

## Sheet ( 3 )

### Flat Slab

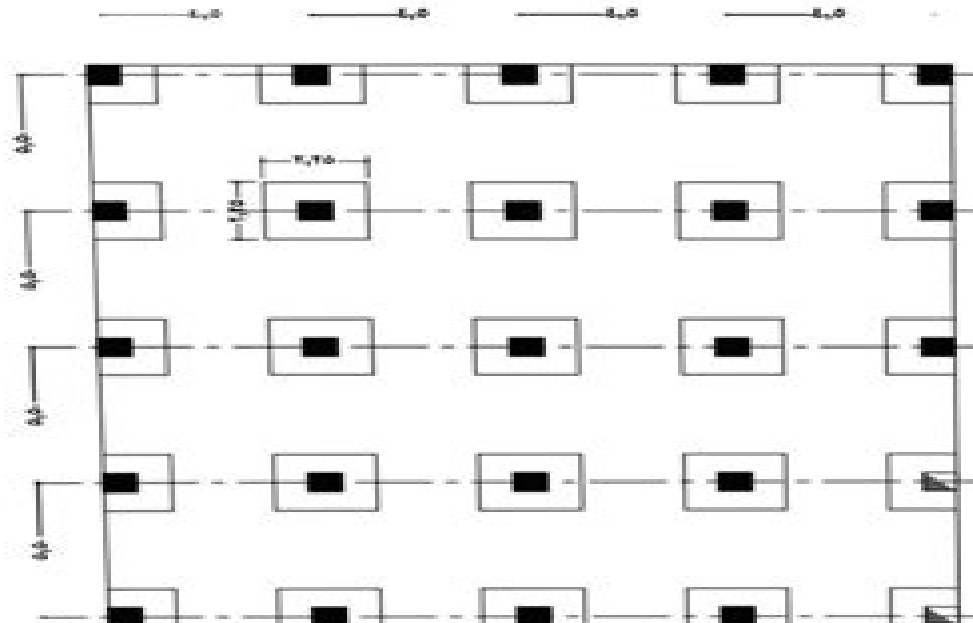
- 1 - It's Required to design the shown slabs and the design will be according to the Egyptian code requirements for the dimentions and steel details .
- 2 - Check the punching of an interior ,edge and corner column.
- 3 - Draw the reinforcement of the slabs ( Plan scale 1 : 50 )

For all slabs

$F_y = 420 \text{ N/mm}^2$   $F_{cu} = 30 \text{ N/mm}^2$  column 450\*450

L.L =  $7.00 \text{ KN/m}^2$

Covering =  $2.50 \text{ KN/m}^2$  Wall =  $4.50 \text{ KN/m}^2$



# Flat Slab Manual

**Jessica J Manson**



## **Flat Slab Manual:**

**Structural Design Guide to the ACI Building Code** Edward S. Hoffman, David P. Gustafson, Albert J.

Gouwens, 2013-03-09 This book is intended to guide practicing structural engineers familiar with earlier ACI building codes into more profitable routine designs with the ACI 1995 Building Code ACI 318 95 Each new ACI Building Code expresses the latest knowledge of reinforced concrete in legal language for safe design application Beginning in 1956 with the introduction of ultimate strength design each new code offered better utilization of high strength reinforcement and the compressive strength of the concrete itself Each new code thus permitted more economy as to construction material but achieved it through more detailed and complicated design calculations In addition to competition requiring independent structural engineers to follow the latest code for economy it created a professional obligation to follow the latest code for accepted levels of structural safety The increasing complexity of codes has encouraged the use of computers for design and has stimulated the development of computer based handbooks Before computer software can be successfully used in the structural design of buildings preliminary sizes of structural elements must be established from handbook tables estimates or experienced first guesses for input into the computer *Concrete Construction Manual* Friedbert Kind-Barkauskas, Bruno Kauhsen, Stefan Polónyi, Jörg Brandt, 2013-01-07 No detailed description available for Concrete Construction Manual

**Technical Manual** United States Department of the Army, 1963 *Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary* ACI Committee 318, American Concrete Institute, 2008 The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications Welding of reinforcement is covered by reference to the appropriate AWS standard Uses of the Code include adoption by reference in general building codes and earlier editions have been widely used in this manner The Code is written in a format that allows such reference without change to its language Therefore background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included The Commentary is provided for this purpose Some of the considerations of the committee in developing the Code portion are discussed within the Commentary with emphasis given to the explanation of new or revised provisions Much of the research data referenced in preparing the Code is cited for the user desiring to study individual questions in greater detail Other documents that provide suggestions for carrying out the requirements of the Code are also cited

**Reclamation Manual: Design and construction, pt. 2. Engineering design: Design supplement no. 2: Treatise on dams; Design supplement no. 3: Canals and related structures; Design supplement no. 4: Power systems; Design supplement no. 5: Field installation procedures; Design supplement no. 7: Valves, gates, and steel conduits; Design supplement no. 8: Miscellaneous mechanical equipment and facilities; Design supplement no. 9: Buildings; Design supplement no. 10: Transmission structures; Design supplement no. 11: Railroads, highways, and camp facilities** United States. Bureau of Reclamation, Shearheads British Cement

Association,1990      Designers' Guide to EN 1992-1-1 Eurocode 2: Design of Concrete Structures Andrew W Beeby,R S Narayanan,2005-09-30 Applies to the design of building and civil engineering structures in plain reinforced and pre stressed concrete The code for convenience referred to as EC2 is written in several parts EN 1992 1 1 EN 1992 1 2 EN 1992 2 and EN 1992 3      Finite Element Design of Concrete Structures Guenter Axel Rombach,2004 In Finite Element Design of Concrete Structures practical problems and their solutions the author addresses this blind belief in computer results by offering a useful critique that important details are overlooked due to the flood of information from the output of computer calculations Indeed errors in the numerical model may lead in extreme cases to structural failures as the collapse of the so called Sleipner platform has demonstrated      **Technical Manual** United States. War Department,1946      *Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI 318R-05)* ACI Committee 318,2005      A Guide on the Design of Reinforced Concrete Structures Pasquale De Marco,2025-08-11 A Comprehensive Guide to the Design of Reinforced Concrete Structures Unlocking the Secrets of Strength and Durability In the realm of modern construction reinforced concrete stands as a testament to human ingenuity a material that has revolutionized the way we build and shape our world This remarkable composite formed by the fusion of concrete and steel possesses both the compressive strength of concrete and the tensile strength of steel resulting in structures that are both resilient and enduring This comprehensive guide to the design of reinforced concrete structures is an indispensable resource for professionals and students alike providing a thorough understanding of the principles and techniques required to create safe and efficient structures that can withstand the test of time With its clear and concise explanations detailed illustrations and comprehensive coverage of the latest industry standards and practices this book equips readers with the knowledge and skills necessary to excel in this field Divided into ten chapters this book covers a wide range of topics from the fundamentals of reinforced concrete design to the analysis and design of various structural elements including beams slabs columns footings walls staircases chimneys and bridges Each chapter delves into the intricacies of the topic with numerous examples and case studies to illustrate the practical application of the concepts discussed By delving into the depths of reinforced concrete design this book provides readers with the insights and tools necessary to create structures that are not only aesthetically pleasing but also structurally sound and capable of withstanding the forces of nature and the demands of modern life Whether you are an experienced professional or an aspiring engineer this book is an essential addition to your library serving as a trusted companion on your journey towards mastering this essential skill Throughout the book readers will find a wealth of valuable resources including In depth explanations of the fundamental principles of reinforced concrete design Clear and concise illustrations to aid in the understanding of complex concepts Comprehensive coverage of the latest industry standards and practices Numerous examples and case studies to demonstrate the practical application of the concepts discussed Thought provoking exercises and review questions to reinforce learning With its comprehensive coverage practical approach and engaging writing style

this book is an indispensable resource for anyone seeking to excel in the field of reinforced concrete design If you like this book write a review      **Concrete Designers' Manual** George A. Hool, Charles Smith Whitney, 1926      **Rocky Mountain Field Guide** Daniel Mathews, 2024-10-01 The magnificent and enduring spine of the United States the Rocky Mountains are host to thousands of flora and fauna species as well as rugged topography and rich and varied habitats Comprehensive yet portable this beautiful guide describes trees and shrubs flowering plants and ferns fungi and lichens insects and fish amphibians and reptiles birds and mammals rocks and even the changing mountain climates and the ecological effects of forest fires Naturalist and writer Daniel Mathews delivers immersive natural history With humor pathos and verbal elegance he covers the central core of the Rockies Glacier National Park western Montana and eastern Idaho all of Colorado's mountains the Sangre de Cristo Mountains in New Mexico the Wasatch and Uinta Mountains in Utah and the Bighorns Laramie and Medicine Bow Ranges in Wyoming This essential guide to the region is perfect for hikers campers naturalists students teachers and tourists everyone who wants to know more about this stunning and expansive mountain range

**Guide to Application of the NEHRP (National Earthquake Hazards Reduction Program) Recommended Provisions in Earthquake-resistant Design**, 1987      **Punching of Structural Concrete Slabs** fib Fédération internationale du béton, 2001-01-01 Punching is considered to be one of the most difficult problems in structural concrete design and mechanical models or theoretical analyses were developed rather late in the history of concrete research attempts This fib Bulletin reviews the development of design models and theoretical analyses since the CEB Bulletin 168 Punching Shear in Reinforced Concrete State of the Art Report published in 1985 The role of the concrete tensile strength was specially addressed In this respect the present bulletin is also following up the CEB Bulletin 237 Concrete Tension and Size Effects Utilisation of concrete tension in structural concrete design and relevance of size effect Contributions from CEB Task Group 2 7 published in 1997 Apart from new theoretical developments a comprehensive databank for comparisons with experimental evidence is included About 400 punching tests were critically reviewed and evaluated in a consistent manner This is thought to be the first step towards a generally agreed selection of reliable tests The evident value of such a data bank is illustrated by comparisons carried out between the data and some of the analytical proposals as well as empirical code formulas List of contents 1 Introduction 2 Code equations 3 Mechanical models for punching 4 New developments for mechanical models 5 Numerical investigations 7 Comparison of mechanical models and test results of slabs without shear reinforcement 8 Comparison of code rules and tests of flat slabs without shear reinforcement 9 Comparison of codes models and tests of flat slabs with shear reinforcement 10 Experimental investigations 11 Summary and conclusions References Appendices I Databank on slabs without shear reinforcement II Databank on slabs with shear reinforcement III Comparison of test data with code rules IV Comparison of test data with selected models V Notations      The Gentleman's Magazine and Historical Review, 1850      *Seismic Performance Assessment of Buildings: Implementation guide*, 2018      **Platers' Guide**

,1911      **Manual of Egyptian Archaeology and Guide to the Study of Antiquities in Egypt** Gaston Maspero,1902  
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