

Guide to Formwork for Concrete

An ACI Standard

Reported by ACI Committee 347

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Objectives of safety, quality, and economy are given priority in these guidelines for formwork. A section on contract documents explains the kind and amount of specification guidance the engineer/architect should provide for the contractor. The remainder of the report advises the formwork engineer/contractor on the best ways to meet the specification requirements safely and economically. Separate chapters deal with design, construction, and materials for formwork. Considerations peculiar to architectural concrete are also outlined in a separate chapter. Other sections are devoted to formwork for bridges, shells, mass concrete, and underground work. The concluding chapter on formwork for special methods of construction includes slipforming, preplaced-aggregate concrete, tremie concrete, precast, and prestressed concrete.

Keywords: anchors; architectural concrete; coatings; concrete; construction; falsework; form ties; forms; formwork; foundations; quality control; reshoring; shoring; slipform construction; specifications; tolerances.

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AcI 347 04 Guide To Formwork Footings:

Guide to Formwork for Concrete American Concrete Institute, 2005 Formwork for Concrete Mary Krumboltz Hurd, 2005 Formwork for Concrete has been written to serve a broad range of needs for information on formwork For the experience designer or builder of formwork it is a ready reference on material properties design data and construction suggestions For the engineer architect it adds guidance in relating details of the structure s design to the problems and possibilities of executing them in concrete For the novice the book provides an introduction to many common formwork practices explaining basic design principles and encouraging a rational rather than rule of thumb approach to formwork book jacket

Specifications for Structural Concrete, ACI 301-05, with Selected ACI References American Concrete Institute, 2005 ACI Manual of Concrete Practice , 2007 *Temporary Structures in Construction, Third Edition* Robert Ratay, 2012-05-06 The most complete and current guide to temporary structures in design and construction With significant revisions updates and new chapters Temporary Structures in Construction Third Edition presents authoritative information on professional practice codes standards design erection maintenance and failures of temporary support and access structures used in construction New developments and advancing technologies are discussed throughout the book and new chapters on construction and environmental loads cranes and lessons learned from temporary structure failures have been added Improve the quality safety speed and financial success of construction projects with help from this practical resource Inside 26 expert contributors cover Professional and business practices Standards codes and regulations Construction and environmental loads Construction site safety Legal aspects Cofferdams Earth retaining structures Diaphragm slurry walls Construction dewatering Underground tunneling supports Underpinning Roadway decking Construction ramps runways and platforms Scaffolding Shoring falsework Concrete formwork Bracing and guying for stability Bridge falsework Temporary structures in repair and restoration Cranes Protection of site adjacent areas and utilities Failure of temporary structures in construction

ICE Handbook of Concrete Durability Marios Soutsos, 2023-10-24 ICE Handbook of Concrete Durability second edition is a comprehensive practical reference for professionals involved in design and maintenance of concrete structures of all types It is an invaluable guide for construction professionals including design engineers consultants and contractors as well as postgraduate students

Index of Specifications and Standards , Bridge Engineering, Third Edition Jim Zhao, Demetrios Tonias, 2012-03-05 The state of the art in highway bridge engineering Fully updated with the latest codes and standards including load and resistance factor design LRFD Bridge Engineering Third Edition covers highway bridge planning design construction maintenance and rehabilitation This thoroughly revised reference contains cutting edge analytical design and construction practices the most current information on new materials and methods and proven cost effective maintenance and repair techniques Real world case studies and hundreds of helpful photos and illustrations are also included in this practical resource BRIDGE ENGINEERING THIRD EDITION FEATURES COMPLETE

COVERAGE OF Highway bridge structures Project inception Project funding Design standards Bridge inspection and site survey Physical testing As built plans and other record data Superstructure types Deck types Wearing surface types Deck joint types Design loads Design methods Internal forces Load distribution Concrete deck slabs Composite steel members Plate girder design Continuous beams Protecting steel superstructures Load rating Prestressed concrete Substructure design Abutments Piers Bearings Managing the design process Contract documents Bridge management systems *Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III September 2005 , American Book Publishing Record R.R. Bowker Company,1978*

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