IMPACT





Sizes	60x120 cm 23%"x47 /₄" █ 9mm	60x60 cm 23%"x23%" В 8mm	45x90 cm 17¾"x35¾" ☑ 20mm	30x60 cm 11¾"x23¾" ■ 8mm

				Requisites for nominal size N			Impact			
		Technical features	Test method	7 cm ≤ N < 15 cm	15 cm N≥ 15 cm		Matte	Matte rectified		
				(mm)	(%)	(mm)	rectified 8mm	9mm 60x120 cm	Grip rectified	Outdoor rectified
		Length and width	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
	(Park)	Thickness		± 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
Regularity features		Perpendicularity (Measurement only on short edges when L/I ≥ 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	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		Not applicable to "strong" structures
				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	(0)	Water absorption level (in% by	ISO 10545-3	E≤ 0,5% Individual Maximum 0,6%			≤0.1%	≤0.1%	≤0.1%	≤0.1%
features		mass)	ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%			≤0.5%	≤0.5%	≤0.5%	≤0.5%
		Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S≥1500 N	S≥1500 N	S≥1500 N	S≥10000 N
Bulk	$\left(\begin{array}{c} \downarrow \\ \uparrow \uparrow \end{array}\right)$	Bending resistance	150 10545-4	R ≥ 35 N/mm²			R ≥40 N/mm²	R ≥40 N/mm²	R ≥40 N/mm²	R ≥45 N/mm²
mechanical features		Bending and breaking load resistance (4)(5)	EN 1339 Annex F	-						≥U4 45x90
		Impact resistance	ISO 10545-5	Declared value			≥0.55	≥0.55	≥0.55	≥0.55
Surface mechanical features		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³			≤150mm³	≤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).

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

^{****} 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







Sizes 60x120 cm 23%"x47 /4" 60x60 cm 23%"x23%" 45x90 cm 17%"x35%" 30x60 cm 11%"x23%" 8mm 20mm 30x60 cm 11%"x23%"

				Requisites for nomi		Impact				
		Technical features	Test method	7 cm ≤ N < 15 cm	1 14	Matte rectified				
		recillical reacares	Test Hieurou	(mm)	(%) (mm	Matte rectified	9mm 60x120 cm	Grip rectified	Outdoor rectified	
	(°[")	Coefficient of linear thermal expansion	ISO 10545-8	Declared value		≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	
Thermo-	(X)	Thermal shock resistance	ISO 10545-9	Test passed in accordance	5-1 Resistant	Resistant	Resistant	Resistant		
features		Moisture expansion (in mm/m)	ISO 10545-10	Declared va	≤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		5-1 Resistant	Resistant	Resistant	Resistant	
Physical		Bond strenght	EN 1348	Declared va	≥1.0 N/mm² (Class C2 - EN 12004)					
properties		Reaction to fire	-	Class A1 or A1 _{fl}		A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}	
		Resistance to household chemicals and swimming pool salts		Minimum B class		А	А	А	А	
Chemical		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared cla	LA	LA	LA	LA		
features		Resistance to high concentrations of acids and alkalis		Declared class		НА	НА	НА	НА	
		Stain resistance	ISO 10545-14	Declared cla	Declared class			5	5	
		Booted ramp test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared cla	ass	R10	R10	R11	R11	
		Barefoot Ramp test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared value		A+B	A+B	A+B+C	A+B+C	
			BS EN 16165 ANNEX C (EX BS 7976)	PTV ≥ 36 classifies the surface as "low slip risk"		isk" ≥36Dry ≥36Wet	≥36Dry ≥36Wet ≥36Wet		≥36Dry ≥36Wet	
Safety characteristics (1)(2)		Pendulum friction Test	AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test			Class P3	Class P4	Class P4	
			UNE 41901 EX:2017	Declared va	alue	Class C2	Class C2	Class C3	Class C3	
		Coefficient of friction	B.C.R.A. Rep. CEC/81	Min. Dec. 236/89 or μ >0.40 for a sliding leathe floor μ >0.40 for a sliding hard ruwet floor	er element on a c ubber element o	>0.40Asciutto			>0.40Asciutto >0.40Bagnato	
		Dynamic coefficent of friction (DCOF)	ANSI A 326.3	-		Wet DCOF≥ 0.50	Wet DCOF ≥ 0.50	Wet DCOF ≥ 0.55	Wet DCOF ≥ 0.55	

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