



Designation: **C139—14 C139 – 17**

Standard Specification for Concrete Masonry Units for Construction of Catch Basins and Manholes¹

This standard is issued under the fixed designation C139; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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

1. Scope*

1.1 This specification covers solid precast segmental concrete masonry units made from hydraulic cement, water, and suitable mineral aggregates, with or without the inclusion of other materials. The units are intended for use in the construction of catch basins and manholes.

1.2 The text of this standard referenced notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[C33 Specification for Concrete Aggregates](#)

[C140 Test Methods for Sampling and Testing Concrete Masonry Units and Related Units](#)

[C150 Specification for Portland Cement](#)

[C207 Specification for Hydrated Lime for Masonry Purposes](#)

[C595 Specification for Blended Hydraulic Cements](#)

[C618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete](#)

[C989 Specification for Slag Cement for Use in Concrete and Mortars](#)

[C1157 Performance Specification for Hydraulic Cement](#)

[C1232 Terminology of Masonry](#)

3. Terminology

3.1 Terminology defined in Terminology [C1232](#) shall apply for this specification.

4. Materials

4.1 Cementitious materials shall conform to the following ASTM specifications:

4.1.1 *Portland Cement*—Specification [C150](#).

4.1.2 *Blended Hydraulic Cements*—Specification [C595](#).

4.1.3 *Hydraulic Cement*—Specification [C1157](#).

4.1.4 *Ground Blast-Furnace Slag*—Specification [C989](#).

4.1.5 *Hydrated Lime*—Type S of Specification [C207](#).

¹ This specification is under the jurisdiction of ASTM Committee [C15](#) on Manufactured Masonry Units and is the direct responsibility of Subcommittee [C15.03](#) on Concrete Masonry Units and Related Units.

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² For referenced ASTM standards, visit the ASTM website, [www.astm.org](#), or contact ASTM Customer Service at [service@astm.org](#). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

*A Summary of Changes section appears at the end of this standard