



Technical Specifications

ABNT NBR ISO 13006

Dry-pressed ceramic tiles with low water absorption
 $0,5\% < E_v \leq 3,0\%$ Group BIb

Voila Marine

Line Voila

Tipology	Code	
	210559E	
Size (cm)	Thickness (mm)	Work Size (cm)
20X20	7.00	20X20
Edge	Surface	Tonality Variation
Bold	Natural	V4

Physical Property

Water Absorption (%)
Modulus of Breaking Strength (N/mm ²)
Breaking Load (N)
Moisture Expansion (mm/m)
Crazing Resistance
Frost Resistance
Resistance to Thermal Shock

Test Standards

ISO 10545-3
ISO 10545-4
ISO 10545-4
ISO 10545-10
ISO 10545-11
ISO 10545-12
ISO 10545-9

Results

3,0
38
1000
0,1
RESIST
RESIST
RESIST

Chemical Property

Resistance to Staining

Glazed Tiles

Test Standards

ISO 10545-14

Results

5

Resistance to Chemicals

Resistance to low concentrations of acids and alkalis
Resistance to household chemicals and swimming pool salts

ISO 10545-13
ISO 10545-13

LA
A

Coefficient of Friction

Dry Surface
Wet Surface
Wet Surface

Test Standards

ABNT NBR 16919
ABNT NBR 16919
ANSI A326.3

Results

0,5
0,4
0,43

Dimensions and surface quality

Length and width (mm)
Width (mm)
Thickness (mm)
Straightness of sides (mm)
Rectangularity (mm)
Surface flatness (mm)
Surface quality (%)

Test Standards

ISO 10545-2
ISO 10545-2
ISO 10545-2
ISO 10545-2
ISO 10545-2
ISO 10545-2
ISO 10545-2

Results

± 1,20
± 1,20
± 0,35
± 1,00
± 1,00
± 2 mm
≥ 95

Local of Use

RE - Residential FA - Facade

Settlement

Dry Internal Walls Joint
Wet Internal Walls Joint
External Walls Joint - Facade
Floor joint

Recomendado

2 mm
2 mm
2 mm
2 mm

Reaction with fire: Ceramic coatings are sintered at high temperatures and therefore do not present in their final composition organic or volatile compounds of any nature, classifying them as Class I - non-combustible.

Portobello

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