

# BELLO MIDNIGHT BLACK 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:** BLACK 120X120 Polish Rectified

**TIPOLOGY:** PORCELAIN TILE

**SIZE:** 120X120

**CODE:** 28203E

Characteristics	Test as per	Results
<b>Physical</b>		
Water Absorption (%E)	ISO 10545-3 NBR 13818 - annex: B ( $E \leq 0,5\%$ )	0,5
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: $\geq 1500$ )	2500
Moisture Expansion (mm/m)	ISO 10545- 10 NBR 13818 - annex: J	0,1
Resistance to Deep Abrasion (mm3)	NA	NA
Crazing Resistance	ISO 10545-11 NBR 13818 - annex: F	Resist
Frost Resistance	ISO 10545-12 NBR 13818 - annex: M	NA
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		5
Red staining agent in light oil		5
Iodine	ISO 10545-14 NBR 13818 - annex: G (Minimum: 3)	5
Olive Oil		5
<b>Chemical Resistance</b>		
Hydrochloric Acid 3% (v/v)		B
Potassium Hydroxide 30g/L		B
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)	B
Potassium Hydroxide 100g/L		B
Ammonium Chloride 100g/L		A
Sodium Hypochloride 20mg/L		A
<b>Coefficient of Friction</b>		
Dry Surface	NBR 13818 - annex: N Method: TORTUS III ( Value $\geq 0,4$ )	0,4
Wet Surface		0,3
Wet Surface	ANSI A137, Section 9.6 (Minimum Average Value 0,42)	0,4
<b>Local of Use</b>		
RE - Residential		