

Pci Manual Prestress

PCI Manual on Design of Connections for Precast Prestressed Concrete PCI Post-tensioning Manual PCI Connections Manual for Precast and Prestressed Concrete Construction PCI Manual for Structural Design of Architectural Precast Concrete PCI Design Handbook PCI Manual on Design of Connections for Prestressed Concrete PCI Manual on Design of Connections for Precast Prestressed Concrete PCI Manual for the Design of Hollow Core Slabs Journal – Prestressed Concrete Institute PCI Drafting Handbook, Precast and Prestressed Concrete ACI Manual of Concrete Practice Journal of the Prestressed Concrete Institute Prestressed Concrete Technology Specification for Fire Resistance of Precast/Prestressed Concrete Design and Typical Details of Connections for Precast and Prestressed Concrete Prestressed Beam End Reinforcement and Camber Prestress Inspection 2010 Concrete Industries Yearbook Design of Structures 2004 International Journal for Housing Science and Its Applications Prestressed Concrete Institute Prestressed Concrete Institute Larbi Sennour Prestressed Concrete Institute Leslie D. Martin PCI Committee on Connection Details PCI Committee on Connection Details Donald R. Buettner Prestressed Concrete Institute American Concrete Institute Prestressed Concrete Institute Gyula Fogarasi Precast Prestressed Concrete Institute Edward R. Sturm Maher K. Tadros National Research Council (U.S.). Transportation Research Board

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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

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 124 18 the precast prestressed concrete institute pci first issued a manual for the design for fire resistance of precast prestressed concrete in 1977 a second edition was prepared in 1989 and a third edition in 2011 the recommended design procedures in those three editions were based on fire test data and reports for precast prestressed concrete dating back to the 1960s little has changed since then in fundamental design for fire resistance while fire resistance is discussed in other publications as calculated fire resistance those provisions have generally been prescriptive that is tables of information are used to select concrete mass or protection for steel since the first edition of the pci manual rational design which is truly a fire resistance calculation procedure has been demonstrated though not a standard the first edition of the international building code in 2000 referenced the procedures in the pci fire design manual as being acceptable for prestressed concrete slabs not covered elsewhere with the 2014 designation of pci as an ansi american national standards institute accredited standards developer the material for fire resistance of precast and precast prestressed concrete was deemed important enough to the precast concrete industry that the newest edition of the provisions would be developed in a consensus standard form thus the design procedures would be referenced in the 2021 international building code as a standard developed through an ansi consensus process

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