





				Requisites for nominal size N			
		Technical features	Test method	7 cm ≤ N < 15 cm N ≥ 15 cm			Etic Matte
				(mm)	(%)	(mm)	rectified
Regularity features		Length and width		± 0,9 (*) Non-rect. ± 0,4 (*) Rect.	± 0,6 (*) Non-rect. ± 0,3 (*) Rect.	± 2,0 (*) Non-rect. ± 1,0 (*) Rect.	Suitable for
		Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	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
		Perpendicularity (Measurement only on short edges when $L/l \ge 3$)	ISO 10545-2	± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect.	± 2,0 (***) Non-rect. ± 1,5 (***) Rect.	Suitable for
				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
		Surface flatness		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.	
				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	$\left(\begin{array}{c} \begin{array}{c} \\ \\ \end{array}\right)$	Water absorption level (in% by mass)	ISO 10545-3	E≤ 0,5% Individual Maximum 0,6%			≤0.1%
			ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%			
Bulk mechanical features	$\begin{array}{ c c }\hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \end{array}$	Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S ≥2000 N
		Bending resistance	130 10345-4		R ≥40 N/mm²		
		Bending and breaking load resistance (4)(5)	EN 1339 Annex F	-			
		Impact resistance	ISO 10545-5	Declared value			≥0.55
Surface mechanical features		Mohs hardness	EN 101		-		MOHS 6
		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³			≤150mm³

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







			Test method	Requisites for nominal	Etic		
		Technical features		7 cm ≤ N < 15 cm N ≥ 15 cm		≥ 15 cm	Matte rectified
				(mm)	(%)	(mm)	Matte rectified
Thermo-igrometric features	(\langle \rangle \rang	Coefficient of linear thermal expansion	ISO 10545-8	Declared value			≤7MK ⁻¹
	*	Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1			Resistant
		Moisture expansion (in mm/m)	ISO 10545-10	Declared value			≤0.01% (0.1mm/m)
	紫	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1			Resistant
Physical properties		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		Resistance to household chemicals and swimming pool salts		Minimum B class			А
		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class			LA
		Resistance to high concentrations of acids and alkalis		Declared class			НА
		Stain resistance	ISO 10545-14	Declared class			5
Safety characteristics ⁽¹⁾⁽²⁾		Booted ramp test	DIN 51130 Declared class			R9	
		Barefoot Ramp test	DIN 51097	Declared value			А
		Pendulum friction Test	BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"		PTV ≥ 36 Wet on demand	
			AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test		P3 on demand	
			UNE-ENV 12633 UNE 41901:2017 EX	Declared value		C2 on demand	
		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 $_{fl}$ oor μ >0.40 for a sliding hard rubber element on a wet $_{fl}$ oor		>0.40Asciutto >0.40Bagnato	
		Dynamic coefficent of friction (DCOF)	ANSI A.137.1	ANSI A.137.1-20: Requires a minimum value of 0.42 for leve to be walked upon when	el interior s	pace expected	> 0.42 Wet

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- *** Maximum permitted straightness deviation, in $\frac{1}{8}$ 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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