

Model: LIEM BLACK NATURE 160X320(6)(A)

Codes: 100335738

Absorption: Bla - Porcelanico ( $E \leq 0.1\%$ )

Family: LIEM

Tone variations: V3



### DIMENSIONAL FEATURES

UNE-EN ISO 10545-2

Length	3200 MM	
Thickness	6 MM	
Width	1600 MM	
Length and width deviation	Below 0.20%	+/-0.3%*
Side straightness deviation	Below 0.15%	+/-0.3%*
Squareness deviation	Below 0.20%	+/-0.3%*
Surface flatness deviation	Below 0.20%	+/-0.4%*

\*ISO-13006:2015 UNE-EN 14411:2017

### MECHANICAL FEATURES

UNE-EN ISO 10545-4-6-7-11

Breaking strenght	>1100 N	
Modulus of rupture	>45 N/MM2	
Abrasion resistance	<140 MM3	

\*ISO-13006:2015 UNE-EN 14411:2017

### HYGIENIC FEATURES

UNE-EN ISO 10545-13-14

Chemical resistance	CLASE A	
Stain resistance	5	
Climate shock test. resistance index	RESISTE	
Flammability	A1	

\*ISO-13006:2015 UNE-EN 14411:2017

### ANTI-SLIP VALUE

CEN/TS 41901/02, DIN-51130 y ASTM A137.1

Dynamic coefficient of friction	> 0.42	
Slip resistance (pendulum-wet)	CL1	
Pendulum test value (ptv)	DRY>36-LOW_WET>24-MOD.	
Slip resistance (pendulum-dry)	>40	

\*ISO-13006:2015 UNE-EN 14411:2017

### ADDITIONAL NOTES

Avoid direct access from the outside if no abrasive protection device is provided.

Certified company



Do not use cleaning agents containing hydrofluoric acid.

It is recommended to fix tiles with a minimum joint of 1,5 mm. Do not fix without joint.

For big sizes, it is recommended to fix with mortars containing polymeric additives and to use the double glueing technique.

Mosaic tiles must be grouted.

This document is only commercial and cannot be used as expert opinion, documentary evidence or in any legal or administrative procedure unless authorized by URBATEK S.A.

In its polished finish, due to high gloss, light reflection can create optical effects that resemble stains. In no case they do not comply with the ISO 13006 product standard.

Being the ceramic material that most resembles natural stone, it can show slight variations in shade, color spots and vein among pieces.

#Refer to section 4 of the support document DB/SUA 3. This material can be installed in public, dry areas with a slope under 6% (it gets the same classification as a Class 1 according to wet pendulum).

## PACKING

Sales units per box	5.12 M2/BOX
Sales units per pallet	215.04 M2/PAL
Sales units per unit	5.12 M2/PIECE

## SCOPE OF USE

Technical code-1	4 - Light Transit with Direct Access to the Outdoors
Technical code-2	1 - Dry interior floors

## RECOMMENDED USE LOCATIONS

**Single-family dwelling**

Outdoor Premises: Porches, verandah, terrace, outdoor access or circulation area

Indoor Premises - Dry: Entrance and other enclosures with direct opening to the outside (garden, terrace, storage room).

Indoor Premises - Dry: Individual staircase

Indoor Premises - Wet: Kitchen, mini kitchen in living area, laundry room

Indoor Premises - Humid: Bathroom or Toilet

**Collective housing**

Outdoor premises: Balconies, terraces, galleries (not accessible from the outside)

Indoor Premises - Common Elements: Stairs and corridors with or without lifts

Indoor Premises - Common Elements: Meter centralisation room

Indoor Premises - Common Elements: Storage rooms for children's cars, bicycles, etc.

Indoor Premises - Dwelling - Damp: Kitchen, mini kitchen and living area, laundry room

Indoor Premises - Dwelling - Damp: Bathrooms or shower rooms

**Public Residential**

Single or double rooms

Group rooms

Intensive use dormitories in residences, schools, etc.

**Administrative**

Office with workstation

Collective office, open plan office

Meeting/conference room, shops and retail (sales area)

**Commercial**

Shops and retail trade (Sales area)

**Teacher**

Pre-school and Primary: Classroom without direct opening to the exterior

Infant and Primary: Playroom, exercise, multi-purpose room without direct opening to the outside.

Secondary, Baccalaureate and University: Other laboratories (physics, electricity, radiation, mechanics).

**Sanitary**

Single-user room, isolation room

Collective room

Major and minor operating theatres. Operating theatres

Radiological premises

Rehabilitation, massage, therapy and rehabilitation centres

Laboratories (no public access)

**Public attendance**

Catering: Dining room, company cafeteria

Libraries and reading rooms: Libraries, reading rooms, houses of worship, museums (Internal use)

**Service, facilities**

Toilets in office areas, restricted use

Sanitary premises special hygiene (hospitals, food)

Premises for telephone, computer and other dry installations

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