



Sizes форматы	40x80 cm 15 3/4" x 31 1/2" ± 8.5mm	40x80 cm 15 3/4" x 31 1/2" ± 10mm	
------------------	------------------------------------------	-----------------------------------------	--

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE				Requirements for nominal size N Requisiti per dimensione nominale N			BRAVE WALL		
				7 cm ≤ N < 15 cm		N ≥ 15 cm		Matt	3D Matt
				(mm)	(%)	(mm)	(mm)		
Regularity characteristics		Length and width Размеры сторон	ISO 10545-2	± 0,75 (*)	± 0,5 (*)	± 2,0 (*)	±0.3% ±1.0mm	±0.3% ±1.0mm	
		Thickness Толщина		± 0,5 (**)	± 10 (**)	± 0,5 (**)	±10.0% ±0.5mm	±10.0% ±0.5mm	
		Straightness of sides Straightness of sides		± 0,5 (***)	± 0,3 (***)	± 1,5 (***)	±0.3% ±0.8mm	±0.3% ±0.8mm	
		Rectangularity Ортогональность		± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	±0.3% ±1.5mm	±0.3% ±1.5mm	
		Surface flatness Плоскостность		c.c. + 0,75 - 0,50	c.c. + 0,5 - 0,3	c.c. + 2,0 - 1,5	±0.3% ±1.5mm	±0.3% ±1.5mm	
			e.c. + 0,75 - 0,50	e.c. + 0,5 - 0,3	e.c. + 2,0 - 1,5				
			w. ± 0,75	w. ± 0,5	w. ± 2,0				
				EN 14411 annex L (Group BIII) EN 14411 appendice L (Gruppo BIII)	ISO 13006 annex L (Group BIII) ISO 13006 appendice L (Gruppo BIII)				
Structural features		Water absorption level (in% by mass) Водопоглощение (come % della massa)	ISO 10545-3	Average >10%. When the average > 20%, this shall be indicated. Individual value > 9% Media >10%. Se questo valore > 20%, deve essere indicato. Valore Singolo > 9%		10%<EB≤20%	10%<EB≤20%		
Bulk mechanical features		Breaking strength Разрушающее усилие	ISO 10545-4	S ≥ 600 N		S ≥ 600 N	S ≥ 600 N		
		Modulus of Rupture Предел прочности при изгибе		R ≥ 15 N/mm ²		R ≥ 15 N/mm ²	R ≥ 15 N/mm ²		
Thermo-igrometric features		Coefficient of linear thermal expansion Температурный коэффициент линейного расширения	ISO 10545-8	Declared value Dichiarare un valore	Test method available Metodo di prova disponibile	≤7 1/mk	≤7 1/mk		
		Thermal shock resistance Термическая стойкость	ISO 10545-9	Pass according to EN ISO 10545-1 Test superato in accordo con ISO 10545-1	Test method available Metodo di prova disponibile	Resiste	Resiste		
		Moisture expansion (in mm/m) Dilatazione all'umidità (in mm/m)	ISO 10545-10	Declared value Dichiarare un valore	Test method available Metodo di prova disponibile	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)		
		Frost resistance Морозостойкость	ISO 10545-12	Pass according to EN ISO 10545-1 Test superato in accordo con ISO 10545-1	Required Metodo di prova richiesto	0	0		
Physical properties		Bond strength/adhesion for improved cementitious adhesives Прочность сцепления	EN 1348	Declared value Dichiarare un valore	-	≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)		
		Reaction to fire Огнестойкость	-	Class A1 or A1 _{fl} Classe A1 oppure A1 _{fl}	-	A1	A1		
Chemical features		Resistance to household chemicals and swimming pool salts Стойкость к химикатам, используемым в быту и для бассейнов	ISO 10545-13	Minimum Class B (GB for unglazed tiles) Classe minima B (GB per piastrelle non smaltate)		GA	GA		
		Resistance to low concentrations of acids and alkalis Спротивление кислотам и щелочам низкой концентрации		Declare a class Dichiarare una classe	Test method available Metodo di prova disponibile	GLA	GLA		
		Resistance to high concentrations of acids and alkalis Спротивление кислотам и щелочам высокой концентрации		Declare a class Dichiarare una classe	Test method available Metodo di prova disponibile	GHA	GHA		
		Resistance to staining for glazed tiles Resistenza alle macchie piastrelle smaltate	ISO 10545-14	Minimum Class 3 Classe 3 minima		5	5		

(*) The permissible deviation, in % or mm, of the average size for each tile (2 or 4 sides) from work size (W).

(**) The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (W).

(***) The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (W).

(****) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (W).

c.c. The maximum permissible deviation from centre curvature, in % or mm, related to diagonal calculated from the work sizes (W).

e.c. The maximum permissible deviation from edge curvature, in % or mm, related to the corresponding work sizes (W).

w. The maximum permissible deviation from warpage, in % or mm, related to diagonal calculated from the work sizes (W).

(1) Requirements european standard EN 176.

(2) Determination of slip resistance of pedestrian surfaces; it does not cover sports surfaces and road surfaces for vehicles (skid resistance).

Anti-slip performance is guaranteed at the time of delivery of the product

