





				Requi	Requisites for nominal size N			Mek		
		Technical features	Test method	7 cm ≤ N < 15 cm	N ≥ 1	.5 cm	Matte rectified 8.5mm	Matte rectified 11mm		
				(mm)	(%)	(mm)	50x120 cm	50x120 cm		
Regularity features		Length and width		± 0,4 (*) Rect.	± 0,3 (*) Rect.	± 1,0 (*) Rect.	Suitable for	Suitable for		
		Thickness		± 0,5 (**)	± 10 (**)	± 0,5 (**)	Suitable for	Suitable for		
		Straightness of sides		± 0,4 (***) Rect.	± 0,3 (***) Rect.	± 0,8 (***) Rect.	Suitable for	Suitable for		
		Perpendicularity	ISO 10545-2	± 0,4 (***) Rect.	± 0,3 (***) Rect.	± 1,5 (***) Rect.	Suitable for	Suitable for		
		Surface flatness		c.c. ± 0,6 Rect.	c.c. ± 0,4 Rect.	c.c. ± 1,8 Rect				
				e.c. ± 0,6 Rect	e.c. ± 0,4 Rect	e.c. ± 1,8 Rect	Suitable for	Not applicable		
				w. ± 0,6 Rect.	w. ± 0,4 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	Average >10%. If this value > 20%, it must be indicated. Single value > 9%			10% <ev≤20%< td=""><td>10%<ev≤20%< td=""></ev≤20%<></td></ev≤20%<>	10% <ev≤20%< td=""></ev≤20%<>		
	$\begin{array}{c} \\ \\ \\ \\ \end{array}$	Breaking strenght		S ≥ 600N			S ≥600 N	S ≥600 N		
Bulk mechanical features		Bending resistance	ISO 10545-4				R ≥15 N/mm²	R ≥15 N/mm²		
Thermo- igrometric features	(*\bar{\pi})	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		
		Moisture expansion (in mm/m)	ISO 10545-10	Declared value			≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)		
	(\frac{1}{2}\frac{1}{2})	Crazing resistance: glazed tiles	ISO 10545-11	Test passed in accordance with ISO 10545-1			Resistant	Resistant		
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			A1	A1		
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 of glazed tiles	ISO 10545-14	Minimum Class 3		5	5			
	(0°°)	Release of dangerous substances: Cadmium (in mg/dm2) and Lead (in mg/dm2)	ISO 10545-15	Declared value			≤0.01mg/dm2 Cd ≤0.1mg/dm2 Pb	≤0.01mg/dm2 Cd ≤0.1mg/dm2 Pb		

- * 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).
- $\ ^{\star\star\star} \ \text{Maximum permitted straightness deviation, in \% or mm, with respect to the corresponding manufacturing sizes (W). } \\$
- ${\tt *****} \ {\tt Maximum\ permitted\ perpendicularity\ deviation, in\ \%\ or\ mm,\ with\ respect\ to\ the\ corresponding\ manufacturing\ sizes\ (W).}$
- **** 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







				Req	M	lek		
		Technical features	Test method	7 cm ≤ N < 15 cm	N ≥ 1	N ≥ 15 cm		Matte
		i ecnnicai reatures	rest method	(mm)	(%)	(mm)	rectified 9mm 30x60 cm	rectified 9mm
Regularity features		Length and width		± 0,9 (*) Non-rect. ± 0,4 (*) Rect.			Suitable for	Suitable for
		Thickness		± 0,5 (**)	± 0,5 (**) ± 5 (**)		Suitable for	Suitable for
		Straightness of sides		± 0,8 (***) Non-rect. ± 0,5 (***) Non-rect. ± 1 ± 0,4 (***) Rect. ± 0,3 (***) Rect. ± 2		± 1,5 (***) Non-rect. ± 0,8 (***) Rect.	Suitable for	Suitable for
		Perpendicularity (Measurement only on short edges when L/I ≥ 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	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
				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.		
	$\left(\begin{array}{c} \begin{array}{c} \\ \\ \end{array}\right)$		ISO 10545-3	E≤ 0,5°	≤0.1%	≤0.1%		
Structural features		Water absorption level (in% by mass)	ASTM C373-18	Requirement ANSI	≤0.5%	≤0.5%		
Bulk mechanical features	\downarrow	Breaking strenght	ISO 10545-4	S≥70 S≥13		S≥1500 N		
		Bending resistance	130 10343-4		R ≥40 N/mm²	R ≥40 N/mm²		
		Bending and breaking load resistance ⁽⁴⁾⁽⁵⁾	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 6	
		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³			≤150mm³	≤150mm³

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- *** Maximum permitted straightness deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).
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		Technical features	Test method	7 cm ≤ N < 15 cm N ≥ 15 cr		m	Matte rectified	Matte rectified		
				(mm)	(%)	(mm)	9mm 30x60 cm	9mm	
Thermo- igrometric features	(\(\frac{\partial}{p}\))	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		
	$\left(\begin{array}{c} \bullet_{\underline{\Diamond}\Diamond} \bullet_{\underline{\Diamond}} \bullet \\ \end{array}\right)$	Moisture expansion (in mm/m)	ISO 10545-10	Declared value			≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)		
	*	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1		Resistant	Resistant			
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 (1)(2)		Booted ramp test	DIN 51130	Declared class				R10	R10	
		Barefoot Ramp test	DIN 51097	Declared valu	ie			А	А	
		Pendulum friction Test	BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"		PTV ≥ 36 Wet on demand	PTV≥36 Wet on demand			
			AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test		P3 on demand	P3 on demand			
			UNE-ENV 12633 UNE 41901:2017 EX	Declared value		C2 on demand	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	>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			

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