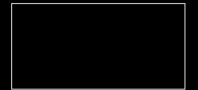
Atlas Plan SPRING 2024

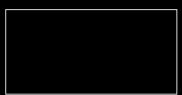
Technical specification







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).
- 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 specifications

Technical features				Requirements fo	162x324 cm - 63 ³ / ₄ "x127 ¹ / ₂ " 159x324 cm - 62 ³ / ₄ "x127 ¹ / ₂ " Not Rectified			160x320 cm - 63"x127" Rectified			
				N ≥ 1!	5 cm (mm)	Silk	Matte Hammered Leathered		Silk	Matte Hammered	Polished
		Length and width		± 0,3 (*)	± 1 (*)		N.A.			Suitable for	•
Regularity characteristics		Thickness		± 5 (**)	± 0,5 (**)	Suitable for Conforme			Suitable for		
		Straightness of sides	ISO	± 0,3 (***)	± 0,8 (***)		N.A.		Suitable for		
		Rectangularity (Measurement only on short edges when L/I ≥ 3)	10545-2 ISO	± 0,3 (****)	± 1,5 (****)		N.A.		Suitable for		
		Surface flatness		c.c. ± 0,4 e.c. ± 0,4	c.c. ± 1,8 e.c. ± 1,8		Suitable fo	r	Suitable for		
				w. ± 0,4	w. ± 1,8	≤ 0,1 %			- 01%		
Structural characteristics		Water absorption	10545-3 ASTM C373-18	E, ≤ 0,5% Individual max 0,6%		≤ 0,1 %		≤ 0,1 %			
				Requirement Water Absorpti		≤ 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		mm -> S ≥ 3 mm -> S ≥ 10			S ≥ 1000N	
		Modulus of rupture	100.10	R ≥ 35 N/mm ²		R ≥ 40 N/mm ²		R ≥ 40 N/mm²			
		Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value		≥ 0,55			≥ 0,55		
Surface mechanical characteristics	٩	Resistance to deep abrasion of unglazed tiles (removed volume)	ISO 10545-6	≤ 175 mm³		Suitable for			Suitable for		
Thermal and hygrometric characteristics	(L)	Coefficient of thermal linear expansion	ISO 10545-8	Declare	≤ 7 MK ⁻¹			≤ 7 MK ⁻¹			
	(*	Thermal shock resistance	ISO 10545-9	Pass according to EN ISO 10545-1		Resistant			Resistant		
	0000	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	(Fine)	Bond strength/adhesion for improved cementitious adhesives	EN 1348	Declared value		≥ 1,0 N/mm² (Class C2 - EN 12004)			≥ 1,0 N/mm² (Class C2 - EN 12004)		
		Reaction to fire	-	A1 or Afl		A1 without fiberglass - A2 with fiberglass			A1 - A1fl		
Chemical characteristics	(K.)	Resistance to household chemicals and swimming pool salts	ISO	Minimum Class B (B for unglazed tiles)		А		А			
		Resistance to low concentrations of acids and alkalis	10545-13	Declared Class		LA		LA			
		Resistance to high concentrations of acids and alkalis		Declare	d Class	НА	НА	-	НА	НА	-
		Resistance to staining	ISO 10545-14	Declare	d Class		5			5	
		Release of dangerous substances: Cadmium (in mg/dm²) and Lead (in mg/dm²)	ISO 10545-15	Declare	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb			≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb			
Safety characteristics (1)(2)	Ø	Shod Ramp Test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declare	d Class	-	-	-	-	R9	N.C.
		Barefoot Ramp Test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declare	d Class	-	-	-	-	А	-
		Coefficient of friction (COF)	B.C.R.A. Rep. CEC/81	D.M. 236/89 da µ>0,40 for leather sliding µ>0,40 for hard rub on wet	element on dry flooring ber sliding element	-	-	-	-	> 0,40 dry > 0,40 wet	> 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) CEN/TS 16209 Class A			No visible change (5) CEN/TS 16209 Class A		
		Surface resistance to cold liquids	UNI EN 12720:2013								
		Surface resistance to wet heat	UNI EN 12721:2013	-		CEN/TS 16209 Class A		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-			Maximum drop height according to thickness		hoight	Maximum drop height according to thickness		