

# Manual Bar Bending Schedule Calculation

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*Difference between Development length and Lapping length How to calculate weight of steel in beam , slab and Column*

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*BBS Of Footing | Cutting Length, Numbers of bars in Footing | Excel Sheet BBS in Excel | steel calculation in Excel sheet Management Cutting List (Bar Bending Schedule)*

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*Learn BAR BENDING SCHEDULE (BBS) from Start !! Part:1 #civilgururji #civilengineerstraininginstitute Bar Bending Schedule of Column Footing - How to Calculate Quantity of Steel in RCC Footing? Bar Bending Schedule Part 1 | Cutting Length Formula | BBS Calculation | Quantity Surveying Bar bending schedule length of basic shapes*

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*Bar Bending Schedule Basic Formulas | Cutting Length Formulas | BBS Calculation | Quantity Surveying How To Calculate Bend Deduction Length of Steel Bars As Per IS Code 2502 :1963*

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*How to calculate steel quantity in Triangular shape | Bar Bending Schedule | BBS BBS (Bar Bending Schedule) - Beam Reinforcement Details **Manual Bar Bending Schedule Calculation***

Calculation of Bar bending schedule for footing Step – 1  
Calculate the effective length of steel rod in X and Y direction using the formula given below. Effective length = Total length – both sides covers. Calculation. Effective length along X direction =  $2000 - (2 \times 500) = 1900$  mm. Effective length along Y direction =  $1500 - (2 \times 500) = 1400$  mm

**Bar bending schedule for footing- Step by Step**

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## Procedure ...

Example Bar Bending Schedule. Step 1 – Find Cutting Length of Bars. Cutting Length of Bottom Bar =  $L_{clear} - (2 \times \text{concrete cover}) + (2 \times 500) = 3000 - (2 \times 40) + (2 \times 500) = 3920 \text{ mm}$ .

Cutting Length of top bar =  $L_{clear} - (2 \times \text{concrete cover}) = 3000 - (2 \times 40) = 2920 \text{ mm}$ .

## Bar Bending Schedule - Guidelines, Basics & Formulas

Calculation. Cutting Length = Clear Span of Slab + (2 X Development Length) + (2 x inclined length) – (45° bend x 4) – (90° bend x 2) Cutting Length = Clear Span of Slab + (2 X Ld) + (2 x 0.42D) – (1d x 4) – (2d x 2) [BBS Shape Codes] Now we know the “D” value which is the clear height of the bar (refer the image).

## How to Calculate Cutting Length in Bar Bending Schedule ...

BBS (Bar Bending Schedule) Calculation of Column BBS Manual /Automatic With Excel Tutorial Tips Civil - 12th August 2019. Calculation of Column Cutting length and Weight Calculation for Column... Read More. How to calculate BBS of Rectangular Footing with few Easy Step

## BBS ( Bar Bending Schedule ) - Tutorials Tips Civil Engineer

2/8/2019 Bar Bending Schedule (BBS) | BBS Step by Step Preparation | Sample Excel Sheet | CivilDigital | 3/12 This process of listing the location, type and size, number of and all other details is called “Scheduling”. In context of Reinforcement bars, it is called bar scheduling. In short, Bar Bending Schedule is a way of organizing rebars for each structural unit, giving detailed ...

## Bar Bending Schedule (BBS).pdf - Bar Bending

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## Schedule(BBS ...

Cutting Length of 1 Bar = 6328 mm = 6.33 m. Now Calculate weight of One Bar. One bar Length is 6.33 m. As we know formula for weight calculation of steel bar for 1 meter is =  $D^2 / 162$ . Now we using 12 mm dia of bar for Column. Than weight for 1 meter bar of 12 mm dia is. 1 meter (12mm) =  $12^2 / 162$ . 1 meter (12mm) =  $144 / 162$ . 1 meter (12mm) = 0.888 KG/ m

## Calculation of Column BBS Manual /Automatic With Excel ...

Bar Bending Schedule of Simply Supported Beam. lock. Bar Bending Schedule of Continuous Beam. lock. Site Visit for Beam Details. lock. Site Visit for Hidden Beam. lock. Bar Bending Schedule Of Slab. How To Calculate Crank Length. ... Preview - Bar Bending Schedule Calculation. Discuss (0) ...

## Preview Bar Bending Schedule Calculation

Number of bars: Suppose the spacing of stirrups is 150 c/c and the length along which they are placed is 6800 mm, we can find the number of bars by the formula below. [ Length / Spacing ] + 1 = number of bars. [ 6800 / 150 ] + 1 = 46.33.

## Bar Bending Schedule (BBS) | BBS Step by Step Preparation ...

Step 1 – Find cutting length of top bar. Cutting length of top bar = Clear Span of Beam + Development length (Anchorage)  $L_d$  on 2 sides – Clear Cover on 2 ends =  $6000 + (2 \times 50d) - 2 \times 25 = 6000 + (2 \times 50 \times 12) - 50 = 7150$  mm . Step 2 – Find cutting length of bottom bar

## Bar Bending Schedule for Beam [BBS for Beam] - Civilology

Bar Bending Schedules Reinforcement Tonnage Summing

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Spreadsheet ... on a clear and easy to read schedule. This information can then be used to calculate cost of 'as-built' reinforcement (since cost per bar diameter differ) and compare it with estimated figures. User only specifies import preferences and folder with (up to 460) BBS files - the ...

## **Bar Bending Schedules Reinforcement Tonnage Summing ...**

Two Way Slab Calculation (36:00) Bar Bending Schedule Of Pile : Bar Bending Schedule Of Pile (15:00) Bar Bending Schedule Of Pile Cap (17:00) Bar Bending Schedule Of Staircase : Bar Bending Schedule Of Staircase (34:00) How to Use. After successful purchase, this item would be added to your courses. You can access your courses in the following ...

## **Bar Bending Schedule Calculation - civilguruji.com**

Bar Bending Shape Codes: For small projects, we generally use thumb rules for reinforcement calculation. But for large scale project bar bending schedule is prepared by using bar bending shape codes to avoid unnecessary wastages. It also makes easier to cut the steel bar for the reinforcement as per the design.

## **Bar Bending Shape Codes - Bar Bending Schedule Formula**

Bar Bending Schedule of continuous Beam Guidelines for preparation of BBS :-Curtailed Bar ( Bottom Extra ) Curtailed is a theoretical point where some of the reinforcement is cut-off along the span of the beam where the bending moment reduces, given that the remaining reinforcement will be able to support the reduced bending moment.

## **Bar Bending Schedule of Beam ( BBS ) – Civil site visit**

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The preparation of bar bending schedules is one of the final stages in any concrete design following the preparation and detailing of the working drawings. Whereas the procedure is generally straightforward, it does require a certain amount of calculation which can readily be carried out with the aid of a computer program. The program in this section calculates the lengths of reinforcing bars required and outputs a bar bending schedule table together with the total weight of steel.

## **Bar Bending Schedule Formulas As Per IS:2502-1963 | Unit ...**

Reinforcement Bar Schedule is prepared in a standard manner. The bar bending schedule should be prepared and it should be submitted to the steel bar steel yard to cut and to bend the bars for purposes, because bar bending schedule is the simplest of details what is in the drawings which can easy to under stand for bar benders.

## **Preparing Bar schedule manually - Basic Civil Engineering**

Steps involved in calculating the bar bending schedule of a floor column:- Steel required for construction is ordered in Kgs or Number of Bars. The standard size of each bar is 12m. Calculating the Bar Bending schedule of the column is divided into two parts Main reinforcement calculation and ties calculation.

## **Bar Bending Schedule of a Floor Column | Steel calculation ...**

In this article, I will discuss how to calculate the bend deduction length for bars. 1. For  $45^\circ$  bend =  $1 \times d$ . 2. For  $90^\circ$  bend =  $2 \times d$ . 3. For  $135^\circ$  Bend =  $3 \times d$ . 4. For  $180^\circ$  bend =  $4 \times d$ .

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## **How To Calculate Bend Deduction Length Of Bar**

Ensoft's Bar Bending Schedule & Quantity Estimation Software Preparation of Reinforcement Bar Bending Schedules for RCC work is the most tedious and time-consuming task at the construction sites. The shape of each and every bar is to be derived for cutting, from the drawings.

## **Ensoft's Bar Bending Schedule & Quantity Estimation Software**

The table sums up all the required particulars of bars – diameter, shape of bending, length of each bent and straight portions, angles of bending, the total length of each bar, and the number of each type of bar. When Bar bending schedule is accessible, cutting and bending of reinforcement is performed at factory and delivered to site.

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