



Designation: C 901 – 93a

Standard Specification for Prefabricated Masonry Panels¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers the structural design and quality control of fabrication for load-bearing and non-load-bearing prefabricated masonry panels. Methods of prefabrication, field erection, and jointing are not covered in this specification.²

2. Referenced Documents

2.1 ASTM Standards:

- A 82 Specification for Steel Wire, Plain, for Concrete Reinforcement³
- A 116 Specification for Zinc-Coated (Galvanized) Steel-Woven Wire Fence Fabric⁴
- A 153 Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware⁴
- A 167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip⁵
- A 185 Specification for Steel Welded Wire, Fabric, Plain, for Concrete Reinforcement³
- A 615/A615M Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement³
- A 616/A616M Specification for Rail-Steel Deformed and Plain Bars for Concrete Reinforcement³
- A 617/A617M Specification for Axle-Steel Deformed and Plain Bars for Concrete Reinforcement³
- B 227 Specification for Hard-Drawn Copper-Clad Steel Wire⁶
- C 34 Specification for Structural Clay Load-Bearing Wall Tile⁷
- C 55 Specification for Concrete Building Brick⁷
- C 62 Specification for Building Brick (Solid Masonry Units Made from Clay or Shale)⁷
- C 67 Test Methods for Sampling and Testing Brick and Structural Clay Tile⁷

- C 73 Specification for Calcium Silicate Face Brick (Sand-Lime Brick)⁷
- C 90 Specification for Load-Bearing Concrete Masonry Units⁷
- C 109 Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens)⁸
- C 126 Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units⁷
- C 140 Methods of Sampling and Testing Concrete Masonry Units⁷
- C 145 Specification for Solid Load-Bearing Concrete Masonry Units⁷
- C 212 Specification for Structural Clay Facing Tile⁷
- C 216 Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)⁷
- C 270 Specification for Mortar for Unit Masonry⁷
- C 476 Specification for Grout for Masonry⁷
- C 652 Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale)⁷
- C 744 Specification for Prefaced Concrete and Calcium Silicate Masonry Units⁷
- C 780 Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry⁷
- C 1019 Test Method of Sampling and Testing Grout⁷
- E 72 Methods of Conducting Strength Tests of Panels for Building Construction⁸
- E 447 Test Methods for Compressive Strength of Masonry Prisms⁷
- E 518 Test Method for Flexural Bond Strength of Masonry⁷

3. Materials and Manufacture

3.1 *Masonry Units*—Masonry units shall conform to the following applicable specifications:

3.1.1 *Brick*—Specification C 62 for building brick, Specification C 216 for facing brick, Specification C 126 for ceramic glazed structural clay tile, facing brick, and solid masonry units, and Specification C 652 for hollow brick.

3.1.2 *Concrete Masonry Units*—Specification C 55 for concrete building brick, Specification C 90 for hollow load-bearing concrete masonry units, Specification C 145 for

¹ This specification is under the jurisdiction of ASTM Committee C-15 on Manufactured Masonry Units and is the direct responsibility of Subcommittee C15.05 on Masonry Assemblages.

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² *Annual Book of ASTM Standards*, Vol 04.07.

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

⁴ *Annual Book of ASTM Standards*, Vol 01.06.

⁵ *Annual Book of ASTM Standards*, Vol 01.03.

⁶ *Annual Book of ASTM Standards*, Vol 02.03.

⁷ *Annual Book of ASTM Standards*, Vol 04.05.

⁸ *Annual Book of ASTM Standards*, Vol 04.01.