

Details and Detailing of Concrete Reinforcement (ACI 315-99)

Reported by ACI Committee 315

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This document provides standards of practice for both the architect/engineer (A/E) and reinforcing steel detailer in showing reinforcing steel details. It is divided into three parts: one addressed to the A/E, one for the detailer, and a third providing a reference table and figures. It defines the responsibilities of both the A/E and detailer. It then establishes certain standards of practice for both the structural and placing drawings.

Keywords: beams (supports); bending (reinforcing steel); bridges (structures); buildings; columns (supports); concrete slabs; detailing; drafting (drawing); fabrication; floor systems; foundations; hooked reinforcing steel; microcomputers; placing drawings; reinforced concrete; reinforcing steel; splicing; stirrups; structural design; structural drawings; ties; tolerances (mechanics); walls; welded-wire fabric.

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Aci Detail Manual 315

**ACI Committee 315, American Concrete
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AcI Detail Manual 315:

Manual of Standard Practice for Detailing Reinforced Concrete Structures, ACI 315-65 American Concrete Institute. Committee 315, 1965 *ACI Detailing Manual-1988* AcI committee 315 (Details of concrete reinforcement), 1988

Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI 318R-05) ACI Committee 318, 2005 *Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary* ACI Committee 318, American Concrete Institute, 2008 The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications Welding of reinforcement is covered by reference to the appropriate AWS standard Uses of the Code include adoption by reference in general building codes and earlier editions have been widely used in this manner The Code is written in a format that allows such reference without change to its language Therefore background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included The Commentary is provided for this purpose Some of the considerations of the committee in developing the Code portion are discussed within the Commentary with emphasis given to the explanation of new or revised provisions Much of the research data referenced in preparing the Code is cited for the user desiring to study individual questions in greater detail Other documents that provide suggestions for carrying out the requirements of the Code are also cited **Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACI 315-51)** American Concrete Institute. Committee 315, 1952

ACI Detailing Manual ACI Committee 315, Details of Concrete Reinforcement, 1980 Structural Design Guide to the ACI Building Code Edward S. Hoffman, David P. Gustafson, Albert J. Gouwens, 1998-09-30 This extensively revised and updated fourth edition provides engineers with the principles and tools needed to turn their familiarity with earlier ACI Codes into more profitable time saving routine designs Created to be used with the ACI Code and Commentary this outstanding guide follows the new Code format with information covered in more specific sections and subsections in order to enhance clarity In addition it shortens the time needed for computer aided design and analysis converts code formulas from the review form to direct design and presents simple formulas tabulations and charts for conservative longhand direct design Two convenient indices a subject index and a 1995 Code section index are provided enabling engineers to quickly locate all Code references to a particular topic as well as concise interpretation of a given Code section The Guide also saves engineers time and effort on the job with its detailed coverage of torsional stiffness braced and unbraced slender columns with and without sidesway wide module joist systems reinforcement details for economy in design detailing fabricating field erection and inspection latest ASTM material specifications anchorage development and splice requirements high strength concrete comparisons between wall and column economy structural plain concrete More than ever the sure handed Structural Design Guide to the ACI Building Code is an indispensable practical reference for structural civil and architectural engineers and students who want to safely meet modern building requirements while taking full advantage of every economy

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