

Technical features									
Dry-pressed ceramic tiles. Quality specifications, according to control tests of EN 14411-ISO 13006 Appendix G group B1a UGL			Standard requirements		Test results				Reference standard
			N ≥ 15 cm						
			(%)	(mm)	MATTE LEATHER	MATTE	MATTE SILK	GLOSSY	
	Lenght and with: deviation of the average size for each tile from the work size	Squadrato ISO 13006	± 0,3%	± 1 mm	± 0,15%				ISO 10545-2
	Thickness: deviation of the average thickness of each tile form the work size thickness	Squadrato ISO 13006	± 5%	± 0,5 mm	± 5%				
	Straightness: maximum deviation to the corresponding work sizes	Squadrato ISO 13006	± 0,3%	± 0,8 mm	± 0,10%				
	Orthogonality: permissible deviation in relation to the corresponding manufacturing dimensions	Squadrato ISO 13006	± 0,3%	± 1,5 mm	± 0,20%				
	Flatness: center curvature, edge curvature, and warpage in relation to the corresponding manufacturing dimensions	Squadrato ISO 13006	± 0,4%	± 1,8 mm	0,20%				
	Surface quality	A minimum of 95% of the tiles are to be free from visible defects			Compliant				
	Water absorption, percent mass fraction	≤ 0,5%		Average value 0,08%				ISO 10545-3	
	Breaking strength in N (thickness < 7.5 mm)	≥ 700		Average value 1350 N				ISO 10545-4	
	Bending strength in N/mm ²	≥ 35		Average value 52 N/mm ²					
	Resistance to deep abrasion	≤ 175 mm ³		Average value 140 mm ³				ISO 10545-6	
	Thermal shock resistance	Available testing method		Resistant				ISO 10545-9	
	Resistance to staining	Available testing method		Class 4				ISO 10545-14	
	Resistance to low concentrations of acids and alkali	See manufacturer's declaration		LA		LB		ISO 10545-13	
	Resistance to high concentrations of acids and alkali	Available testing method		HA		HB			
	Resistance to household chemicals and swimming pool salts	Minimum class B		A					
	Frost resistance	Required		Resistant				ISO 10545-12	
	Release of hazardous substances	Declared value for GL surfaces intended for countertop applications		Compliant				DM 1-2-2007 Reg. CE 1935-2004	
	Dynamic coefficient of friction	See manufacturer's declaration		≥ 0,42 wet			-	ANSI-A326.3	
		See manufacturer's declaration		> 0,40			-	METODO BCRA	
	Shod ramp slipperiness	See manufacturer's declaration		R10 (10° < α ≤ 19°)		R9 (6° < α ≤ 10°)	-	DIN EN 16165 ANNEX B	
	Barefoot ramp slipperiness	See manufacturer's declaration		Class B (18° ≤ α < 24°)		-		DIN EN 16165 ANNEX A	

Technical features			Standard requirements		Test results						Reference standard
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			(%)	(mm)	GLOSSY	MATTE SILK	MATTE LEATHER	MATTE	CANNETÉ	GRIP	
	Lenght and with: deviation of the average size for each tile from the work size	Squadrato ISO 13006	± 0,3%	± 1 mm	± 0,15%						ISO 10545-2
	Thickness: deviation of the average thickness of each tile form the work size thickness	Squadrato ISO 13006	± 5%	± 0,5 mm	± 5%						
	Straightness: maximum deviation to the corresponding work sizes	Squadrato ISO 13006	± 0,3%	± 0,8 mm	± 0,10%						
	Orthogonality: permissible deviation in relation to the corresponding manufacturing dimensions	Squadrato ISO 13006	± 0,3%	± 1,5 mm	± 0,20%						
	Flatness: center curvature, edge curvature, and warpage in relation to the corresponding manufacturing dimensions	Squadrato ISO 13006	± 0,4%	± 1,8 mm	0,35%						
	Surface quality	A minimum of 95% of the tiles are to be free from visible defects			Compliant						
	Water absorption, percent mass fraction	≤ 0,5%			Average value 0,08%						ISO 10545-3
	Breaking strength in N (thickness < 7.5 mm)	≥ 1300			Average value 2200 N						ISO 10545-4
	Bending strength in N/mm ²	≥ 35			Average value 50 N/mm ²						
	Resistance to deep abrasion	≤ 175 mm ³			Average value 140 mm ³						ISO 10545-6
	Thermal shock resistance	Available testing method			Resistant						ISO 10545-9
	Resistance to staining	Available testing method			Class 4						ISO 10545-14
	Resistance to low concentrations of acids and alkali	See manufacturer's declaration			LB		LA				ISO 10545-13
	Resistance to high concentrations of acids and alkali	Available testing method			HB		HA				
	Resistance to household chemicals and swimming pool salts	Minimum class B			A						
	Frost resistance	Required			Resistant						ISO 10545-12
	Dynamic coefficient of friction	See manufacturer's declaration			-	≥ 0,42 wet					ANSI-A326.3
		See manufacturer's declaration			> 0,40				-	> 0,40	METODO BCRA
	Shod ramp slipperiness	See manufacturer's declaration			-	R9 (6° < α ≤ 10°)	R10 (10° < α ≤ 19°)			R11 (19° < α ≤ 27°)	DIN EN 16165 ANNEX B
	Barefoot ramp slipperiness	See manufacturer's declaration			-		Class B (18° ≤ α < 24°)		-	Class C (α > 24°)	DIN EN 16165 ANNEX A
	Pendulum test slipperiness	See manufacturer's declaration			-					PTV > 36 (slider 96)	BS EN 16165 ANNEX C

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			N ≥ 15 cm			
			(%)	(mm)	GRIP	
	Lenght and with: deviation of the average size for each tile from the work size	Squadrato ISO 13006	± 0,3%	± 1 mm	± 0,15%	ISO 10545-2
	Thickness: deviation of the average thickness of each tile form the work size thickness	Squadrato ISO 13006	± 5%	± 0,5 mm	± 5%	
	Straightness: maximum deviation to the corresponding work sizes	Squadrato ISO 13006	± 0,3%	± 0,8 mm	± 0,10%	
	Orthogonality: permissible deviation in relation to the corresponding manufacturing dimensions	Squadrato ISO 13006	± 0,3%	± 1,5 mm	± 0,20%	
	Flatness: center curvature, edge curvature, and warpage in relation to the corresponding manufacturing dimensions	Squadrato ISO 13006	± 0,4%	± 1,8 mm	0,35%	
	Surface quality	A minimum of 95% of the tiles are to be free from visible defects		Compliant		
	Water absorption, percent mass fraction	≤ 0,5%		Average value 0,08%		ISO 10545-3
	Breaking strength in N (thickness < 7.5 mm)	≥ 1300		Compliant		ISO 10545-4
	Bending strength in N/mm ²	≥ 35		Average value 52 N/mm ²		
	Resistance to deep abrasion	≤ 175 mm ³		Average value 140 N/mm ³		ISO 10545-6
	Thermal shock resistance	Available testing method		Resistant		ISO 10545-9
	Resistance to staining	Available testing method		Class 4		ISO 10545-14
	Resistance to low concentrations of acids and alkali	See manufacturer's declaration		LA		ISO 10545-13
	Resistance to high concentrations of acids and alkali	Available testing method		HA		
	Resistance to household chemicals and swimming pool salts	Minimum class B		A		
	Frost resistance	Required		Resistant		ISO 10545-12
	Dynamic coefficient of friction	See manufacturer's declaration		≥ 0,42 wet		ANSI-A326.3
		See manufacturer's declaration		> 0,40		METODO BCRA
	Shod ramp slipperiness	See manufacturer's declaration		R11 (19° < α ≤ 27°)		DIN EN 16165 ANNEX B
	Barefoot ramp slipperiness	See manufacturer's declaration		Class C (α > 24°)		DIN EN 16165 ANNEX A
	Pendulum test slipperiness	See manufacturer's declaration		PTV > 36 (slider 96)		BS EN 16165 ANNEX C