

**RAK**  
CERAMICS



**LUCE**

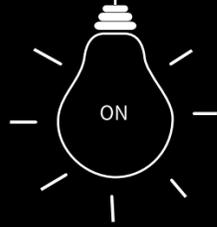
**ROOM FOR  
IMAGINATION**

**RAK**  
CERAMICS

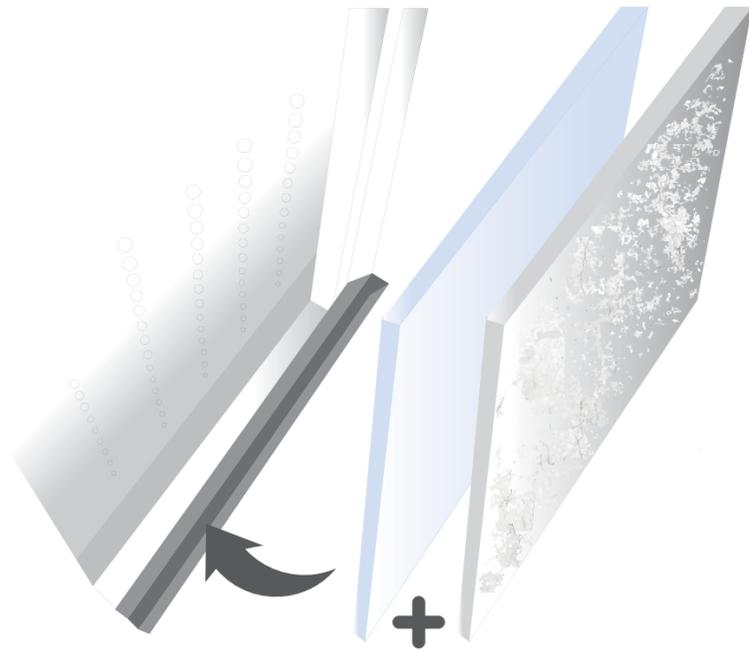


## LUCE

Light becomes a design tool in the hands of the designer and through elegant surfaces contributes to enrich special environments, making them magical. This is what makes the new Maximus Luce slabs a stunning centerpiece for your design concept and amaze when enhanced with backlighting technology. An absolute novelty that will inspire your creativity. 7 different graphics and colors in marble and onyx effect, that replicate the natural ability of the stones to filter the light. Hotels, restaurants, offices, shops and sophisticated residential environments. Light up your projects with Maximus Luce.



# INSTALLATION SUGGESTIONS AND RECOMMENDATIONS



1. Create a niche in the wall in order to have an empty space to allocate the LED strip light or the light box.
2. We recommend to use a neutral LED COLOR (3600K-5500K) and to fix the LED strips vertically or horizontally, covering the full space of the niche, in order to avoid dark areas and to get a homogeneous light.
3. Deeply clean the back of the slabs before the installation in order to avoid seeing any shadow.



9.00 AM

12.00 PM

5.00 PM

9.00 PM

## HOW TO FIX THE SLABS:

### 1. DIRECTLY ON LED

We recommend this option only in the case of the installation of a single slab or a cut piece.

- Fix the led strip lights on a white wall.
- Keep a gap of 4-6 cm between the LED strips and the slab in order to avoid seeing the dots of the LED strip light through the slab.
- Fix the slab on the perimeter of the frame of the niche
- Use a transparent adhesive according to the specifications indicated in the technical data sheet of the chosen adhesive.
- Do not spread the adhesive in the central area of the slab.
- Fix a frame or profile on the perimeter of the slab (top, down, left and right at your choice), in order to secure the slab and to cover the shadows of the adhesive if visible.

### 2. ON A TRANSPARENT HARD SURFACE (GLASS, THICK PLEXIGLASS OR LIGHT BOX)

We recommend this option in case of the installation of multiple slabs or cut pieces in order to avoid bending or visible interruptions. We also recommend this option when you need to install a single slab in a more stable and secure way.

- Fix the LED strip lights or the light box on a white wall.
- If you chose the led strip option, fix the glass, or the Plexiglas surface at a minimum distance of 2-4 cm from the LED strip lights in order to avoid seeing the dots of the LED strip through the slab.
- Deeply clean the glass, or the Plexiglas, or the light box surface before the application of the adhesive.
- Use a transparent adhesive according to the specifications indicated in the technical data sheet of the chosen adhesive.
- Evenly spread the adhesive on the back of the slab by using a spatula in order to get a homogeneous layer of adhesive. Do not use rolls or other tools in order not to have a visible layer of adhesive.
- Fix a frame or profile on the perimeter of the slab (top, down, left and right at your choice), in order to secure the slabs.



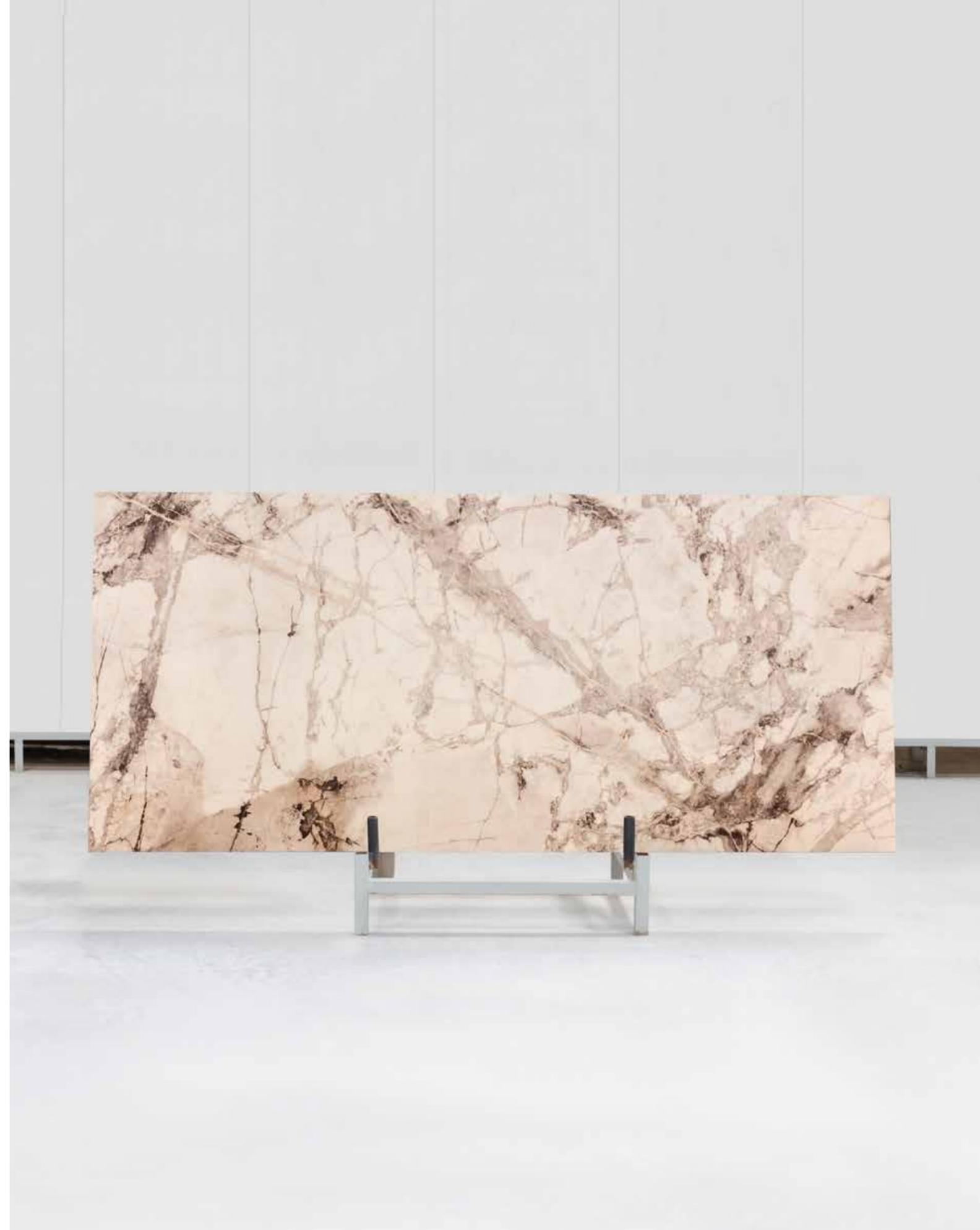
### LUCE, A SUPERIOR PRODUCT:

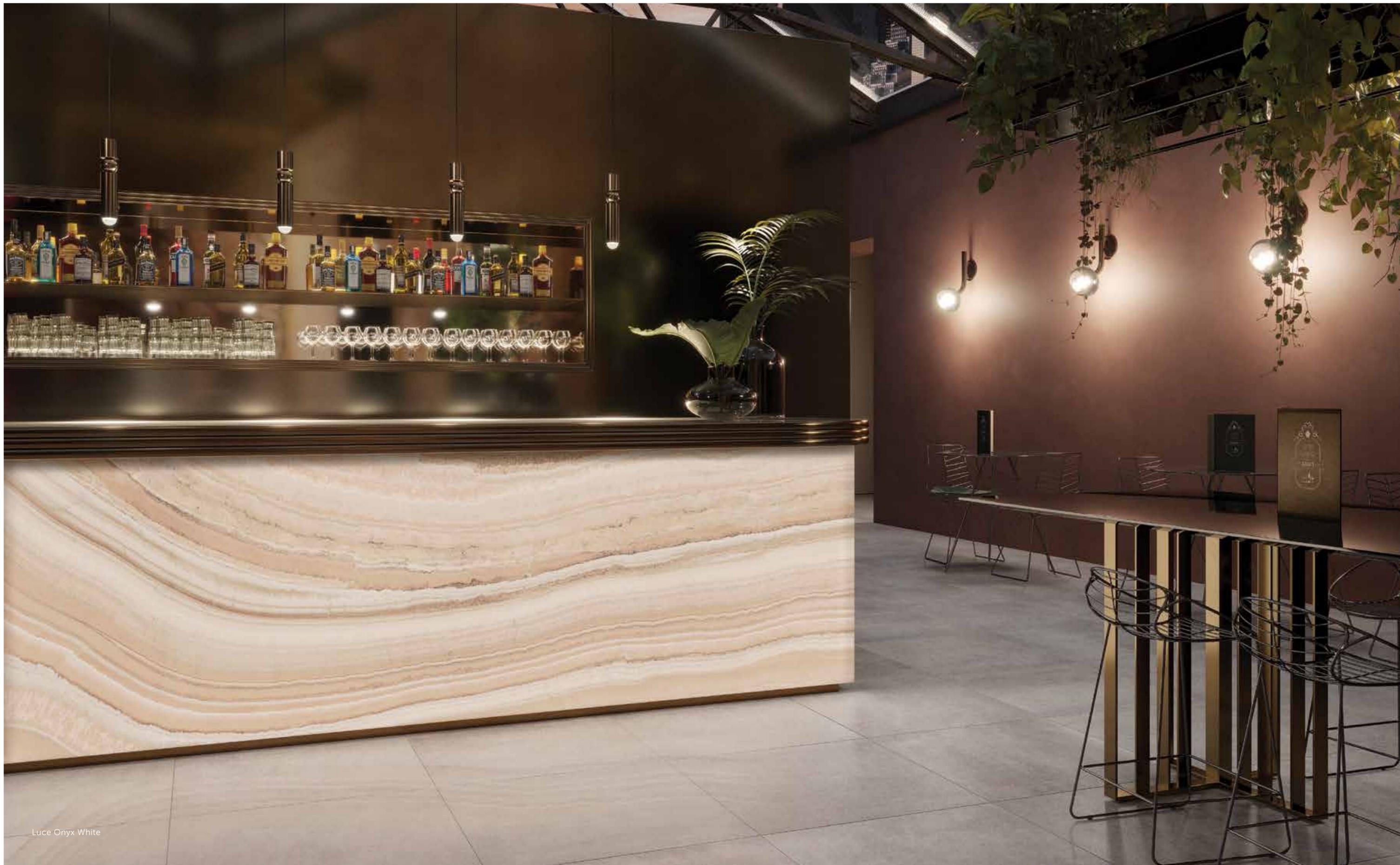
The translucent body of Luce is made with a very high purity of raw materials containing special and high quality clays and feldspars.

As the body is pure white, the ink development is more advanced than other products.

Luce has a lower kiln cycle and temperature than conventional porcelain products.

When illuminated, Luce's special body gives a soft glow and really transforms the design from a plain tile to a soft natural marble.





Luce Onyx White



Luce Marble White





Luce Onyx Arco Red

**LUCE**

Porcelain Tiles  
Full Lappato

120x260 cm  
47.24"x102.36"  
6 mm

luce onyx white



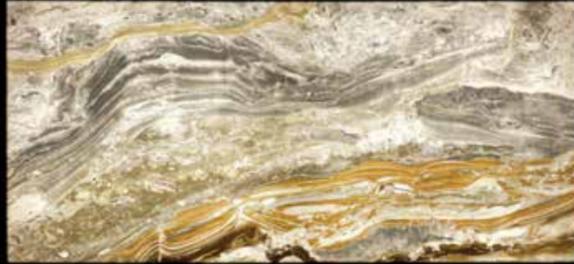
SIZES (cm / inches)	THICKNESS (mm)	CODE
120x260 / 47.24"x102.36"	6	ATB62LUCEONYZHSC6P

luce onyx ivory



SIZES (cm / inches)	THICKNESS (mm)	CODE
120x260 / 47.24"x102.36"	6	ATB62LUCEOIVZHSC6P

luce onyx harlequin



SIZES (cm / inches)	THICKNESS (mm)	CODE
120x260 / 47.24"x102.36"	6	ATB62LUCEOHNZHSC6P

luce onyx arco red



SIZES (cm / inches)	THICKNESS (mm)	CODE
120x260 / 47.24"x102.36"	6	ATB62LUCEOARZHSC6P

luce onyx green jade



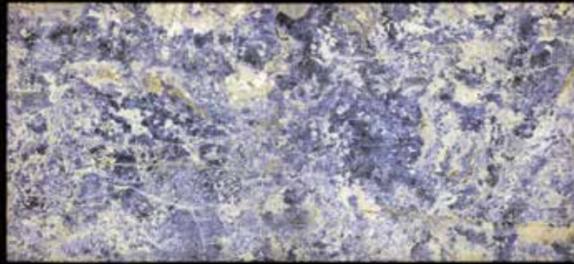
SIZES (cm / inches)	THICKNESS (mm)	CODE
120x260 / 47.24"x102.36"	6	ATB62LUCEOJZHSC6P

luce marble white



SIZES (cm / inches)	THICKNESS (mm)	CODE
120x260 / 47.24"x102.36"	6	ATB62LUCEMARZHSC6P

luce bahia azul



SIZES (cm / inches)	THICKNESS (mm)	CODE
120x260 / 47.24"x102.36"	6	ATB62LUCEBAZZHSC6P

Technical specifications - Porcelain Tiles (natural)

TEST DESCRIPTION	STANDARD TEST METHOD	STANDARD REQUIREMENTS	RAK CERAMICS SPECIFICATION
Surface Quality	BS EN ISO 10545-2	a minimum of 95% of the tiles are to be free from visible defects	Minimum of 95% of the tiles are free from visible defects
Length & Width	BS EN ISO 10545-2	± 1.0mm	± 0.1mm
Thickness	BS EN ISO 10545-2	± 0.5mm	± 0.5mm
Straightness Of Sides	BS EN ISO 10545-2	± 0.8mm	± 0.8mm
Rectangularity	BS EN ISO 10545-2	± 1.5mm	± 1.2mm
Surface Flatness: Centre Curvature	BS EN ISO 10545-2	± 1.8mm	± 1.8mm
Surface Flatness: Edge Curvature	BS EN ISO 10545-2	± 1.8mm	± 1.5mm
Surface Flatness: Warpage	BS EN ISO 10545-2	± 1.8mm	± 1.5mm
Water Absorption	BS EN ISO 10545-3	≤ 0.5%	≤ 0.4%
Breaking Strength*	BS EN ISO 10545-4	≥ 700 N	≥ 700 N
Modulus Of Rupture*	BS EN ISO 10545-4	≥ 35 N/mm <sup>2</sup>	≥ 35 N/mm <sup>2</sup>
Resistance To Surface Abrasion	BS EN ISO 10545-7	Report abrasion class	PEI CLASS 2-4
Coefficient Of Linear Thermal Expansion	BS EN ISO 10545-8	Test method available	≤ 7 X 10 <sup>-6</sup> /°C
Resistance To Thermal Shock	BS EN ISO 10545-9	Test method available	No visible defect
Crazing Resistance	BS EN ISO 10545-11	Required	No crazing
Frost Resistance	BS EN ISO 10545-12	Required	No visible damage
Resistance To Household Chemicals & Swimming Pool Salts	BS EN ISO 10545-13	Minimum Class B	Class A No visible effect
Resistance To Low Concentrations Acids & Alkalis	BE EN ISO 10545-13	Manufacturer to state classification	Class LA No visible effect
Resistance To Staining	BS EN ISO 10545-14	Minimum Class 3	Min. Class 4 Stains removed

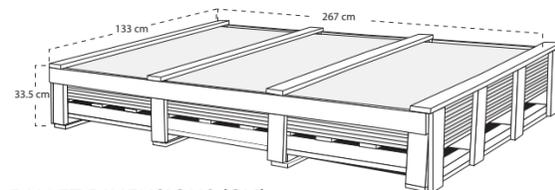
Note: This technical specifications are applicable only to tiles in choice "A".

\* Test performed using 60X60 cm cut pieces from the slab.  
\* Thickness is nominal

Packaging details

TILE THICKNESS: 6MM

TILE SIZE (CM)	TILE AREA (sqm)	KG per pc	PCS per pallet	TILE AREA per pallet (sqm)	WEIGHT per pallet (kg)
120x260	3.12	44	20	62.4	960
120x260	3.12	44	20	62.4	960



PALLET DIMENSIONS (CM)

LENGTH	HEIGHT	WIDTH
267	33.5	133
267	33.5	133

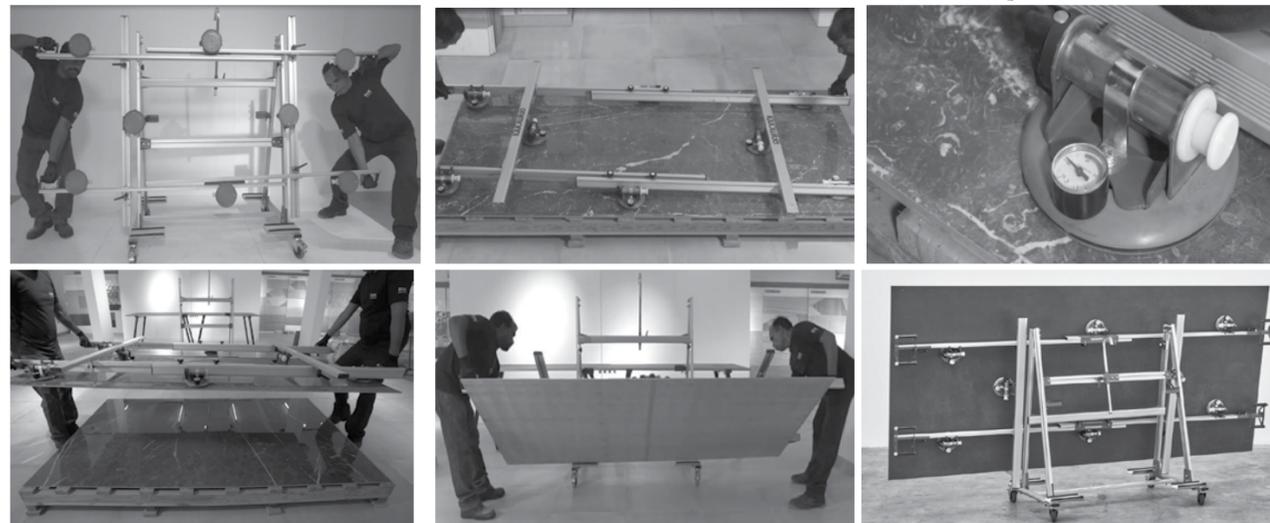
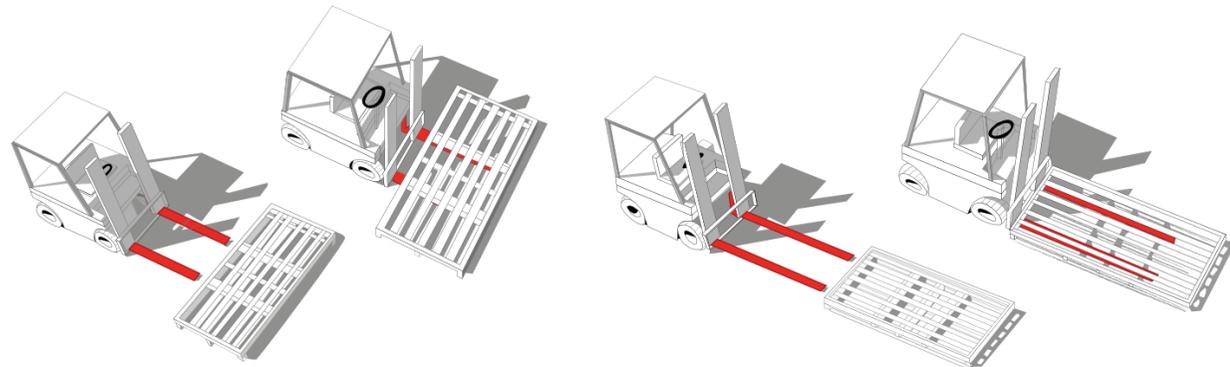
Suggested equipment

HANDLING EQUIPMENT	CUTTING AND DRILLING EQUIPMENT
Aluminum Parallel profile with crossbars and Suction Vacuum suction cups with vacuum gauge	Compass device with suction cups for Circular Cuts
Tile Cart Trolley	Free cut guide with complete outfit Max. Cut of length – 156 cm
Double Suction Cups	Free Cut Extension
Modular Work Bench BM180	Cutting off pliers for tile/slabs
Modular Work Bench BM180 BM180 Plus ( Perfect Workstation for large format tiles up to 160cm width)	Diamond polishing pad
	Diamond for edge and side polishing
	Diamond Blades for simultaneous cutting and grooving
INSTALLATION AND LEVELLING EQUIPMENT	CLEANING AND MAINTENANCE
Compact Vibrator or Tile Beater	Brooms
RLS 3D Clips for tiles	Floats with abrasive pads
Wedges (for Anti-Chipping / Anti-Scratching preventing platforms)	
Adjustable pliers for wall and floor covering	
Low-speed mixer	
Rubber Grout floats	
Slant ridge notched trowel	
Diamond for edge and side polishing	

## TECHNICAL MANUAL

### Handling Maximus

- Maximus extra-large format slabs arrive in oversized crates, which require specific Handling equipment to prevent from damage occurring during forklift operation, specific fork sizes must be used. For example, to handle a crate of 135cm x 305cm tiles from the side, 112cm/ 44" long forks are recommended.
- To handle the same crate from the narrow end requires forks that are at least 213cm/ 84" long. Lifting multiple crates with longer forks may require forklifts with a greater lift capacity.
- Specialized tools and equipment are currently available for the handling, installation and cutting of large porcelain surfaces. Innovative trowels with unique notch configurations can help increase the consistency of the mortar coverage on the back of the tile.
- To increase rigidity and limit twisting, use a system composed of parallel and transverse guides.
- For a perfect adhesion clean the slab and the suckers with a damp sponge.
- The suckers run along the guides and adhere to the slab. Make sure that a vacuum is created between the device and the surface.
- A single guide device can be used for sizes of maximum length.
- Use four operators at a time to carry out handling operations of large size slabs.
- Lift the slab along the long side and hang it vertically to the handles of the frame.
- For the large size slab a suitably reinforced trolley is recommended. Set the guides to the trolley for carrying the slab.
- Follow the same procedure for handling the 120x240cm and all other sub-sizes, where only two operators are sufficient.



### Cut-to-pieces and drilling

- RAK Ceramics recommends the use of special designed devices for handling as well as cutting and laying of big slabs.
- Handle slab with a proper and professional trolley of aluminum parallel profile with crossbars and vacuum suction cups along with a vacuum gauge. Please use double suction cups for slabs above 300cm. This could make sure that appropriate vacuum is created between the device and the slab. Lift the slab and keep it vertically to the trolley frame.
- Keep the slab on a stable, flat and intractable surface. For successful cutting and drilling, RAK Ceramic recommend using a professional modular workbench with aluminum profiles and proper cutting tools for each type of cut.
- Set the cutting unit on the tile so that the references coincide with the marked lines and lock it with the appropriate suckers. Score the slab from one edge to the other, being carefully maintaining the same pressure while moving.
- When the cut has been made, move the slab until the slit line sticks out a 10 to 15 cm from the workbench. Start hew from both sides using appropriate cutting-off pliers and follow the scoring line to complete the hew.
- Smooth rough edges and sides with an appropriate diamond polishing pad.
- To drill internal cutouts from the slab, first you need to draw the guide lines. For circular cuts, use the compass device with suction cups. For rectangular cut, drill first a 5 – 7 mm hole at the corners of the rectangle shape, using a non-percussion drill. For a better drilling always, keep the surface and drill a little bit wet. Then Follow the drilled lines using a diamond-blade angle grinder and then finish off the edges with a diamond-polishing pad. Round holes (4) must be made in wet drilling, using diamond-blades. Start engraving the surface with a 75 degrees point angle, then straighten out the drill avoiding excessive pressure on the slab. Also, in this case finish with a diamond-polishing pad.
- Manual traction devices are available, in order to make a finishing cut at 45° and thus enable special applications of the material.



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