

# 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; shoring; shoring; slipform construction; specifications; tolerances.

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## CONTENTS

### Preface, p. 347-2

### Chapter 1—Introduction, p. 347-2

- 1.1—Scope
- 1.2—Definitions
- 1.3—Achieving economy in formwork
- 1.4—Contract documents

### Chapter 2—Design, p. 347-5

- 2.1—General
- 2.2—Loads
- 2.3—Unit stresses
- 2.4—Safety factors for accessories
- 2.5—Shores
- 2.6—Bracing and lacing
- 2.7—Foundations for formwork
- 2.8—Settlement

### Chapter 3—Construction, p. 347-9

- 3.1—Safety precautions
- 3.2—Construction practices and workmanship
- 3.3—Tolerances
- 3.4—Irregularities in formed surfaces
- 3.5—Shoring and centering
- 3.6—Inspection and adjustment of formwork
- 3.7—Removal of forms and supports
- 3.8—Shoring and reshoring of multistory structures

### Chapter 4—Materials, p. 347-16

- 4.1—General

ACI 347-04 supersedes ACI 347R-03 and became effective October 15, 2004.  
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# **Guide To Formwork For Concrete 2015**

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Ibrahim**

## **Guide To Formwork For Concrete 2015:**

**Concrete Construction** Akhtar Surahyo, 2019-03-05 This book is a thorough and comprehensive update of the 2002 edition that incorporates detailed references to the Canadian American and British European standards contextualized by the author based on over 30 years of construction experience In addition to updates to the core text many new topics are presented in the second edition including a chapter discussing the methods for achieving quality control and ensuring quality assurance in concrete construction The book consists of two parts The first part provides basic information about normal concrete its grades used on sites and various kinds of modified concretes such as fiber reinforced concrete sulphur concrete roller compacted concrete high performance concrete ultra high performance concrete and flowing concrete It further addresses physical properties of concrete and various types of Portland cement blended cements admixtures additives including properties of aggregates and their influence The second part of the book highlights the principal causes of concrete deterioration along with protective measures resulting from incorrect selection of constituent materials poor construction methods external factors chemical attack corrosion problems hot and cold weather effects and the various errors in designing and detailing Featuring an extensive bibliography of the highly adopted standards as well as manuals and journals critical to the construction industry at the end of each chapter the volume offers readers an advanced understanding of the theory and practical application of concrete technology and international standards in North America and Britain Addresses concrete technology as well as concrete construction practices meeting national and international standards Maximizes readers understanding of the principal causes of concrete deterioration along with protective measures Facilitates readers grasp of different nomenclature used for the same materials in different parts of the world Features suitable tables charts and diagrams that illustrate and organize useful information Explains sustainable concrete doctrine and how to achieve it meeting green concrete building requirements Provides a glossary conversion factors and examples of concrete mix design

**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 *Materials for Architects and Builders* Arthur Lyons, 2019-08-28 *Materials for Architects and Builders* provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture key physical properties specification and uses Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture related courses and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout This new sixth edition has been completely revised and updated to include the latest developments in materials research new images appropriate technologies and relevant legislation The ecological effects of building construction and lifetime use remain an

important focus and this new edition includes a wide range of energy saving building components

**PPI PE Civil Study Guide, 17th Edition** Michael R. Lindeburg, 2022-09-30 Maximize your efficiency while studying for the PE Civil CBT exam by pairing the PE Civil Study Guide with Michael R Lindeburg's PE Civil Reference Manual PE Civil Study Guide Seventeenth Edition provides a strategic and targeted approach to exam preparation so that you gain a competitive edge With hundreds of entries containing helpful explanations derivations of equations and exam tips the Study Guide connects the NCEES exam specifications for all five PE Civil exams to the NCEES Handbook approved design standards and PPI's civil reference manuals The Study Guide is organized to make the most of your time and is an essential tool for a successful exam experience Relevant sections from the NCEES Handbook design standards and PPI's reference manuals are clearly indicated in both summary lists for each exam specification and in each of the detailed entries covering a specific concept or equation Referenced PPI Products PE Civil Reference Manual Structural Depth Reference Manual for the PE Civil Exam Construction Depth Reference Manual for the PE Civil Exam Transportation Depth Reference Manual for the PE Civil Exam Water Resources and Environmental Depth Reference Manual for the PE Civil Exam Referenced Codes and Standards 2015 International Building Code ICC A Policy on Geometric Design of Highways Streets AASHTO AASHTO Guide for Design of Pavement Structures AASHTO AASHTO LRFD Bridge Design Specifications Building Code Requirements Specification for Masonry Structures ACI 530 Building Code Requirements for Structural Concrete Commentary ACI 318 Design Construction of Driven Pile Foundations FHWA Design Construction of Driven Pile Foundations Volume I FHWA Design Control of Concrete Mixtures PCA Design Loads on Structures During Construction ASCE 37 Formwork for Concrete ACI SP 4 Foundations Earth Structures Design Manual 7 02 Geotechnical Aspects of Pavements FHWA Guide for the Planning Design Operation of Pedestrian Facilities AASHTO Guide to Design of Slabs on Ground ACI 360R Guide to Formwork for Concrete ACI 347R Highway Capacity Manual TRB Highway Safety Manual AASHTO Hydraulic Design of Highway Culverts FHWA LRFD Seismic Analysis Design of Transportation Geotechnical Features Structural Foundations Reference Manual FHWA Manual on Uniform Traffic Control Devices FHWA Minimum Design Loads for Buildings Other Structures ASCE SEI 7 National Design Specification for Wood Construction AWC Occupational Safety Health Regulations for the Construction Industry OSHA 1926 Occupational Safety Health Standards OSHA 1910 PCI Design Handbook Precast Prestressed Concrete PCI Recommended Standards for Wastewater Facilities TSS Roadside Design Guide AASHTO Soils Foundations Reference Manual Volume I II FHWA Steel Construction Manual AISC Structural Welding Code Steel AWS *Reinforced Concrete Design* Chu-Kia Wang, José Antonio Pincheira, Charles G. Salmon, Gustavo J. Parra-Montesinos, 2021-12-07 The ninth edition of this book will be updated to incorporate the changes in the design provisions of the 2019 American Concrete Institute ACI Building Code and Commentary ACI 318 19 As in previous editions considerable emphasis is placed on presenting to the student as well as the practicing engineer the basic principles of analysis and design of reinforced concrete structures Each

chapter is organized such that the principles of mechanics are presented first to provide a detailed understanding of the theory and observed behavior of reinforced concrete members This material is then used to describe and to provide the rationale for the design provisions of the ACI Building Code Numerous examples are presented in each chapter to illustrate the concepts as well as the general approach to design and analysis The reader may either study in detail the concepts in logical sequence or merely accept a qualitative explanation and proceed directly to the design process All example problems will be revised and as appropriate new examples will be developed to illustrate the use of available software and design tools currently used in practice

**Structures and Architecture** Paulo J. Cruz, 2016-10-14 Although the disciplines of architecture and structural engineering have both experienced their own historical development their interaction has resulted in many fascinating and delightful structures To take this interaction to a higher level there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process exploiting together new concepts applications and challenges This set of book of abstracts and full paper searchable CD ROM presents selected papers presented at the 3rd International Conference on Structures and Architecture Conference ICSA2016 organized by the School of Architecture of the University of Minho Guimar es Portugal July 2016 to promote the synergy in the collaboration between the disciplines of architecture and structural engineering

**New Code of Estimating Practice** The Chartered Institute of Building, 2018-04-06 The essential authoritative guide to providing accurate systematic and reliable estimating for construction projects newly revised Pricing and bidding for construction work is at the heart of every construction business and in the minds of construction consultants poor bids lead to poor performance and nobody wins New Code of Estimating Practice examines the processes of estimating and pricing providing best practice guidelines for those involved in procuring and pricing construction works both in the public and private sectors It embodies principles that are applicable to any project regardless of size or complexity This authoritative guide has been completely rewritten to include much more contextual and educational material as well as the code of practice It covers changes in estimating practice the bidding process the fundamentals in formulating a bid the pre qualification process procurement options contractual arrangements and legal issues preliminaries temporary works cost estimating techniques risk management logistics resource and production planning computer aided estimating information and time planning resource planning and pricing preparation of an estimator s report bid assembly and adjudication pre production planning and processes and site production Established standard for the construction industry providing the only code of practice on construction estimating Prepared under the auspices of the Chartered Institute of Building and endorsed by a range of other professional bodies Completely rewritten since the 7th edition to include much more contextual and educational material as well as the core code of practice New Code of Estimating Practice is an important book for construction contractors specialist contractors quantity surveyors cost consultants and for students of construction and

quantity surveying      **Expert Knowledge-based Inspection Systems** Jorge de Brito, Clara Pereira, José D. Silvestre, Inês Flores-Colen, 2020-05-19 This book provides a novel approach to building pathology in current buildings Drawing on the available literature hands on experience and fieldwork inspections it presents a systematic perspective on the pathology of the building envelope The book addresses natural stone claddings adhesive ceramic tiling renders painted surfaces External Thermal Insulation Composite Systems ETICS architectural concrete surfaces windows and doors framing and claddings for pitched and flat roofs In addition to highlighting selected materials and construction elements the book proposes a global classification system for defects and their probable causes together with in situ diagnosis methods and repair techniques It also identifies the relationships between defects and causes diagnosis methods and repair techniques and the interdependence between different defects presenting these relations in the form of correlation matrices Support files with detailed information and an inspection form are also provided Selected case studies are presented to illustrate the value of a guidance system in fieldwork Given its scope the book offers a valuable guide particularly for researchers building inspectors civil engineers architects and maintenance planners      *2023 Mississippi Municipal Contractor Exam Prep* Upstryve Inc, Get one step closer to becoming a Mississippi Municipal Contractor with a prep course designed by 1 Exam Prep to help you conquer the required open book computer based examination with PSI The course includes Test taking techniques and tips Highlighting and tabbing locations for each of the required books so you can quickly and easily reference your materials during the exam Practice questions for each book      **Design Solutions and Innovations in Temporary Structures** Beale, Robert, André, João, 2017-02-07 Temporary structures are a vital but often overlooked component in the success of any construction project With the assistance of modern technology design and operation procedures in this area have undergone significant enhancements in recent years Design Solutions and Innovations in Temporary Structures is a comprehensive source of academic research on the latest methods practices and analyses for effective and safe temporary structures Including perspectives on numerous relevant topics such as safety considerations quality management and structural analysis this book is ideally designed for engineers professionals academics researchers and practitioners actively involved in the construction industry      Recent Developments in Sustainable Infrastructure Bibhuti Bhusan Das, Salim Barbhuiya, Rishi Gupta, Purnachandra Saha, 2020-07-03 This book comprises select peer reviewed proceedings of the International Conference on Recent Developments in Sustainable Infrastructure ICRDSI 2019 The topics span over all major disciplines of civil engineering with regard to sustainable development of infrastructure and innovation in construction materials especially concrete The book covers numerical and analytical studies on various topics such as composite and sandwiched structures green building groundwater modeling rainwater harvesting soil dynamics seismic resistance and control of structures waste management structural health monitoring and geo environmental engineering This book will be useful for students researchers and professionals working in sustainable technologies in civil engineering      Handbook on Tunnels and

Underground Works Emilio Bilotta, Renato Casale, Claudio Giulio di Prisco, Salvatore Miliziano, Daniele Peila, Andrea Pigorini, Enrico Maria Pizzarotti, 2022-09-19 This book set provides a new global updated thorough clear and practical risk based approach to tunnelling design and construction methods and discusses detailed examples of solutions applied to relevant case histories It is organized in three sequential and integrated volumes Volume 1 Concept Basic Principles of Design Volume 2 Construction Methods Equipment Tools and Materials Volume 3 Case Histories and Best Practices The book covers all aspects of tunnelling giving useful and practical information about design Vol 1 construction Vol 2 and best practices Vol 3 It provides the following features and benefits updated vision on tunnelling design tools materials and construction balanced mix of theory technology and applied experience different and harmonized points of view from academics professionals and contractors easy consultation in the form of a handbook risk oriented approach to tunnelling problems The tunnelling industry is amazingly widespread and increasingly important all over the world particularly in developing countries The possible audience of the book are engineers geologists designers constructors providers contractors public and private customers and in general technicians involved in the tunnelling and underground works industry It is also a suitable source of information for industry professionals senior undergraduate and graduate students researchers and academics      *Proceedings of the Sustainable Concrete Materials and Structures in Construction 2020* Sharifah Salwa Mohd Zuki, Shahrul Niza Mokhtar, Shahiron Shahidan, Mohd Haziman Bin Wan Ibrahim, 2021-05-25 This book gathers a selection of peer reviewed papers presented at the Sustainable Concrete Materials and Structures in Construction 2020 held at Universiti Tun Hussein Onn Malaysia Malaysia on 24th August 2020 The contributions prepared by international scientists and engineers cover the latest advances in and innovative applications with the theme Towards Sustainable Green Concrete The articles in this book cater to academics graduate students researchers as well as industrial practitioners working in the areas of concrete materials and building construction      *Precast Concrete Structures* Alfred Steinle, Hubert Bachmann, Mathias Tillmann, 2019-05-06 Building with precast concrete elements is one of the most innovative forms of construction This book serves as an introduction to this topic including examples and thus supplies all the information necessary for conceptual and detailed design      **Reinforced Concrete Structures: Analysis and Design, Second Edition** David A. Fanella, 2015-10-06 This comprehensive guide to reinforced concrete structures has been fully revised to cover 2014 updates to the ACI 318 Structural Concrete code Reinforced Concrete Structures Analysis and Design Second Edition offers clear explanations of the underlying principles behind reinforced concrete design and provides easy to follow analysis design and construction techniques This edition has been thoroughly updated to conform to the new ACI 2014 Building Code This authoritative resource discusses reinforced concrete members and provides techniques for sizing the cross section calculating the required amount of reinforcement and detailing the reinforcement Brand new information is included on earthquake design and detailing Easy to follow design procedures and illuminating flowcharts guide you through

complex code requirements Concisely explains every provision in the 2014 ACI 318 Structural Concrete code Features a new chapter on design and detailing for earthquake effects Solved problems and real world examples demonstrate each provision s proper application Author has written numerous technical publications on the design of reinforced concrete and load determination **Life-Cycle Civil Engineering: Innovation, Theory and Practice** Airong Chen,Xin Ruan,Dan M.

Frangopol,2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry Advances in Construction Management Anil Kashyap,Rajesh Goyal,Rita Yi Man Li,Gangadhar Mahesh,M. D.

Deepak,2025-03-29 This book presents the select proceedings of the 7th International Conference on Construction Real Estate Infrastructure and Project Management ICCRIP 2023 and explores recent and innovative developments in all aspects of the CRIP sector The book covers various issues in construction management advancements in construction technologies and materials sustainable construction practices managerial issues in the CRIP sector construction 4 0 project management real estate and urban planning energy environment and sustainability The book will be useful for researchers and professionals involved in construction management civil engineering and related fields *Reinforced Concrete Construction*

*for Small Projects* Ron Dean,2017-11-30 By using the Working Stress Design system described in the text combined with other information in this book a builder with a good knowledge of basic arithmetic and a pocket calculator can determine the sizing and placement of steel rebar within small concrete buildings such as earth sheltered homes The book covers the design assembly and formwork required by concrete beams elevated slabs walls footings short columns mat foundations and soffits Many of these components are impossible to build using plain unreinforced concrete **Construction Planning,**

**Equipment, and Methods, Ninth Edition** Robert L. Peurifoy,Clifford J. Schexnayder,Robert Schmitt,Aviad Shapira,2018-02-05 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Fully updated coverage of construction planning techniques and equipment technology Construction Planning Equipment and Methods Ninth Edition follows in the footsteps of previous editions by laying out the fundamentals of machine utilization and production estimating in a logical simple and concise format The book discusses the latest technologies and capabilities and offers real world applications



Examples and illustrations showcase the latest equipment models and end of chapter summaries and homework problems reinforce salient points You will explore construction economics earthwork and soil and rock properties Safety procedures and financial considerations are thoroughly explained in this comprehensive guide Coverage includes The history of construction equipment Safety Planning equipment utilization Equipment economics Operating costs Rent and lease considerations Planning for earthwork construction Soil and rock Compaction specifications Seismic and deflection testing Soil processing Current models of dozers excavators scrapers and cranes And much more

### **Design Guide for**

**Concrete-filled Double Skin Steel Tubular Structures** Lin-Hai Han,Dennis Lam,David Nethercot,2018-10-12 This is the first design guide on concrete filled double skin steel tubular CFDST structures It addresses in particular CFDST structures with plain concrete sandwiched between circular hollow sections and provides the relevant calculation methods and construction provisions for CFDST structures These inherit the advantages of conventional concrete filled steel tubular CFST structures including high strength good ductility and durability high fire resistance and favourable constructability Moreover because of their unique sectional configuration CFDST structures have been proved to possess lighter weight higher bending stiffness and better cyclic performance than conventional CFST Consequently CFDST can offer reduced concrete consumption and construction costs This design guide is for engineers designing electrical grid infrastructures wind power towers bridge piers and other structures requiring light self weight high bending stiffness and high bearing capacity

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## **Table of Contents Guide To Formwork For Concrete 2015**

1. Understanding the eBook Guide To Formwork For Concrete 2015
  - The Rise of Digital Reading Guide To Formwork For Concrete 2015
  - Advantages of eBooks Over Traditional Books
2. Identifying Guide To Formwork For Concrete 2015
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Guide To Formwork For Concrete 2015
  - User-Friendly Interface
4. Exploring eBook Recommendations from Guide To Formwork For Concrete 2015
  - Personalized Recommendations
  - Guide To Formwork For Concrete 2015 User Reviews and Ratings
  - Guide To Formwork For Concrete 2015 and Bestseller Lists
5. Accessing Guide To Formwork For Concrete 2015 Free and Paid eBooks

- Guide To Formwork For Concrete 2015 Public Domain eBooks
- Guide To Formwork For Concrete 2015 eBook Subscription Services
- Guide To Formwork For Concrete 2015 Budget-Friendly Options
- 6. Navigating Guide To Formwork For Concrete 2015 eBook Formats
  - ePub, PDF, MOBI, and More
  - Guide To Formwork For Concrete 2015 Compatibility with Devices
  - Guide To Formwork For Concrete 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Guide To Formwork For Concrete 2015
  - Highlighting and Note-Taking Guide To Formwork For Concrete 2015
  - Interactive Elements Guide To Formwork For Concrete 2015
- 8. Staying Engaged with Guide To Formwork For Concrete 2015
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Guide To Formwork For Concrete 2015
- 9. Balancing eBooks and Physical Books Guide To Formwork For Concrete 2015
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Guide To Formwork For Concrete 2015
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Guide To Formwork For Concrete 2015
  - Setting Reading Goals Guide To Formwork For Concrete 2015
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Guide To Formwork For Concrete 2015
  - Fact-Checking eBook Content of Guide To Formwork For Concrete 2015
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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