

PRODUCT CERTIFICATE

Finished Product Laboratory

ISO 13006-10545

Equivalent to the Brazilian Norm NBR 13818

Dry-pressed ceramic tiles Eb > 10% Group BIII

PRODUCT: GAP BLACK BR 30X60 BRILHO
RET

TIPOLOGY: Wall

SIZE: 30X60

CODE: 27208E

LINE: AZULEJA



Characteristics	Test as per	Results
Physical		
Water Absorption (%E)	ISO 10545-3 NBR 13818 - annex: B (Eb > 10%)	>10
Coefficient of Linear Thermal Expansion 50 at 500°C (°C ⁻¹)	ISO 10545-8 NBR 13818 - annex: K	$\alpha = 62 \pm 2,0 \times 10^{-7}$
Modulus of Breaking Strength (MPa)	ISO 10545-4 NBR 13818 - annex: C (Average: ≥ 15)	15
Breaking Load (N)	ISO 10545-4 NBR 13818 - annex: C (Average: ≥ 600)	600
Moisture Expansion (mm/m)	ISO 10545- 10 NBR 13818 - annex: J	0,4
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	Not Resist
Chemical		
Resistance to Stains		
Green staining agent in light oil		5
Red staining agent in light oil	ISO 10545-14 NBR 13818 - annex: G (Minimum: 3)	5
Iodine		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)	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

Thermal System *		
Dynamic Coefficient of Friction		
Dry Surface	NBR 13818 - annex: N Method: TORTUS III (Minimum Average Value)	NA
Wet Surface		NA
Wet Surface	ANSI A137. Section 9.6 (Minimum Average Value 0,42)	NA

Recommendations for Use

RI

Recommendation for Application

Wall coating

* 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.

Tijucas, 05/02/2018



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