













PHYSICAL-CHEMICAL PROPERTIES	STANDARD OF TEST	REQUIRED VALUE	PORSLIM® VALUE	ASTM STANDARD OF TEST	ASTM INDUSTRY STANDARDS	ASTM RESULTS (as tested by Smith Emery laboratory)	
 Sizes	ISO 10545.2	Length and width Thickness Linearity Wedging Warpage	± 0,6% max ± 5% max ± 0,5% max ± 0,6% max ± 0,5% max	± 0,5 mm ± 3% ± 0,5 mm ± 1 mm ± 0,2%	ASTM C-499	Average facial dimension < 1,5% Wedging ±1% - Warpage ±1% of any edge Range of thickness (inch.) < 0,04%	0,15% 0,014% - 0,33% 0,17%
 Water absorption	ISO 10545.3	≤ 0,5%	> 0,06% *	ASTM C-373	Tile shall be impervious	< 0,05%	
 Flexion resistance	ISO 10545.4	Modulus ≥ 35 N/mm²	53 N/mm²				
 Deep abrasion resistance	ISO 10545.6	Volume ≤ 175 mm³	≥ 142 mm³	ASTM C-501	≥ 100	217	
 Coefficient of linear thermal-expansion	ISO 10545.8	≤ 9x10 <sup>-6</sup> °C <sup>-1</sup>	6 MK <sup>-1</sup>	ASTM C-1028		Meets or exceeds requirements (Please ask for individual test reports)	
 Frost resistance	ISO 10545.12	Must not produce noticeable alteration to surface	Frost-proof	ASTM C-1026	No sample must show alterations to surface	Resistant	
 Chemical resistance	ISO 10545.13	Must not produce noticeable signs of chemical attack	Not attacked	ASTM C-650 ASTM C-648	To 10% HCL Acid - No sample must show visible signs of chemical attack to 10% KOH Alkali  250 PSI or greater	Unaffected	
 Stain resistance	ISO 10545.14	1 < X < 5	<b>CLASSE 5 - CLASS 5 **</b> Stains removed by hot running water (without detergent)				
 Color resistance to light	DIN 51094	Must not produce noticeable colour variation	No change in brightness or colour of samples				
 Friction coefficient (slipperiness)	C1028 COF	Test method available	Dry ≥ 0.80 Wet ≥ 0.60 Pre-polished surface				
 Dynamic coefficient (slipperiness)	AcuteD DCOF	Test method available	Wet ≥ 0.60 Pre-polished surface				
 Fire resistance		96/603/CE	A1				

\* The products having an absorption < 0.5 are classified according to the UNI CEN standards “Fully vitrified tiles” and according to the ASTM standards “Impervious tiles”

\*\* It can vary according to the surface finish