



Designation: ~~C 503–05~~ Designation: **C503 – 08a**

## Standard Specification for Marble Dimension Stone<sup>1</sup>

This standard is issued under the fixed designation C503; 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.

### 1. Scope

~~1.1 This specification covers the material characteristics, physical requirements, and sampling appropriate to the selection of marble for general building and structural purposes.~~

1.1 This specification covers the material characteristics, physical requirements, and sampling appropriate to the selection of marble for general building and structural purposes. Refer to Guides C1242 and C1528 for the appropriate selection and use of marble dimension stone.

1.2 Dimension marble shall include stone that is sawed, cut, split, or otherwise finished or shaped into blocks, slabs or tiles, and shall specifically exclude molded, cast and artificially aggregated units composed of fragments, and also crushed and broken stone.

### 2. Referenced Documents

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

C97 Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone

C99 Test Method for Modulus of Rupture of Dimension Stone

C119 Terminology Relating to Dimension Stone

C170 Test Method for Compressive Strength of Dimension Stone

C241 Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic

C880 Test Method for Flexural Strength of Dimension Stone

C1242 Guide for Selection, Design, and Installation of Dimension Stone Attachment Systems

~~C1353 Test Method Using the Taber Abraser for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic~~ Test Method for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform, Double-Head Abraser

C1528 Guide for Selection of Dimension Stone

### 3. Terminology

3.1 *Definitions*—All definitions are in accordance with Terminology C 119C119.

3.1.1 *marble, n*—a crystalline rock composed predominantly of one or more of the following minerals: calcite and dolomite capable of taking a polish (see Terminology C 119C 119).

### 4. Classification

4.1 Dimension marble is classified as follows:

4.1.1 *I Calcite.*

4.1.2 *II Dolomite.*

~~NOTE 1—See Terminology C 119C 119 1—See Terminology C119~~ for definitions of calcite and dolomite.

### 5. Soundness

~~5.1 Marbles are further classified into four “Soundness” groups. The basis of this classification is the characteristics encountered in fabrication and has no reference whatsoever to comparative merit or value. The classifications merely indicate what method of fabrication is considered necessary and acceptable in each instance, as based on standard trade practice. Marble is classified by its producer.~~

5.1 Marbles are further classified into four “Soundness” groups: A, B, C, and D. Classifications are based on the properties

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee C18 on Dimension Stone and is the direct responsibility of Subcommittee C18.03 on Material Specifications.

Current edition approved June 1, 2005. Published July 2005. Originally approved in 1962. Last previous edition approved in 2003 as C 503–03.

Current edition approved Oct. 1, 2008. Published November 2008. Originally approved in 1962. Last previous edition approved in 2008 as C503–08. DOI: 10.1520/C0503-08A.

<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.