

# TEST REPORT

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<b>Production Facility</b>	<b>QUA Granite Hayal Yapı</b>
<b>Name of The Product</b>	20x120x0,70 cm. MARRAKESH series
<b>Product Group</b>	Dry-pressed ceramic tiles / Group Bla / GL
<b>General Properties</b>	<b>Matt or Lappato surface all rectified and chamfered</b>
<b>Special Body for Product</b>	<b>Porcelain Body specially mix colored to match its surface design and colours</b>
<b>Recommended Use</b>	interior & exterior floor and walls
<b>Report Date</b>	1.12.2023

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
	199 ± 0,4 mm	199 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	> 1300N	> 700 N	EN ISO 10545-4
B.3 Flextural-Bending Strength	min 40 N/mm <sup>2</sup>	min 35 N/mm <sup>2</sup>	EN ISO 10545-4
B.4 b) Resistance to surface abrasion	PEI III	As declared	EN ISO 10545-7
Scratch Resistance	≥ 7 Mohs	As declared	EN 101
Glossiness (at 60° angle)	declared due to customer needs	As declared	DIN EN ISO 2813
B.5 Coeff. Of Thermal Expansion	< 9,0 x 10 <sup>-6</sup>	As declared	EN ISO 10545-8
B.6 Thermal Shock Resistance	Resistant	Required	EN ISO 10545-9
B.7 Crazing Resistance	Resistant	Required	EN ISO 10545-11
B.8 Frost Resistance	Resistant	Required	EN ISO 10545-12
B.9 Slipperiness	Matt : As declared lappato: not applicable	As declared	DIN 51130 and/or BS 7679 four S Rubber
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 <sub>cmc</sub> < 0,50 for base colors	ΔE <sub>cmc</sub> < 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 <sub>FL</sub>	Class A1 or A1 <sub>FL</sub>	-
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. LA	As declared	EN ISO 10545-13
C.2 b )Resistance to high conc. of Acid & Alkalis	min. HA	As declared	EN ISO 10545-13
C.2 b )Resistance to household Chemicals and swimming pool salts	min A class	Min. B class	EN ISO 10545-13
C.3 c )Release of dangerous substance : Cadmium	< 0,005 mg/dm <sup>2</sup>	As declared	EN ISO 10545-15
C.3 c )Release of dangerous substance : Lead	< 0,005 mg/dm <sup>2</sup>	As declared	EN ISO 10545-15
<b>OVERALL RESULT</b>	All test results are in accordance with TS EN 14411 (ISO 13006) Bla Annex G latest version norms		
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