

Technical features						
Dry-pressed ceramic tiles. Quality specifications, according to control tests of EN 14411-ISO 13006 Appendix G group Bla UGL			Standard requirements		Test results	Reference standard
			N ≥ 15 cm			
			(%)	(mm)	MATTE	
	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 corresonding 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 5	ISO 10545-14
	Resistance to low concentrations of acids and alkali	See manufacturer's declaration		LA		ISO 10545-13
	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°)		DIN EN 16165 ANNEX B
	Barefoot ramp slipperiness	See manufacturer's declaration		Class B (18° ≤ α < 24°)		DIN EN 16165 ANNEX A

For optimal installation results, Florim recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats.

Technical features						
Quality specifications, according to control tests of EN 14411-ISO 13006 Appendix G group Bla GL			Standard requirements		Test results	Reference standard
			N ≥ 15 cm			
			(%)	(mm)	MATTE SILK	
	Lenght and with: deviation of the average size for each tile from the work size	Non rectified ISO 13006	± 0,6% (N > 15 cm)	± 2 mm (N > 15 cm) / ± 0,9 mm (7 < N < 15 cm)	± 0,15%	ISO 10545-2
	Thickness: deviation of the average thickness of each tile form the work size thickness	Non rectified ISO 13006	± 5%	± 0,5 mm	± 5%	
	Straightness: maximum deviation to the corresponding work sizes	Non rectified ISO 13006	± 0,5%	(N > 15 cm)	± 0,10%	
	Orthogonality: permissible deviation in relation to the corresponding manufacturing dimensions	Non rectified ISO 13006	± 0,5% (N > 15 cm)	± 2 mm (N > 15 cm) / ± 0,8 mm (7 < N < 15 cm)	± 0,20%	
	Flatness: center curvature, edge curvature, and warpage in relation to the corresponding manufacturing dimensions	Non rectified ISO 13006	± 0,5% (N > 15 cm)	± 2 mm (N > 15 cm) / ± 0,8 mm (7 < N < 15 cm)	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%			Compliant	ISO 10545-3
	Breaking strength in N (thickness < 7.5 mm)	≥ 1300			Compliant	ISO 10545-4
	Bending strength in N/mm ²	≥ 35			Compliant	
	Resistance to surface abrasion	See manufacturer's declaration			COTONE CLASS 3 SABBIA CLASS 3 ROSATO CLASS 3 MATTONE CLASS 2 AMARANTO CLASS 2 CARBONE CLASS 2	ISO 10545-7
	Thermal shock resistance	Available testing method			Resistant	ISO 10545-9
	Resistance to staining	Available testing method			Class 5	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

The PEI rating does not apply to the "ONDA" structure. For optimal installation results, Florim recommends maintaining a 2 mm grout joint for single-format installations and a 3 mm grout joint when combining different formats.

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			N ≥ 15 cm					
			(%)	(mm)	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			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	-	≥ 0,42 wet	ANSI-A326.3
		See manufacturer's declaration			> 0,40	-	> 0,40	METODO BCRA
	Shod ramp slipperiness	See manufacturer's declaration			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)	-	PTV > 36 (slider 96)	BS EN 16165 ANNEX C

For optimal installation results, Florim recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats.

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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

For optimal installation results, Florim recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats.