

PCI Connections Manual

for precast and prestressed concrete construction



Prepared by the
PCI Connection
Details Committee

Pci Prestressed Concrete Manual

Sebastian Brünink



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PCI Connections Manual for Precast and Prestressed Concrete Construction Larbi Sennour, 2008 *PCI Manual for Structural Design of Architectural Precast Concrete* Prestressed Concrete Institute, 1977 PCI Manual on Design of Connections for Prestressed Concrete PCI Committee on Connection Details, 1973 **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 **PCI Design Handbook** Prestressed Concrete Institute, 1978 *PCI Manual on Design of Connections for Precast Prestressed Concrete* Prestressed Concrete Institute. Committee on Connection Details (1970-1972), 1973 **Manual for Quality Control for Plants and Production of Structural Precast Concrete Products** PCI Plant Certification Committee, 1999 **PCI Design Handbook** Precast/Prestressed Concrete Institute, 1992 *PCI Manual on Design of Connections for Precast Prestressed Concrete* Prestressed Concrete Institute, 1973 **PCI Manual for Structural Design of Architectural Precast Concrete** , *PCI Manual on Design of Connections for Precast Prestressed Concrete* PCI Committee on Connection Details, 1973 Pci Design Handbook Precast, Precast/Prestressed Concrete Institute (Chicago, Illinois), 2025-10-30 *PCI Design Handbook* 9th Edition MNL 120 25 PCI is the authority for the design manufacture and use of structural precast prestressed concrete and architectural precast concrete This ninth edition design guide for precast and prestressed concrete provides easy to follow design procedures both new and updated numerical examples and both new and updated design aids It provides the designer with comprehensive procedures for the code compliant and efficient design of both architectural and structural precast and prestressed concrete products *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 **PCI Manual for Structured Design of Architectural Precast Concrete** , 1977 Planning and design handbook on precast building structures FIB - Féd. Int. du Béton, 2014 In 1994 fib Commission 6 Prefabrication edited a successful Planning and Design Handbook that ran to approximately 45 000 copies and was published in Spanish and German Nearly 20 years later Bulletin 74 brings that first publication up to date It offers a synthesis of the latest structural design knowledge about precast building structures against

the background of 21st century technological innovations in materials production and construction With it we hope to help architects and engineers achieve a full understanding of precast concrete building structures the possibilities they offer and their specific design philosophy It was principally written for non seismic structures The handbook contains eleven chapters each dealing with a specific aspect of precast building structures The first chapter of the handbook highlights best practice opportunities that will enable architects design engineers and contractors to work together towards finding efficient solutions which is something unique to precast concrete buildings The second chapter offers basic design recommendations that take into account the possibilities restrictions and advantages of precast concrete along with its detailing manufacture transport erection and serviceability stages Chapter three describes the precast solutions for the most common types of buildings such as offices sports stadiums residential buildings hotels industrial warehouses and car parks Different application possibilities are explored to teach us which types of precast units are commonly used in all those situations Chapter four covers the basic design principles and systems related to stability Precast concrete structures should be designed according to a specific stability concept unlike cast in situ structures Chapter five discusses structural connections Chapters six to nine address the four most commonly used systems or subsystems of precast concrete in buildings namely portal and skeletal structures wall frame structures floor and roof structures and architectural concrete facades In chapter ten the design and detailing of a number of specific construction details in precast elements are discussed for example supports corbels openings and cutouts in the units special features related to the detailing of the reinforcement and so forth Chapter eleven gives guidelines for the fire design of precast concrete structures The handbook concludes with a list of references to good literature on precast concrete construction

PCI Post-tensioning Manual Prestressed Concrete Institute,1972

Concrete Construction Engineering Handbook Edward G. Nawy,2008-06-24 The Concrete Construction Engineering Handbook Second Edition provides in depth coverage of concrete construction engineering and technology It features state of the art discussions on what design engineers and constructors need to know about concrete focusing on The latest advances in engineered concrete materials Reinforced concrete construction Specialized construction techniques Design recommendations for high performance With the newly revised edition of this essential handbook designers constructors educators and field personnel will learn how to produce the best and most durably engineered constructed facilities

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