

GLAZED PORCELAIN TILES - 20MM THICK OUTDOOR TILES

NORMS	TECHNICAL CHARACTERISTICS		REQUIRED VALUES	LAVISH VALUES
EN ISO 10545-2	DIMENSIONS AND SURFACE QUALITY	LENGTH AND WIDTH	± 0.5%	± 0.1%
		THICKNESS	± 5.0%	± 4.0%
		STRAIGHTNESS OF SIDES	± 0.5%	± 0.1%
		RECTANGULARITY	± 0.5%	± 0.1%
		CENTRE - EDGE CURVATURE-WARPAGE	± 0.5%	± 0.2%
		SURFACE QUALITY	MIN 95%	> 95%
EN ISO 10545-3	WATER ABSORPTION %		< 0.5%	< 0.1%
EN ISO 10545-4	BREAKING STRENGTH (N)	THICKNESS = 20mm	MIN 1300 N	MIN 10000 N
	MODULUS OF RUPTURE (N/mm ²)		MIN: 35 N/mm ²	MIN: 45 N/mm ²
EN ISO 10545-5	IMPACT RESISTANCE AS, COEFFICIENT OF RESTITUTION (COR)		≥ 0.55	> 0.55
EN ISO 10545-7	ABRASION RESISTANCE		DECLARED CLASS	PEI CLASS ≥ 4
EN ISO 10545-8	LINEAR THERMAL EXPANSION		MAX. 9.0 x 10 ⁻⁶	MAX. 6.00 x 10 ⁻⁶ /7.50 x 10 ⁻⁶
EN ISO 10545-9	THERMAL SHOCK RESISTANCE		MIN 10 CYCLE	PASS
EN ISO 10545-10	MOISTURE EXPANSION		0.06mm/m	0.01mm/m
EN ISO 10545-11	CRAZING RESISTANCE		NO DAMAGE	NO DAMAGE
EN ISO 10545-12	FROST RESISTANCE		PASS IN ACCORDANCE WITH TEST METHOD	PASS
EN ISO 10545-13	RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS		DECLARED VALUE	LA/LB
	RESISTANCE TO HIGH CONCENTRATIONS OF ACIDS AND ALKALIS		DECLARED VALUE	HA/HB
	RESISTANCE TO HAUSEHOLD CHEMICALS AND SWIMMING POOL SALTS		MIN:B	A/B
EN ISO 10545-14	RESISTANCE TO STAINING		MIN CLASS 3	CLASS 4/5
EN ISO 10545-15	RELEASE OF DANGEROUS SUBSTANCES LEAD - CADMIUM		DECLARED VALUE	Pb:< 0,1 Cd:< 0,01
EN 101	SCRATCH HARDNESS (MOH'S SCALE)		≥ 5	≥ 5
EN ISO 10545-17	SLIP RESISTANCE (COF)		DECLARED VALUE	> 0.40 DRY, > 0.40 WET
ANSI A137.1-2012 (BOT3000)	SLIP RESISTANCE (DCOF)		DECLARED VALUE	> 0.42 WET
DIN 51130-51097	SLIPPERINESS RATING		DECLARED VALUE	R11
CEN/TS 16165	DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES		DECLARED CLASS	CLASS B
EN 12004:2007+A1:2012,4,1	BOND STRENGTH / ADHESION	CEMENTITIOUS ADHESIVES	DECLARED VALUE	≥ 0.5 Tip C2
-----	REACTION TO FIRE		A1 or A1 FL	A1 or A1 FL