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## FORZA - BLUESTONE technical sheet

ISO 13006/EN 14411/ISO 10545 Standards

Brand: FORZA GRES

Product: Bluestone Light, Bluestone Dark

Size (cm)/Thickness (mm): 60x60/18

Side: Rectified

Product group: Porcelain Tile, Bla-UGL Group

Technical characteristics	Test method	EN 14411-G and ISO 13006-G: values required for Bla-UGL Tiles	Forza - Bluestone 60x60 RECT/18 mm average values
Water absorption	ISO 10545-3	≤ 0,5 %	0,1 %
Modulus of rupture	ISO 10545-4	≥ 35 N/mm <sup>2</sup>	45 N/mm <sup>2</sup>
Breaking strength (S)	ISO 10545-4	≥ 1300 N	8.000 N
Deep abrasion resistance	ISO 10545-6	≤ 175 mm <sup>3</sup>	150 mm <sup>3</sup>
Linear thermal expansion	ISO 10545-8	Not required	$\alpha \leq 7 \cdot 10^{-6} \text{ } ^\circ\text{C}^{-1}$
Thermal shock resistance	ISO 10545-9	No alterations	Resistant
Chemical resistance	ISO 10545-13	According to manufacturer's statement	LA, HA (Resistant)
Household chemicals resistance	ISO 10545-13	B min.	A (Resistant)
Stain resistance	ISO 10545-14	Class 3 min.	5 (Resistant)
Frost resistance	ISO 10545-12	No alterations	Resistant
Dimensions	Length and width	± 0,6 % and ± 2 mm	Compliant
	Straightness of sides	± 0,5 % and ± 1,5 mm	Compliant
	Rectangularity	± 0,6 % and ± 2 mm	Compliant
	Flatness	± 0,5 % and ± 2 mm	Compliant
Thickness	ISO 10545-2	± 5 % and ± 0,5 mm	Compliant
Slip Resistance	DIN 51130	Not required	R 10
Shade variation	ANSI A137.1	Not required	V2
Fire reaction – floor application	EN 9239-1	Not required	A1fl class (no reaction to fire)
Thermal Conductivity	EN 12524	Not required	$\lambda = 1,3 \text{ W/m} \cdot \text{ } ^\circ\text{K}$

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