

Guide for Concrete Floor and Slab Construction

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FOREWORD

The quality of a concrete floor or slab is highly dependent on achieving a hard and durable surface that is flat, relatively free of cracks, and at the proper grade and elevation. Properties of the surface are determined by the mixture proportions and the quality of the concreting and jointing operations. The timing of concreting operations—especially finishing, jointing, and curing—is critical. Failure to address this issue can contribute to undesirable characteristics in the wearing surface such as cracking, low resistance to wear, dusting, scaling, high or low spots, poor drainage, and increasing the potential for curling.

Concrete floor slabs employing portland cement, regardless of slump, will start to experience a reduction in volume as soon as they are placed. This phenomenon will continue as long as any water, heat, or both, is being released to the surroundings. Moreover, because the drying and cooling rates at the top and bottom of the slab will never be the same, the shrinkage will vary throughout the depth, causing the uncured shape to be distorted and reduced in volume.

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This guide contains recommendations for controlling random cracking and edge curling caused by the concrete's normal volume change. Application of present technology permits only a reduction in cracking and curling, not elimination. Even with the best floor designs and proper construction, it is unrealistic to expect crack-free and curl-free floors. Consequently, every owner should be advised by both the designer and contractor that it is normal to expect some amount of cracking and curling on every project, and that such occurrence does not necessarily reflect adversely on either the adequacy of the floor's design or the quality of its construction (Fitzberg 1987; Campbell et al. 1976).

Refer to the latest edition of ACI 308R for a detailed discussion of shrinkage and curling in slabs-on-ground. Refer to the latest edition of ACI 224R for a detailed discussion of cracking in reinforced and nonreinforced concrete slabs.

This guide describes how to produce high-quality concrete slabs-on-ground and suspended floors for various classes of service. It emphasizes aspects of construction such as site preparation, concreting materials, concrete mixture proportions, concreting workmanship, joint construction, load transfer across joints, form stripping procedures, finishing methods, and curing. Flatness/levelness requirements and measurements are outlined. A thorough preconstruction meeting is critical to facilitate communication among key participants and to clearly establish expectations and procedures that will be employed during construction to achieve the floor qualities required by the project specifications. Adequate supervision and inspection are required for job operations, particularly those of finishing.

Keywords: admixture; aggregate; concrete; consolidation; contract documents; curing; curling; deflection; durability; form; fracture; joint; mixture proportioning; mortar; paste; placing; quality control; slabs-on-ground; slabs; slump test; specification.

CONTENTS

Chapter 1—Introduction, p. 302.1R-2

1.1—Purpose and scope

1.2—Terminology

1.3—Related work of other committees

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Ross Martin



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Recommended Practice for Concrete Floor and Slab Construction (ACI 302-69) ACI Committee 302, Lewis H. Tuthill, 1969

Practitioner's Guide to Tilt-up Concrete Construction American Concrete Institute, 1996 The Contractor's Guide to Quality Concrete Construction, 2018 Written by and for contractors this publication provides insight into proven construction practices that will produce quality concrete construction Contents include organizing for quality concrete mixture designs specifications foundations formwork reinforcement and embedments in structures joints and reinforcement for slabs on ground preparing for concreting concrete placing and finishing common field problems and safety The guide can be used as a training manual or as a basic reference for field and office

Design and Construction of Concrete Slabs on Grade, 1986 **ACI Manual of Concrete Practice** American Concrete Institute, 2002 **ACI 332. 1R-18 Guide to Residential Concrete Construction** ACI Committee 332, 2018-05 **Guide for Precast Cellular Concrete Floor, Roof, and Wall Units** American Concrete Institute, 1996-05-24 **ACI PRC-302.2-22 Concrete Slabs That Receive Moisture-Sensitive Flooring Materials-Guide** ACI Committee 302, 2023-02 *Specifications for Structural Concrete, ACI 301-05, with Selected ACI References* American Concrete Institute, 2005 Guide to Cast-in-place Architectural Concrete Practice ACI Committee 303, 1991 **332-04: Requirements for Residential Concrete Construction and Commentary**, 2005 *Guide for Low Density Precast Concrete Floor, Roof, and Wall Units* ACI Committee 523, 1968 **Slab Design in Accordance with ACI 318-77** ACI Committee 340, 1978 **ACI Standard Building Code Requirements for Reinforced Concrete** ACI Committee 318, 1963 **ACI 421. 1R-20 Guide for Shear Reinforcement for Slabs (supersedes 421. 1R-08)** ACI-ASCE Committee 421, 2020-01-02 ACI 544. 6R-15 Report on Design and Construction of Steel Fiber-Reinforced Concrete Elevated Slabs American Concrete Institute, 2015 *Guide for Surface Finish of Concrete Slabs on Ground* Ross Martin, 2006 The purpose of this ASCE guide is to inform owners specifiers architects and engineers of the surface finish of slabs on ground or grade SOG that contractors can predictably provide From p 1 **ACI 372R-13 Guide for Design and Construction of Circular Wire- and Strand-Wrapped Prestressed Concrete Structures** ACI Committee 372, American Concrete Institute, 2013-12-01 ACI Session for Construction of Concrete Slabs on Grade American Concrete Institute. Education Department, 1982* ACI 330. 2R-17 Guide for the Design and Construction of Concrete Site Paving for Industrial and Trucking Facilities ACI Committee 330, 2017-04-27

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Table of Contents Guide For Concrete Floor Slab Construction Aci 3021r 04

1. Understanding the eBook Guide For Concrete Floor Slab Construction Aci 3021r 04
 - The Rise of Digital Reading Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Advantages of eBooks Over Traditional Books
2. Identifying Guide For Concrete Floor Slab Construction Aci 3021r 04
 - 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 For Concrete Floor Slab Construction Aci 3021r 04
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Personalized Recommendations
 - Guide For Concrete Floor Slab Construction Aci 3021r 04 User Reviews and Ratings
 - Guide For Concrete Floor Slab Construction Aci 3021r 04 and Bestseller Lists
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- Guide For Concrete Floor Slab Construction Aci 3021r 04 eBook Subscription Services
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 - Guide For Concrete Floor Slab Construction Aci 3021r 04 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Interactive Elements Guide For Concrete Floor Slab Construction Aci 3021r 04
- 8. Staying Engaged with Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guide For Concrete Floor Slab Construction Aci 3021r 04
- 9. Balancing eBooks and Physical Books Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guide For Concrete Floor Slab Construction Aci 3021r 04
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Setting Reading Goals Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Guide For Concrete Floor Slab Construction Aci 3021r 04
 - Fact-Checking eBook Content of Guide For Concrete Floor Slab Construction Aci 3021r 04
 - 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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