

CLIFFSTONE collection

Technical features

Product type: full body porcelain stoneware (UGL)

According to: ISO 13006-G (Group BlA), EN 14411-G (Group BlA)

Technical features		Test method	Required values ISO 13006-G, EN 14411-G	Average values CLIFFSTONE
Water absorption		ISO 10545-3	$\leq 0,5 \%$	0,05 %
Breaking strength (S)		ISO 10545-4	$\geq 1300 \text{ N}$	Thick. 10mm: 2500 N Thick. 11mm: 3000 N Thick. 20mm: 13600 N
Modulus of rupture		ISO 10545-4	$\geq 35 \text{ N/mm}^2$	50 N/mm ²
Deep abrasion resistance		ISO 10545-6	$\leq 175 \text{ mm}^3$	145mm ³
Linear thermal expansion		ISO 10545-8	No provision	$\alpha \leq 7 \cdot 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
Stain resistance		ISO 10545-14	Class 3 Min.	5 RESISTANT
Chemical resistance (*)		ISO 10545-13	As indicated by manufacturer	LA, HA RESISTANT
Frost resistance		ISO 10545-12	No alteration	RESISTANT
Dimensions	Length and width	ISO 10545-2	$\pm 0,6 \%$ $\pm 2 \text{ mm}$	COMPLIANT
	Straightness of sides	ISO 10545-2	$\pm 0,5 \%$ $\pm 1,5 \text{ mm}$	COMPLIANT
	Rectangularity	ISO 10545-2	$\pm 0,6 \%$ $\pm 2 \text{ mm}$	COMPLIANT
	Warpage	ISO 10545-2	$\pm 0,5 \%$ $\pm 2 \text{ mm}$	COMPLIANT
	Thickness	ISO 10545-2	$\pm 5 \%$ $\pm 0,5 \text{ mm}$	COMPLIANT
Slip resistance		DIN 51130	-	R10 (Nat - Ant) R11 (Grip - 20mm)
		DIN 51097	-	A+B (Nat - Ant) A+B+C (Grip - 20mm)
		BCR-TORTUS	-	$\mu > 0,40$ (Nat - Ant - Grip - 20mm)
		ANSI A 137.1	-	DCOF ≥ 0.42 (Nat - Ant - Grip - 20mm)
		AS 4586:2013	-	P3 (Nat - Ant) P4 (Grip - 20mm)
		BS 7976:2002	-	PTV 36+Wet (Sl. 96) (Nat - Ant)
Shade variation		ANSI A 137.1	As indicated by manufacturer	V2
Fire reaction		EN 13823	CPR (UE) 305/2011,	Class A1 (wall)
		EN 9239-1	2000/147/CE, UNI EN 13501-1	Class A1 _s (floor)
Thermal conductivity		EN 12524	-	$\lambda = 1,3 \text{ W/m } ^{\circ}\text{K}$
Recommended minimum joint (**)		Indoor	-	2mm

(*) Excluding hydrofluoric acid and its derivatives.



EMAS

ISO 14001

LEED

LEED

LEED

ISO 9001

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