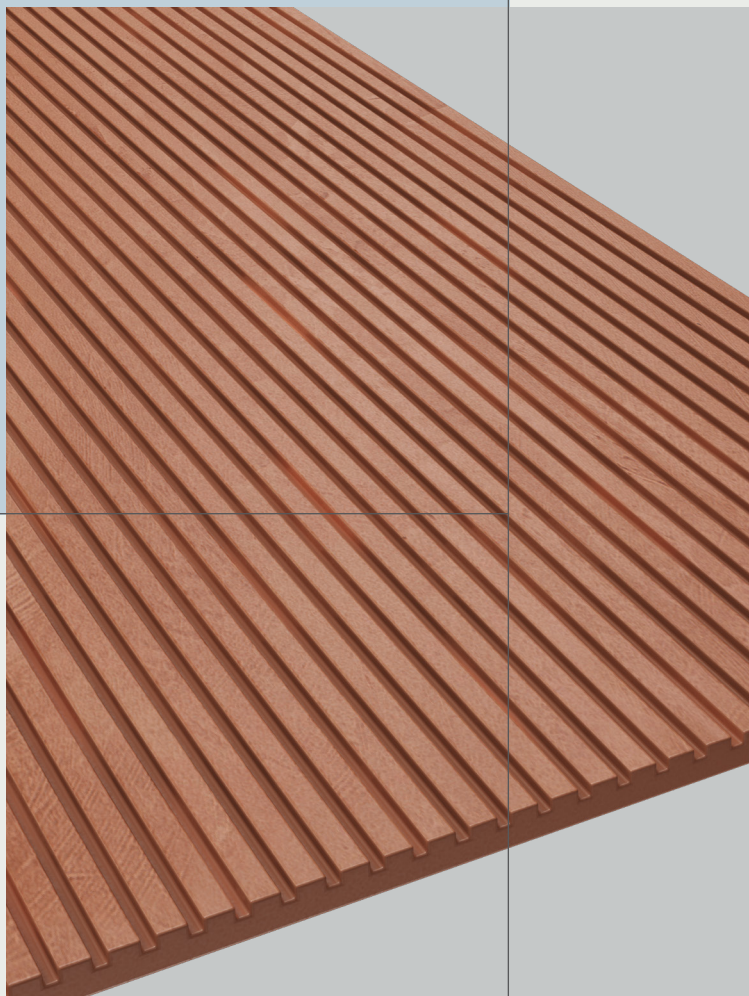


Design, installation, use and maintenance UKIYO

COSENTINO® SPACES
UKIYO. DESIGN, INSTALLATION,
USE AND MAINTENANCE



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Product description and features

Introduction

→ What is Dekton®?

Dekton®, the most technological ultra-compact stone.

Dekton® is our innovative ultra-compact surface.

Its exclusive production process and the sophisticated blend of more than 20 minerals extracted from nature give the surface unique aesthetic and functional characteristics.

→ What is UKIYO?

It is the **development of textures in Dekton®**, specially designed for use in **interior vertical cladding**.

Two types of grooving, in collaboration with designer **Claudia Afshar**, help create beautiful and unique spaces.

→ In which colors is UKIYO available?

UKIYO is available in **5 colors**: Bromo, Kreta, Nacre, Rem kC and Umber. In addition, for projects, it will be available in those colors with **Matte or Velvet** finish from the Dekton® portfolio.



→ (*) For other colors, check availability under minimum order of units with the Cosentino® Product Department.

Typologies

Which of these two texture patterns best suits your design?

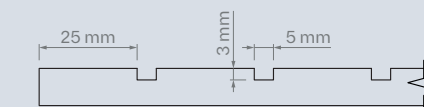
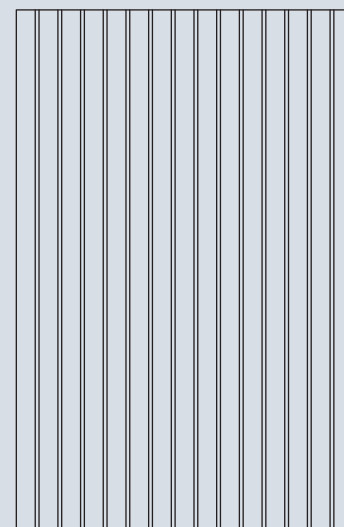
→ Ukiyo GV2

Dimensions

Panel width: 450 mm [17 2/3"].
Panel length: 3,000 mm [118"].

Thickness

8 mm | 12 mm.



25 mm [1"] | Groove: 5 mm [3/16"].
Depth of the groove: 3 mm [1/8"].
Number of surface grooves: 15.

The panel starts with a smooth finish and ends in a surface groove, facilitating the placement of one panel after another.

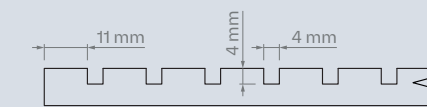
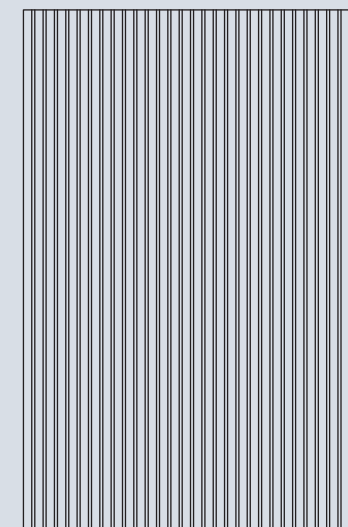
→ Ukiyo GV3

Dimensions

Panel width: 450 mm [17 2/3"].
Panel length: 3,000 mm [118"].

Thickness

12 mm.



11 mm [1"] | Groove: 4 mm [1/8"].
Depth of the groove: 4 mm [1/8"].
Number of surface grooves: 30.

The panel starts with a smooth finish and ends in a surface groove, facilitating the placement of one panel after another.

Recommended use and applications

→ This product is specially designed for vertical cladding application glued on continuous substrate for interior use.

→ NEVER use as a horizontal surface or in a ventilated facade.

→ Use in applications where the product is subjected to weathering or extreme environmental conditions is discouraged.

→ Similarly, it is advisable not to use in applications where the surface is constantly damp or wet, or in places where it may come into frequent contact with pigmented and/or oily products. Deterioration of the appearance of the product could occur, in particular, by the appearance of stains in the grooved area.

→ Once Dekton®UKIYO has been chosen as a cladding material, there are a number of factors that guarantee success in a vertical cladding intervention with cladding material:

- Correct choice of support, bonding and joint filling materials. Consult the Dekton® **Interior Cladding Quick Guide**.
- Complete design of the cladding, including the layout and sizing of joints.
- Adequate evaluation and preparation of the substrate. Consult the Dekton® **Interior Cladding Quick Guide**.
- Correct placement, following proper execution techniques and respecting the product manufacturers' application instructions.

→ Regarding the bonding material or adhesive, it is paramount, prior to placement, to consult with the selected local supplier and faithfully follow their product recommendations and application indications.

- In general, Cosentino® recommends an adhesive type C2TE S1 or S2, depending on the type of substrate on which the installation is to be carried out. Consult the **Approved Product Data Sheets** for recommended adhesives that Cosentino® has published.

On-site installation

Palletizing and transfer of material

To facilitate on-site stockpiling and transport, the Dekton®UKIYO panels are supplied in a vertical trestle type crate, protected from each other by cardboard separators, as shown in the attached images.



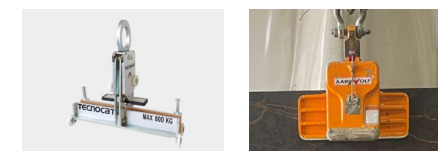
→ Panels with cardboard dividers on easel.



→ Finished and plasticized crate, ready for shipment.

Panels shall be handled vertically at all times, using "special porcelain tile tongs" with a minimum length of 400 mm [15 3/4"], for a maximum of two units at a time.

To avoid load balancing, the clamp shall be positioned in the central part of the panel.

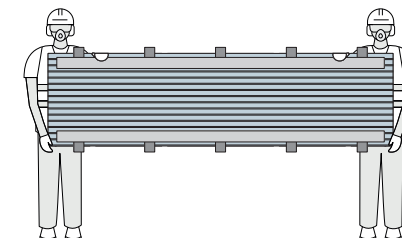


→ Examples of recommended clamp.

On-site handling and support equipment

The handling of large panels on site should be vertical at all times, using at least two operators.

It is recommended to use stiffeners, clamps and gap protectors (if necessary) for those panels that, due to their size or the size of the joints, are more fragile.



Due to the grooving characteristics of the panels, the use of suction cups is restricted, so special care must be taken in their handling, limiting the handling of panels manually between at least two people.

Recommendations for panel adjustment

Cosentino® supplies standard 118" x 17 2/3" [3,000 x 450 mm] panels. However, in order to make adjustments, cutting, drilling and machining can be performed, with the appropriate tools, to resolve stakes, corners, light boxes...

It is recommended to perform all operations on a continuous substrate of lower density than Dekton® (e.g. wood) to avoid possible chipping, scratching or rubbing.

→ Straight cut with disc and water supply.

The product contains crystalline silica. Avoid the formation of dust in suspension. The inhalable dust generated in its processing can cause serious diseases, such as silicosis or lung cancer. Use wet cutting with sufficient water supply. As an additional measure of individual protection, always use high efficiency particulate filtering face masks, type FFP3 or the equivalent according to local regulations.

Before starting, check that the following points are met:

- The workbench must be continuous, stable and level.
- Use cutting tools recommended by Cosentino®.
- Sharpen the tool frequently.

After the cut, use a polishing block to kill the resulting edges.

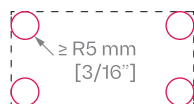


→ Straight cuts with water supply.

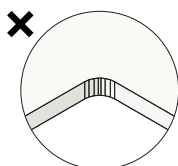
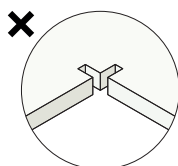
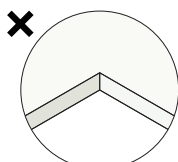
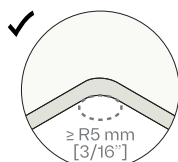
→ Shafts

For those panels that have recesses or corners, it will be necessary to carry out the pouring according to the following procedure:

1°
Pre-drilled holes of radius 5 mm [3/16"] minimum.



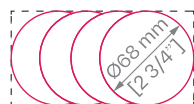
2°
Continuous straight cut with water supply.



→ Light boxes

For the realization of light boxes, the use of Ø68mm [2 3/4"] holes overlapping until the desired box size is achieved is recommended.

1°



2°



→ Production of light box with overlapping holes.

Dry straight cut

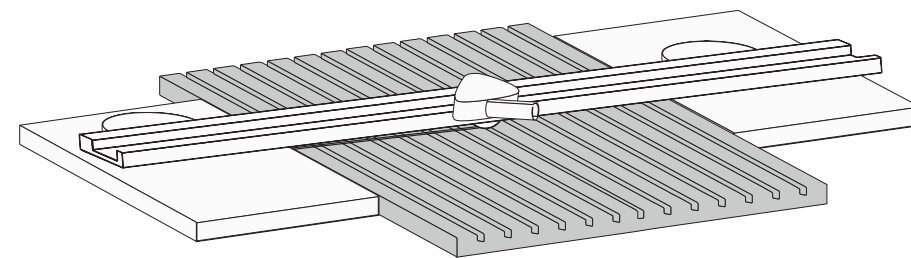
Dry cutting with a manual cutter (with diamond or tungsten wheel and guide) is possible by following these recommendations:

Limitations: This technique of cutting 8 and 12 mm panels is recommended for finishing walls and ceilings. We do not recommend this technique for making joints between panels due to the quality of the cut.

1. Short side cut (perpendicular to the beam)

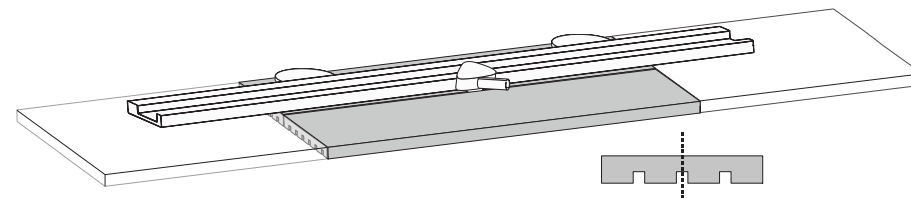
- The panel should be cut with the good side up.

- In order to fix the cutting guide with the suction cups, 2 unrigged pieces of the same thickness of the panel to be cut must be placed on each side of the panel.



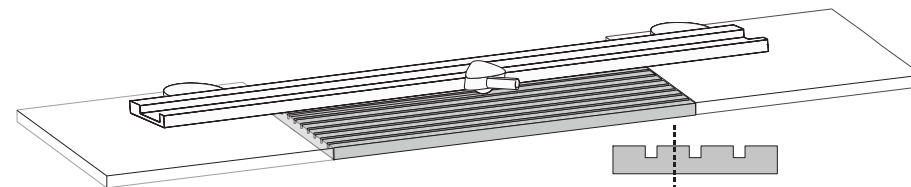
2. Cutting of the long side (in riga)

- The panel should be cut with the good side down.
- The suction cups of the guide can be fixed directly on the surface of the back side of the panel.

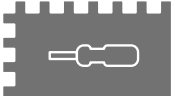


3. Cutting of the long side (plateau)

- The panel should be cut with the good side up.
- In order to fix the cutting guide with the suction cups, 2 unrigged pieces of the same thickness of the panel to be cut must be placed on each side of the panel.



Tools for processing and installation

			
→ Workbench.	→ Sergeants.	→ Flexometer.	→ Bubble level.
			
→ Drill and drill bits approved ⁽¹⁾ .	→ machine cut with guide ⁽¹⁾ .	→ Grinder ⁽¹⁾ .	→ Polishing block.
			
→ Stiffeners and clamps.	→ Adhesive recommended.	→ Plastic carrycot.	→ Mixing machine.
			
→ Trowel/spatula.	→ Serrated trowel.	→ Leveling kit.	→ Grout kit.
			
→ Water supply.	→ Recommended cleaner ⁽²⁾ .	→ Sponge for cleaning.	→ Manual Cutter

→ (1) Always use with localized suction/water supply.

→ (2) Refer to the "Use and maintenance" section.



→ Ukiyo Umber

Installation process and recommendations

1. Basic support requirements

Prior to any type of work, it is necessary to verify that:

- The substrate is dry.
- The holder is clean.
- The support is stable.
- The bracket is level.

If this is not the case, take the appropriate measures.

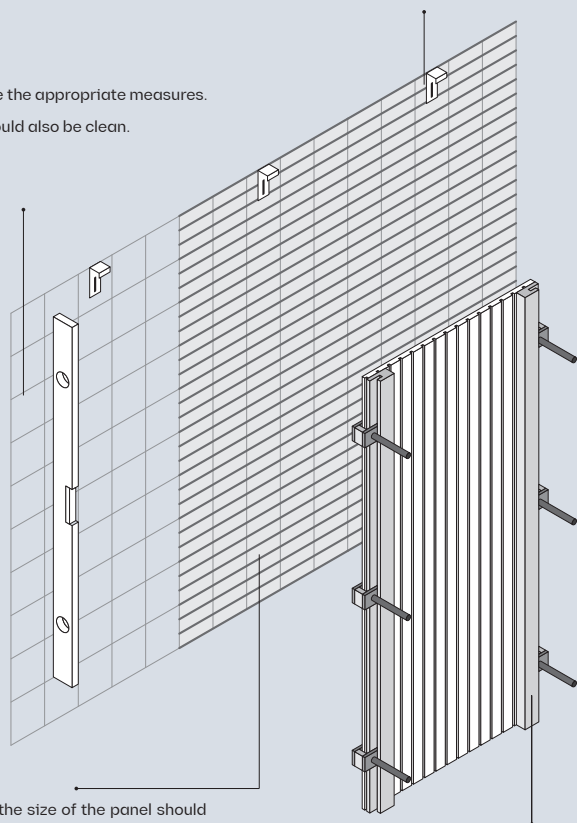
The back of the panel should also be clean.

2. Safety fasteners

Depending on local regulations and panel height, it may be necessary to install mechanical safety fasteners on the back of the panels.

These fixings can be of the visible or hidden type.

For further information and recommendations, please consult the Cosentino® **Product Department**.



3. Adhesive choice

The type of support and the size of the panel should be taken into account.

All instructions of the adhesive manufacturer/supplier must be checked and followed.

4. Panel handling on site

Always vertically, resting the panels on suitable material that does not cause chipping at the edges.

The use of stiffeners and clamps is recommended for those panels that, due to their size or large openings, are more fragile.

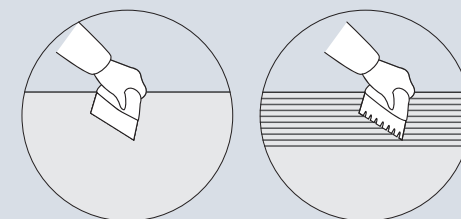
5. Double gluing

The "double gluing" technique (adhesive on the back of the panel and on the substrate) will be used for installation, ensuring perfect adherence to the panels and avoiding the formation of gaps.

Never apply the adhesive by "sticking" or "pinching".

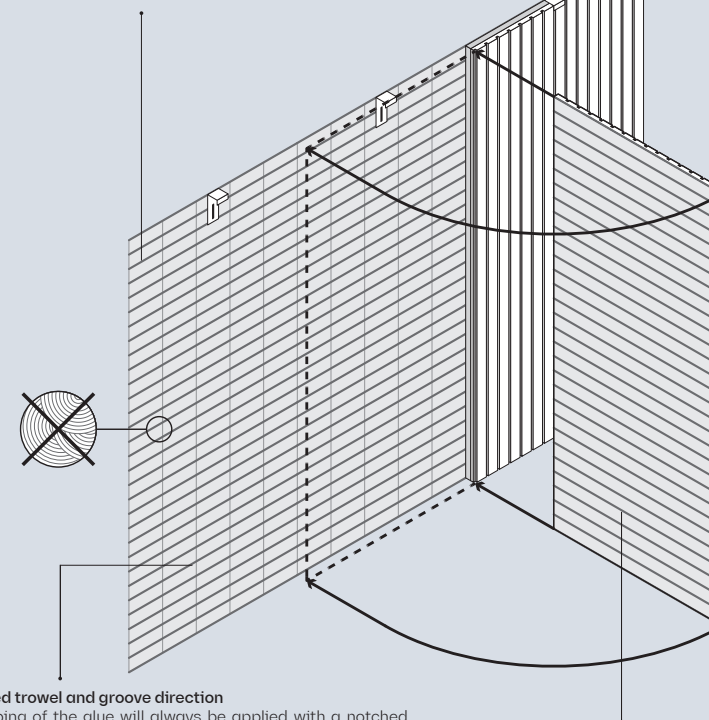
This technique allows a greater stress distribution, by ensuring the maximum possible contact surface (> 90%) between the substrate and the adhesive, and between the adhesive and the panel.

The application, both on the substrate and on the tile, would be according to the following schemes:



1. Application with the smooth side of the trowel.

2. Combing with the toothed part of the trowel.



6. Notched trowel and groove direction

The combing of the glue will always be applied with a notched trowel, defining its geometry according to the tile format, the substrate and the type of adhesive. This will ensure adequate thickness and good glue distribution over the entire surface, including the perimeters.

ADDRESS: In this case, the groove should be parallel to the short side of the panel, so that a sliding movement can be made, with the aid of the appropriate handling system, to help ensure the "flattening" of the grooves.

7. Panel placement

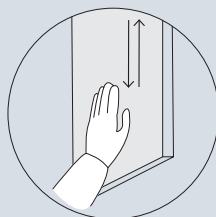
The placement of the panel shall be carried out using at least two operators and the necessary support tools.

8. Vibration after installation

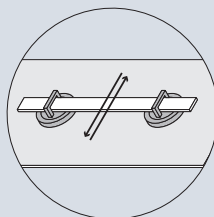
To facilitate air release and better contact between the panel and the substrate, post-installation vibration should be carried out and not "macerate", thus "flattening" the adhesive grooves and preventing air bubbles from forming behind the panel.

The vibration of the panel will be carried out according to the format used:

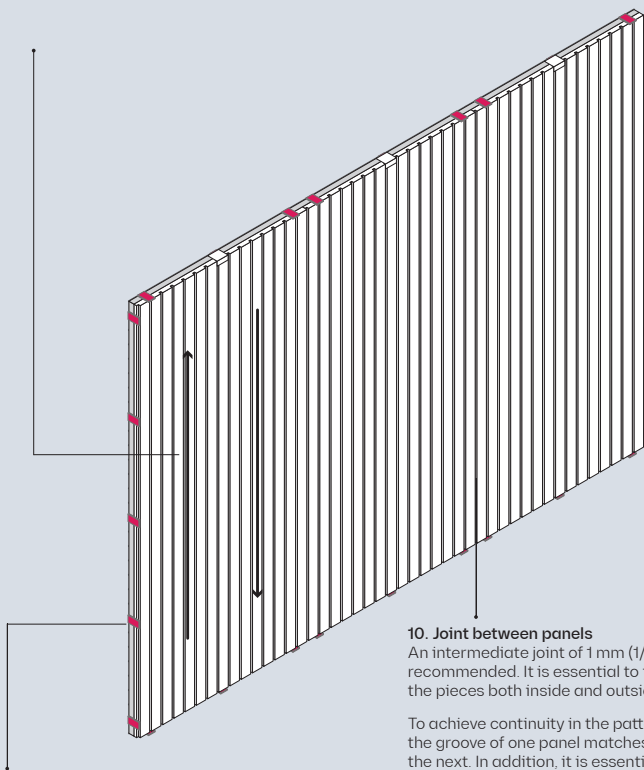
- Manually, for small format.
- Mechanically, for large format.



→ Manually,
for small formats.



→ Mechanically, for large
format.

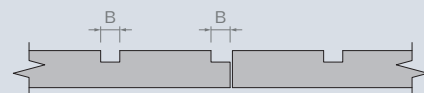


9. Joints with other elements

In any case, the following minimum joints must be respected:

- With soil ≥ 2 mm [$1/16$ "].
- With roof ≥ 4 mm [$1/8$ "].
- With sidewalls ≥ 4 mm [$1/8$ "].

In order to respect the joint widths stipulated above, the use of crossarms is recommended.



10. Joint between panels

An intermediate joint of 1 mm ($1/24$ ") between pieces is recommended. It is essential to install gaskets between the pieces both inside and outside.

To achieve continuity in the pattern, it is important that the groove of one panel matches the ungrooved part of the next. In addition, it is essential that the panels are not in direct contact with each other.

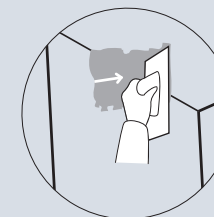
11. Grout material

For joint filling, the appropriate grout material (type CG2) and consistency should be selected and applied according to the manufacturer's instructions. A 2 mm ($1/12$ ") perimeter joint is recommended.

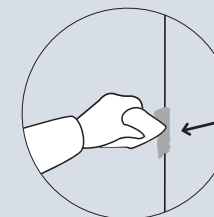
It is advisable to use a rubber trowel of the appropriate hardness for the joint width to spread the material diagonally to the direction of the joints.

On the joint, with the trowel or equivalent tool, the final texture and curvature will be made.

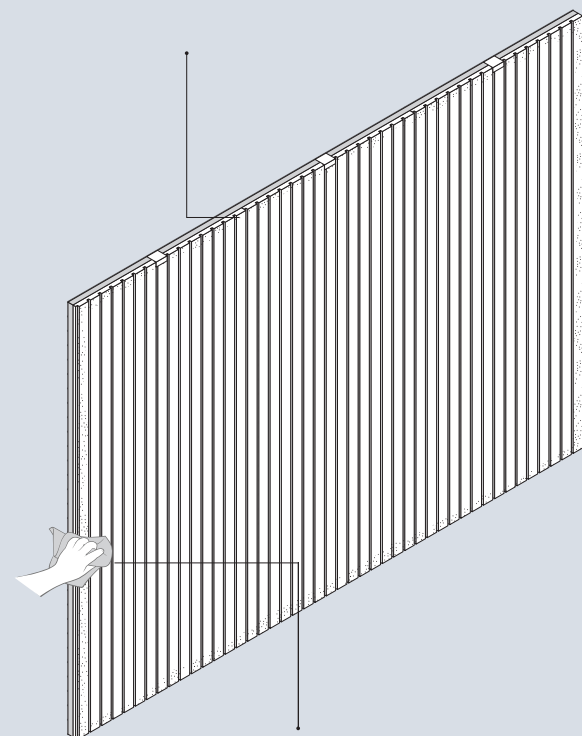
In some cases, flexible stainless steel spatulas or extruder guns can be used to apply the grout.



1. Application of
grouted with a trowel.



2. Realization of
curve and texture.



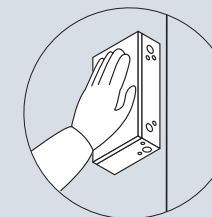
The panels are slightly wider (<1 mm) in the first and last 4-6 cm of the panel. This must be considered if a joint is to be made between panels, being necessary to cut and discard this fraction of material to ensure a perfect continuity between rigas of the two panels when making the joint.

12. Final cleaning

After installation, the surface usually shows traces of work in the form of a film or small accumulations of cement, lime, silicone, epoxy...

Therefore, a correct final cleaning of the work is necessary, according to the following process:

- a. Application of the acid descaling product (e.g. Fila Deterdek Pro), with the dosage and action time indicated by the manufacturer.
- b. With the help of a soft bristle brush (nylon type), distribute the descaling agent so that the product reaches the entire surface of the material uniformly.
- c. Rinse with a low pressure washer.



Tolerances Machining Rigas

Typology	Magnitude	Nominal Value	Maximum	Minimum
GV2	Depth riga	3 mm	3.5 mm	2 mm
	Width riga	5 mm	5.8 mm	4.2 mm
	Width 18 plateau	25 mm	26 mm	24 mm
	Central plateau width	25 mm	26 mm	24 mm
	# of rigas part	15	-	-
GV3	Depth riga	4 mm	4.5 mm	3 mm
	Width riga	4 mm	4.8 mm	3.2 mm
	Width 1 st plateau	11 mm	12 mm	10 mm
	Central plateau width	11 mm	12 mm	10 mm
	# of rigas part	30	-	-

The processing process may involve cutting hazards, projection injuries, entrapment, exposure to high noise levels and/or respirable crystalline silica dust.

Use and maintenance

End-of-job cleaning

After the installation of Dekton®UKIYO, the surface usually shows traces of work in the form of a film or small accumulations of cement, lime, silicone, epoxy...

Therefore, it is necessary to clean the Dekton® surface at the end of the work that leaves it clean and at the same time does not damage the grout.

It is important to clean up as soon as possible the remains of the grout used during installation.

→ Procedure

1. **Application** of the product on the surface. Dissolution and action time according to the manufacturer's instructions.

Reference product

Fila Deterdek Pro or similar (Buffered acid detergent).

2. **Distribute** the product, with a brush, so that it reaches evenly the entire surface of the material.

Product reference

Brushes with soft bristles, nylon type.

3. **Rinse** with a low pressure washer.

Product reference

Pressure washers with water pressure of 120 - 160 bar type Kärcher/Bosch or similar.

Maintenance cleaning

→ Procedure

1. **Application** of the detergent product on the surface. Dosage and action time according to the manufacturer's instructions.

Reference product

Faber Deterfug in 3% solution, or similar (slightly acid detergent).

2. **Distribute** the product, with a brush, so that it reaches evenly the entire surface of the material.

Product reference

Brushes with soft bristles, nylon type.

3. **Rinse** with a low pressure washer.

Product reference

Pressure washers with water pressure of 120 - 160 bar type Kärcher/Bosch or similar.

Daily cleaning

→ Procedure

Application, with pressure washer, of pressurized water up to 120 - 140 bar.

Product reference

Pressure washers with water pressure of 120 - 160 bar type Kärcher/Bosch or similar.



Refer to osh.cosentino.com for information related to safety processing.

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