



Standard Specification for Precast Reinforced Concrete Crib Wall Members¹

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1. Scope

1.1 This specification covers open- and closed-face precast reinforced concrete crib walls intended to act as earth-retaining structures or as protection against stream encroachment.

NOTE 1—This specification is a manufacturing and purchase specification only, with examples and suggestions for usage. Successful performance of this product depends on the proper selection and assembling of members, proper foundation and bearing material, and consideration of backfill heights, backfill material, drainage, and other engineering and construction considerations. The purchaser of the crib wall members specified herein is cautioned that he must properly correlate the field requirements with the members selected and provide adequate inspection at the construction site.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

2.1 ASTM Standards:

- A 370 Test Methods and Definitions for Mechanical Testing of Steel Products²
- A 615/A 615M Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement³
- A 616/A 616M Specification for Rail-Steel Deformed and Plain Bars for Concrete Reinforcement⁴
- A 617/A 617M Specification for Axle-Steel Deformed and Plain Bars for Concrete Reinforcement⁴
- C 31/C 31M Practice for Making and Curing Concrete Test Specimens in the Field⁵
- C 33 Specification for Concrete Aggregates⁵
- C 39/C 39M Test Method for Compressive Strength of Cylindrical Concrete Specimens⁵
- C 42/C 42M Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete⁵
- C 94/C 94M Specification for Ready-Mixed Concrete⁵

C 150 Specification for Portland Cement⁶

C 173/C 173M Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method⁵

C 231 Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method⁵

C 260 Specification for Air-Entraining Admixtures for Concrete⁵

C 309 Specification for Liquid Membrane-Forming Compounds for Curing Concrete⁵

C 330 Specification for Lightweight Aggregates for Structural Concrete⁵

C 494/C 494M Specification for Chemical Admixtures for Concrete⁵

C 595 Specification for Blended Hydraulic Cements⁶

C 618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete⁵

3. Classification

3.1 Cribbing manufactured in accordance with this specification shall be of open- or closed-face design and shall conform to the standard designs shown in Figs. 1-4.

4. Ordering Information

4.1 Acceptability of the crib wall members in all cross sections and lengths produced in accordance with Section 6 shall be determined by the results of cylinder compression tests of the placed concrete and mill certificates for the reinforcing steel and cement. A written statement, signed by the manufacturer, shall verify that the cement, aggregate, admixtures, and reinforcing steel conform to the specifications for materials in Section 5 and that the preparation of equipment, mixing, conveying, placing, consolidating, and curing meet requirements of the applicable standard specifications. The concrete strength as determined by the cylinder compression tests shall be as specified in 6.3, and the test method shall conform to the requirements of Test Method C 39. The manufacturer's statement shall also certify adherence to tolerance dimensions of Section 9.

4.2 Acceptability of the concrete strength of completed cribbing produced in accordance with Section 6 may also be

¹ This specification is under the jurisdiction of ASTM Committee C27 on Precast Concrete Products and is the direct responsibility of Subcommittee C27.20 on Architectural and Structural Products.

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² *Annual Book of ASTM Standards*, Vol 01.03.

³ *Annual Book of ASTM Standards*, Vol 01.04.

⁴ Discontinued; see 1998 *Annual Book of ASTM Standards*, Vol 01.04. Replaced by A 996/A 996M.

⁵ *Annual Book of ASTM Standards*, Vol 04.02.

⁶ *Annual Book of ASTM Standards*, Vol 04.01.