

# Pci Manual Prestress

PCI Post-tensioning Manual  
PCI Connections Manual for Precast and Prestressed Concrete Construction  
PCI Manual on Design of Connections for Precast Prestressed Concrete  
PCI Design Handbook  
PCI Manual on Design of Connections for Prestressed Concrete  
PCI Manual for Structural Design of Architectural Precast Concrete  
PCI Manual on Design of Connections for Precast Prestressed Concrete  
Extending Span Ranges of Precast Prestressed Concrete Girders  
Evaluation and Repair Procedures for Precast/prestressed Concrete Girders with Longitudinal Cracking in the Web  
Planning and design handbook on precast building structures  
Supervision of Concrete Construction 2  
Concrete Construction Engineering Handbook  
PCI Manual for the Design of Hollow Core Slabs  
ACI Manual of Concrete Practice  
Journal - Prestressed Concrete Institute  
Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI 318R-05)  
Code Requirements for Environmental Engineering Concrete Structures (ACI 350-01) and Commentary (ACI 350R-01)  
The Design manufacture and erection of architectural concrete elements  
PCI Drafting Handbook, Precast and Prestressed Concrete  
Journal of the Prestressed Concrete Institute  
Prestressed Concrete Institute  
Larbi Sennour  
Prestressed Concrete Institute  
Leslie D. Martin  
PCI Committee on Connection Details  
Prestressed Concrete Institute  
PCI Committee on Connection Details  
Reid W. Castrodale  
Maher K. Tadros  
FIB - Féd. Int. du Béton  
J.G. Richardson  
Edward G. Nawy  
Donald R. Buettner  
American Concrete Institute  
Prestressed Concrete Institute  
ACI Committee 318  
ACI Committee 350  
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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

at head of title national cooperative highway research program

this report establishes a user s manual for the acceptance repair or rejection of precast prestressed concrete girders with longitudinal web cracking the report also proposes revisions to the aashto lrfd bridge design specifications and provides recommendations to develop improved crack control reinforcement details for use in new girders the material in this report will be of immediate interest to bridge engineers

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

this book should be of interest to construction site managers and supervisors concrete technologist testing organisations it covers steel reinforcement batching and mixing readymix handling and transporting pumping placing curing qc precast prestressed special techniques repair and some background mathematics

this new handbook fills the need for in depth coverage of concrete construction engineering and technology it features discussions on what design engineers and contractors need to know about concrete materials and systems one of the most

versatile materials available the concrete construction engineering handbook focuses on these important topics

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

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

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