



Designation: C1232 – 26

Standard Terminology for Masonry¹

This standard is issued under the fixed designation C1232; 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.

1. Scope*

1.1 This standard incorporates terms and definitions of terms used in standards under the jurisdiction of Committee C15 on Masonry – Manufactured Masonry Units, Mortars, and Grouts.

1.2 This standard incorporates terms and definitions of terms associated with the standards specific to clay masonry units, in particular to Specifications C32, C34, C56, C62, C126, C212, C216, C279, C410, C530, C652, C902, C1088, C1167, C1261, C1272, and C1405, and to Test Methods C67/C67M.

1.3 This standard incorporates terms and definitions of terms associated with the standards specific to concrete masonry units in particular to Specifications C55, C73, C90, C129, C139, C744, C1319, C1372, C1491, C1623, and C1634 and to Test Methods C140/C140M, C426, and C1262/C1262M.

1.4 This standard incorporates terms and definition of terms associated with the standards specific to autoclaved aerated concrete masonry units in particular to Practice C1692 and to Specifications C1386, C1691, and C1693.

1.5 This standard incorporates terms and definitions of terms associated with the standards specific to clay and concrete roofing tile units in particular to Specifications C1167 and C1492 and to Test Methods C1568, C1569, and C1570.

1.6 For terminology specific to mortar and grout, see Terminology C1180.

1.7 For terminology specific to lime, see Terminology C51.

1.8 *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.*

¹ This terminology is under the jurisdiction of ASTM Committee C15 on Masonry – Manufactured Masonry Units, Mortars and Grouts and is the direct responsibility of Subcommittee C15.08 on Terminology.

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2. Referenced Documents

2.1 ASTM Standards:²

- C32 Specification for Sewer and Manhole Brick (Made From Clay or Shale)
- C34 Specification for Structural Clay Loadbearing Wall Tile
- C51 Terminology Relating to Lime and Limestone (as Used by the Industry)
- C55 Specification for Dry-Cast Concrete Building Brick
- C56 Specification for Structural Clay Nonloadbearing Tile
- C62 Specification for Building Brick (Solid Masonry Units Made from Clay or Shale)
- C67/C67M Test Methods for Sampling and Testing Brick and Structural Clay Tile
- C73 Specification for Calcium Silicate Brick (Sand-Lime Brick)
- C90 Specification for Dry-Cast Loadbearing Concrete Masonry Units
- C126 Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units
- C129 Specification for Dry-Cast Nonloadbearing Concrete Masonry Units
- C139 Specification for Dry-Cast Concrete Masonry Units for Construction of Catch Basins and Manholes
- C140/C140M Test Methods for Sampling and Testing Concrete Masonry Units and Related Units
- C143/C143M Test Method for Slump of Hydraulic-Cement Concrete
- C212 Specification for Structural Clay Facing Tile
- C216 Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)
- C230/C230M Specification for Flow Table for Use in Tests of Hydraulic Cement
- C270 Specification for Mortar for Unit Masonry
- C279 Specification for Chemical-Resistant Masonry Units
- C410 Specification for Industrial Floor Brick
- C426 Test Method for Linear Drying Shrinkage of Concrete Masonry Units
- C476 Specification for Grout for Masonry

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. 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

C530 Specification for Structural Clay Nonloadbearing Screen Tile

C652 Specification for Hollow Brick (Hollow Masonry Units Made From Clay or Shale)

C744 Specification for Prefaced Concrete and Calcium Silicate Masonry Units

C902 Specification for Pedestrian and Light Traffic Paving Brick

C936/C936M Specification for Solid Concrete Interlocking Paving Units

C1088 Specification for Thin Veneer Brick Units Made From Clay or Shale

C1167 Specification for Clay Roof Tiles

C1180 Terminology of Mortar and Grout for Unit Masonry (Withdrawn 2025)³

C1261 Specification for Firebox Brick for Residential Fireplaces

C1262/C1262M Test Method for Evaluating the Freeze-Thaw Durability of Dry-Cast Segmental Retaining Wall Units and Related Concrete Units

C1272 Specification for Heavy Vehicular Paving Brick

C1319 Specification for Concrete Grid Paving Units

C1372 Specification for Dry-Cast Segmental Retaining Wall Units

C1386 Specification for Precast Autoclaved Aerated Concrete (AAC) Wall Construction Units (Withdrawn 2013)³

C1400 Guide for Reduction of Efflorescence Potential in New Masonry Walls

C1405 Specification for Glazed Brick (Single Fired, Brick Units)

C1437 Test Method for Flow of Hydraulic Cement Mortar

C1491 Specification for Concrete Roof Pavers (Withdrawn 2023)³

C1492 Specification for Concrete Roof Tile

C1568 Test Method for Wind Resistance of Concrete and Clay Roof Tiles (Mechanical Uplift Resistance Method)

C1569 Test Method for Wind Resistance of Concrete and Clay Roof Tiles (Wind Tunnel Method)

C1570 Test Method for Wind Resistance of Concrete and Clay Roof Tiles (Air Permeability Method)

C1611/C1611M Test Method for Slump Flow of Self-Consolidating Concrete

C1623 Specification for Manufactured Concrete Masonry Lintels

C1634 Specification for Dry-Cast Concrete Facing Brick and Other Concrete Masonry Facing Units

C1645 Test Method for Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units

C1691 Specification for Unreinforced Autoclaved Aerated Concrete (AAC) Masonry Units

C1692 Practice for Construction and Testing of Autoclaved Aerated Concrete (AAC) Masonry

C1693 Specification for Autoclaved Aerated Concrete (AAC)

C1713 Specification for Mortars for the Repair of Historic Masonry

C1714/C1714M Specification for Preblended Dry Mortar Mix for Unit Masonry

C1790 Specification for Fly Ash Facing Brick

C1791 Guide for Reduction of Efflorescence Potential in New Unit Pavement Systems

3. Terminology

3.1 *Generic Definitions*—The definitions apply to manufactured masonry units and masonry constructed with manufactured masonry units. They are generic as used by ASTM Committee C15.

absorption, *n*—*in clay masonry*, increase in mass of a clay masonry unit due to the penetration of water into permeable pores when the masonry unit is immersed in water.

DISCUSSION—Absorption values are used as one factor in determining durability grades of masonry units. In clay masonry, absorption values are indicators of the extent of firing during manufacture. Two conditions of immersion are designated in standards relating to brick: 1.) Immersion in room temperature water, or 2.) Immersion in boiling water. (The resulting absorptions are termed cold water absorption and boiling water absorption respectively. Test Methods C67/C67M has more details on absorption testing procedures for brick and structural clay tile.

absorption, *n*—*in concrete masonry*, difference in the amount of water contained within a concrete masonry unit or related unit between a saturated and oven-dry condition in accordance with the requirements of Test Methods C140/C140M.

DISCUSSION—Absorption is expressed as weight of water per volume of concrete.

admixture, *n*—substance other than the Specification C270 prescribed materials of water, aggregate, and cementitious materials that is added to a masonry mortar as an ingredient to improve one or more chemical or physical properties of the conventional masonry mortar

aggregates, *n*—a granular mineral material such as natural sand, manufactured sand, gravel, crushed stone, and air-cooled blast furnace slag.

area, gross, *n*—*in masonry units*, the area delineated by the out-to-out dimensions of a masonry unit in the plane under consideration. (See Fig. 1.)

DISCUSSION—Gross area of a masonry unit includes the total area of a section perpendicular to the direction of the load, including areas within cores, cells, and voids.

area, net, *n*—*in masonry units*, the solid area of a masonry unit crossed by the plane under consideration, based on out-to-out dimensions. (See Fig. 2.)

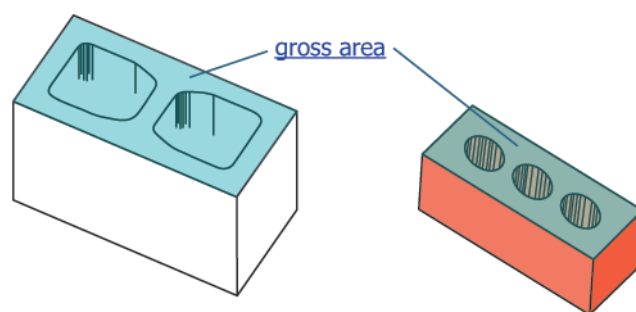


FIG. 1 Gross Area

³ The last approved version of this historical standard is referenced on www.astm.org.