

Physical-Chemical Properties	Standards	Value(averages)	Applies to
 Water Absorption	ISO 10545-3 ASTM C373	0.07% 0.08%	All Surfaces
 Determination of Dimensions	ISO 10545-2	Length max 0.1% Thickness max 3.0% Straightness of Sides max 0.0% Rectangularity max 0.3% Centre Curvature max 0.2% Edge Curvature max 0.1% Warpage max 0.2%	All Surfaces (over 10 x nom 600x300 tiles)
 Breaking Strength	ISO10545-4 ASTM C648	2515N / 573lbf 2072N / 466 lbf	All Surfaces except Stream Stream
 Modulus of Rapture	ISO 10545-4	44.2N/mm <sup>2</sup> 41.2N/mm <sup>2</sup>	All Surfaces except Stream Stream
 Abrasion Resistance	ISO 10545-6	140mm <sup>3</sup>	All Surfaces
 Linear Thermal Expansion	ISO 10545-8	6.55(10 <sup>-6</sup> /C <sup>o</sup> )	All Surfaces
 Thermal Shock Resistance	ISO 10545-9/ASTM C484	No Damage	All Surfaces
 Slip Resistance I (Oil Wet Ramp Test)	AS/NZ 4586-2004	23.7 <sup>o</sup> - R11 19.1 <sup>o</sup> - R11 27.1 <sup>o</sup> - R12	Brushed Rockface Stream
 Slip Resistance II (Wet Pendulum Test)	AS/NZ4586-2013 (4586-2004)	Wet: 47 -P4 (w) Wet: 41 -P3 (x) Wet: 47 -P4 (w)	Brushed Rockface Stream
 Slip Resistance III (Dynamic Coefficient of Friction)	DCOF (ANSI A 137.1-2012)	Wet: 0.67 Wet: 0.49 Wet: 0.65	Brushed Rockface Stream
 Chemical Resistance	ISO 10545-13/ASTM C650	Passed	All Surfaces
 Stain Resistance	ISO 10545-14/ASTM C1378	Passed	All Surfaces
 Frost Resistance	ISO 10545-12	No Damage	All Surfaces
 Moh's Hardness	BS 6431-13/EN101	Value 7	All Surfaces
 Shade Variation	ANSI A 137.1-2012	Within V2	All Surfaces