





				Requisites for nominal size N				Kone		
		Technical features	Test method			15 cm	Matte	Grip	Textured	
				(mm)	(%)	(mm)	rectified	rectified	rectified	
Regularity features		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	
		Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	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	
		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	
		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	
				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%		
			ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%		≤0.5%	≤0.5%	≤0.5%		
Bulk mechanical features	<u>↓</u>	Breaking strenght	ISO 10545-4	$S \ge 700N$ (for thickness $< 7,5mm$) $S \ge 1300N$ (for thickness $\ge 7,5mm$)			S≥1500 N	S≥1500 N	S≥10000 N	
		Bending resistance	150 10545-4	R ≥ 35 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 60x60 ≥U4 45x90	
		Impact resistance	ISO 10545-5	Declared value		≥0.55	≥0.55	≥0.55		
Surface mechanical features		Mohs hardness	EN 101	-		MOHS 6	MOHS 7	MOHS 8		
	0	Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³		≤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).
- ** Permitted deviation, in % or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W).
- $^{\star\star\star} \ \text{Maximum permitted straightness deviation, in \% or mm, with respect to the corresponding manufacturing sizes (W).}$
- **** 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







			Requisites for nominal size N			Kone			
		Technical features	Test method	7 cm ≤ N < 15 cm N ≥ 15 cm		Kone			
		recrifical features				Matte rectified	Grip rectified	Textured rectified	
Thermo- igrometric features		Coefficient of linear thermal expansion	ISO 10545-8	(mm) (%) (mm) Declared value		≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	
	茶	Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1		Resistant	Resistant	Resistant	
	4004	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)	
	紫	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1		Resistant	Resistant	Resistant	
Physical properties	}	Bond strenght	Bond strenght EN 1348 Declared value		ue	≥1.0 N/mm² (Class C2 - EN 12004)	≥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}	A1 - A1 _{fl}	
Chemical features	\$	Resistance to household chemicals and swimming pool salts		Minimum B class		А	А	А	
		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class		LA	LA	LA	
		Resistance to high concentrations of acids and alkalis		Declared class		НА	НА	НА	
		Stain resistance	ISO 10545-14	Declared cla	ss	5	5	5	
Safety characteristics (1)(2)		Booted ramp test	DIN 51130	Declared class		R10	R11	R11	
		Barefoot Ramp test	DIN 51097	Declared va	ue	А	A+B	A+B+C	
		Pendulum friction Test	BS 7976	PTV≥36 classifies the surface as "low slip risk"		≥36Dry ≥36Wet	≥36Dry ≥36Wet	≥36Dry ≥36Wet	
			AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test		Class P3	Class P4	Class P4	
			UNE-ENV 12633 UNE 41901:2017 EX	Declared value		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 $_{fl}oor$		>0.40Asciutto >0.40Bagnato	>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	> 0.42 Wet	

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