

ACI 301-Specifications for Structural Concrete for Buildings

A reference standard good for both specifier and contractor

ACI 301 is a reference standard which the engineer or architect may make applicable to any building project by citing it in the project specifications. He supplements it as needed by designating or specifying individual project requirements.

How ACI 301 is used

As its introduction explains, ACI 301 is incorporated into project specifications by reference. For example, the contract requirements might read: "Concrete work shall conform to all requirements of ACI 301-72 (Revised 1981). Specifications for Structural Concrete for Buildings." If some part of ACI 301 is not appropriate, the specifier can state any desired exceptions.

So that the standard is not confused with an earlier standard or an earlier revision, the year the standard was adopted and the last year it was revised must be included when referencing it. ACI 301 was adopted as a standard by the American Concrete Institute in May 1972 and most recently revised in May 1981.

Supplementary requirements briefly added

OTHER ACI REFERENCE SPECIFICATIONS

ACI 301 is a specification for structural concrete in buildings. It focuses on basic cast-in-place work and does not deal with specialty concretes. Some other reference specifications available from ACI include the following:

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| 503.1-79 | Bonding Hardened Concrete, Steel, Wood, Brick, and Other Materials to Hardened Concrete with a Multi-component Epoxy Adhesive |
| 503.2-79 | Bonding Plastic Concrete to Hardened Concrete with a Multi-component Epoxy Adhesive |
| 503.3-79 | Producing a Skid-resistant Surface on Concrete by the Use of a Multi-component Epoxy System |
| 503.4-79 | Repairing Concrete with Epoxy Mortars |
| 336.1-79 | End Bearing Drilled Piers |
| 346-81 | Cast-in-place Nonreinforced Concrete Pipe |
| 506.2-77 | Materials, Proportioning, and Application of Shotcrete |
| 531.1-76 | Concrete Masonry Construction |

For more information, contact the American Concrete Institute, Box 19150, Detroit, Michigan 48219.

ACI 301 is not complete in itself, though. The requirements that vary from project to project must be specified. A list of such requirements is presented at the beginning of ACI 301. Two of these requirements must be specified for all projects:

- the strength of the concrete for each portion of the structure
- the types and grades of reinforcing steel

Other supplemental requirements are designated only when they apply. Some examples are: the test age of concrete if other than 28 days; the admixtures that are required or prohibited; the types and strengths of prestressing steel; and when reshoring is required or permitted.

It takes the specifier only about three pages to state the mandatory supplementary requirements—concrete strength and type of reinforcement—plus those supplementary requirements that pertain to the specific project. The list of supplementary items at the beginning of ACI 301 serves as a checklist; each item is keyed to section numbers in the text.

Notes help contractor

At the end of each chapter are notes pointing out any items which require approval of the architect-engineer or other specifying authority. Items such as construction joints not shown on the drawings, proprietary patching agents, or heavy-duty toppings are among those called out. It is virtually impossible to overlook these sensitive points. They can be found by quick inspection at the end of the chapters instead of having to scan the entire document.

What ACI 301 covers

This 36-page reference standard is divided into 18 chapters (see box). Each chapter is further divided into sections and subsections. Decimal numbering makes for easy reference and shows the relationship of topics.

Why reference ACI 301?

The requirements of ACI 301 are standard specifications, developed through a consensus process and approved by a group of industry professionals. If followed correctly, these specifications will produce quality construction. With repeated use, they become familiar, not frightening. The contractor comes to know what the

Specifications For Structural Concrete

Raffaela Di Napoli



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