete Mix Design as per IS10262 - Latest ...

Concrete Mix Design

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Procedure. Data Required for Concrete Mix Design (i) Concrete Mix Design Provision ? Characteristic Compressive Strength needed in the field at 28 days grade designation = M 25 ? Maximum size of aggregate = 20 mm ? Workability = 55-75 mm ( slump value ) ? Degree of quality control = Good ( as per IS 456 )

Concrete Mix Design As Per The following points should be remembered before proportioning a concrete mix a per IS-10262-2009. This method of concrete mix proportioning is applicable only for ordinary and standard concrete grades.

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The air content in concrete is considered as nil.

Concrete Mix Design Calculations (Pdf) | Concrete Mix ...

Procedure for concrete mix design calculation as per IS 10262-2009 based on strength and durability, workability, economy is discussed in this article. To produce concrete of required strength and properties, selection of ingredients and their quantity is to be found which is called concrete mix design.

Concrete Mix design as per IS:10262-2009 | Civil ...  
Selection of Water for M30

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Grade of Concrete Mix Design Water Content as per Table 2, of IS: 10262:2009 for 20 mm maximum size of aggregate IS: 186 litres. The above-estimated water is suggested for a slump range of 25 to 50 mm in the above mentioned IS code. For each 25 mm increase in slump 3% water can be increased as per clause No. 4.2 IS ...

Mix design M35 Grade designed as per IS 10262:2009 & IS ...  
Concrete Mix Design Calculations As Per IS 10262. Concrete Mix Design IS Code IS 10262. Download concrete mix design pdf. it is used for concrete mix

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design of various grades of concrete. Following is a concrete mix design example,

CONCRETE MIX DESIGN AS PER IS 10262:2009

A-8 MIX CALCULATIONS The mix calculations per unit volume of concrete shall be as follows:

a) Volume of concrete = 1 m<sup>3</sup>.  
b) Volume of cement =  $\frac{[\text{Mass of cement}]}{\{[\text{Specific Gravity of Cement}] \times 1000\}} = \frac{385}{\{3.15 \times 1000\}} = 0.122 \text{ m}^3$ .

c) Volume of water =  $\frac{[\text{Mass of water}]}{\{[\text{Specific Gravity of water}] \times 1000\}} = \frac{158}{\{1 \times 1000\}} = 0.158 \text{ m}^3$

Concrete Mix Design Calculations

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As per British standard, different types of concrete grade are normal grade of concrete like C10, C15 & C20 and C25 are prepared according to their nominal mix ratio and standard grade of concrete and higher strength concrete grade like C30, C35, C40, C45, C50, C55, C60, C65, & C70 are prepared according to their design mix.

Mconcrete mix design for M50 grade concrete as per latest

...

CONCRETE MIX DESIGN AS PER IS 10262:2009 1. Concrete Mix Design IS 10262:2009 A K GUPTA EXECUTIVE ENGINEER (TRAINING) 14/02/2017 2.

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Introduction • Concrete Mix Design means, determination of the proportion of the concrete ingredients i.e. Cement, Water, Fine Aggregate, Coarse Aggregate which would produce concrete possessing specified ...

M25 concrete mix design  
-Steps|IS-10262:2009  
|IS-456:2000 ...

This video explain the procedure for concrete mix design as per IS:10262-2009 with solved examples.#concrete mix design#cement#mix design#concrete construction

Mix design of M40 grade concrete as per latest IS 10262:2019

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Concrete Mix Design Example as per IS Code – 10262: 2019. The Bureau of Indian Standards recommended a set procedure for the design of concrete mix mainly based on the work done in national laboratories. The Concrete Mix Design Calculation procedure is covered in IS 10262: 2019. The methods can utilize for both medium strength and high ...

Concrete Mix Design as per IS 10262-2009 - Procedure and ...

Proper Mix design is important to get good quality of concrete. This article covers the mix design of M30 Grade Concrete



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as per IS10262(CONCRETE MIX PROPORTIONING – GUIDELINES) and IS456(PLAIN AND REINFORCED CONCRETE -CODE OF PRACTICE) Codebook.

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