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Standard Specification for Marble Dimension Stone¹

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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. 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.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

2. Referenced Documents

2.1 ASTM Standards:²

[C9797/C97M](#) Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone

[C9999/C99M](#) Test Method for Modulus of Rupture of Dimension Stone

C119 Terminology Relating to Dimension Stone

[C170170/C170M](#) Test Method for Compressive Strength of Dimension Stone

[C244241/C241M](#) Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic

[C880880/C880M](#) Test Method for Flexural Strength of Dimension Stone

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

C1353 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 C119.

4. Classification

4.1 Dimension marble is classified as follows:

4.1.1 *I Calcite.*

4.1.2 *II Dolomite.*

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

5. Soundness

5.1 Marbles are further classified into four “Soundness” groups: A, B, C, and D. Classifications are based on the properties encountered in fabrication and has no reference whatsoever to comparative merit or value. Marble is classified by its producer.

5.2 The Soundness classifications indicate what repairs may be necessary prior to or during installation, based on standard trade practices.

5.3 The groupings A, B, C, and D, should be taken into account when specifying marble, for all marbles are not suitable for all building applications. This is particularly true of the comparatively fragile marbles classified under Soundness Groups C and

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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.