



Dimension Stone Testing

Sampling Requirements and Typical Turnaround

| TEST METHOD | SAMPLING REQUIREMENTS | TYPICAL TURNAROUND |
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| ASTM C97 Water Absorption and Bulk Specific Gravity/Density | 5 stone specimens, 3" x 3" x 3" cubes | 3 weeks |
| ASTM C99 Modulus of Rupture | If there is no rift direction, only 10 stone specimens are required. 20 stone specimens – 4" x 8" x 2 1/4" with 10 cut with the top and bottom planes parallel to the rift and 10 cut with the top and bottom planes perpendicular to the rift. Please mark the rift direction on each specimen. | 3 weeks |
| ASTM C120 Flexure Testing of Slate | Contact the lab for sampling. | 3 weeks |
| ASTM C121 Flexure Testing of Slate | Contact the lab for sampling. | 3 weeks |
| ASTM C170 Compressive Strength | If there is no rift direction, only 10 stone specimens are required. 20 stone specimens - 3" cubes with 2 opposite faces parallel to the bedding or rift. Please mark the rift direction on each specimen. | 3 weeks |
| ASTM C482 (Modified) Bond Strength | 5 whole specimens The client must provide the thin-set, specify cure time needed and provide installation instructions for the set-up. | Depends on curing time specified |
| ASTM C485, C499, C502 Warpage, Dimensions & Wedging | 10 whole specimens | 3 weeks |
| ASTM C627 Robinson Floor Test | 16 sq. ft. of material The client must provide all materials, except substrate. Please contact the lab for the additional form required for this test. | 6 weeks |
| ASTM C650 Chemical Resistance | 15 specimens, 2" x 2" | 3 weeks |
| ASTM C666* High Cycle Freeze / Thaw Resistance | 10 specimens, 3" x 3" x 3" This method runs for 300 cycles. Contact the lab for a different testing procedure, if needed, and a quotation. | 4 months |
| ASTM C880 Flexural Strength | If there is no rift direction, only 10 stone specimens are required. 20 stone specimens – 15" x 4" x 1 1/4" with 10 cut with the top and bottom planes parallel to the rift and 10 cut with the top and bottom planes perpendicular to the rift. Please mark the rift direction on each specimen. | 3 weeks |
| ASTM C895 Lead & Cadmium Extraction | 6 specimens, 6" x 6" or larger | 4 weeks |
| ASTM C1026 Freeze/Thaw | 5 specimens, 3" x 3" Specimens to be cut from the center of 5 separate pieces. | 4 months |
| ASTM C1028 Static Coefficient of Friction | 3 specimens, 6" x 6" or larger | 3 weeks |



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| ASTM C1378 Stain Resistance | 6 specimens, 4" x 4" | 3 weeks |
| ASTM C1721 Petrographic Analysis | 1 specimen (Any size) | 8 weeks |
| ASTM C1895 Scratch Hardness | 3 specimens, 3" x 12" | 3 weeks |
| ASTM E1980 Solar Reflectance Index (SRI) | 1 specimen, 4" x 4" or larger | 3 weeks |
| ANSI A326.3 Dynamic Coefficient of Friction (Wet Only) | 3 specimens, 8" x 8" or larger | 3 weeks |
| ANSI A326.3 Dynamic Coefficient of Friction (Dry Only) | 3 specimens, 8" x 8" or larger | 3 weeks |
| ANSI A326.3 Dynamic Coefficient of Friction (Wet + Dry) | 3 specimens, 8" x 8" or larger | 3 weeks |
| ASTM E303 Pendulum | 3 whole specimens | 3 weeks |
| DIN 16165 German Ramp | 6 sq. ft. of material If applicable, the client must provide the provide installation instructions for the set-up and the grout needed, along with the trowel size. | 3 weeks |
| EN 14617-12 Dimensional Stability Test for Moisture Sensitivity of Stone | 3 stone specimens, 12" x 12", when testing per EN 14617-12 (contact the lab for alternative testing options) | 3 weeks when tested per EN 14617-12 |