

# Technical Specifications

## ABNT NBR ISO 13006

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

## Michelangelo

Line Timeless

Tipology

**Glazed  
Porcelain Tile**

Code

**29120E**

Size (cm)

**60X120**

Thickness (mm)

**9.00**

Work Size (cm)

**59,85X119,85**

Edge

**Rectified**

Surface

**Natural**

Tonality Variation

**V2**

### Physical Property

Physical Property	Test Standards	Results
Water Absorption (%)	ISO 10545-3	0,5
Modulus of Breaking Strength (N/mm <sup>2</sup> )	ISO 10545-4	35
Breaking Load (N)	ISO 10545-4	1500
Moisture Expansion (mm/m)	ISO 10545-10	0,1
Crazing Resistance	ISO 10545-11	RESIST
Frost Resistance	ISO 10545-12	RESIST
Resistance to Thermal Shock	ISO 10545-9	RESIST

### Chemical Property

#### Resistance to Staining

Chemical Property	Test Standards	Results
Glazed Tiles	ISO 10545-14	4

#### Resistance to Chemicals

Resistance to low concentrations of acids and alkalis	ISO 10545-13	LA
Resistance to household chemicals and swimming pool salts	ISO 10545-13	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

± 1,00
± 1,00
± 0,45
± 0,80
± 1,50
± 1,8 mm
≥ 95

## Local of Use

CI - Commercial Light | RE - Residential | FA - Facade

## Settlement

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

## Recomendado

1,5 mm
1,5 mm
1,5 mm
1,5 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

Portobello SA - Fábrica | contato@portobello.com.br  
SAC: 800 648 2002 1 BR 101 - Km 163 - Cx. Postal 15  
Tijucas/SC - Brasil - 88200-000

