

30+ Bar Bending Schedule Basic Formulas Download

Main Bar | Dist Bar | Bent Up Bar | Chair Bar | Lapping | Cutting Length of Stirrups



Sl. No.	Details of Bar Shape	Length of Hooks	Total Length of Bar
1.	<p>Diameter (Straight bar)</p>	$2(9d) = 18d$ (Both hooks together)	$l + 18d$
2.	<p>(Hookup at one end only)</p> <p>$a = \frac{1}{2}l$ or $\frac{1}{2}l$</p> <p>45°</p> <p>D = Vertical distance (OC) between bars</p>	$2(9d) = 18d$ (Both hooks together)	$l + 18d + 0.42D$
3.	<p>(Double hook-up bar)</p> <p>$a = \frac{1}{2}l$ or $\frac{1}{2}l$</p> <p>45°</p>	$2(9d) = 18d$ (as for above cases)	$l + 18d + 2 \times 0.42D$
4.	<p>(Overlap of bars)</p> <p>45° to 45°</p> <p>(Lap)</p>	$2(9d) = 18d$	Overlap length of joint $= (40d \text{ to } 45d) + 18d$
5.		(Here, one hook height = $14d$) $2 \times (14d) = 28d$	$l + 28d = 28d$

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Reinforced Concrete B.S. Choo,T.J. MacGinley,2018-10-08 This new edition of a highly practical text gives a detailed presentation of the design of common reinforced concrete structures to limit state theory in accordance with BS 8110

Proceedings of the International Conference on Railway and Transportation (ICORT 2022) Willy Artha Wirawan,Moch. Agus Choiron,Dian M. Setiawan,2023-03-31 This is an open access book Politeknik Perkeretaapian Indonesia Madiun Indonesia presents ICORT 2022 Innovative for Smart Sustainable and Safe Transportation Systems as its main focus In response to several world challenges such as sustainable development transportation issues global convergence of information and communications technologies along with smart systems as opportunities as well as challenges in developments for better industries it is considered important to discover innovative approaches from science and engineering perspectives Innovation suggests the introduction of novelty to create better solutions Innovation in engineering and science requires contributions from multidisciplinary sectors academics researchers practitioners and involving industries All accepted papers from ICORT 2022 will be submitted in Proceeding or Jurnal Perkeretaapian Indonesia Indonesian Railway Journal SINTA indexed grade 4 or Journal of Railway Transportation and Technology Indexed Google Scholar DOI Dimensions ROAD Thus ICORT 2022 invites academics or lecturers researchers practitioners and involving industries in Science and Engineering fields to contribute their papers and works to be presented at our forthcoming conference *Bridge Analysis Design and Construction* ,1975 **Journal** British Waterworks Association,1968 **Modern Steel Construction** ,2004

Reinforced Concrete Design Prab Bhatt,T.J. MacGinley,Ban Seng Choo,2006-05-02 Setting out design theory for concrete elements and structures and illustrating the practical applications of the theory the third edition of this popular textbook has been extensively rewritten and expanded to conform to the latest versions of BS8110 and EC2 It includes more than sixty clearly worked out design examples and over 600 diagrams plans and charts as well as giving the background to the British Standard and Eurocode to explain the why as well as the how and highlighting the differences between the codes New chapters on prestressed concrete and water retaining structures are included and the most commonly encountered design problems in structural concrete are covered Invaluable for students on civil engineering degree courses explaining the principles of element design and the procedures for the design of concrete buildings its breadth and depth of coverage also make it a useful reference tool for practising engineers *Design of Foundation Systems* N. P. Kurian,Nainan P. Kurian,2005 This textbook first published in 1992 now appearing in its third edition retains the best features from the earlier editions and adds significantly to the contents which include developments in the 1990s **Civil Engineering** ,1983

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