



Sizes	30x120 cm 1 1/4"x47 1/4" ± 20mm	25x150 cm 9 7/8"x59" ± 9mm	22,5x90 cm 8 7/8"x35 3/8" ± 9mm
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	Technical features	Test method	Requisites for nominal size N			Etic Pro		
			7 cm ≤ N < 15 cm (mm)	N ≥ 15 cm (%)		Matte rectified	Outdoor rectified	
Regularity features		ISO 10545-2	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	Suitable for
			Thickness	± 0,5 (**)			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
			Perpendicularity (Measurement only on short edges when L/l ≥ 3)	± 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
Regularity features		ISO 10545-2	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
				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	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.	Suitable for	Suitable for
Structural features		Water absorption level (in% by mass)	ISO 10545-3	E ≤ 0,5% Individual Maximum 0,6%			≤ 0,1%	≤ 0,1%
			ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%			≤ 0,5%	≤ 0,5%
Bulk mechanical features		Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S ≥ 1500 N	S ≥ 10000 N
		Bending resistance		R ≥ 35 N/mm <sup>2</sup>			R ≥ 40 N/mm <sup>2</sup>	R ≥ 45 N/mm <sup>2</sup>
		Bending and breaking load resistance (4)(5)	EN 1339 Annex F	-				≥ T11 60x60   ≥ U3 30x120
		Impact resistance	ISO 10545-5	Declared value			≥ 0,55	≥ 0,55
Surface mechanical features		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm <sup>3</sup>			≤ 150mm <sup>3</sup>	≤ 150mm <sup>3</sup>

\* 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).  
 \*\*\*\* 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



Sizes	30x120 cm 11 <sup>3</sup> / <sub>4</sub> "x47 <sup>1</sup> / <sub>4</sub> " ± 20mm	25x150 cm 9 <sup>7</sup> / <sub>8</sub> "x59" ± 9mm	22,5x90 cm 8 <sup>7</sup> / <sub>8</sub> "x35 <sup>3</sup> / <sub>8</sub> " ± 9mm
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	Technical features	Test method	Requisites for nominal size N			Etic Pro		
			7 cm ≤ N < 15 cm		N ≥ 15 cm		Matte rectified	Outdoor rectified
			(mm)	(%)	(mm)			
Thermo-igrometric features	Coefficient of linear thermal expansion	ISO 10545-8	Declared value			≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	
	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			≤0.01% (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/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	
	Reaction to fire	-	Class A1 or A1 <sub>fl</sub>			A1 - A1 <sub>fl</sub>	A1 - A1 <sub>fl</sub>	
Chemical features	Resistance to household chemicals and swimming pool salts Resistance to low concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis	ISO 10545-13	Minimum B class			A	A	
			Declared class			LA	LA	
			Declared class			HA	HA	
	Stain resistance	ISO 10545-14	Declared class			5	5	
Safety characteristics (1)(2)		Booted ramp test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared class			R9	R11
		Barefoot Ramp test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared value			A	A+B+C
		Pendulum friction Test	BS EN 16165 ANNEX C (EX BS 7976)	PTV ≥ 36 classifies the surface as "low slip risk"			PTV ≥ 36 Wet on demand	≥36Dry ≥36Wet
			AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test			P3 on demand	Class P4
			UNE 41901 EX:2017	Declared value			C2 on demand	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
Dynamic coefficient of friction (DCOF)	ANSI A 326.3	-			Wet DCOF ≥ 0.42	Wet DCOF ≥ 0.55		

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