

Technical specification



162x324 cm - 63³/₄"x127¹/₂"
NOT RECTIFIED SLAB



159x324 cm - 62³/₄"x127¹/₂"
NOT RECTIFIED SLAB



160x320 cm - 63"x126"
RECTIFIED MONOCALIBER

Complies with EN 14411 (ISO 13006) Appendix G Group Bla

- (*) The permissible deviation, in % or mm, of the average size for each tile (2 or 4 sides) from work size (WS).
- (**) The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (WS).
- (***) The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (WS).
- (****) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (WS).
- c.c. The maximum permissible deviation from centre curvature, in % or mm, related to diagonal calculated from the work sizes (WS).
- e.c. The maximum permissible deviation from edge curvature, in % or mm, related to the corresponding work sizes (WS).
- w. The maximum permissible deviation from warpage, in % or mm, related to diagonal calculated from the work sizes (WS).
- (1) Determination of slip resistance of pedestrian surfaces; it does not cover sports surfaces and road surfaces for vehicles (skid resistance).
- (2) Anti-slip performance is guaranteed at the time of delivery of 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 outdoor design general catalogue.
- (5) Only for products with 20 mm thickness.

Technical features

		Requirements for nominal size N		162x324 cm - 63 ³ / ₄ "x127 ¹ / ₂ " 159x324 cm - 62 ³ / ₄ "x127 ¹ / ₂ " Not Rectified			160x320 cm - 63"x127" Rectified			
		N ≥ 15 cm		Silk	Matte Hammered Leathered	Polished Satin	Silk	Matte Hammered	Polished	
		(%)	(mm)							
Regularity characteristics	Length and width	ISO 10545-2	± 0,3 (*)	± 1 (*)	N.A.			Suitable for		
	Thickness		± 5 (**)	± 0,5 (**)	Suitable for Conforme			Suitable for		
	Straightness of sides		± 0,3 (***)	± 0,8 (***)	N.A.			Suitable for		
	Rectangularity (Measurement only on short edges when L/1 ≥ 3)		± 0,3 (****)	± 1,5 (****)	N.A.			Suitable for		
	Surface flatness		c.c. ± 0,4 e.c. ± 0,4 w. ± 0,4	c.c. ± 1,8 e.c. ± 1,8 w. ± 1,8	Suitable for			Suitable for		
Structural characteristics	Water absorption	ISO 10545-3	E, ≤ 0,5% Individual max 0,6%		≤ 0,1 %			≤ 0,1 %		
		ASTM C373-18	Requirement ANSI A137.1 Water Absorption Max ≤ 0,5%		≤ 0,5 %			≤ 0,5 %		
Bulk mechanical characteristics	Breaking strength	ISO 10545-4	S ≥ 700 N for thickness < 7,5mm	S ≥ 1300 N for thickness ≥ 7,5mm	12 mm -> S ≥ 3500N 20 mm -> S ≥ 10000N			S ≥ 1000N		
	Modulus of rupture		R ≥ 35 N/mm ²		R ≥ 40 N/mm ²			R ≥ 40 N/mm ²		
	Impact resistance, as coefficient of restitution		ISO 10545-5	Declared value		≥ 0,55			≥ 0,55	
Surface mechanical characteristics	Resistance to deep abrasion of unglazed tiles (removed volume)	ISO 10545-6	≤ 175 mm ³		Suitable for			Suitable for		
	Coefficient of thermal linear expansion	ISO 10545-8	Declared value		≤ 7 MK ⁻¹			≤ 7 MK ⁻¹		
Thermal and hygrometric characteristics	Thermal shock resistance	ISO 10545-9	Pass according to EN 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	Pass according to EN ISO 10545-1		Resistant Resiste			Resistant Resiste		
Physical properties	Bond strength/adhesion for improved cementitious adhesives	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	-	A1 or Afl		A1 without fiberglass - A2 with fiberglass			A1 - A1fl		
Chemical characteristics	Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum Class B (B for unglazed tiles)		A			A		
	Resistance to low concentrations of acids and alkalis		Declared Class		LA			LA		
	Resistance to high concentrations of acids and alkalis		Declared Class		HA HA -			HA HA -		
	Resistance to staining	ISO 10545-14	Declared Class		5			5		
Safety characteristics (1)(2)	Release of dangerous substances: Cadmium (in mg/dm ²) and Lead (in mg/dm ²)	ISO 10545-15	Declared value		≤ 0,01 mg/dm ² Cd ≤ 0,1 mg/dm ² Pb			≤ 0,01 mg/dm ² Cd ≤ 0,1 mg/dm ² Pb		
	Shod Ramp Test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared Class		-			-		
	Barefoot Ramp Test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared Class		-			-		
	Coefficient of friction (COF)	B.C.R.A. Rep. CEC/81	D.M. 236/89 dated 14/06/89 μ > 0,40 for leather sliding element on dry flooring μ > 0,40 for hard rubber sliding element on wet flooring		-			> 0,40 dry > 0,40 wet		
	Dynamic coefficient of friction (DCOF)	ANSI A 326,3	-		-			wet DCOF > 0,42 dry DCOF > 0,42		
	Resistance to scratching	UNI EN 15186:2012 met.B	-		CEN/TS 16209 Class A			CEN/TS 16209 Class A		
	Tendency to retain dirt	UNI 9300:2015	-		No visible change (5)			No visible change (5)		
	Surface resistance to cold liquids	UNI EN 12720:2013	-		CEN/TS 16209 Class A			CEN/TS 16209 Class A		
	Surface resistance to wet heat	UNI EN 12721:2013	-		CEN/TS 16209 Class A			CEN/TS 16209 Class A		
	Surface resistance to dry heat	UNI EN 12722:2013	-		CEN/TS 16209 Class A			CEN/TS 16209 Class A		
	Assessment of resistance to impact	ISO 4211-4:1988	-		Maximum drop height according to thickness			Maximum drop height according to thickness		