



Sizes	60x120 cm 23% [±] "x47 1/4" ± 9mm	60x60 cm 23% [±] "x23%" ± 9mm	60x60 cm 23% [±] "x23%" ± 20mm	45x45 cm 17 3/4"x17 3/4" ± 9mm	30x60 cm 11 3/4"x23% [±] " ± 9mm
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	Technical features	Test method	Requisites for nominal size N			Supernova Stone	
			7 cm ≤ N < 15 cm	N ≥ 15 cm		Matte not rectified	Textured rectified
			(mm)	(%)	(mm)		
Regularity features	 Length and width Thickness Straightness of sides	ISO 10545-2	± 0,9 (*) Non-rect. ± 0,4 (*) Rect.	± 0,6 (*) Non-rect. ± 0,3 (*) Rect.	± 2,0 (*) Non-rect. ± 1,0 (*) Rect.	Conforme	Conforme
			± 0,5 (**)	± 5 (**)	± 0,5 (**)	Conforme	Conforme
			± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect.	± 1,5 (***) Non-rect. ± 0,8 (***) Rect.	Conforme	Conforme
	 Perpendicularity (Measurement only on short edges when L/l ≥ 3) Surface flatness		± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect.	± 2,0 (***) Non-rect. ± 1,5 (***) Rect.	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
			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%
		ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 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 ≥ 2000 N	S ≥ 10000 N
			R ≥ 35 N/mm ²			R ≥ 45 N/mm ²	R ≥ 45 N/mm ²
	 Bending and breaking load resistance ⁽⁴⁾⁽⁵⁾ Impact resistance	EN 1339 Annex F	-				
Surface mechanical features	 Mohs hardness Deep abrasion resistance of unglazed tiles	EN 101	-			MOHS 5	MOHS 8
		ISO 10545-6	≤ 175 mm 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 STONE



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

atlas concorde
RUSSIA

Sizes	60x120 cm 23% [*] x47 ¼" ±9mm	60x60 cm 23% [*] x23% ^{**} ±9mm	60x60 cm 23% [*] x23% ^{**} ±20mm	45x45 cm 17¾"x17¾" ±9mm	30x60 cm 11¾"x23% ^{**} ±9mm
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	Technical features	Test method	Requisites for nominal size N			Supernova Stone		
			7 cm ≤ N < 15 cm		N ≥ 15 cm		Matte not rectified	Textured rectified
			(mm)	(%)	(mm)			
Thermo-igrometric features	Coefficient of linear thermal expansion	ISO 10545-8	Declared value			≤7MK ⁻¹	≤7MK ⁻¹	
	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 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}	
Chemical features	Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum B class			UA	UA	
	Resistance to low concentrations of acids and alkalis		Declared class			ULA	ULA	
	Resistance to high concentrations of acids and alkalis		Declared class				UHA	
	Stain resistance	ISO 10545-14	Declared class			5	5	
Safety characteristics (1)(2)	Booted ramp test	DIN 51130	Declared class			n.c.	R11	
	Barefoot Ramp test	DIN 51097	Declared value				A+B+C	
	Pendulum friction Test	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					
	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	
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		

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