The following ACI documents will soon be available:

“SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-10)”

Reported by ACI Committee 301, Specifications for Concrete:


*Subcommittee Chairs
†Deceased

Abstract: The first five sections of this document cover general construction requirements for cast-in-place structural concrete and slabs-on-ground. These sections cover materials and proportioning of concrete;

The Sustainable Concrete Guide—Strategies and Examples

The first-ever comprehensive resource on concrete and sustainability, this book provides design professionals with insight on 12 specific strategies for the best use of concrete in high-performance, long-lasting green buildings. Included are case studies, technical data/references, and numerous practices that can be implemented immediately.

This is the first in a series of guides on sustainable concrete – published by CAM Publishing; available from ACI.

Carbon footprint • Thermal mass and storage • Thermal transmission • Longevity and service life
Stormwater management • Human factors and the living/working environment • Security and safety
Local community impact • Reduce, reuse, recycle • Economic impact • Resilience • Compatibility

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reinforcement and prestressing steel; production, placing, finishing, and curing of concrete; formwork performance criteria and construction; treatment of joints; embedded items, repair of surface defects; and finishing of formed and unformed surfaces. Provisions governing testing, evaluation, and acceptance of concrete as well as acceptance of the structures are included. The remaining sections are devoted to architectural concrete, lightweight concrete, mass concrete, post-tensioned concrete, shrinkage-compensating concrete, industrial floor slabs, tilt-up construction, precast structural concrete, and precast architectural concrete.

“DESIGN GUIDE FOR THE USE OF ASTM A1035/A1035M GRADE 100 (690) STEEL BARS FOR STRUCTURAL CONCRETE (ACI ITG-6R-10)”

Reported by ACI Innovation Task Group 6 (ITG-6):
Paul Zia, Chair; Adam S. Lubell, Secretary; Satyendra Ghosh, Andres Lepage, Kenneth A. Luttrell, Robert F. Mast, Conrad Paulson, Henry G. Russell, and Joseph C. Sanders.

The committee members of ITG-6 would like to thank Wiss, Janney, Elstner Associates, Inc., and Mina Dawood for their contributions to this document.

Abstract: This guide provides recommendations on design provisions for the use of ASTM A1035/A1035M Grade 100 (690) deformed steel bars for reinforced concrete members. The recommendations address only those requirements of ACI 318-08 that limit the efficient use of such steel bars. Other code requirements are not affected. This guide includes a discussion of the material characteristics of Grade 100 (690) ASTM A1035/A1035M deformed steel bars and recommends design criteria for beams, columns, slab systems, walls, and footings for Seismic Design Category (SDC) A, B, or C, and also for structural components not designated as part of the seismic-force-resisting system for SDC D, E, or F.

“RESIDENTIAL CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 332-10) AND COMMENTARY”

Reported by ACI Committee 332, Residential Concrete Work:

Abstract: “Residential Code Requirements for Structural Concrete” covers the design and construction of cast-in-place concrete for one- and two-family dwellings and multiple single-family dwellings (townhouses), and their accessory structures. Among the subjects covered are the design and construction requirements for plain and reinforced concrete footings, foundation walls, and slabs-on-ground, and requirements for concrete, reinforcement, forms, and other related materials. The quality and testing of materials discussed in this document are covered by reference to the appropriate ASTM standards. Relevant resource documents are cited for the user desiring a more detailed study of individual issues. The metric version of “Residential Code Requirements for Structural Concrete (ACI 332M-10) and Commentary” will also be available.