


AENOR TRADE MARK FOR CERAMIC TILES

TECHNICAL FORM: FT41C41P2

IDENTIFICATION	Lisensee - Factory site:	CERLAT	
	Set (s):	TOKIO 22	
	Reference (s):	PV.PC 22.5X22.5, AM201305	
	Product description:	Ceramic tile of 1ª quality, ISO 13006, Bla, 22.5 cm x 22.5 cm (W 224.5 mm x 224.5 mm x 9 mm) GL	
	Brand Name:	CERLAT	
	Water absorption group:	Bla	
	Type of glaze:	AG	
	Floor / Wall:	Floor	
	Interior / Exterior:	Both	
Colours:	Azul, Verde		

CERAMIC TILE CHARACTERISTICS		Test method	AENOR required values	Manufacturer assured values
SURFACIAL DIMENSIONS & QUALITY	Dimensions	ISO 10545-2	224.5 ± 1.3 mm	224.5 ± 1.3 mm
			224.5 ± 1.3 mm	224.5 ± 1.3 mm
	Deviation from work size		N/A	N/A
	Deviation from average size		N/A	N/A
	Thickness (maximum deviation from the work size thickness)		9 ± 0.5 mm	9 ± 0.5 mm
	Straightness of sides (maximum deviation)		L: ± 0.5 %	L: ± 0.5 %
			A: ± 0.5 %	A: ± 0.5 %
	Rectangularity (maximum deviation)		L: ± 0.5 %	L: ± 0.5 %
			A: ± 0.5 %	A: ± 0.5 %
	Surface flatness - Centre curvature (maximum deviation)		L: ± 0.5 %	L: ± 0.5 %
Surface flatness - Edge curvature (maximum deviation)	A: ± 0.5 %	A: ± 0.5 %		
Warpage (maximum deviation)	L: ± 0.5 %	L: ± 0.5 %		
	A: ± 0.5 %	A: ± 0.5 %		
Surface quality	≥ 95 % tiles free from visible defects	≥ 95 % tiles free from visible defects		
PHYSICAL PROPERTIES	Water absorption	ISO 10545-3	Eb ≤ 0,5 % Individual max. 0,6 %	Eb ≤ 0,5 % Individual max. 0,6 %
	Breaking strenght	ISO 10545-4	≥ 1300 N	> 1300 N
	Flexural resistance or Modulus of rupture		≥ 35 N/mm2 Individual min. 32 N/mm2	≥ 35 N/mm2 Individual min. 32 N/mm2
	Resistance to deep abrasion of unglazed tiles	ISO 10545-6	N/A	N/A
	Resistance to surface abrasion of glazed tiles	ISO 10545-7	Class 3 (>750 cycles)	Class 3 (>750 cycles)
	Coefficient of linear thermal expansion	ISO 10545-8	≤ 6,8 x 10-6/°c	≤ 6,8 x 10-6/°c
	Thermal shock resistance	ISO 10545-9	Pass	Pass
	Crazing resistance	ISO 10545-11	Pass	Pass
	Frost resistance	ISO 10545-12	Pass	Pass
	Slipperiness. CTE (Pendulum Test)	Annex A EN 12633	35 < USRB ≤ 45 (Clase CTE 2)	35 < USRB ≤ 45 (Clase CTE 2)
	Slipperiness. Critical Slip Angle (Ramp test)	DIN 51130	R10	R10
	Slipperiness. Critical Slip Angle (Ramp test)	DIN 51097	A	A
	Bond strenght/adhesion - cementitious adhesives	4.1 EN 12004	C2 (≥ 1N/mm2)	C2 (≥ 1N/mm2)
	Bond strenght/adhesion - mortar	EN 1015-12	N/A	N/A
	Moisture expansion	ISO 10545-10	≤ 0,1 mm/m	≤ 0,1 mm/m
Small colour differences	ISO 10545-16	N/A	N/A	
Impact resistance	EN ISO 10545-5	≥ 0,81	≥ 0,81	
Reaction to fire	WT	A1FL	A1FL	
Tactility	CEN/TS-15209	N/A	N/A	
CHOPEMERCTILES	Resistance to staining - glazed tiles	ISO 10545-14	Minimum Class 3	Class 5
	Resistance to staining - unglazed tiles		N/A	N/A
	Resistance to acids and alkalis of low concentration	ISO 10545-13	GLA	GLA
	Resistance to acids and alkalis of high concentration		GHA	GHA
	Resistance to household cleaning agents and swimming pool chemicals		Minimum Class GB	GA
	Release of cadmium - glazed tiles	ISO 10545-15	N/A	N/A
Release of lead - glazed tiles		N/A	N/A	

NOTES: