

# 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 finishing operations. The timing of concreting operations—a specially finishing and jointing—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, and poor drainage, as well as 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 or heat, or both, is being released to the surroundings. Moreover, since 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 at-cast shape to be distorted, as well as reduced in volume.*

*This guide contains recommendations for controlling random cracking and edge curling caused by the concrete's internal volume change. Application of current technology permits only a reduction in cracking and curling, not their elimination. Even with the best floor design and proper construction, it is unrealistic to expect completely crack-free and curl-free results. Consequently, every owner should be advised by both the designer and contractor that it is completely normal to expect some amount of cracking and curling on every project, and that such occurrence does not necessarily reflect adversely on either the competence of the floor's design or the quality*

*of its construction.<sup>1,2</sup> Refer to the latest edition of ACI 309 for a detailed discussion of shrinkage and curling in slabs on ground. Refer to the latest edition of ACI 224 for a detailed discussion of cracking in reinforced and prestressed concrete slabs.*

*This guide describes how to produce high quality concrete slabs on ground and suspended floors for various classes of service. It emphasizes such aspects of construction as site preparation, concrete materials, concrete mixture proportions, concreting workmanship, joint construction, load transfer across joints, form stripping procedures, and curing. Finishing methods, flame-surface 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. Adequate supervision and inspection are required for job operations, particularly those of finishing.*

**Keywords:** admixtures; aggregates; concrete construction; concrete durability; concrete finishing (fresh concrete); concrete slabs; consolidation; contract documents; cracking (fracturing); curing; curling; deflection; floor toppings; floors; forms; form stripping; heavy-duty floors; inspection; joints (junctions); mixture proportions; placing; quality control; site preparation; slab-on-ground construction; slump tests; specifications; standards; suspended slabs.

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# Aci 3021r 15 Guide For Concrete Floor And Slab Construction

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## **AcI 3021r 15 Guide For Concrete Floor And Slab Construction:**

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**Specifications for Structural Concrete, ACI 301-05, with Selected ACI References** American Concrete Institute, 2005    *ACI PRC-302.2-22 Concrete Slabs That Receive Moisture-Sensitive Flooring Materials-Guide* ACI Committee 302, 2023-02    **ACI Manual of Concrete Practice: Materials and properties of concrete. Construction practices and inspection. Pavements and slabs** American Concrete Institute, 1968    **ACI 332. 1R-18 Guide to Residential Concrete Construction** ACI Committee 332, 2018-05    Recommended Practice for Concrete Inspection (ACI 311-64) American Concrete Institute. Committee 311, 1964 This recommended practice sets forth standards and procedures relating to concrete construction which will serve as a guide to owners architects and engineers in planning their inspection program The need for adequate inspection as a requirement for high quality attractive appearing concrete at least cost is emphasized Page 1    **ACI Manual of Concrete Practice** American Concrete Institute, 1976    *ACI Session for Construction of Concrete Slabs on Grade* American Concrete Institute. Education Department, 1982\*    **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    **Structural Design Guide to the ACI Building Code** Paul F. Rice, Edward S. Hoffman, 1979    **ACI Standards, 1959** American Concrete Institute, 1959    ACI Manual of Concrete Inspection B. E. Weinberg, 1981    **ACI 309. 2R-15 Guide to Identification and Control of Visible Surface Effects of Consolidation on Formed Concrete Surfaces** American Concrete Institute, 2015

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