



Designation: ~~C139 – 11~~ C139 – 14

# Standard Specification for Concrete Masonry Units for Construction of Catch Basins and Manholes<sup>1</sup>

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 ( $\epsilon$ ) 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 ~~which~~ 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.

## 2. Referenced Documents

2.1 *ASTM Standards*:<sup>2</sup>

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.

4.1.6 *Fly Ash*—Specification C618.

4.1.7 *Siliceous and Pozzolan Materials*—Siliceous and pozzolanic materials shall conform to applicable ASTM standards, or shall be shown by test or experience to be not detrimental to the durability of the concrete.

<sup>1</sup> 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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<sup>2</sup> 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