



Standard Specification for Travertine 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 travertine for general building and structural purposes. Refer to Guides [C1242](#) and [C1528](#) for the appropriate selection and use of travertine dimension stone.

1.2 Dimension travertine 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 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.

1.4 *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.*

2. Referenced Documents

2.1 ASTM Standards:²

- [C97/C97M](#) Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone
- [C119](#) Terminology Relating to Dimension Stone
- [C170/C170M](#) Test Method for Compressive Strength of Dimension Stone
- [C241/C241M](#) Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic
- [C880/C880M](#) Test Method for Flexural Strength of Dimension Stone

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.

[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 Abraser

[C1528](#) Guide for Selection of Dimension Stone

3. Terminology

3.1 All definitions are in accordance with Terminology [C119](#).

3.2 Definitions:

3.2.1 *fleuri-cut (cross-cut)*, *adj*—describes stone that is cut parallel to the natural veining.

3.2.2 *vein-cut*, *adj*—describes stone that is cut perpendicular to the natural veining.

4. Physical Properties

4.1 Travertine supplied under this specification shall conform to the physical requirements prescribed in [Table 1](#).

4.2 Travertine shall be free of minerals that may cause objectionable staining under normal environments of use.

4.3 Voids in travertine are a natural characteristic of the material and shall be considered in assessing the permissible natural variations suitable for a particular application.

4.3.1 Some travertines may not be suitable for exterior use in areas subject to frequent freeze-thaw cycles.

4.3.2 Travertine that is fleuri-cut (cross-cut) rather than vein-cut can be expected to experience certain problems, because some areas of the exposed surface will consist of only a thin layer of stone that covers a void in the stone.

4.4 The desired color and texture, with their permissible natural variations in material characteristics for material to be produced for the project, shall be established by control samples. Representative samples shall be selected prior to production by viewing a sufficient number of samples that show the complete range of variations in color and texture of the travertine specified.

5. Sampling

5.1 Samples, if required, for testing to determine the characteristics and physical properties shall be representative of the travertine to be used.