

Model: LIEM BLACK POLISHED 160x320(6)(A)**Codes:** 100339951**Absorption:** Bla - Porcelanico (E<=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% <i>+/-0.3%*</i>
Side straightness deviation	Below 0.15% <i>+/-0.3%*</i>
Squareness deviation	Below 0.20% <i>+/-0.3%*</i>
Surface flatness deviation	Below 0.20% <i>+/-0.4%*</i>

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

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

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

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

HYGIENIC FEATURES UNE-EN ISO 10545-13-14

Chemical resistance	MIN B
Stain resistance	5
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)	CLO
Resistance to cleaning products	APTO
Pendulum test value (ptv)	DRY>36-LOW_WET<25-HIGH
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	3 - Light traffic with no direct access to the outside
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: 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

Administrative

Office with workstation

Sanitary

Single-user room, isolation room

Collective room

Laboratories (no public access)

Service, facilities

Toilets in office areas, restricted use

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).