

BELLO TRAVERTINO COLLECTION

PRODUCT CERTIFICATE

Finished Product Laboratory

ISO 13006-10545

Equivalent to the Brazilian Norm NBR 15463/NBR 13818

Dry-pressed ceramic tiles with low water absorption $E_b \leq 0,5\%$

PRODUCT: TRAVERTINO NAVONA BIANCO 60X120 NAT (natural)

RET

TIPOLOGY: PORCELAIN TILE

SIZE: 60X120 60X60

CODE: 21823E



| Characteristics | Test as per | Results |
|--|---|-------------------------------------|
| Physical | | |
| Water Absorption (%E) | ISO 10545-3 NBR 13818 - annex: B ($E \leq 0,5\%$) | 0,5 |
| Coefficient of Linear Thermal Expansion 50 at 500°C (°C ⁻¹) | ISO 10545-8 NBR 13818 - annex: K | $\alpha = 68 \pm 2,0 \cdot 10^{-7}$ |
| Modulus of Breaking Strength (MPa) | ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 37) | 37 |
| Breaking Load (N) | ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 1500) | 1800 |
| Moisture Expansion (mm/m) | ISO 10545-10 NBR 13818 - annex: J | 0,1 |
| Resistance to Deep Abrasion (mm ³) | | NA |
| Crazing Resistance | ISO 10545-11 NBR 13818 - annex: F | Resist |
| Resistance to Thermal Shock | ISO 10545-9 NBR 13818 - annex: L | Resist |
| Chemical | | |
| Resistance to Stains | | |
| Green staining agent in light oil | | 5 |
| Red staining agent in light oil | | 5 |
| Iodine | ISO 10545-14 NBR 13818 - annex: G (Minimum: 3) | 5 |
| Olive Oil | | 5 |
| Chemical Resistance | | |
| Hydrochloric Acid 3% (v/v) | | A |
| Potassium Hydroxide 30g/L | | A |
| Citric Acid 100g/L | | A |
| Lactic Acid 5% (v/v) | | A |
| Hydrochloric Acid 18% (v/v) | ISO 10545-13 NBR 13818 - annex: H (Minimum: B) | A |
| Potassium Hydroxide 100g/L | | A |
| Ammonium Chloride 100g/L | | A |
| Sodium Hypochloride 20mg/L | | A |
| Thermal | | |
| System * | | |
| Dynamic Coefficient of Friction | | |
| Dry Surface | NBR 13818 - annex: N Method: TORTUS III (Minimum Average Value) | 0,5 |
| Wet Surface | | 0,4 |
| Wet Surface | ANSI A137- Section 9.6 (Minimum Average Value 0,42) | 0,6 |
| Recommendations for Use | | |
| CL RE FA | | |
| Recommendation for Application | | |
| Wet areas (according to NBR 15575) WHOSE CONDITION OF USE AND EXPOSURE MAY RESULT IN THE FORMATION OF WATER BLADE FOR THE NORMAL USE WHICH THE ENVIRONMENT IS INTENDED FOR: INTERNAL RESIDENTIAL ENVIRONMENTS, COVERED BALCONIES, CONDOMINIUM HALLS, BATHROOMS WITH SHOWERS. | | |

* If properly installed according to ABNT NBR 13.753.

** For traditional structures of reinforced concrete according to NBR 6118 does not interfere significantly in the system results. For other types of structure, should proceed with testing on-site or prototype according to NBR 15.575.

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Please note, all specifications have been supplied by the manufacturer and are subject to change.

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