Physical properties | Test | Industry Standards | GranitiFiandre results (as tested by Smith Emery laboratory)
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Water Absorption | ASTM C-373 | The tile shall be impervious (≤ 0.5% for Porcelain Tile) | ≤ 0.036%
Size | ASTM C-499 | • Range of Thickness (inch.) 0.040
• Average Facial Dimension 1.5%
• Warpage ± 0.75% on any edge
• Warpage ± 0.75% on diagonal
• Wedging ± 1% | 0.013
0.40%
0.24%
0.18%
0.59%

Abrasive Hardness | ASTM C-501 | ≥100 | 253

Thermal shock resistance | ASTM C-484 | No sample must show visible defects | Resistant

Frost resistance | ASTM C-1026 | No sample must show alterations to surface | Frost proof
No cracking or spalling occurred

Chemical resistance | ASTM C-650 | No requirement | Unaffected

Breaking Strength | ASTM C-648 | ≥ 250 lbf or greater | Exceeds standards
> 500 lbf

Color resistance to light | DIN 51094 | No noticeable color change | No change in brightness or color

Skid resistance
Average coefficient of friction | ASTM C-1028 | No requirement | ≥ 0.60 wet/dry

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* Item tested SERENA - matt
** Please ask for individual test reports, as numbers vary depending on size, finish and/or thickness.