





Sizes 30x240 cm 11¾"x94 ½" 15x90 cm 5%"x35%" 7,5x60 cm 3"x23%" ★9mm ★8.5mm

		Requisites for nominal siz			ze N	Arbor				
		Technical features	Test method	7 cm ≤ N < 15 cm (mm)	N ≥ 1 (%)	N ≥ 15 cm (%) (mm)		Matte rectified 9mm 15x90 cm	Matte rectified 9mm 30x240 cm	Grip rectified
Regularity features		Length and width		± 0,9 (*) Non-rect. ± 0,4 (*) Rect.	± 0,6 (*) Non-rect. ± 0,3 (*) Rect. ± 1,0 (*) Non-rect. ± 1,0 (*) Rect.		Suitable for	Suitable for	Suitable for	Suitable for
		Thickness	ISO 10545-2	± 0,5 (**)	± 5 (**) ± 0,5 (**)		Suitable for	Suitable for	Suitable for	Suitable for
		Straightness of sides		± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect. ± 1,5 (***) Non-rect. ± 0,8 (***) Rect.		Suitable for	Suitable for	Suitable for	Suitable for
		Perpendicularity (Measurement only on short edges when L/I ≥ 3)		± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect. ± 1,5 (***) Rect.		Suitable for	Suitable for	Suitable for	Suitable for
		Surface flatness		c.c. ± 0,8 Non-rect. c.c. ± 0,6 Rect.	c.c. ± 0,5 Non-rect. c.c. ± 0,4 Rect.	c.c. ± 2,0 Non-rect. c.c. ± 1,8 Rect.		Suitable for	Suitable for	Suitable for
				e.c. ± 0,8 Non-rect. e.c. ± 0,6 Rect.	e.c. ± 0,5 Non-rect. e.c. ± 0,4 Rect.	e.c. ± 2,0 Non-rect. e.c. ± 1,8 Rect.	Suitable for			
				w. ± 0,8 Non-rect. w. ± 0,6 Rect.	w. ± 0,5 Non-rect. w. ± 0,4 Rect.	w. ± 2,0 Non-rect. w. ± 1,8 Rect.				
Structural features		Water absorption level (in% by mass)	ISO 10545-3	E≤ 0,5°	≤0.1%	≤0.1%	≤0.1%	≤0.1%		
			ASTM C373-18	Requirement ANSI	≤0.5%	≤0.5%	≤0.5%	≤0.5%		
Bulk mechanical features	<u>↓</u>	Breaking strenght	ISO 10545-4	S≥70 S≥13	S ≥1500 N	S≥1500 N	S≥1500 N	S≥1500 N		
		Bending resistance	130 10345-4		R ≥40 N/mm²	R ≥40 N/mm²	R ≥40 N/mm²	R ≥40 N/mm²		
		Bending and breaking load resistance ⁽⁴⁾⁽⁵⁾	EN 1339 Annex F							
	<u>Z</u>	Impact resistance	ISO 10545-5		≥0.55	≥0.55	≥0.55	≥0.55		
Surface mechanical features		Mohs hardness	EN 101		MOHS 6	MOHS 6	MOHS 6	MOHS 8		
	0	Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³				≤150mm³	≤150mm³	≤150mm³

- * Permitted deviation, in % or mm, from the average size of each tile (2 or 4 sides) with respect to the manufacturing size (W).
- $^{\star\star} \text{ Permitted deviation, in \% or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W).}$
- *** Maximum permitted straightness deviation, in % 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).
- $e.c.\ Maximum\ permitted\ corner\ curvature\ deviation,\ in\ \%\ or\ mm,\ with\ respect\ to\ the\ corresponding\ manufacturing\ sizes\ (W).$
- 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







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				Requisites for nomi	Arbor						
			Test method	7 cm ≤ N < 15 cm N ≥ 15 cm			Matte not				
		Technical features		(mm)	(%)	(mm)	rectified 8.5mm 7,5x60 cm	9mm 15x90 cm	Matte rectified 9mm 30x240 cm	Grip rectified	
Thermo- igrometric features	1	Coefficient of linear thermal expansion	ISO 10545-8	Declared value			≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	
	茶	Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1			Resistant	Resistant	Resistant	Resistant	
	****	Moisture expansion (in mm/m)	ISO 10545-10	Declared value			≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	
	紫	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1			Resistant	Resistant	Resistant	Resistant	
Physical properties	F	Bond strenght	EN 1348	Declared value			≥1.0 N/mm² (Class C2 - EN 12004)				
	*	Reaction to fire	-	Class A1 or A1 _{fl}			A1 - A1 _{fl}				
Chemical features	5	Resistance to household chemicals and swimming pool salts		Minimum B class			А	А	А	А	
		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class			LA	LA	LA	LA	
		Resistance to high concentrations of acids and alkalis		Declared cla	lass		НА	НА	НА	НА	
		Stain resistance	ISO 10545-14	Declared class			5	5	5	5	
		Booted ramp test	DIN 51130	Declared cla	ass		R10	R10	R10	R11	
		Barefoot Ramp test	DIN 51097	Declared va	lue		А	A+B	А	A+B+C	
Safety characteristics (1)(2)		Pendulum friction Test	BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"		slip risk"	PTV ≥ 36 Wet on demand	≥36Dry ≥36Wet	≥36Dry ≥36Wet	≥36Dry ≥36Wet	
			AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test		P3 on demand	Class P3	P3 on demand	Class P4		
			UNE-ENV 12633 UNE 41901:2017 EX	Declared value		C2 on demand	Class C2	Class C2	Class C3		
		Coefficient of friction	B.C.R.A. Rep. CEC/81	Min. Dec. 236/89 of 14/06/89 μ >0.40 for a sliding leather element on a dry floor μ >0.40 for a sliding hard rubber element on a wet floor		>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato		
		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	> 0.42 Wet	> 0.42 Wet		

- \star Permitted deviation, in % or mm, from the average size of each tile (2 or 4 sides) with respect to the manufacturing size (W).
- $\begin{tabular}{l} ** Permitted deviation, in \% or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W). \end{tabular}$
- $^{***} \ Maximum \ permitted \ straightness \ deviation, in \% \ or \ mm, \ with \ respect \ to \ the \ corresponding \ manufacturing \ sizes \ (W).$
- **** 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).
- e.c. Maximum permitted corner curvature deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).
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