



Tile Testing

Sampling Requirements and Typical Turnaround

TEST METHOD	SAMPLING REQUIREMENTS	TYPICAL TURNAROUND
ANSI A137.1 Glazed Tile Package	60 specimens - 12"x12" or larger	3 weeks all tests except 4 months for Freeze/thaw
ANSI A137.1 Missing Criteria Package (Glazed Tile)	45 whole specimens	3 weeks all tests except 4 months for Freeze/thaw
ANSI A137.1 Unglazed Tile Package	50 specimens – 12"x12" or larger	3 weeks all tests except 4 months for Freeze/thaw
ANSI A137.1 Missing Criteria Package (Unglazed Tile)	35 whole specimens	3 weeks all tests except 4 months for Freeze/thaw
ANSI A137.1 Wall Tile Package	60 specimens – 4"x4" or larger	3 weeks all tests except 4 months for Freeze/thaw
ANSI A137.1 Missing Criteria Package (Wall Tile)	45 whole specimens	3 weeks all tests except 4 months for Freeze/thaw
ASTM C370 Moisture Expansion	5 specimens, 1" x 4"	3 weeks
ASTM C372 Linear Thermal Expansion (Air)	1 whole specimen (Any size)	3 weeks
ASTM C372 Linear Thermal Expansion (Cryogenic)	1 whole specimen (Any size)	3 weeks
ASTM C373 Water Absorption	5 whole specimens	3 weeks
ASTM C424 Craze Resistance	10 whole specimens	3 weeks
ASTM C482 Bond Strength	5 specimens, 4" x 4" with 1 original edge	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 C484 Thermal Shock Resistance	5 whole specimens	3 weeks
ASTM C485, C499, C502 Warpage, Dimensions & Wedging	10 whole specimens	3 weeks
ASTM C501 Taber Abraser	10 whole specimens	3 weeks
ASTM C609 Light Reflectance and Color Difference	5 specimens, 4" x 4"	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.	6 weeks
ASTM C648 Breaking Strength	10 whole specimens	3 weeks
ASTM C650 Chemical Resistance	15 specimens, 2" x 2"	3 weeks
ASTM C1505 Modulus of Rupture	10 whole specimens	3 weeks
ASTM C895 Lead & Cadmium Extraction	6 specimens, 6" x 6" or larger	5 weeks
ASTM C1026 Freeze/Thaw	5 specimens, 3" x 3" Specimens to be cut from the center of 5 separate pieces.	4 months
ASTM C1027 Surface Abrasion	16 specimens, 4" x 4"	3 weeks
ASTM C1028 Static Coefficient of Friction	3 specimens, 6" x 6" or larger	3 weeks
ASTM C1243 Deep Abrasion	5 specimens, 4" x 4"	3 weeks
ASTM C1378 Stain Resistance	6 specimens, 4" x 4"	3 weeks
ASTM C1870 Impact Resistance	6 specimens, 6" x 6"	3 weeks
ASTM C1895 Scratch Hardness	3 specimens, 3" x 12"	3 weeks
ASTM G21 Resistance to Fungi	1 specimen, 2" x 2"	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 grout is to be used, the client must provide the grout, along with the grout joint size. If not, grout is required, the specific installation layout for material must be submitted prior to testing.	3 weeks
ISO 10545-2 Warpage, Dimensions, & Wedging	10 whole specimens	3 weeks
ISO 10545-3 Water Absorption	5 whole specimens	3 weeks
ISO 10545-4 MOR & Breaking Strength	10 whole specimens	3 weeks
ISO 10545-5 Coefficient of Restitution	5 specimens, 3" x 3"	3 weeks



ISO 10545-6 Deep Abrasion	5 specimens, 4" x 4"	3 weeks
ISO 10545-7 Surface Abrasion	16 specimens, 4" x 4"	3 weeks
ISO 10545-8 Linear Thermal Expansion	1 whole specimen (Any size)	3 weeks
ISO 10545-9 Thermal Shock Resistance	5 whole specimens	3 weeks
ISO 10545-10 Moisture Expansion	5 whole specimens	3 weeks
ISO 10545-11 Crazing Resistance	5 whole specimens	3 weeks
ISO 10545-13 Chemical Resistance	15 specimens, 2" x 2"	3 weeks
ISO 10545-14 Stain Resistance	6 specimens, 4" x 4"	3 weeks