



**Gauged Porcelain Testing**

**Sampling Requirements and Typical Turnaround**

<b>TEST METHOD</b>	<b>SAMPLING REQUIREMENTS</b>	<b>TYPICAL TURNAROUND</b>
ASTM C370   Moisture Expansion	5 specimens, 1" x 4"	3 weeks
ASTM C372   Linear Thermal Expansion (Air)	1 specimen, 1" x 4"	3 weeks
ASTM C372   Linear Thermal Expansion (Cryogenic)	1 specimen, 1" x 4"	3 weeks
ASTM C373   Water Absorption	5 whole specimens	3 weeks
ASTM C373   Water Absorption (with Back-Layered Gauged Porcelain)	5 whole specimens	3 weeks
ASTM C424   Craze Resistance	10 specimens, 4" x 4"	3 weeks
ANSI A137.3 - Section 8.5   Bond Strength (Dry only)	4 specimens, 4" x 4"   The client must provide the thin-set, specify cure time needed and provide installation instructions for the set-up.	6 weeks
ANSI A137.3 - Section 8.5   Bond Strength (Dry and Wet) (for Back-Layered Gauged Porcelain)	8 specimens, 4" x 4"   The client must provide the thin-set, specify cure time needed and provide installation instructions for the set-up.	6 weeks
ASTM C484   Thermal Shock Resistance	5 specimens, 12" x 12"	3 weeks
ASTM C485, C499, C502   Warpage, Dimensions & Wedging	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 for this test.	6 weeks
ASTM C1505   Modulus of Rupture	10 whole specimens	3 weeks
ASTM C650   Chemical Resistance	15 specimens, 2" x 2" (samples can be cut from a single piece)	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 C1243   Deep Abrasion	5 specimens, 4" x 4"	3 weeks



ASTM C1378   Stain Resistance	6 specimens, 4" x 4"	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, 10" x 10" or larger	3 weeks
ANSI A326.3 Dynamic Coefficient of Friction (Dry Only)	3 specimens, 10" x 10" or larger	3 weeks
ANSI A326.3 Dynamic Coefficient of Friction (Wet + Dry)	3 specimens, 10" x 10" or larger	3 weeks
ASTM C1895   Scratch Hardness	3 specimens, 3" x 12"	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