

TEST REPORT

FR.PK.21.03 / Release Date: 09.09.2016 / Revision Date: 15.09.2022 / Revision No: 03

Production Facility	QUA Granite Hayal Yapı
Name of The Product	60x120x0,88 cm – 30x120x0,88 cm. MAREA series
Product Group	Dry-pressed ceramic tiles / Group Bla / GL
General Properties	Full Polished surface all rectified and chamfered
Special Body for Product	Porcelain Body specially mix colored to match its surface design and colours
Recommended Use	interior & exterior floor and walls
Report Date	1.11.2022

Characteristics	Test Results	EN 14411 ANNEX G Requirements	Test Method
A.1 b) Length & Width for rectified tiles	1195 ± 0,4 mm	1195 mm. ± 1,0 mm	EN ISO 10545-2
	600 ± 0,4 mm	600 mm. ± 1,0 mm	
	297 ± 0,4 mm	297 mm ± 1,0 mm	
A.2 Thickness	max. ± 0,4 mm	max. ± 0,5 mm	EN ISO 10545-2
A.3 Straightness of Sides	max. ± 0,8 mm	max. ± 0,8 mm	EN ISO 10545-2
A.4 Rectangularity	max ± 0,5 mm	max. ± 1,5 mm	EN ISO 10545-2
A.5 b) Center Curvature	max ± 0,5 mm	max. ± 1,8 mm	EN ISO 10545-2
A.5 d) Edge Curvature	max ± 0,5 mm	max. ± 1,8 mm	EN ISO 10545-2
A.5 f) Warpage-corner curvature	max ± 0,5 mm	max. ± 1,8 mm	EN ISO 10545-2
A.6 Surface Quality	> 95 % First Quality	> 95 % First Quality	EN ISO 10545-2
B.1 Water Absorption (by mass)	< 0,1 %	≤ 0,5 %	EN ISO 10545-3
B.2 Breaking Strength	> 2400N	> 1300 N	EN ISO 10545-4
B.3 Flexural-Bending Strength	min 51 N/mm ²	min 35 N/mm ²	EN ISO 10545-4
B.4 b) Resistance to surface abrasion	not applicable for full polish glossy surface		EN ISO 10545-7
Scratch Resistance	≥ 5 Mohs	As declared	EN 101
Glossiness (at 60° angle)	Min. 90 gloss	As declared	DIN EN ISO 2813
B.5 Coeff. Of Thermal Expansion	< 9,0 x 10 ⁻⁶	As declared	EN ISO 10545-8
B.6 Thermal Shock Resistance	Resistant	Required	EN ISO 10545-9
B.7 Craziing Resistance	Resistant	Required	EN ISO 10545-11
B.8 Frost Resistance	Resistant	Required	EN ISO 10545-12
B.9 Slipperiness	not applicable for full polish glossy surface		
B.10 Bond Strength	declared due to customer needs	As declared	EN 12004-1,4.1- 4.2- 4.3
B.11 Moisture Expansion	< 0,3 mm/m	As declared	EN ISO 10545-10
B.12 Small Colour Differences	ΔE _{cmc} < 0,50 for base colors	ΔE _{cmc} < 0,75	EN ISO 10545-16
B.13 Impact Resistance	applied due to customer needs	As declared	EN ISO 10545-5
B.14 Reaction to fire	Class A1 _{FL}	Class A1 or A1 _{FL}	-
C.1 a) Resistance to staining	Class 5	Min. Class 3	EN ISO 10545-14
C.2 a)Resistance to low conc. of Acid & Alkalis	min. LB	As declared	EN ISO 10545-13
C.2 b)Resistance to high conc. of Acid & Alkalis	min. HB	As declared	EN ISO 10545-13
C.2 b)Resistance to household Chemicals and swimming pool salts	min B class	Min. B class	EN ISO 10545-13
C.3 c)Release of dangerous substance : Cadmium	< 0,005 mg/dm ²	As declared	EN ISO 10545-15
C.3 c)Release of dangerous substance : Lead	< 0,005 mg/dm ²	As declared	EN ISO 10545-15
OVERALL RESULT	All test results are in accordance with TS EN 14411 (ISO 13006) Bla Annex G latest version norms		

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