





Sizes 60x60 cm 23%"x23%" 30x60 cm 11¾"x23%"

★9mm ★9mm

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			Test method	Requisites for nominal size N			Fli	ux
		Technical features		7 cm ≤ N < 15 cm	N ≥ 15 cm		Matte rectified	Grip rectified
				(mm)	(%)	(mm)		·
Regularity features		Length and width	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	±0.3% ±1.0mm	±0.3% ±1.0mm
		Thickness		± 0,9 (*)	± 5 (**)	± 0,5 (**)	±5.0% ±0.5mm	±5.0% ±0.5mm
		Straightness of sides		± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	±0.3% ±0.8mm	±0.3% ±0.8mm
		Perpendicularity		± 0,75 (****)	± 0,5 (***)	± 2,0 (***)	±0.3% ±1.5mm	±0.3% ±1.5mm
		Surface flatness		c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	±0.4% ±1.8mm	±0.4% ±1.8mm
				e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0		
				w. ± 0,75	w. ± 0,5	w. ± 2,0		
Structural features			ISO 10545-3	E _B ≤ 0,5%			≤0.1%	≤0.1%
		Water absorption	ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%			≤0.5%	≤0.5%
Bulk mechanical features	<u>↓</u>	Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)				
		Bending resistance		R ≥ 35 N/mm²			R ≥40 N/mm²	R ≥40 N/mm²
		Bending and breaking load resistance	EN 1339 Annex F	-				
		Impact resistance	ISO 10545-5	Declared value		≥0.55	≥0.55	
Surface mechanical features		Mohs hardness	EN 101	-		MOHS 6	MOHS 8	
	0	Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³			≤150mm³	≤150mm³
Thermo-igrometric features	1	Coefficient of linear thermal expansion	ISO 10545-8	Declared value		≤7MK-1	≤7MK-1	
	**	Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1		Resistant	Resistant	
	state.	Moisture expansion (in mm/m)	ISO 10545-10	Declared value		≤ 0.01% (0.1 mm/m)	≤ 0.01% (0.1 mm/m)	
	紫	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1		Resistant	Resistant	

 $[\]star$ Permitted deviation, in % or mm, from the average size of each tile (2 or 4 sides) with respect to the manufacturing size (W).

- e.c. Maximum permitted corner curvature deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).
- $w.\ Maximum\ permitted\ bending\ deviation,\ in\ \%\ or\ mm,\ with\ respect\ to\ the\ diagonal\ calculated\ according\ to\ manufacturing\ sizes\ (W).$
- (1) Determining the slip resistance of pedestrian surfaces; not applicable to sports flooring or road traffic flooring.
- (2) The anti-slip performance is guaranteed at the time of delivering the product.
- (3) However, tiles with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers' guidelines and recommendations."
- (4) For further details, please refer to the outdoor design general catalogue.
- (5) Only for products with 20 mm thickness

 $[\]begin{tabular}{ll} ** Permitted deviation, in \% or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W). \\ \end{tabular}$

^{***} Maximum permitted straightness deviation, in $\overset{\circ}{\%}$ or mm, with respect to the corresponding manufacturing sizes (W).

^{****} Maximum permitted perpendicularity deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).

^{****} Maximum permitted centre curvature deviation, in % or mm, with respect to the diagonal calculated according to manufacturing sizes (W).







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				(mm)	(%)		(mm)	Matte rectified	Grip rectified
Physical properties	 	Bond strenght	EN 1348	Declared value			≥ 1.0 N/mm² (Class C2 - EN 12004)	≥ 1.0 N/mm² (Class C2 - EN 12004)	
	*	Reaction to fire	-	Class A1 or A1 _{fl}			A1 - A1 _{fl}	A1 - A1 _{fl}	
Chemical features	Resistance to household chemicals and swimming pool salts		Minimum B class				А	А	
		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class				LA	LA
		Resistance to high concentrations of acids and alkalis		Declared class				НА	НА
		Stain resistance	ISO 10545-14	Declared class			5	5	
Safety characteristics	Booted ramp test	DIN 51130	Declared class			R10	R11		
		Barefoot Ramp test	DIN 51097	Declared value			A+B	A+B+C	
			BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"		risk"	≥36Dry ≥36Wet	≥36Dry≥36Wet	
		Pendulum friction Test	AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test				Class P3	Class P4
			UNE-ENV 12633	Declared value		Class C2	Class C3		
		Coefficient of friction	B.C.R.A. Rep. CEC/81	Min. Dec. 236/89 of $14/06/89$ $\mu > 0.40$ for a sliding leather element on a dry floor $\mu > 0.40$ for a sliding hard rubber element on a wet floor			>0.40 Dry >0.40 Wet	>0.40 Dry >0.40 Wet	
		Dynamic coefficent of friction (DCOF)	ANSI A.137.1	ANSI A.137.1-2017 Requires a minimum value of 0.42 for level interior space expected to be walked upon when wet. (3)			> 0.42 Wet	> 0.42 Wet	

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