

# BELLO AGATA 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:** AGATA NACRE 60X120 NAT  
(natural) RET

**TIPOLOGY:** PORCELAIN TILE

**SIZE:** 60X120

**CODE:** 23692E



Characteristics	Test as per	Results
<b>Physical</b>		
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 <sup>-1</sup> )	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: $\geq 37$ )	37
Breaking Load (N)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: $\geq 1500$ )	1800
Moisture Expansion (mm/m)	ISO 10545-10 NBR 13818 - annex: J	0,1
Resistance to Deep Abrasion (mm <sup>3</sup> )		NA
Crazing Resistance	ISO 10545-11 NBR 13818 - annex: F	Resist
Resistance to Thermal Shock	ISO 10545-9 NBR 13818 - annex: L	Resist
<b>Chemical</b>		
<b>Resistance to Stains</b>		
Green staining agent in light oil		3
Red staining agent in light oil		3
Iodine	ISO 10545-14 NBR 13818 - annex: G (Minimum: 3)	5
Olive Oil		5
<b>Chemical Resistance</b>		
Hydrochloric Acid 3% (v/v)		A
Potassium Hydroxide 30g/L		A
Citric Acid 100g/L		A
Lactic Acid 5% (v/v)	ISO 10545-13 NBR 13818 - annex: H (Minimum: B)	A
Hydrochloric Acid 18% (v/v)		A
Potassium Hydroxide 100g/L		A
Ammonium Chloride 100g/L		A
Sodium Hypochloride 20mg/L		A

<b>Thermal System *</b>		
<b>Dynamic Coefficient of Friction</b>		
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**  
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**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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