



Sizes	60x60 cm 23 $\frac{3}{4}$ "x23 $\frac{3}{4}$ " ± 9mm	59x119 cm 23 $\frac{4}{4}$ "x46 $\frac{1}{4}$ " ± 9mm	59x59 cm 23 $\frac{4}{4}$ "x23 $\frac{4}{4}$ " ± 9mm	45x45 cm 17 $\frac{3}{4}$ "x17 $\frac{3}{4}$ " ± 9mm
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	Technical features	Test method	Requisites for nominal size N			Supernova Onyx			
			7 cm ≤ N < 15 cm	N ≥ 15 cm		Polished not rectified	Matte not rectified 9mm 45x45 cm	Matte not rectified 9mm 60x60 cm	
			(mm)	(%)	(mm)				
Regularity features		Length and width	± 0,9 (*) Non-rect. ± 0,4 (*) Rect.	± 0,6 (*) Non-rect. ± 0,3 (*) Rect.	± 2,0 (*) Non-rect. ± 1,0 (*) Rect.	Conforme	Conforme	Conforme	
		Thickness	± 0,5 (**)	± 5 (**)	± 0,5 (**)	Conforme	Conforme	Conforme	
		Straightness of sides	± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect.	± 1,5 (***) Non-rect. ± 0,8 (***) Rect.	Conforme	Conforme	Conforme	
		Perpendicularity (Measurement only on short edges when L/l ≥ 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.	Conforme	Conforme	Conforme
				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.	Conforme	Conforme	Conforme
				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%					
			ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%					
Bulk mechanical features		Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S ≥ 2000 N	S ≥ 1500 N	S ≥ 2000 N
		Bending resistance		R ≥ 35 N/mm ²			R ≥ 45 N/mm ²	R ≥ 45 N/mm ²	R ≥ 45 N/mm ²
		Bending and breaking load resistance ⁽⁴⁾⁽⁵⁾		EN 1339 Annex F	-				
		Impact resistance	ISO 10545-5	Declared value			≥ 0.55	≥ 0.55	≥ 0.55
Surface mechanical features		Mohs hardness	EN 101	-					
		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm ³			≤ 150mm ³	≤ 150mm ³	≤ 150mm ³

- * 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

SUPERNOVA ONYX



THROUGH-BODY PORCELAIN TILE
TECHNICAL FEATURES - COMPLIANT WITH STANDARDS EN 14411 (ISO 13006)
ANNEX G GROUP B1a



Sizes	60x60 cm 23 $\frac{3}{4}$ "x23 $\frac{3}{4}$ " ±9mm	59x119 cm 23 $\frac{1}{4}$ "x46 $\frac{1}{4}$ " ±9mm	59x59 cm 23 $\frac{1}{4}$ "x23 $\frac{1}{4}$ " ±9mm	45x45 cm 17 $\frac{3}{4}$ "x17 $\frac{3}{4}$ " ±9mm
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			7 cm ≤ N < 15 cm		N ≥ 15 cm		Polished not rectified	Matte not rectified 9mm 45x45 cm	Matte not rectified 9mm 60x60 cm
			(mm)	(%)	(mm)				
Thermo-igrometric features	Coefficient of linear thermal expansion	ISO 10545-8	Declared value			≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	
	Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1			Resistant	Resistant	Resistant	
	Moisture expansion (in mm/m)	ISO 10545-10	Declared value			≤ 0.01% (0.1 mm/m)	≤ 0.01% (0.1 mm/m)	≤ 0.01% (0.1 mm/m)	
	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1			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)	
	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 Resistance to low concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis	ISO 10545-13	Minimum B class		UA	UA	UA		
			Declared class		ULA	ULA	ULA		
			Declared class			UHA	UHA		
	Stain resistance	ISO 10545-14	Declared class		5	5	5		
Safety characteristics (1)(2)	Booted ramp test Barefoot Ramp test Pendulum friction Test Coefficient of friction Dynamic coefficient of friction (DCOF)	DIN 51130	Declared class		N.C.	R09	R09		
		DIN 51097	Declared value			A	A		
		BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"						
		AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test						
		UNE-ENV 12633 UNE 41901:2017 EX	Declared value						
		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						
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)								

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