

General Notes 4

Civil

Engineering



Basics of Civil Engineering:

1. Height of building = 3.15m.
2. Height of Parapet wall should be 1m.
3. Height of window = 2.1m.
4. Minimum thickness of slab = 125mm.
5. Minimum thickness of lintel = 15cm.
6. Thickness of DPC = 2.5cm.
7. Maximum diameter of the bars used for lapping is 36mm. Bars having more than this diameter are not allowed.
8. Minimum diameter of bars used in Slab = 8mm.
9. Minimum diameter of bars used in Column = 12mm.
10. Minimum number of bars used in Square or Rectangular Column = 4 bars.
11. Minimum number of bars used in Circular Column = 6 bars.
12. Maximum diameter of bars used in Slab = $1/8 \times \text{thickness of slab}$.
13. Maximum Chair spacing = 1m.
14. Chairs minimum of 12 mm diameter bars to be used.

Most Useful Knowledge for Civil Site Engineers & Quantity Surveyors

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American Society for Testing Materials

A red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located to the right of the text 'American Society for Testing Materials'.

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Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision Robby Caspeeel, Luc Taerwe, Dan Frangopol, 2018-10-31 This volume contains the papers presented at IALCCE2018 the Sixth International Symposium on Life Cycle Civil Engineering IALCCE2018 held in Ghent Belgium October 28 31 2018 It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R Khan lecture 8 keynote lectures and 390 technical papers from all over the world Contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems Life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience Applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure systems etc During the IALCCE2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

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all were subjected to a rigorous peer review process with each paper reviewed by a minimum of two experts. Papers were also checked for quality and plagiarism after which 163 papers were accepted for presentation and publication. Topics covered include the research and development of concrete structure design and analysis, structural mechanics and structural engineering, geological exploration and earthquake engineering, building technology, urban planning, energy environment and advanced engineering science and applications. The book offers a state of the art overview of recent developments and will be of interest to all those working in the fields of hydraulic and civil engineering technology. **Civil Engineering and Urban Planning III**

Kouros Mohammadian, Konstadinos G. Goulias, Elif Cicek, Jieh-Jiuh Wang, Chrysanthos Maraveas, 2014-07-23

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An examination of creative systems in structural and construction engineering taken from conference proceedings. Topics covered range from construction methods, safety and quality to seismic response of structural elements and soils and pavement analysis. *The Works' Manager's Hand-book of Modern Rules, Tables, and Data for Civil and Mechanical Engineers, Millwrights, and Boiler Makers; Tool Makers, Machinists, and Metal Workers; Iron and Brass Founders, Etc., Etc.* Walter S. Hutton, 1901

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