

A Guide to Fabric-Formed Concrete

Editor's Note: With this Guide to Fabric-Formed Concrete it is hoped that existing and new techniques that may come along can be documented here for the benefit of others who wish to use this truly unique method of forming concrete for their projects. The Table of Contents shown below contain topics similar to ACI's SP-4 *Formwork for Concrete* as it is assumed there will be many similar considerations for Fabric-Formed Concrete as well. Topics that may not be applicable can be marked with a question mark, "?". Pages have been created for each [CHAPTER](#) of this document and may accessed by clicking on the hyper-link, [blue text](#). Headlines have also been created for each chapter topic. Within these headline topics content may be added by selecting the "[edit](#)" link on the right-hand margin. Or, by selecting the "edit tab" at the top of the page, the entire page may be worked on. Where appropriate hyper-links may be added to connect topics on different pages (Chapters). Just use the Internal Link button in the Editorial Toolbar when in edit mode. This is an evolving work where topics and pages can be added or deleted as required. *You must be registered and logged in to add or edit content.*

TABLE

<align left> [INTRODUCTION](#)
 General Objectives in Fabric-formed Building
 How fabric formwork affects concrete quality
 Causes of failures
 Planning for Safety
 Relationship of architect, engineer and contractor
 Measurement and payment for formwork
 How the architect-engineer can reduce form costs
[OVERALL PLANNING](#)
 Development of a basic system
 Key areas of cost reduction
 Planning for maximum reuse
 Economical form construction
 Setting and stripping
 Other costs affected by formwork plan
 Planning examples
[MATERIALS, ACCESSORIES, PROPRIETARY PRODUCTS](#)
 Fabric
 Lumber
 Engineered wood products
 Plywood
 Other framing and facing materials
 Insulation and insulating forms
 Hardware and fasteners
 Prefabricated forms
 Shoring and scaffolding
[LOADS AND PRESSURES](#)
 Vertical loads
 Lateral pressure of fresh concrete
 Lateral loads
 Other loads
[FORM DESIGN](#)
 Notation
 Basic Simplifications
 Beam formulas
 Design criteria
 Bearing examples
 Wall, slab and beam form design
 Form accessories
 Column form design
 Shoring and scaffolding
 Bracing for lateral loads
 Camber and adjustment for settlement
 </align>

OF

<align left> [DESIGN TABLES](#)
 Joists, studs, beams
 Double members
 Wood shores
 Form design Using the Tables
 Design tables
 •
[FORMWORK DRAWINGS](#)
 1.
 General layout and detail drawings
 2.
 Check list of details
 3.
 Rereck of structural drawings
 4.
 Drawing approval
[BUILDING AND ERECTING THE FORMWORK](#)
 Carpentry Shop and Job Mill
 Footings
 Slab on grade and paving work
 Wall forms
 Column forms
 Beam or girder forms
 Slab forms
 Shoring and Scaffolding
 •
[BRIDGE FORMWORK](#)
 1.
 Foundations
 2.
 Piers
 3.
 Pier caps and tie struts
 4.
 Superstructures
 5.
 Arch bridges
 6.
 Segmental box girder bridge construction
 7.
 Making precast bridge segments
[USING THE FORMS](#)
 Placing reinforcement and inserts
 Preparation for concreting
 Inspection and form watching
 Placing and vibrating-effect on formwork
 Removal of forms and shores
 Reshoring
 Care and storage of forms and accessories
 Cold weather protection
[FORMWORK FOR ARCHITECTURAL CONCRETE](#)
 Specifications: Defining quality
 Architectural formwork design
 Exposed concrete surfaces
 Construction of architectural forms
 Stripping
 Cleanup and repair
 </align>

CONTENTS

<align left> [SHELLS, DOMES, FOLDED PLATES](#)
 Shell form design considerations
 Building the forms
 Placing concrete
 Form removal
 Inflated forming methods
[MASS CONCRETE](#)
 Low lift formwork
 Handling, erecting, stripping
 Non-cantilevered formwork
 Roller-compacted mass concrete
 Foundations or starting lifts
 Curing, joint cleanup, insulation
 Planning and supervision
 Tolerances
[TUNNEL FORMING AND SHAFTS](#)
 Tunnel forming components
 Concrete placement methods
 General design considerations
 Form construction
 Stripping time
 Tolerances
 Shafts
[SPECIAL TECHNIQUES IN CONCRETE CONSTRUCTION](#)
 Slipform construction
 Horizontal slipforms
 Traveling forms
 Tilt-up construction
 Lift method of construction
 Preplaced aggregate concrete
 Shotcrete
 Tremie concrete
 •
[PRECAST CONCRETE](#)
 1.
 Advantages of precasting
 2.
 Formwork
 3.
 Stripping
 4.
 Erection and joints
 •
[PRESTRESSED PRECAST CONCRETE](#)
 1.
 Forms for post-tensioning
 2.
 Forms for pre-tensioning
[APPENDIX](#)
 Acknowledgments
 Glossary
 Guide to Formwork for Concrete, ACI 347-04
 ACI 318-02 Code and Commentary-Chapter 6, Formwork, Embedded Pipes, and Construction Joints
 OSHA Regulations, Subpart Q-Concrete and Masonry Construction
 Index
 Metric Conversion Factors
 </align>

From:

<http://www.fabric-formedconcrete.com/> - **fabric-formedconcrete**

Permanent link:

http://www.fabric-formedconcrete.com/doku.php?id=fabformwiki:formwork_guide

Last update: **2023/10/02 14:53**

