














FONDOVALLE

Technical characteristics according to international standards for CERAMIC TILES, UNI EN ISO 14411: 2016

Requirements of Group BIa UGL

Series PORTLAND (Thickness 6/8,5/20 mm)

Technical characteristics	Test methods	Requirements EN 14411	Fondovalle Values		
			L < 120 cm	L ≥ 120 cm	
 Length and Width Average deviation (%) of each tile by the size of production Thickness Straightness of the edges Rectangularity Planarity Surface quality	UNI EN ISO 10545-2	± 0,6%	± 0,6%	± 0,6%	
		± 2 mm	± 0,5 mm	± 0,9 mm	
		± 5%	± 5%	± 3%	
		± 0,5 mm	± 0,5 mm	± 0,5 mm	
		± 0,5%	± 0,5%	± 0,5%	
		± 1,5 mm	± 1,5 mm	± 1,5 mm	
		± 0,5%	± 0,5%	± 0,5%	
 Water absorption	UNI EN ISO 10545-3	≤ 0,5%	≤ 0.1%	Compliant	
		 Modulus of rupture Breaking strength	R Average ≥ 35 N/mm ² R Minimum ≥ 32N/mm ² h ≥ 7,5 mm; S > 1300 N/mm ² h < 7,5 mm; S > 700 N/mm ²	h = 6 mm; R ≥ 50 N/mm ² h = 8,5 mm; R ≥ 45 N/mm ² h = 2 cm; R ≥ 40 N/mm ² h = 6 mm; S > 700 N /mm ² h = 8,5 mm; S > 1300 N /mm ² h = 2 cm; S > 9000 N /mm ²	
 Resistance to deep abrasion	UNI EN ISO 10545-6	V ≤ 175 mm ³	h = 6 mm; V ≤ 130 mm ³ h = 8,5 mm; V ≤ 145 mm ³ h = 2 cm; V ≤ 145 mm ³		
 Resistance to thermal chock	UNI EN ISO 10545-9	Resistant	Resistant		
 Frost resistance	UNI EN ISO 10545-12	Resistant	Frost proof		
 Chemical Resistance	UNI EN ISO 10545-13	Declared values; B minimum	A; LA; HA		
 Stain resistance	UNI EN ISO 10545-14	Minimum Class 3	Declared		
 Resistance of colors to light	DIN 51094	Resistant	Resistant		
 Slip resistance * 	DNI EN 16165_A	From A to C	A + B		
	DNI EN 16165_B	From R9 to R13	A + B + C		
				R 10	
				R 11	
	ANSI A 137.1:2012	> 0,42 wet	> 0,42 wet		
 Skid resistance Pendulum *	UNI EN 16165_C	PTV > 36 wet	PTV > 36 wet		
 Fire Reaction	UNI EN 13501-1	Resistant	Resistant A1 FL		

* Stated values are obtained from laboratory tests. They may vary depending on the production batch.