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Standard Specification for Slate Dimension Stone¹

This standard is issued under the fixed designation C 629; 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 slate for general building and structural purposes.~~

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

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

1.3 It specifically excludes roofing slate (see Specification C 406) and slate for industrial uses.

2. Referenced Documents

2.1 *ASTM Standards:*²

C 119 Terminology Relating to Dimension Stone

C 120 Test Methods for Flexure Testing of Slate (Breaking Load, Modulus of Rupture, Modulus of Elasticity)

C 121 Test Method for Water Absorption of Slate

C 217 Test Method for Weather Resistance of Slate

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

C 406 Specification for Roofing Slate

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~~
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.

4. Classification

4.1 Dimension slate shall be selected for the following uses:

4.1.1 *I Exterior.*

4.1.2 *II Interior.*

5. Physical Requirements

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

5.2 Slate used for exterior applications in ambient acidic atmospheres or in industrial areas where heavy air pollution occurs shall be free of carbonaceous ribbons. Slate shall be sound, durable, and free of spalls, cracks, open seams, pits, or other defects that are likely to impair its structural integrity in its intended use.

5.3 Slate shall be selected for overall satisfactory and natural appearance.

5.4 The desired color and texture, with their permissible natural variations in material characteristics for all material to be produced for the project, shall be established by control samples. Select representative samples by viewing a sufficient number of

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.