

# 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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## 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—Shoes
- 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

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# Aci 347 04 Guide To Formwork

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## **ACI 347 04 Guide To Formwork:**

*Guide to Formwork for Concrete* American Concrete Institute, 2005      *Specifications for Structural Concrete, ACI 301-05, with Selected ACI References* 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

**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

**ACI 347R-14, Guide to Formwork for Concrete** ACI Committee 347--Formwork for Concrete, American Concrete Institute, 2014      *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

**Alternate & Innovative Construction Systems for Housing , 2nd Ed** BMTPC, 2025-08-01 India being one of the fastest growing economies in the world is witnessing transformative changes in terms of public investment private consumption structural reforms leading construction sector to reach 1 4 trillion by 2025 Coupled with rapid urbanization climate change Nationally Determined Contributions NDCs in terms of reduction of emission intensity by 30 35% by 2030 to achieve net zero emission by 2070 the business as usual approach for building the urban infrastructure including housing need to superseded by cutting edge innovative productive technologies nurturing fast track affordable sustainable resilient growth The ubiquitous conventional construction practices of cast in situ brick mortar RCC construction shall have to be replaced by industrialized building systems comprising of off site construction techniques such as precast concrete construction prefabricated steel

construction customized formworks sandwich panels 3D printing PPVC supplemented by digitalization BIM cloud computing construction robotics etc To bring perceptible changes the way we build Ministry of Housing Urban Affairs MoHUA Govt of India with BMTPC as technical partner conceptualized organized Global Housing Technology Challenge India GHTC India through which 54 new construction systems which are time tested proven globally are identified as potential future building technologies for the country being promoted across the country The six light house projects were also undertaken under PMAY U to showcase the effectiveness of these systems adapt them for further replication In order to build capacities and for better outreach wider advocacy amongst building professionals about the new and emerging building materials and technologies for construction MoHUA along with SPA New Delhi BMTPC introduced an online certificate course on Innovative Construction Technologies entitled NAVARITI New Affordable Validated Research Innovation Technologies for Indian Housing As regards innovative systems information is available in bits and pieces and there are no textbooks available summarizing all these systems therefore the reading material in form of book for the course was prepared published as first edition of the book The experts from industry academic institutions research laboratories have contributed various chapters of the book In addition information from various resources have been collected and compiled in concise form to develop the book The second edition of the book contains updated information along with few new chapters since the last publication The book is a collection of technical information available on technologies worldwide and it is the first of its kind on the subject We are sure it will help the readers to comprehend these innovative systems and implement them in their future construction projects

**ACI Manual of Concrete Practice**, 2007 3rd fib Congress Washington USA FIB - International Federation for Structural Concrete, 2010-06-01

**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

*Reinforced Concrete Structures: Analysis and Design* David D. E. E. Fanella, 2010-12-06 A PRACTICAL

GUIDE TO REINFORCED CONCRETE STRUCTURE ANALYSIS AND DESIGN Reinforced Concrete Structures explains the underlying principles of reinforced concrete design and covers the analysis design and detailing requirements in the 2008 American Concrete Institute ACI Building Code Requirements for Structural Concrete and Commentary and the 2009 International Code Council ICC International Building Code IBC 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 Design procedures and flowcharts guide you through code requirements and worked out examples demonstrate the proper application of the design provisions COVERAGE INCLUDES Mechanics of reinforced concrete Material properties of concrete and reinforcing steel Considerations for analysis and design of reinforced concrete structures Requirements for strength and serviceability Principles of the strength design method Design and detailing requirements for beams one way slabs two way slabs columns walls and foundations

**SP-4 (8th) Formwork for Concrete** David West Johnston,American Concrete Institute,2014-01-01

**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

**Development of a Specification for Thin Stay-in-place Forms for Bridge Deck Construction** Ajaya P. Malla,2007

**ACI Materials Journal** ,2008

**Construction Planning, Equipment, and Methods, Tenth Edition** Robert L. Peurifoy,Clifford J. Schexnayder,Robert Schmitt,Aviad Shapira,Aaron Cohen,2023-09-15 Construction planning techniques technology and applications fully updated for the latest advances This thoroughly revised guide covers the fundamentals of construction equipment machinery utilization and production estimating You will learn about construction economics earthwork and soil and rock properties Rock blasting and drilling pile driving water pumping and concrete and asphalt construction procedures are clearly explained The book also contains technical depth for calculating machine production capability Construction Planning Equipment and Methods Tenth Edition lays out the latest technologies and shows how to apply those technologies to real world construction projects all with an emphasis on cutting edge machine

capabilities Examples and illustrations showcase the latest equipment models while chapter summaries and homework problems help reinforce salient points Presented in a logical and concise format this up to date edition features new chapters on trenches trenchless technology and virtual design Provides a concise student friendly introduction to construction methods and planning Contains new problems Excel answer sheets and a refreshed solutions manual Written by team of construction management experts and experienced educators

**McGraw-Hill Construction Locator (McGraw-Hill Construction Series)** Joseph A. MacDonald, 2007 McGraw Hill Construction Locator offers a brief synopsis of building codes documents associations services and agencies to ensure that you will find exactly what you need quickly and easily Specific contact information and the services they provide are also listed BOOK JACKET

**Recommended Practice for Concrete Formwork (ACI 347-78)** ACI Committee 347--Formwork for Concrete, 1986

**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

Formwork For Concrete Structures Robert Peurifoy, Garold (Gary) Oberlander, 1996 Dramatically slash the cost of formwork design and construction With the expense of creating concrete formwork so high often exceeding the cost of the concrete and steel used in the project itself you need the Third Edition of R L Peurifoy and G D Oberlander's Formwork for Concrete Structures This authoritative working tool shows you how to cut costs by making the most of the material time labor and equipment required to design erect and remove formwork You get complete details on state of the art materials and technology plus fast access to scores of tables and practical examples that help you sidestep costly guesswork and trial and errors methods A completely up to date list of formwork material suppliers rounds out this one of a kind money saver

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## **Table of Contents Aci 347 04 Guide To Formwork**

1. Understanding the eBook Aci 347 04 Guide To Formwork
  - The Rise of Digital Reading Aci 347 04 Guide To Formwork
  - Advantages of eBooks Over Traditional Books
2. Identifying Aci 347 04 Guide To Formwork
  - 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 Aci 347 04 Guide To Formwork
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aci 347 04 Guide To Formwork
  - Personalized Recommendations
  - Aci 347 04 Guide To Formwork User Reviews and Ratings
  - Aci 347 04 Guide To Formwork and Bestseller Lists
5. Accessing Aci 347 04 Guide To Formwork Free and Paid eBooks
  - Aci 347 04 Guide To Formwork Public Domain eBooks
  - Aci 347 04 Guide To Formwork eBook Subscription Services
  - Aci 347 04 Guide To Formwork Budget-Friendly Options

6. Navigating Aci 347 04 Guide To Formwork eBook Formats
  - ePub, PDF, MOBI, and More
  - Aci 347 04 Guide To Formwork Compatibility with Devices
  - Aci 347 04 Guide To Formwork Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aci 347 04 Guide To Formwork
  - Highlighting and Note-Taking Aci 347 04 Guide To Formwork
  - Interactive Elements Aci 347 04 Guide To Formwork
8. Staying Engaged with Aci 347 04 Guide To Formwork
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aci 347 04 Guide To Formwork
9. Balancing eBooks and Physical Books Aci 347 04 Guide To Formwork
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aci 347 04 Guide To Formwork
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Aci 347 04 Guide To Formwork
  - Setting Reading Goals Aci 347 04 Guide To Formwork
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aci 347 04 Guide To Formwork
  - Fact-Checking eBook Content of Aci 347 04 Guide To Formwork
  - 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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