



TECHNICAL SPECIFICATIONS

GLAZED PORCELAIN TILES - POLISHED (PGVT)

CHARACTERISTIC	STANDARD AS PER ISO-13006/EN14411 GROUP BIa	OUR VALUE	TEST METHOD
REGULATORY PROPERTIES			
Deviation in length & width	± 0.5%	± 0.1%	ISO-10545-2
Deviation in thickness	± 5.0%	± 4.0%	ISO-10545-2
Straightness in sides	± 0.5%	± 0.1%	ISO-10545-2
Rectangularity	± 0.5%	± 0.1%	ISO-10545-2
Surface flatness	± 0.5%	± 0.2%	ISO-10545-2
Surface quality	Min. 95% defect free	> 95%	ISO 10545-2
Glossiness	> 90 GU	> 92 GU	Gloss meter 60°
STRUCTURAL PROPERTIES			
Water absorption	< 0.50%	< 0.05%	ISO-10545-3
Apparent density	> 2.0 g/cc	> 2.20 g/cc	DIN 51082
MASSIVE MECHANICAL PROPERTIES			
Modulus of rupture	> 35 N/mm ²	> 40 N/mm ²	ISO-10545-4
Breaking strength	> 1300 N	> 1800 N	ISO-10545-4
Impact resistance (COR)	≥0.55	>0.55	ISO-10545-5
SURFACE MECHANICAL PROPERTIES			
Surface abrasion resistance	Declared class	Class PEI 4 (2100 revolutions)	EN 154
Surface scratch hardness (Moh's scale)	≥5	≥5	EN 101
THERMO HYGROMETRIC PROPERTIES			
Frost resistance	Test passed in accordance with test method	Pass	ISO-10545-12
Thermal shock resistance	Min. 10 cycle	Pass	ISO-10545-9
Moisture expansion	0.06mm/m	0.01mm/m	ISO-10545-10
Thermal expansion (COE)	Max. 9.0 x 10 ⁻⁶	Max. 6.5 x 10 ⁻⁶	ISO-10545-8
Crazing resistance	No damage	No damage	ISO-10545-11
CHEMICAL PROPERTIES			
Chemical resistance	No damage	No damage	ISO-10545-13
Stain resistance	Min. Class 3	Class 5	ISO-10545-14
SAFETY PROPERTIES			
Slip resistance (COF)	Declared value	> 0.40 dry, < 0.40 wet	ISO-10545-17
Reaction to fire	Class A1 or A1fl	Class A1 - A1fl	N.A.

L WORLD TILES

PARTNER