

Ceramica del Conca SpA Technical Characteristics

HLC, ALCHEMIA collection.

EN 14411:2016 Annex G Required for Bla

Reference	Characteristics	Standard	Required values		CdC Values:
Dimensional standard	Length and width	ISO 10545-2	± 0.6%	± 2.0 mm	Comply
	Straightness of sides	ISO 10545-2	± 0.5%	± 1.5 mm	Comply
	Rectangularity	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Flatness-Centre curvature	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Flatness - Edge curvature	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Flatness - Warpage	ISO 10545-2	± 0.5%	± 2.0 mm	Comply
	Thickness	ISO 10545-2	± 5%	± 0.5 mm	Comply
	Surface quality	ISO 10545-2	Minimum 95%		Comply
Mechanical Standard	Water absorption	ISO 10545-3	Maximum 0.5%		~ 0.1%
	Modulus of rupture	ISO 10545-4	> 35 N/mm ²		Comply
	Breaking Strength	ISO 10545-4	> 1300 N		Comply
	Impact resistance	ISO 10545-5	Declared value		~ 0.89 (COR)
	Linear thermal expansion	ISO 10545-8	Declared value		$\alpha = \sim 6.4 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
	Thermal shock resistance	ISO 10545-9	Pass		Comply
	Moisture Expansion	ISO 10545-10	Declared value		~ 0.04 mm/m
	Crazing Resistance	ISO 10545-11	Pass		Comply

		Frost resistance	ISO 10545-12	Pass		Comply
		Chemical resistance	ISO 10545-13	Minimum class GB		Comply
		DEEP Abrasion	ISO 10545-6	<175mm3		135 mm³
		MOHS	Declared value			Mohs 6
Safety Standard	International requirements	Stain resistance	ISO 10545-14	Minimum class 3		Comply
		Fire reaction - floor	EN 13823	Not Required		A1fl class (No reaction)
		Fire reaction - wall	EN 13823	Not Required		A1 class (No reaction)
		VOC				No VOC
	EU requirements	Ramp resistance	DIN51130	Not Required	Nat	R9
		Barefoot ramp resistance	DIN51097	Not Required	Nat	A
	US Requirements	Dynamic coefficient of Friction DCOF	ANSI A326.3-2017 release 2019	Wet value ≥ 0.42	Nat	0.65
	IT Requirements	Determination of slipperiness BCR tortus	DM 236-89	> 0.40	Nat	DRY: 0.44 WET: 0.47
	UK requirements	PENDULUM	BS 7976-2: 2002	> 0.36	Nat	DRY: 45 WET: 36

Values reflect an average among test performed in our laboratory according to the standard requirements and/or through third party laboratory.

Test are performed on actual production, first choice material. Values may vary between single individual production run.

Ceramica del Conca Technical team will be pleased to integrate and answer specific questions.