


AENOR TRADE MARK FOR CERAMIC TILES

TECHNICAL FORM: FT41C41P2

I D E N T I F I C A T I O N	Lisensee - Factory site:	CERLAT	 AENOR ER <small>Empresa Registrada ISO 9001</small>
	Set (s):	TOKIO 22, KIOTO 22	
	Reference (s):	PV.PC 22.5X22.5, AM201305	
	Product description:	Ceramic tile of 1ª quality, EN 14411, 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:	NEGRO	

CERAMIC TILE CHARACTERISTICS		Test method	AENOR required values	Manufacturer assured values
S U R F A C E Q U A L I T Y	Dimensions	EN ISO 10545-2	224.5 ± 1.3 mm	224.5 ± 1.3 mm
			Deviation from work size	224.5 ± 1.3 mm
	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 %
	Rectangularity (maximum deviation)		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 %
	Surface quality		A: ± 0.5 %	A: ± 0.5 %
			≥ 95 % tiles free from visible defects	≥ 95 % tiles free from visible defects
	P R O P E R T I E S		Water absorption	EN ISO 10545-3
Breaking strenght		EN ISO 10545-4	≥ 1300 N	> 1300 N
Flexural resistance or Modulus of rupture			≥ 35 N/mm ² Individual min. 32 N/mm ²	≥ 35 N/mm ² Individual min. 32 N/mm ²
Resistance to deep abrasion of unglazed tiles		EN ISO 10545-6	N/A	N/A
Resistance to surface abrasion of glazed tiles		EN ISO 10545-7	Class 2 (600 rev)	Class 2 (600 rev)
Coefficient of linear thermal expansion		EN ISO 10545-8	≤ 6,8 x 10 ⁻⁶ /°c	≤ 6,8 x 10 ⁻⁶ /°c
Thermal shock resistance		EN ISO 10545-9	Pass	Pass
Crazing resistance		EN ISO 10545-11	Pass	Pass
Frost resistance		EN ISO 10545-12	Pass	Pass
Slipperiness. CTE (Pendulum Test)		Annex A EN 12633	PTV 40 (Clase CTE 2)	PTV 40 (Clase CTE 2)
Slipperiness. Critical Slip Angle (Ramp test)		DIN 51130	R10	R10
Slipperiness. Critical Slip Angle (Ramp test)		DIN 51097	A	A
Bond strength/adhesion - cementitious adhesives		4.1 EN 12004	C2 (≥ 1N/mm ²)	C2 (≥ 1N/mm ²)
Bond strength/adhesion - mortar		EN 1015-12	N/A	N/A
Moisture expansion		EN ISO 10545-10	≤ 0,1 mm/m	≤ 0,1 mm/m
Small colour differences	EN 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	
P R O P E R T I E S	Resistance to staining - glazed tiles	EN 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	EN 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	EN ISO 10545-15	N/A	N/A
	Release of lead - glazed tiles		N/A	N/A

NOTES: