

Model: LIEM DARK NAT. (S/R) 160X320 (20)(A)

Codes: 100323699

Absorption: Bla - Porcelanico (E<=0.1%)

Family: LIEM

Tone variations: V3



**DIMENSIONAL FEATURES**  
UNE-EN ISO 10545-2

Length	3200 MM	
Thickness	20 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	>11000 N	
Modulus of rupture	>40 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	
Resistance to cold food products	SUITABLE	
Resistance to hot food products	SUITABLE	
Fastness to rubbing	SUITABLE	
Dimensional stability at elevated temperature	COMPLIANT	
Climate shock test. resistance index	RESISTS	
Flammability	A1	

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

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).

## ANTI-SLIP VALUE

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

Dynamic coefficient of friction	> 0.42	
Slip resistance (pendulum-wet)	CL1	
Resistance to bacteria	SUITABLE	
Resistance to cleaning products	SUITABLE	
Resistance to bathroom cleaning products	SUITABLE	
Resistance to cigarette burns	SUITABLE	
Pendulum test value (ptv)	DRY>36-LOW_WET>24-MOD.	
*ISO-13006:2015 UNE-EN 14411:2017		

## PACKING

Sales units per box	5.12 M2/BOX	
Sales units per pallet	61.44 M2/PAL	
Sales units per unit	5.12 M2/PIECE	

## SCOPE OF USE

Technical code-1	1 - Coating	
Technical code-2	1 - Dry interior floors	

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).