



Sizes	120x278 cm 47 1/4"x109 1/2" ± 6mm	120x120 cm 47 1/4"x47 1/4" ± 9mm	120x120 cm 47 1/4"x47 1/4" ± 20mm	75x150 cm 29 1/2"x59" ± 9mm	75x75 cm 29 1/2"x29 1/2" ± 9mm	60x60 cm 23 3/4"x23 3/4" ± 20mm	37,5x75 cm 14 3/4"x29 1/2" ± 9mm
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	Technical features	Test method	Requisites for nominal size N			Blaze				
			7 cm ≤ N < 15 cm	N ≥ 15 cm		Polished rectified	Matte rectified 9mm	Matte rectified 6mm 120x278 cm	Grip rectified	Textured rectified
			(mm)	(%)	(mm)					
Regularity features	 Length and width Thickness Straightness of sides Perpendicularity (Measurement only on short edges when L/l ≥ 3)	ISO 10545-2	± 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	Suitable for	Suitable for	Suitable for
			± 0,5 (**)	± 5 (**)	± 0,5 (**)	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for
			± 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	Suitable for
	± 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	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	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.					
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% Individual Maximum 0,6%			≤ 0.1%	≤ 0.1%	≤ 0.1%	≤ 0.1%	≤ 0.1%
		ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%			≤ 0.5%	≤ 0.5%	≤ 0.5%	≤ 0.5%	≤ 0.5%
Bulk mechanical features	 Breaking strenght Bending resistance	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S ≥ 1500 N	S ≥ 1500 N	S ≥ 1000 N	S ≥ 1500 N	S ≥ 10000 N
			R ≥ 35 N/mm²			R ≥ 40 N/mm²	R ≥ 40 N/mm²	R ≥ 40 N/mm²	R ≥ 40 N/mm²	R ≥ 45 N/mm²
	 Bending and breaking load resistance (4)(5)	EN 1339 Annex F	-							≥ T11 120x120 60x60
	 Impact resistance	ISO 10545-5	Declared value			≥ 0.55	≥ 0.55	≥ 0.55	≥ 0.55	≥ 0.55
Surface mechanical features	 Mohs hardness Deep abrasion resistance of unglazed tiles	EN 101	-			MOHS 5	MOHS 6	MOHS 6	MOHS 8	MOHS 8
		ISO 10545-6	≤ 175 mm³			≤ 150mm³	≤ 150mm³	≤ 150mm³	≤ 150mm³	≤ 150mm³

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 e.c. Maximum permitted corner curvature deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).
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 (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	120x278 cm 47 4/4"x109 1/2" ±6mm	120x120 cm 47 4/4"x47 4/4" ±9mm	120x120 cm 47 4/4"x47 4/4" ±20mm	75x150 cm 29 1/2"x59" ±9mm	75x75 cm 29 1/2"x29 1/2" ±9mm	60x60 cm 23 3/4"x23 3/4" ±20mm	37,5x75 cm 14 3/4"x29 1/2" ±9mm
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	Technical features	Test method	Requisites for nominal size N			Blaze				
			7 cm ≤ N < 15 cm		N ≥ 15 cm	Polished rectified	Matte rectified 9mm	Matte rectified 6mm 120x278 cm	Grip rectified	Textured rectified
			(mm)		(%)					
Thermo-igrometric features	Coefficient of linear thermal expansion	ISO 10545-8	Declared value			≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹
	Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1			Resistant	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)	≤0.01% (0.1mm/m)
	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1			Resistant	Resistant	Resistant	Resistant	Resistant
Physical properties	Bond strenght	EN 1348	Declared value			≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)
	Reaction to fire	-	Class A1 or A1 _{fl}			A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}
Chemical features	Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum B class			A	A	A	A	A
	Resistance to low concentrations of acids and alkalis		Declared class			LA	LA	LA	LA	LA
	Resistance to high concentrations of acids and alkalis		Declared class				HA	HA	HA	HA
	Stain resistance	ISO 10545-14	Declared class			5	5	5	5	5
Safety characteristics (1)(2)	Booted ramp test	DIN 51130	Declared class			R9 on demand	R10	R9	R11	R11
	Barefoot Ramp test	DIN 51097	Declared value				A+B	A	A+B+C	A+B+C
	Pendulum friction Test	BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"			≥ 36 Dry ≤ 24 Wet	≥36Dry ≥36Wet	PTV ≥ 36 Wet on demand	≥36Dry ≥36Wet	≥36Dry ≥36Wet
		AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test				Class P3	P3 on demand	Class P4	Class P4
		UNE-ENV 12633 UNE 41901:2017 EX	Declared value				Class C2	C2 on demand	Class C3	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	>0.40Asciutto >0.40Bagnato
Dynamic coefficient 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	

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Sizes	50x120 cm 19 1/4"x47 1/4" 8.5mm
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		Technical features	Test method	Requisites for nominal size N			Blaze
				7 cm ≤ N < 15 cm (mm)	N ≥ 15 cm		Matte rectified
					(%)	(mm)	
Regularity features		Length and width	ISO 10545-2	± 0,4 (*) Rect.	± 0,3 (*) Rect.	± 1,0 (*) Rect.	Suitable for
		Thickness		± 0,5 (**)	± 10 (**)	± 0,5 (**)	Suitable for
		Straightness of sides		± 0,4 (***) Rect.	± 0,3 (***) Rect.	± 0,8 (***) Rect.	Suitable for
		Perpendicularity		± 0,4 (***) Rect.	± 0,3 (***) Rect.	± 1,5 (***) Rect.	Suitable for
		Surface flatness		c.c. ± 0,6 Rect.	c.c. ± 0,4 Rect.	c.c. ± 1,8 Rect.	Suitable for
		e.c. ± 0,6 Rect.	e.c. ± 0,4 Rect.	e.c. ± 1,8 Rect.			
		w. ± 0,6 Rect.	w. ± 0,4 Rect.	w. ± 1,8 Rect.			
Structural features		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%
Bulk mechanical features		Breaking strenght	ISO 10545-4	S ≥ 600N			S ≥600 N
		Bending resistance		R ≥ 12 N/mm²			R ≥15 N/mm²
Thermo-igrometric features		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			≤0.06% (0.6mm/m)
		Crazing resistance: glazed tiles	ISO 10545-11	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			A1
Chemical features		Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum B class			A
		Resistance to low concentrations of acids and alkalis		Declared class			LA
		Resistance to high concentrations of acids and alkalis		Declared class			HA
		Stain resistance of glazed tiles	ISO 10545-14	Minimum Class 3			5
		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

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