

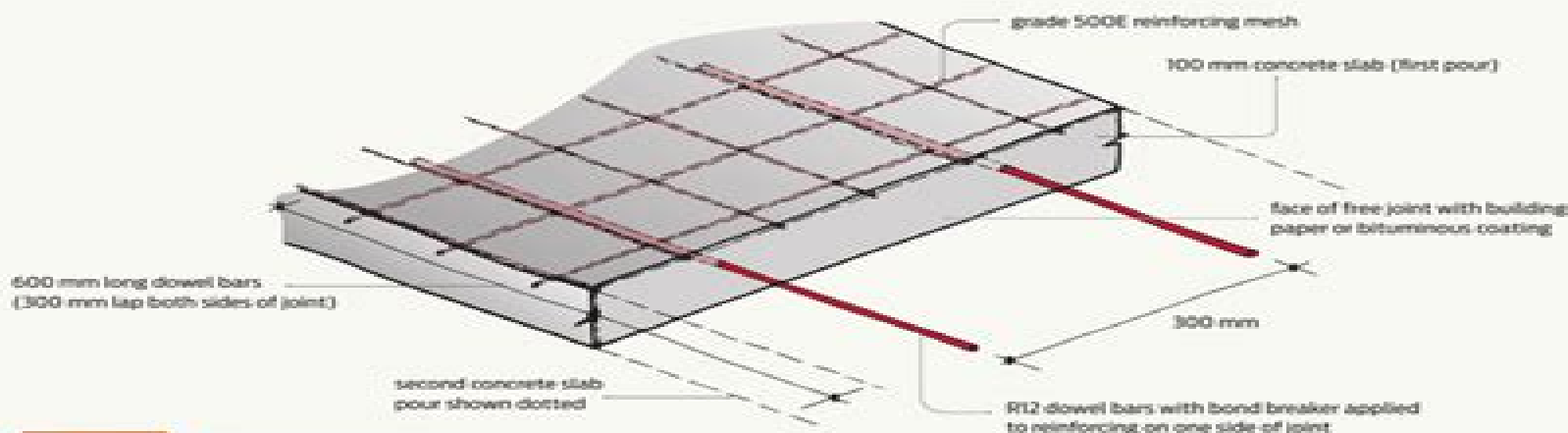
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BY ALIDE ELKINS,  
FREELANCE TECHNICAL  
WRITER, WELLINGTON

# Concrete slabs and control joints

AS A RESULT OF THE CANTERBURY EARTHQUAKES, THERE HAVE BEEN CHANGES TO THE REQUIREMENTS FOR CONCRETE FLOOR SLABS. ARE YOU UP TO DATE?



**Figure 1** Reinforcing a free joint.

**BEFORE THE CANTERBURY EARTHQUAKES,** concrete floor slabs for single-storied dwellings could be unreinforced or reinforced with polypropylene fibres.

Due to the poor performance of concrete slabs in the earthquakes, the New Zealand Building Code compliance document B1 Structure was amended to require concrete slab-on-ground floors to be reinforced with grade 500E ductile reinforcing mesh in accordance with AS/NZS 4671:2001.

## Reinforcing mesh

Although the requirement for reinforcing all concrete floor slabs initially only applied to the

Canterbury region, since 1 February 2012, it has been mandatory for concrete slabs on ground throughout the country.

The 500E reinforcing must be a minimum 2.27 kg/m<sup>2</sup> (or 1.15 kg/m<sup>2</sup> in each direction) welded mesh sheets. The reinforcing mesh sheets must be lapped at sheet joints by the greater of a minimum 225 mm lap or in accordance with the manufacturer's specifications. It must extend to within 75 mm of the outside edge of the floor slab (including foundation wall) and be tied to foundation wall reinforcing according to NZS 3604:2011 Figures 7.13, 7.14, 7.15 and 7.16 with R10 starters

at 600 mm centres and lapped with the slab mesh.

## When are free joints needed?

In NZS 3604:2011 paragraph 7.5.1, the size of a reinforced concrete slab on ground is limited to a maximum of 24 m in any direction. Where concrete floor slab dimensions exceed 24 m in one or both directions, a free joint must be installed.

If a slab exceeds the 24 m maximum dimension without the inclusion of free joints, it must be specifically designed.

A free joint is defined as a construction joint 'where no reinforcing mesh passes through the

# Concrete Floor Slab Design Guide

**A. Hillerborg**



## Concrete Floor Slab Design Guide:

**Guide for Concrete Floor and Slab Construction** American Concrete Institute. Committee 302, ACI Committee 302, 2004

**Single Pour Industrial Floor Slabs** John Knapton, 1999 Offering a comprehensive guide for all those involved with industrial floors this book deals with the design construction and behaviour of single pour industrial floors such as those constructed by laser guided screeding machines

Design Guide for Voided Concrete Slabs Mike Mota, 2014 This design guide presents state of the art practices in voided slab construction The concept centers on removing concrete mass from the areas of the slab where it is structurally inefficient thus reducing the dead load by as much as 35% This floors system allows for large clear spans of efficient overall slab thickness Innovative structural slab construction practices have taken the efficiency of traditional slab systems to new heights

Guide for Concrete Slabs That Receive Moisture-Sensitive Flooring Materials ACI Committee 302, American Concrete Institute, 2006

Reinforced Concrete Slabs Robert Park, William L. Gamble, 1999-12-28 Comprehensive up to date coverage of reinforced concrete slabs from leading authorities in the field Offering an essential background for a thorough understanding of building code requirements and design procedures for slabs Reinforced Concrete Slabs Second Edition provides a full treatment of today's approaches to reinforced concrete slab analysis and design Now brought up to date with a wealth of new material on computer optimization the equivalent frame method lateral load analysis and other current topics the new edition of this classic text begins with a general discussion of slab analysis and design followed by an exploration of key methods equivalent frame direct design and strip methods and theories elastic lower bound and yield line theories Later chapters discuss other important issues including shear strength serviceability membrane action and fire resistance Comprehensive and accessible Reinforced Concrete Slabs Second Edition appeals to a broad range of readers from senior and graduate students in civil and architectural engineering to practicing structural engineers architects contractors construction engineers and consultants

*Design and Construction of Concrete Slabs on Grade*, 1986

Architectural Graphic Standards The American Institute of Architects, 2007-03-30 Since 1932 the ten editions of Architectural Graphic Standards have been referred to as the architect's bible From site excavation to structures to roofs this book is the first place to look when an architect is confronted with a question about building design With more than 8 000 architectural illustrations including both reference drawings and constructible architectural details this book provides an easily accessible graphic reference for highly visual professionals To celebrate seventy five years as the cornerstone of an industry this commemorative Eleventh Edition is the most thorough and significant revision of Architectural Graphic Standards in a generation Substantially revised to be even more relevant to today's design professionals it features An entirely new innovative look and design created by Bruce Mau Design that includes a modern page layout bold second color and new typeface Better organized a completely new organization structure applies the UniFormat classification system which organizes content by function rather than product or material Expanded and

updated coverage of inclusive universal and accessible design strategies Environmentally sensitive and sustainable design is presented and woven throughout including green materials LEEDS standards and recyclability A bold contemporary new package as impressive closed as it is open the Eleventh Edition features a beveled metal plate set in a sleek black cloth cover Ribbon Markers included as a convenient and helpful way to mark favorite and well used spots in the book All New material Thoroughly reviewed and edited by hundreds of building science experts and experienced architects all new details and content including new structural technologies building systems and materials emphasis on sustainable construction green materials LEED standards and recyclability expanded and updated coverage on inclusive universal and accessible design strategies computing technologies including Building Information Modeling BIM and CAD CAM new information on regional and international variations accessibility requirements keyed throughout the text new standards for conducting disseminating and applying architectural research New and improved details With some 8 500 architectural illustrations including both reference drawings and constructible architectural details Architectural Graphic Standards continues to be the industry s leading easily accessible graphic reference for highly visual professionals Design Manual, Mechanical Engineering United States. Naval Facilities Engineering Command,1972 **Technical Manual** United States Department of the Army,1980 **Design and Construction of Concrete Floors** George Garber,1991-02-18 This guide to the construction and design of concrete floors covers both British and American standards In a logical sequence the author considers classification of floors by usage before dealing with design construction and floor finishes Useful as an ideal first book for designers working on floor projects the text also stresses the need to design floors according to the owner s specific requirements A comprehensive glossary and detailed appendices are also included *Concrete Designers' Manual, Tables and Diagrams for the Design of Reinforced Concrete Structures* George A. Hool,Charles Smith Whitney,1921 **Strip Method Design Handbook** A. Hillerborg,2012-08-06 The Strip Method Design Handbook is a thorough guide to the use of the strip method developed by Arne Hillerborg for design of reinforced concrete slabs The strip method of design is relevant to many types of slabs including rectangular slabs with all sides supported and regular flat slabs with cantilevering parts The author discusses unevenly Guide for Construction of Concrete Floors on Grade American Concrete Institute. Committee 332,1962 *Concrete Designers' Manual* George A. Hool,Charles Smith Whitney,1926 *Building Structural Design Handbook* Richard White,Charles G. Salmon,1987-05-08 This book provides insight into the design analysis and construction of a variety of building types *Structural Design Guide to the ACI Building Code* Paul F. Rice,Edward S. Hoffman,1979 **Building Design Handbook** Wire Reinforcement Institute. Technical Committee,1960 **Precast Concrete Floor Slabs** Geoffrey Peter Gibson,John Edward Cairns,Concrete Manufacturers Association (South Africa),1997 **The Design of Reinforced Concrete Slabs, Beams and Columns** Hiram Bertrand Andrews,1909 **Concrete Designers' Manual** George Albert Hool,Charles Smith Whitney,1921

The Top Books of the Year Concrete Floor Slab Design Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. Concrete Floor Slab Design Guide : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Concrete Floor Slab Design Guide : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Table of Contents Concrete Floor Slab Design Guide**

1. Understanding the eBook Concrete Floor Slab Design Guide
  - The Rise of Digital Reading Concrete Floor Slab Design Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Concrete Floor Slab Design Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Concrete Floor Slab Design Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Concrete Floor Slab Design Guide
  - Personalized Recommendations
  - Concrete Floor Slab Design Guide User Reviews and Ratings
  - Concrete Floor Slab Design Guide and Bestseller Lists
5. Accessing Concrete Floor Slab Design Guide Free and Paid eBooks
  - Concrete Floor Slab Design Guide Public Domain eBooks
  - Concrete Floor Slab Design Guide eBook Subscription Services
  - Concrete Floor Slab Design Guide Budget-Friendly Options
6. Navigating Concrete Floor Slab Design Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Concrete Floor Slab Design Guide Compatibility with Devices
  - Concrete Floor Slab Design Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Concrete Floor Slab Design Guide
  - Highlighting and Note-Taking Concrete Floor Slab Design Guide
  - Interactive Elements Concrete Floor Slab Design Guide
8. Staying Engaged with Concrete Floor Slab Design Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Concrete Floor Slab Design Guide
- 9. Balancing eBooks and Physical Books Concrete Floor Slab Design Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Concrete Floor Slab Design Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Concrete Floor Slab Design Guide
  - Setting Reading Goals Concrete Floor Slab Design Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Concrete Floor Slab Design Guide
  - Fact-Checking eBook Content of Concrete Floor Slab Design Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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