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Standard Specification for Limestone Dimension Stone¹

This standard is issued under the fixed designation C 568; 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 Department of Defense.

1. Scope

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

1.1 This specification covers the material characteristics, physical requirements, and sampling appropriate to the selection of limestone for general building and structural purposes. Refer to Guides C 1242 and C 1528 for the appropriate selection and use of limestone dimension stone.

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

2. Referenced Documents

2.1 ASTM Standards:²

C 97 Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone

C 99 Test Method for Modulus of Rupture of Dimension Stone

C 119 Terminology Relating to Dimension Stone

~~C 170 Test Method for Compressive Strength of Dimension Stone~~

~~C 241 Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic~~

~~C 1353 Test Method Using the Taber Abraser for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic~~

C 170 Test Method for Compressive Strength of Dimension Stone

C 241 Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic

C 1242 Guide for Selection, Design, and Installation of Dimension Stone Anchoring Systems

C 1353 Test Method Using the Taber Abraser for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic

C 1528 Guide for Selection of Dimension Stone for Exterior Use

3. Terminology

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

3.1.1 *limestone, n*—a sedimentary rock composed principally of calcium carbonate (the mineral calcite) or the double carbonate of calcium and magnesium (the mineral dolomite) or a mixture of the two.

4. Classification

4.1 Dimension limestone shall be classified into three categories, generally descriptive of those limestones having densities in approximate ranges, as follows:

4.1.1 *I (Low-Density)*—Limestone having a density ranging from 110 through 135 lb/ft³ (1760 through 2160 kg/m³).

4.1.2 *II (Medium-Density)*—Limestone having a density greater than 135 and not greater than 160 lb/ft³ (2160 through 2560 kg/m³).

4.1.3 *III (High-Density)*—Limestone having a density greater than 160 lb/ft³ (2560 kg/m³).

5. Physical Requirements

5.1 Limestone supplied under this specification shall conform to the physical requirements listed in Table 1.

¹ 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.

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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.