














# FONDOVALLE

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

Requirements of Group BIa UGL

Series BACKGROUND ( 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	R Average ≥ 35 N/mm <sup>2</sup> R Minimum ≥ 32N/mm <sup>2</sup>	h = 6 mm; R ≥ 50 N/mm <sup>2</sup> h = 8,5 mm; R ≥ 45 N/mm <sup>2</sup> h = 2 cm; R ≥ 40 N/mm <sup>2</sup>
 Breaking strength	UNI EN ISO 10545-4	h ≥ 7,5 mm; S > 1300 N/mm <sup>2</sup> h < 7,5 mm; S > 700 N/mm <sup>2</sup>	h = 6 mm; S > 700 N /mm <sup>2</sup> h = 8,5 mm; S > 1300 N /mm <sup>2</sup> h = 2 cm; S > 9000 N /mm <sup>2</sup>	
		 Resistance to deep abrasion	UNI EN ISO 10545-6	V ≤ 175 mm <sup>3</sup>
 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	<b>A; LA; HA</b>	
 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	<b>A + B</b> <b>A + B + C</b>	
	DNI EN 16165_B	From R9 to R13	<b>R 10</b> <b>R 11</b>	
	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.