

PCI Manual for the Design of Hollow Core Slabs

Roger J. Becker; Donald R. Buettner

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Pci Manual For The Design Of Hollow Core Slabs

Kim S. Elliott



Pci Manual For The Design Of Hollow Core Slabs:

PCI Manual for the Design of Hollow Core Slabs Donald R. Buettner, Roger J. Becker, 1998-01-01 PCI Manual for the Design of Hollow Core Slabs Donald R. Buettner, Roger J. Becker, 1985 This document is intended to cover the primary design requirements for hollow core floor and roof systems In instances where the design is no different than for other prestressed members the PCI Design Handbook and the ACI Building Code should be consulted for more in depth discussion For the architect or consulting engineer this manual is intended as a guideline for working with hollow core slabs a guide for the use and application of hollow core slabs and an indication of some of the limitations of hollow core slabs For the plant engineer the manual will hopefully present some backup and reference material for dealing with everyday design problems

Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI 318R-05) ACI Committee 318, 2005 **PCI Design Handbook** Leslie D. Martin, Christopher J. Perry, 2004 The Sixth Edition provides easy to follow design procedures newly formatted numerical examples and both new and updated design aids using ASCE 7 02 ACI 318 02 the third edition of the AISC Steel Manual and IBC 2003 It also includes new and updated information on 15 foot wide double tee load tables seismic design torsion and shear design load and resistance factors headed stud connection design and fire resistance **Precast Concrete Structures** Kim S. Elliott, 2019-08-08 This second edition of Precast Concrete Structures introduces the conceptual design ideas for the prefabrication of concrete structures and presents a number of worked examples that translate designs from BS 8110 to Eurocode EC2 before going into the detail of the design manufacture and construction of precast concrete multi storey buildings Detailed structural analysis of precast concrete and its use is provided and some details are presented of recent precast skeletal frames of up to forty storeys The theory is supported by numerous worked examples to Eurocodes and European Product Standards for precast reinforced and prestressed concrete elements composite construction joints and connections and frame stability together with extensive specifications for precast concrete structures The book is extensively illustrated with over 500 photographs and line drawings **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 *Code Requirements for Environmental Engineering Concrete Structures (ACI 350-01) and Commentary (ACI 350R-01)* ACI Committee 350, American Concrete Institute, 2001 Standards for tests and materials Durability requirements Concrete quality mixing and placing Formwork embedded pipes and construction and movement joints Details of reinforcement Analysis and design general considerations Strength and serviceability requirements Flexure and axial loads Shear and torsion Development and splices of reinforcement Two way slab systems Walls Footings Precast concrete Composite concrete flexural members Prestressed concrete Shells and folded plate members Strength evaluation of existing structures Special provisions for seismic design Structural plain concrete *PCI Journal* ,2006 **PCI Design Handbook** ,1999 Accompanying CD ROM contains files that compliment the text **Precast Prestressed Concrete for Building Structures** Kim S. Elliott, Mark Magill, 2024-03-21 This guide to precast prestressed concrete (PSC) introduces and applies principles for the design of PSC slabs thermal slabs beam and block flooring and main beams including where appropriate cantilevers and composite and continuous construction The book provides numerous worked examples for a wide range of PSC elements and covers the innovative use of PSC on several projects in the UK over the past ten years drawing on the authors first hand experience in the design and manufacture of special products The contents are in line with latest revisions of the Eurocodes and European Product Standards Precast Prestressed Concrete for Building Structures is ideal for consulting structural engineers clients PSC manufacturers and advanced undergraduate and graduate students both as a guide and a textbook *PCI Design Handbook* Precast/Prestressed Concrete Institute, 1992 *ACI Manual of Concrete Practice* ,2005 [Proceedings of the Canadian Society for Civil Engineering Annual Conference 2024, Volume 11](#) Ehab Elsalakawy, Ahmed Elshaer, Ayman El Ansary, 2025-10-22 This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2024 The contents of this volume focus on specialty conferences in structural engineering This volume will prove a valuable resource for those in academia and industry **PCI Manual on Design of Connections for Precast Prestressed Concrete** Prestressed Concrete Institute, 1973 **PCI Manual for Structural Design of Architectural Precast Concrete** Prestressed Concrete Institute, 1977 **PCI Manual on Design of Connections for Precast Prestressed Concrete** PCI Committee on Connection Details, 1973 *ACI Structural Journal* ,1993 *Recent Research and Developments in Cold-formed Steel Design and Construction* Wei-wen Yu, Roger A. LaBoube, 1990 **Concrete International** ,1994 [Index and Directory of U.S. Industry Standards](#) ,1987

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