

TEST REPORT

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

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| Production Facility | QUA Granite Hayal Yapı |
| Name of The Product | 60x120x0,88 cm – 30x120x0,88 cm. OPOSTO 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 Crazing 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 |

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| OVERALL RESULT | All test results are in accordance with TS EN 14411 (ISO 13006) Bla Annex G latest version norms |
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| Prepared by Process Quality Control Chief Hasan Hüseyin TOPOZ | Approved by R&D Director Canan GUVEN |
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