



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?

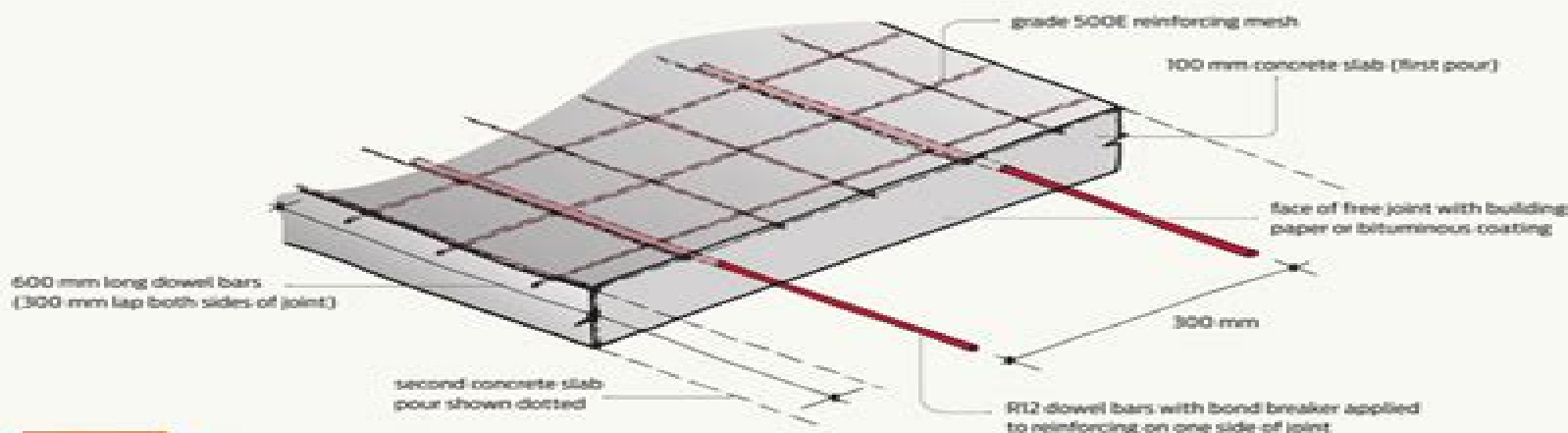


Figure 1 Reinforcing a free joint.

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^2 (or 1.15 kg/m^2 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

**ACI Committee 360, American Concrete
Institute**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the text box.

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 Concrete Slab Design Guide: Engineering and Practical Considerations Pasquale De Marco, 2025-04-27 Concrete slabs are essential structural elements in a wide range of construction projects from residential buildings to industrial facilities This book provides a comprehensive guide to concrete slab design covering the fundamental principles practical considerations and latest advancements in the field With its clear explanations detailed illustrations and real world examples this book is an invaluable resource for engineers architects contractors and students alike Whether you are designing a new slab or evaluating an existing one this book will equip you with the knowledge and tools you need to ensure a successful project outcome Inside this book you will find A thorough understanding of concrete slab behavior and structural analysis methods Comprehensive coverage of reinforcement strategies including bar placement spacing and detailing In depth exploration of foundation design for concrete slabs including soil structure interaction and settlement analysis Detailed guidance on joint design and detailing to control cracking and ensure structural integrity Practical insights into construction practices including concrete mix design placement and curing techniques A comprehensive overview of sustainability considerations in concrete slab design including energy efficiency and green building strategies Case studies and examples of innovative slab systems and emerging technologies that are transforming the industry This book is an essential reference for anyone involved in the design construction or maintenance of concrete slabs With its comprehensive coverage and practical approach it is the ultimate guide to designing concrete slabs that are both structurally sound and cost effective If you like this book write a review on google books *Design of Slabs-on-ground* ACI Committee 360, American Concrete Institute, 2006 **Guide for Concrete Slabs That Receive Moisture-Sensitive Flooring Materials** ACI Committee 302, American Concrete Institute, 2006 *Design and Construction of Concrete Floors, Second Edition* George Garber, 2006-06-30 Concrete floors still form one of the most common structural elements in construction today This book provides an introductory guide to the design and construction of concrete floors It is aimed at designers civil and structural engineers contractors and engineering and architectural consultants **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 floor 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 *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

Concrete Floors and Slabs Ravindra K. Dhir, Moray D. Newlands, T. A. Harrison, 2002 Concrete is a global material that underwrites commercial wellbeing and social development There is no substitute that can be used on the same engineering scale and its sustainability exploitation and further development are imperatives to creating and maintaining a healthy economy and environment worldwide The pressure for change and improvement of performance is relentless and necessary Concrete must keep evolving to satisfy the increasing demands of all its users *Punching shear of structural concrete slabs* FIB - Féd. Int. du Béton, 2017 fib Bulletin 81 reports the latest information available to researchers and practitioners on the analysis design and experimental evidence of punching shear of structural concrete slabs It follows previous efforts by the International Federation for Structural Concrete fib and its predecessor the Euro International Committee for Concrete CEB through CEB Bulletin 168 Punching Shear in Reinforced Concrete 1985 and fib Bulletin 12 Punching of structural concrete slabs 2001 and an international symposium sponsored by the punching shear subcommittee of ACI Committee 445 Shear and Torsion and held in Kansas City Mo USA in 2005 This bulletin contains 18 papers that were presented in three sessions as part of an international symposium held in Philadelphia Pa USA on October 25 2016 The symposium was co organized by the punching shear sub committee of ACI 445 and by fib Working Party 2.2.3 Punching and Shear in Slabs with the objectives of not only disseminating information on this important design subject but also promoting harmonization among the various design theories and treatment of key aspects of punching shear design The papers are organized in the same order they were presented in the symposium The symposium honored Professor Emeritus Neil M Hawkins University of Illinois at Urbana Champaign USA whose contributions through the years in the field of punching shear of structural concrete slabs have been paramount The papers cover key aspects related to punching shear of structural concrete slabs under different loading conditions the study of size effect on punching capacity of slabs the effect of slab reinforcement ratio on the response and failure mode of slabs without and with shear reinforcement and its implications for the design and formulation in codes of practice an examination of different analytical tools to predict the punching shear response of slabs the study of the post

punching response of concrete slabs the evaluation of design provisions in modern codes based on recent experimental evidence and new punching shear theories and an overview of the combined efforts undertaken jointly by ACI 445 and fib WP 2.2.3 to generate test result databanks for the evaluation and calibration of punching shear design recommendations in North American and international codes of practice

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