

**KRICN<sup>®</sup>**  
**ventilated facade**

PORCELANOSA Grupo



It was crucial to develop a new type of Solid Surface for exteriors which could solve the technical challenges that this type of material posed, such as the anchor system or the contact or joint between sheets. PORCELANOSA Group took on the challenge and the result is KRION®, state-of-the-art Solid Surface, developed by SYSTEMPOOL, and the concealed clip fixing system from **butech**.

The quality of KRION® sheets offered by SYSTEMPOOL together with **butech**'s engineering and facade installation service, have already become international standards for projects with Solid Surface facades.



By appointment to  
HRH The Prince of Wales  
Manufacturer and Distributor of  
Ceramic Tiles and Building Products  
PORCELANOSA Group Limited

**butech**®



KRICN®  
ventilated facade

butech and KRION® broaden the possibilities of facade design.







Institut d'Optique d'Aquitaine (Pôle Optique), France.



# Projects

PORCELANOSA Group is the international leader in Solid Surface facade design and installation. KRION®'s excellent features, together with the technical service offered by **butech** to customers and architects, has made it possible to carry out projects in virtually all continents. Commercial buildings, public buildings, hotels, and even private homes, have been conceived with this system.

A restrictive quality control policy in all elements involved in the facade, the experience of **butech**'s Technical Department in project development, and the expertise of our facade installation teams, make KRION® the best choice for this type of project.

Architects can now design buildings where light and KRION®'s white color are the main focus.









Bershka shop in Madrid, Spain.  
*Architects: Castelvejana Arquitectura*

It is a 16 rectangular piece design which combined pieces in background and foreground. All the joints are lit, and the pieces in the foreground are backlit.

250 sqm of KRION® Stone sheets.  
Module dimensions: 3,150 x 2,050 mm.



Bershka shop in Madrid, Spain.











Bershka shop in Istanbul, Turkey.  
*Architects: Castelvejana Arquitectura*

The suggested facade design alternated horizontal strips in different sizes. A system with 70 mm lit joints, accessible from the outside, was used to highlight the horizontal alignment in the facade.

550 sqm of KRION® Stone sheets.  
Variable module dimensions.



Bershka shop in Istanbul, Turkey.

Bershka

Bershka







Tour Raffinity building in Casablanca, Morocco.  
*Architect: Hembert Penaranda*

The building enclosure features a triangled pattern, suggesting the natural geometry of diamonds. For the project, sheets were created which interact with a screen-printed curtain wall.

1,500 sqm of KRION® Pure Lux Snow White





Tour Raffinity building in Casablanca, Morocco.







Institut d'Optique d'Aquitaine (Pôle Optique), France.  
Architects: Nicolas Raguenau and Antoine Roux.

A project with a KRION ventilated facade can result in multiple solutions, thanks to the material's versatility and to the vast array of options it offers to the architect.

5,771 sqm of flat KRION® sheets.  
Dimensions: 2,800 x 2,700 mm.

1,149.12 sqm of pixel-type engraved KRION®.  
Dimensions: 3,800 x 2,800 mm.

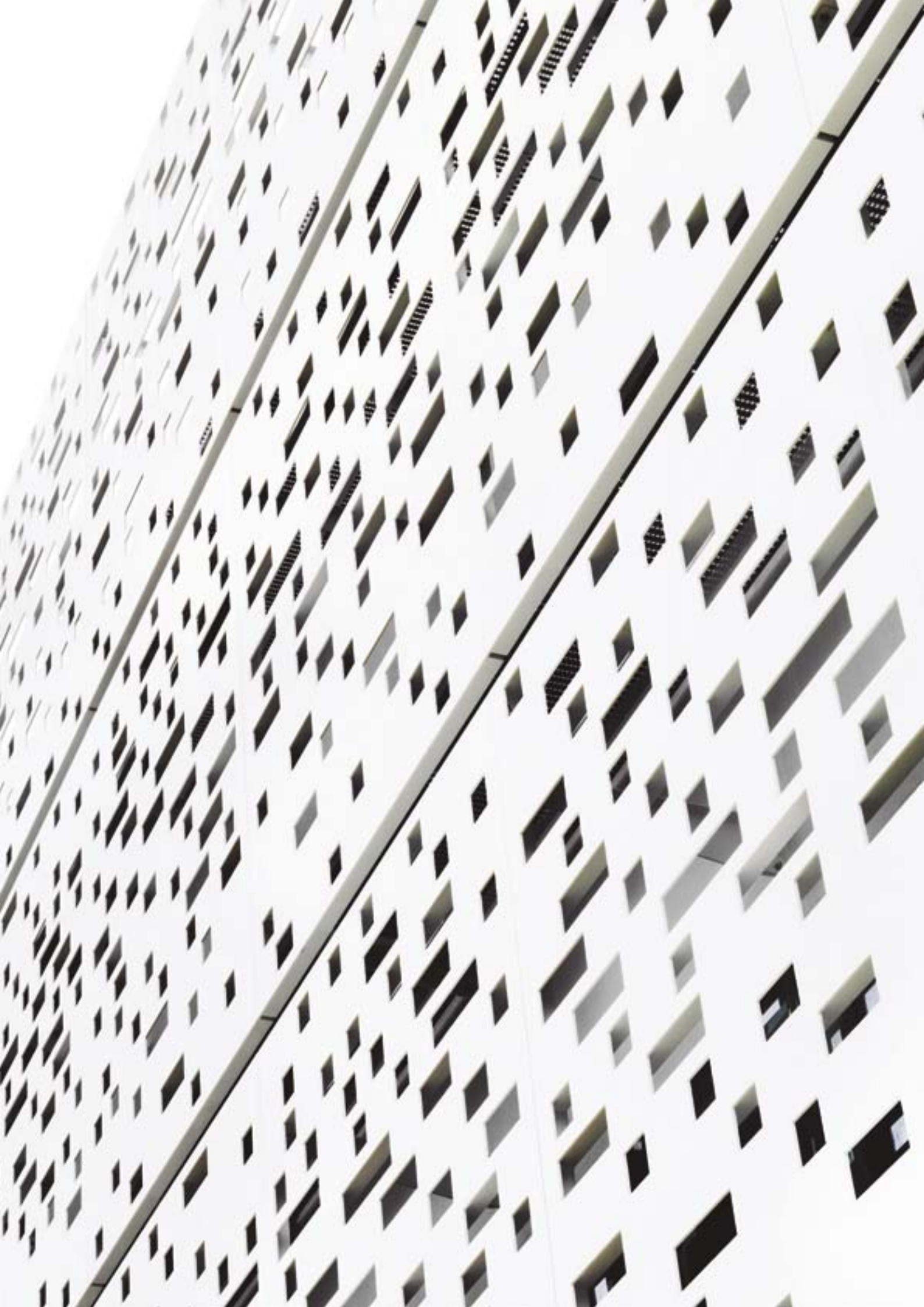








Institut d'Optique d'Aquitaine (Pôle Optique), France.





Single-family home in Barcelona, Spain.  
*Architect: A-Cero*

Taking advantage of one of KRION®'s main features, thermocurving, a design has been conceived which includes innovative shapes difficult to imagine with other materials.

1,200 sqm of KRION® Pure Lux Snow White sheets.



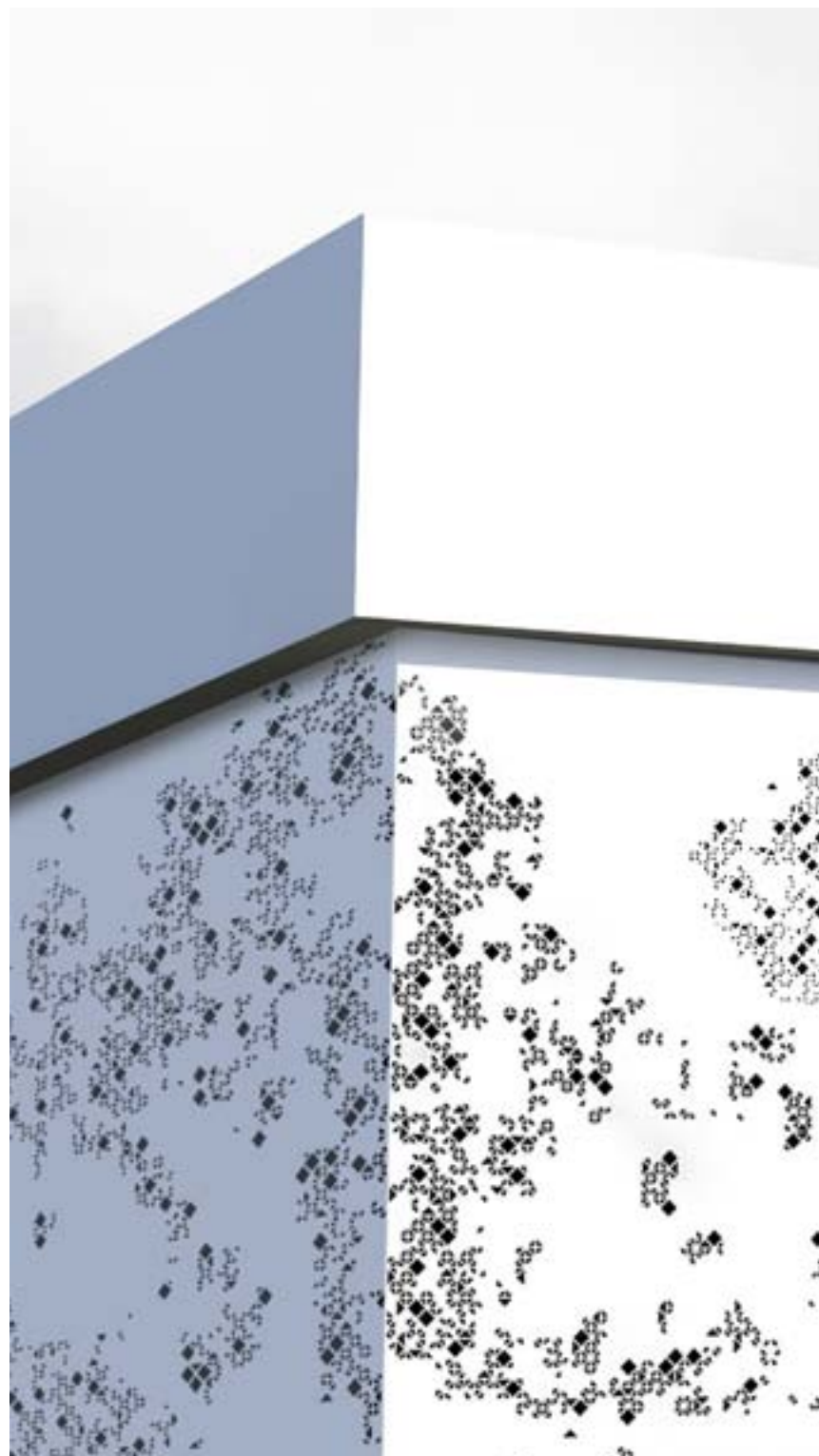




PORCELANOSA showroom in Lyon, France.

This PORCELANOSA Group showroom has been refurbished with pixel-type KRION® Pure Lux sheets, taking advantage of backlighting, another of their main features.

600 sqm of KRION® Pure Lux sheets.







Hi Panda shop in Paris, France.

In this shop, located in the heart of Paris, KRION® was used in the exterior as well as in different interior spaces, ceilings, floors, walls, furniture, and decoration.









# Features

KRION ventilated facade system combines the excellent features from SYSTEPOOL's Solid Surface with the know-how developed by **butech** in the design and installation of this type of facades. It is accredited by the most demanding international organisms and the prestige of the PORCELANOSA brand name.

KRION ventilated facade system adapts perfectly to cladding, and allows the designer to carry out designs that would be impossible with other materials: curved, back-lit, engraved decoration, or facade design that plays with different planes. The most innovative designs are made possible thanks to the system's technical characteristics and great flexibility.

We have the guarantee of the quality of our materials, the technical characteristics of our system, and our experience.



# What is KRION®?

KRION® is a product that is solid, compact, pore-free, with uniform properties throughout its section, and which can be transformed to obtain figures and complex volumes. The KRION® surfaces employed by **butech** have high resistance to temperatures and chemical agents, are easy to clean and maintain, and offer warmth and beauty, making these solid surfaces ideal for the most demanding applications.

Unlike other materials used professionally, it can be injected, cut, machined, and glued, achieving invisible joints. This property allows designs to freely incorporate functionality and ergonomics criteria which would be otherwise difficult to obtain.

## Features.

KRION® is a new generation solid surface developed by SystemPool, a company from the PORCELANOSA Group. It is a product that is warm and velvety to the touch, similar to natural stone, solid, with a uniform mass, non-porous, available both in slabs and in molded figures, and that allows for an invisible joint between the different pieces.

This product is also hygienic, unreactive, non-toxic, virtually fireproof, easy to maintain and repair, it has multiple transforming possibilities, and a high resistance to chemical agents, water vapor, or the weather.

## Advantages.

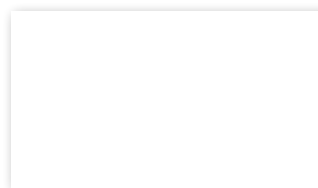
- Anti-graffiti.
- Fire-resistant.
- Resistant to cigarette burns.
- Eco-friendly.
- Antibacterial (no additives).
- Great durability.
- Resistant to high temperature.
- High degree of hardness and mechanical strength.
- Moldable.
- Large surfaces without joints.

## Maintenance.

In order for the material to regain its initial state, **butech** recommends to strictly follow the manufacturer recommendations for cleaning tough stains, which are to rub the surface using a green fiber Scotch-Brite® scouring pad. This way the tough stains will disappear, so that any cleaning team will be able to carry out these maintenance tasks without needing to resort to more sophisticated items or special cleaning agents.

It can be entirely restored, which means that it can return to its original appearance. Even cigarette burns can be removed with a normal detergent and a scouring sponge.

## KRION® Stone

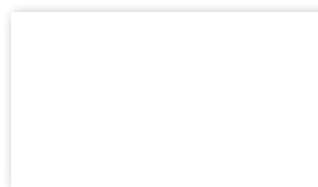


5101. Stone White

### Formats (mm)

2,480 x 750 x 11  
2,480 x 900 x 11  
3,620 x 750 x 11  
3,620 x 900 x 11

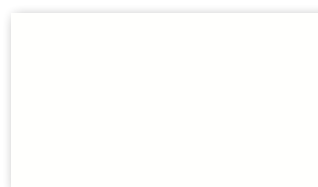
## KRION® Pure Lux



1100. Snow White

### Formats (mm)

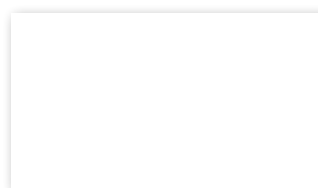
3,670 x 750 x 12



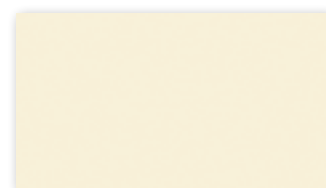
1101. Ice

### Formats (mm)

3,590 x 750 x 12  
3,590 x 1,340 x 12



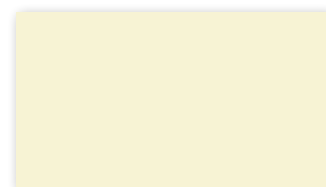
1103. White



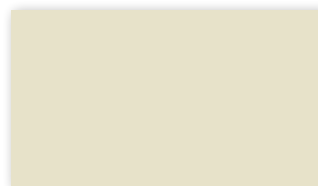
1501. Arena



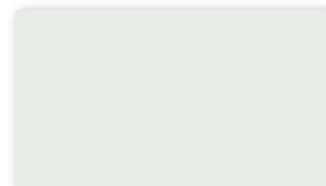
1502. Vainilla



1503. Lady



1504. Soap



1902. Light Grey



# Properties

## Anti-graffiti.

Graffiti can be completely removed after they have been made on the surface, and regardless of the time passed since they are made, by using a Scotch-Brite® type scouring sponge.

## Fire resistance.

Fire-resistance rating is B-s1, d0 according to the UNE-EN 13501-1: 2002 standard; this classification corresponds to Flame retardant material. (It is equivalent to classification M1 according to UNE 23727:1990 standards)

Considering the Spanish Technical Building Code (CTE), the Euroclasses A1, A2, and B, correspond to the non-combustible and low combustibility product classes. They represent those construction products which are safer in terms of fire safety.

Documentation: Tests from the Technical Fire Center 1010100-01 CL.

## Cigarette burn resistance.

Cigarettes are consumed 10 mm, and are then deposited on the material until 20 mm more are burned up. They are then removed, and the stain they leave is perfectly removed using a scouring sponge.

Documentation: Tests in accordance with UNE-EN 438-2: 2005 standards.

## Resistance to solar radiation.

The temporal equivalence of artificial aging results is not empirical, although correlations can be established between this study and the results obtained from 10 years of natural aging in the area of Valencia.

Artificial aging tests consisting of a total of 12 extreme exposure alternate cycles, for a continuous period of 2016 hours, produce the following color material modification:

**fv KRION® Pure Lux** Color variation:  $\Delta E = 0.55$

This value corresponds to a variation that is very slight and practically unrecognizable to the human eye.

**fv KRION® Stone** Color variation:  $\Delta E = 5.24$

This value corresponds to a moderate color change and is only superficial, affecting 10 surface microns that can be removed using a Scotch-Brite® type scouring sponge, thus recovering the original color.

Therefore, material aging in the long run is minor, and it is possible to recover the initial appearance with basic maintenance.

Documentation: AIDIMA Report 1001022-03/04/05; QUV Chamber Tests.

## Permeability to water.

The water absorption that KRION vf has under different unfavorable conditions, such as water vapor application, immersion in boiling water, or permanent placement in water without aeration, stays in peak values of 0.15 %, desorbing all of the water after the immersion.

This extremely low absorption level guarantees the non-existence of problems related with material hydrolysis.

Documentation: Tests in accordance with UNE-EN ISO 62, UNE-EN 438-2, NEMA LD 3-2000; AIDIMA Report 1001022-03/04/05.

## Resistance to thermal shock.

It passes the shock tests, which consist of 1,000 cycles of 30 seconds each, alternating water at 90 °C with water at 15 °C.

This property reduces the chances of cracking from sudden temperature changes.

Documentation: AIMPLAS Tests in accordance with ISO 19712.

## Resistant to both microbial and fungal attack and proliferation.

KRION vf complies with the most demanding hygienic-sanitary regulations, and is suitable for high requirement applications such as clean rooms or operating rooms.

This property, as well as its non-corrosiveness, ensures the material's high durability.

Documentation: Tests in accordance with ASTM G-21 and UNE EN ISO 846 standards.

## Backlighting.

KRION® Pure Lux allows the creation of back-lit atmospheres. Spectacular lighting effects can be achieved by combining different material thicknesses.







# KRION vf Facade system

PORCELANOSA Group is at the forefront in terms of production, R&D, and technical innovation, in the different fields covered by the various companies that make up the group. In these fields, **butech** is the company that is in charge of the development, management, and implementation of the different building systems that may affect more avant-garde projects, such as the Ceramic Ventilated Facade, the KRION® Facade, the Attached Façade, the Raised Access Floor, the Drop Ceilings, and the Geothermal Energy.

Among these technical products, **butech** has developed an innovative system for Solid Surface installation in ventilated facades. This system, known as **KRION vf**, allows us to take advantage of all the technical and aesthetic qualities of KRION®, combining them with the advantages offered by ventilated facades.

The best materials, always high quality aluminum and stainless steel, are used for the construction of the ventilated facade system. These materials can adjust to the different shapes that KRION® can adopt in the façade, broadening the designer's creative freedom.

Additionally, the **KRION vf** system has been tested jointly (KRION®+profiles) so that its suitability to the different conditions that we find during construction are tested, obtaining the most demanding certificates from agencies such as the French CSTB.

The Group offers high technology products, with high-end technical and aesthetic features that adapt to the needs of designers and architects, and a team of technicians capable of developing these projects in the most economically viable and safe way. **butech's** professional team treasures the knowledge acquired across the many projects undertaken throughout its development, integrating high degrees of specialization which enhance every part of the design, development, and implementation process.

All this project technical development can obviously include the documents that the customer might need to certify the whole constructive system, the technical specifications of the materials used, the specific construction details for the project, such as calculations of wind suction, anchor checking, determination of the stress that the façade structure transmits, calculation of the heat transfer coefficient of the enclosure thickness, determination of the façade weight, sizing of the façade for a proper system expansion, etc.

Once all the project technical development has been carried out, one of the main factors for a correct project completion is obviously a correct implementation, and **butech** currently has installer teams that specialize in the installation of any type of project, no matter how complex it is.

Currently the **KRION vf** system has several certifications and tests available that guarantee both the quality of the work carried out, and the construction system and materials used.

## Butech Technical Department.

The creation of unique facades requires multi-disciplinary contributions from qualified professionals. Butech stands out for the development specialization of any type of project, both conventional and non-conventional. It offers the following services:

### Phase 1. Preparation of estimate.

Initial layout study, as long as the information and necessary plans are provided. A design is proposed, and based on this design a bill of quantities and rough cost estimate are made in accordance with technical, aesthetic, and economic criteria that make it viable.

Delivery of system standard details.

Adjustments and modifications based on indications made by the customer, which had not previously been made. Drafting of a more adjusted cost estimate, and the chance to provide singular point technical details.

### Phase 2. Development of the project.

This phase only starts once the project is accepted.

Technical visit to the customer to determine all the project details, expansion joints, window finishings, and singular point solutions.

Based on all the conclusions that come out of the technical visit, and after a real on-site measurement, the final construction estimate is prepared.

Drafting of the various calculation documents that the client might need and butech can provide.

Development of specific project construction details.

### Phase 3. Implementation of the project.

Once the final construction estimate is accepted and the contract is accepted.

Initial construction layout.

Placement of system structural elements.

Installation of KRION® slabs.

Facade sanding and cleaning.

All the necessary visits will be made during the whole construction execution in order to ensure the correct implementation that the project might require, depending on its complexity.

## Benefits of KRION vf



### **Safety net.**

KRION® facades are supplied with an elastomeric safety net attached with polyester resin. The safety net offers an extra guarantee in terms of safety, protecting from a possible detachment caused by a large impact.



### **B-s1-d0 Fire resistance.**

KRION® is a material that has an excellent performance against fire, so that its outdoor use is totally recommended. The results have been obtained in accredited external laboratories, and show that we get the best certification in comparison with the other Solid Surface products existing in the market.



### **Aging of the material.**

As in the previous section, we have tests from accredited external laboratories certifying that the material barely ages over time due to the effect of ultraviolet rays.



### **Turn Key.**

The facades designed with such materials tend to be a value-added facades, with designs that require full project monitoring from the first to the last piece.

At present, PORCELANOSA Group is able to offer this full monitoring during all project stages: design, dimensioning and calculation of the structure, contribution of necessary reports and calculations, supply of necessary materials, and installation, so that it differentiates itself from other companies that may offer this same product.

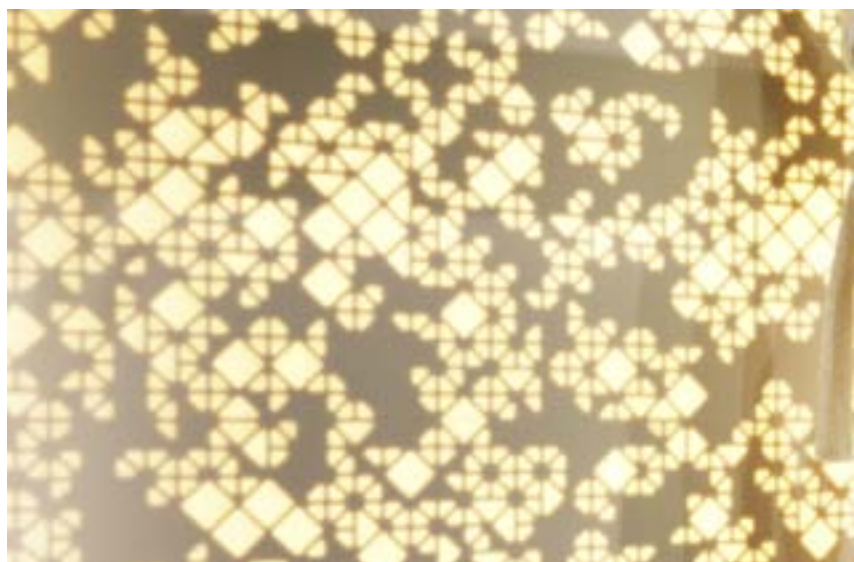


### **Guarantees.**

PORCELANOSA Group offers the customer a unique Guarantee document of the KRION vf product, both concerning materials, offering coverage of up to 10 years, and in everything that has to do with the installation.



## Benefits of KRION vf



### **Backlighting.**

Besides being able to include light as a facade decorative supplement, the KRION® Pure Lux product family offers the possibility of backlighting a solid surface thanks to the translucent characteristics of the material itself.

Within this type of lighting, we could differentiate two possible types offered by the product range:

#### **Full backlighting of the slabs.**

KRION® Pure Lux Light slabs can be completely illuminated from behind thanks to the material's translucent properties, without having to do any recesses. The only determining factor for this type of decorative solution is finding the perfect constructive solution for developing an anchoring system that does not interfere with the lighting areas.

#### **Partial backlighting of the slabs.**

KRION® Pure Lux slabs can be partially lit from behind, recessing the material through numerical control. This machining allows for the light to be only visible in these points. This solution lets us to cover an important range of decorative solutions: mosaics, corporate logos, designs using stripes...



### **Thermal bending.**

Another major advantage offered by the use of KRION® Pure Lux outdoors is being able to design curved areas with no joints; these designs could not be made at present with other types of materials currently available in the market.



### **Machining.**

The possibility of using numerically controlled machining, together with the possibility of joining the pieces afterwards, makes such materials suitable for developing any conceivable design that combines formats, mosaics, pixelations, irregular pieces, etc...



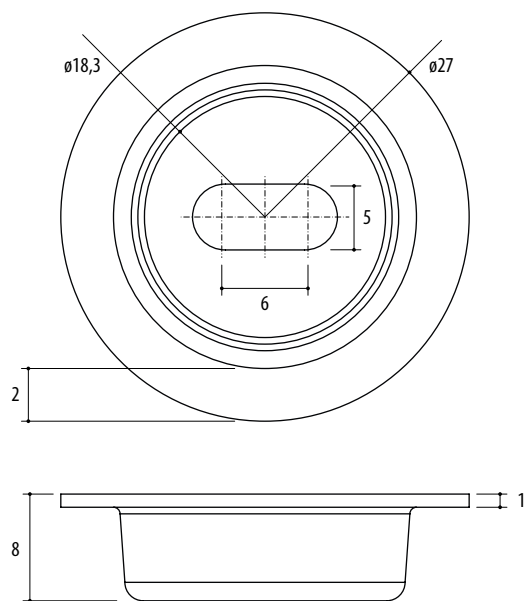


# Technical features

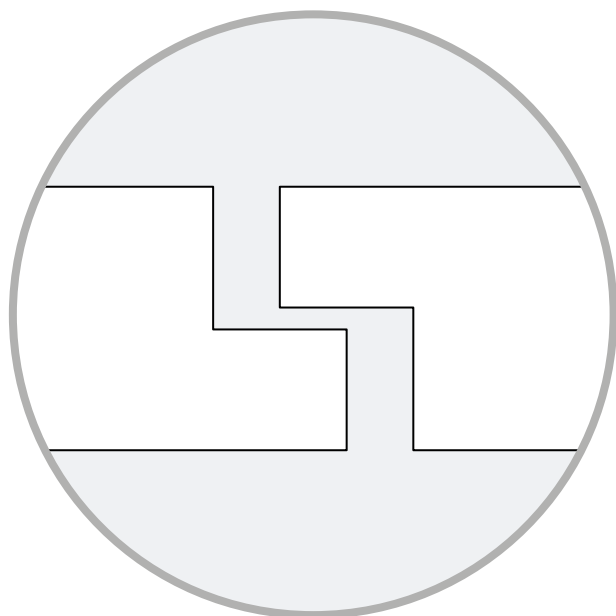
| Property                                                                     | Method                               | Units                      | Results<br>KRION® Stone (11 mm)         | Results<br>KRION® Pure Lux (12 mm)      |
|------------------------------------------------------------------------------|--------------------------------------|----------------------------|-----------------------------------------|-----------------------------------------|
| Density                                                                      | DIN ISO 1183                         | g/cm <sup>3</sup>          | 1,787 - 1,800                           | 1,710 - 1,726                           |
| Flexural modulus                                                             | DIN EN ISO 178                       | MPa                        | 9786 - 9894                             | 8596 - 8724                             |
| Flexural strength                                                            | DIN EN ISO 178                       | MPa                        | 52,3 - 54,7                             | 75,1 - 76,9                             |
| Elongation                                                                   | DIN EN ISO 178                       | %                          | 0,55 - 0,59                             | 1,08 - 1,12                             |
| Compression resistance                                                       | EN ISO 604                           | MPa                        | 111 - 115                               | 97 - 101,2                              |
| Impact resistance<br>(continuous load)                                       | DIN ISO 4586 T11                     | N                          | > 25                                    | >25                                     |
| Impact resistance (falling ball)                                             | ISO 19712                            | Ball 324 g/2 m             | Does NOT break (>120 cm)                | Does NOT break (>120 cm)                |
| Surface hardness (Mohs scale)                                                | DIN EN 101                           |                            | 3                                       | 3                                       |
| Abrasion resistance (use)                                                    | DIN ISO 4586 T6                      | % mass / 100 rev.          | 0,148                                   | 0,11                                    |
|                                                                              |                                      | mm <sup>3</sup> / 100 rev. | 82                                      | 64                                      |
| Immersion in boiling water                                                   | DIN ISO 4586 T7                      | Weight %                   | 0,2                                     | 0,25                                    |
| Resistance to bacteria and fungi                                             | DIN EN ISO 846                       |                            | Do NOT thrive                           | Do NOT thrive                           |
| Dimensional stability 20 °C                                                  | DIN ISO 4586 T10                     | % change in length         | 0,01 (90% HR and 23% HR)                | 0,02 (90% HR) and 0,08 (23% HR)         |
| Resistance to dry heat 180 °C                                                | ISO 19712-2                          | 4                          | Slight change brightness/color          | Slight change brightness/color          |
| Translucency (xenon arc)                                                     | DIN ISO 4586 T16                     | "Blue wool"                | > 6                                     | > 6                                     |
| Non-slip properties                                                          | UNE-ENV 12633:2003<br>(VALORES usrv) | Less than 120 sanding      | CLASE 2                                 | CLASE 2                                 |
| 80-Sanded finish anti-slip<br>properties                                     | UNE ENV 12633:2003                   | Rd (roughness)             | 45. CLASE 2<br>(humid and greasy areas) | 45. CLASE 2<br>(humid and greasy areas) |
| 120-Sanded finish anti-slip<br>properties                                    | UNE ENV 12633:2003                   | Rd (roughness)             | 19. CLASE 1<br>(interior humid areas)   | 19. CLASE 1<br>(interior humid areas)   |
| 180-Sanded finish anti-slip<br>properties With non-slip surface<br>treatment | UNE ENV 12633:2003                   | Rd (roughness)             | 22. CLASE 1<br>(interior humid areas)   | 22. CLASE 1<br>(interior humid areas)   |
| 180-Sanded finish anti-slip<br>properties                                    | UNE ENV 12633:2003                   | Rd (roughness)             | 16. CLASE 1<br>(interior humid areas)   | 16. CLASE 1<br>(interior humid areas)   |
| 220-Sanded finish anti-slip<br>properties With non-slip surface<br>treatment | UNE ENV 12633:2003                   | Rd (roughness)             | 18. CLASE 1<br>(interior humid areas)   | 18. CLASE 1<br>(interior humid areas)   |
| Transverse resistivity                                                       | UNE 21-303:1983                      | Ωm                         | > 5,1 x 10 <sup>10</sup>                | >5,1 x 10 <sup>10</sup>                 |
| Surface resistivity                                                          | UNE 21-303:1983                      | Ω                          | 579,1 x 10 <sup>-9</sup>                | >1 x 10 <sup>-9</sup>                   |
| Toxicity of combustion gases                                                 | NF F 16-101                          |                            | Class F0                                | Class F0                                |
| Fire classification                                                          | EN 13501-1:2003                      |                            | Euroclass B, s1, d0                     | Euroclass B, s1, d0                     |
| Thermal conductivity                                                         | UNE 1267 (2002)                      | W / m <sup>2</sup>         | q = 113,1                               | q = 113,1                               |
|                                                                              | UNE 1267 (2002)                      | m <sup>2</sup> . K / W     | R < 0,05                                | R = 0,05                                |
|                                                                              | UNE 1267 (2002)                      | W / m . K                  | λ approx. 0,428                         | λ = 0,396                               |
| Resistance to thermal shock<br>(90 - 20 °C)                                  | ISO 19712-2 (Sheet)                  | 250 Cycles                 | Satisfactory                            | Satisfactory                            |
| Resistance to thermal shock<br>(65 - 10 °C)                                  | ISO 19712-3 (Shape)                  | 500 Cycles                 | Satisfactory                            | Satisfactory                            |

# KRION® Ventilated facade details

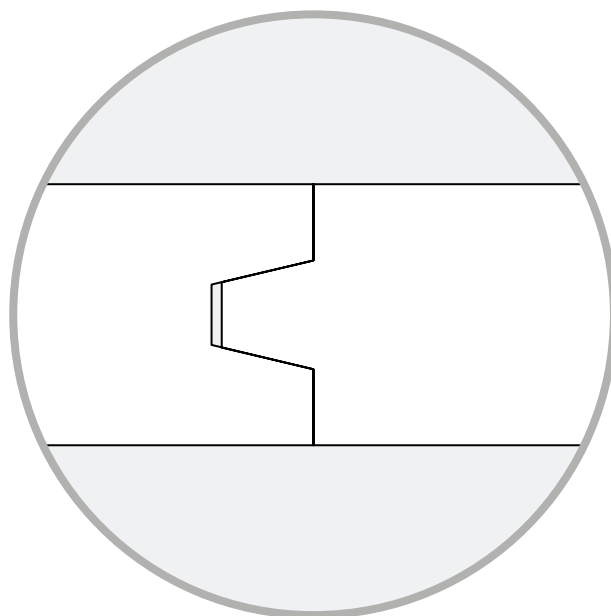
## KRION® Cap



## Expansion recessing

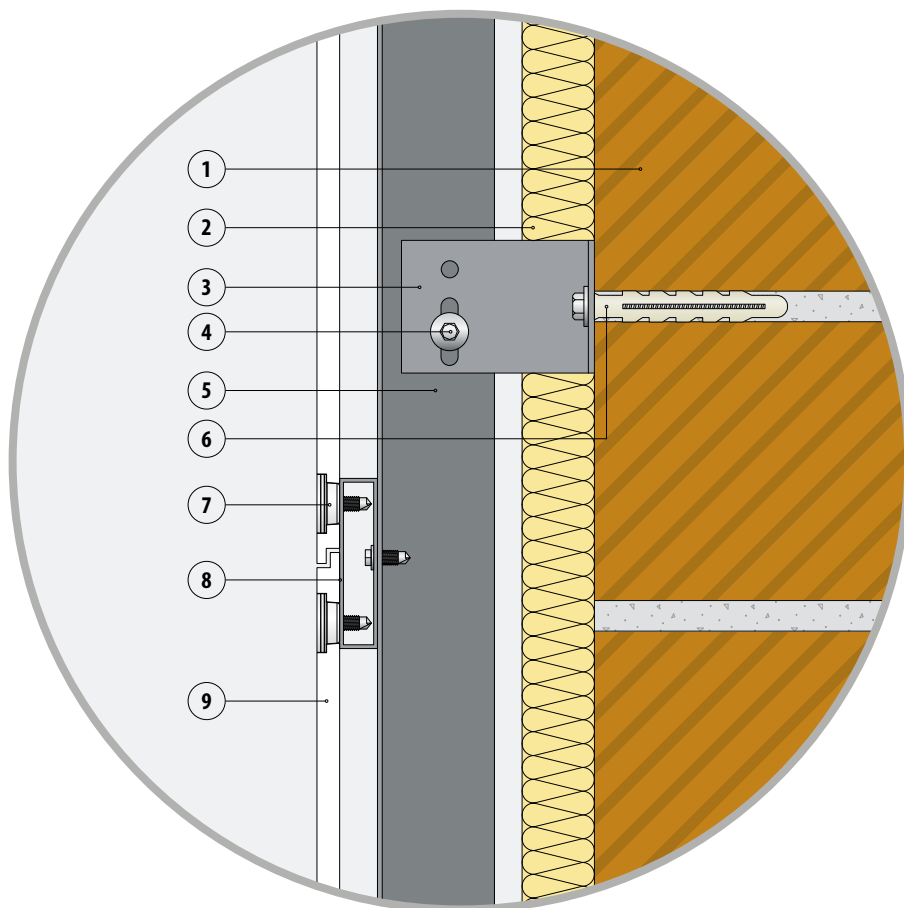


## Tongue and Groove for sheet joining



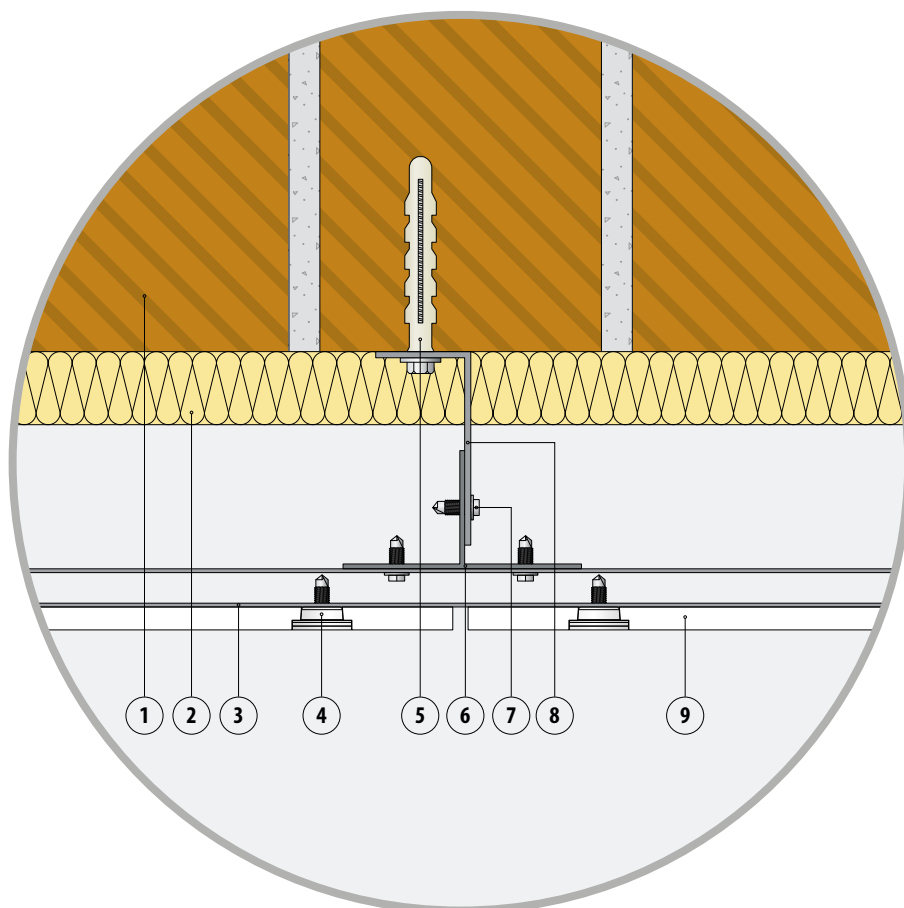
### Vertical cross-section

1. Enclosure
2. Thermal / acoustic insulation
3. "L" shaped Separator
4. Union "L" / "T" screw
5. "T" Profile
6. Union anchorage "L" shaped separator / enclosure
7. KRION® Cap
8. Tubular profile
9. KRION®



### Horizontal section

1. Enclosure
2. Thermal / acoustic insulation
3. Tubular profile
4. KRION® Cap
5. Union anchorage "L" shaped separator / enclosure
6. "T" Profile
7. Union "L" / "T" screw
8. "L" shaped Separator
9. KRION®

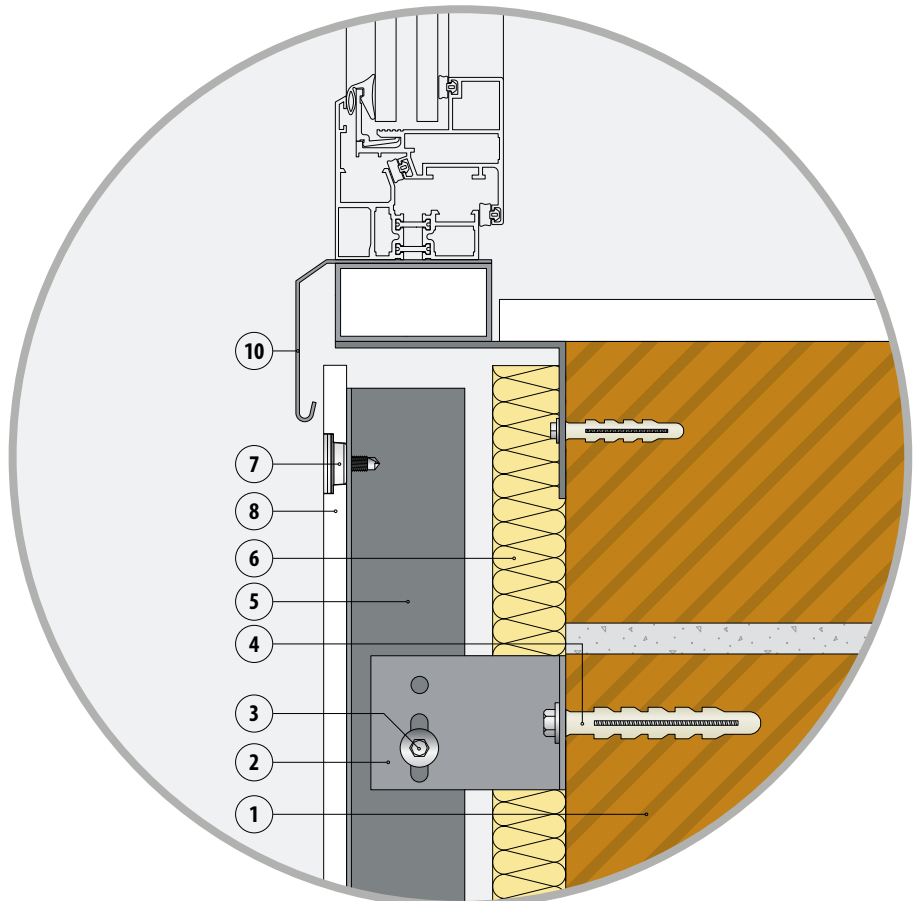
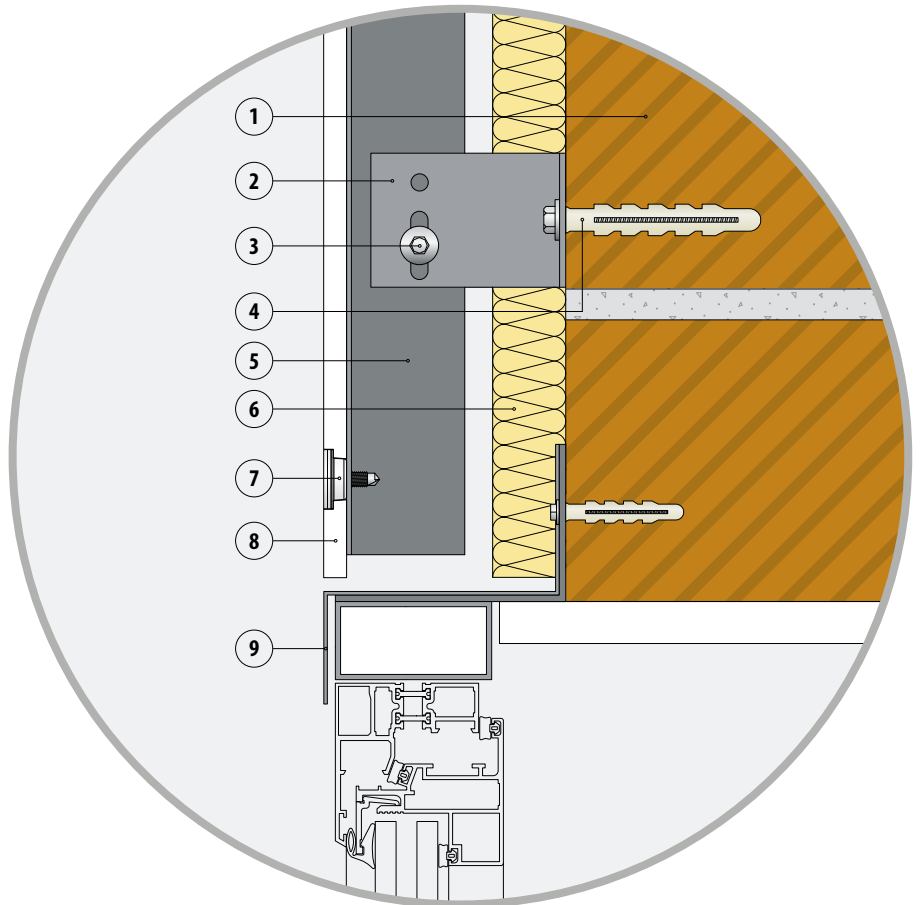




# KRION® Ventilated facade details

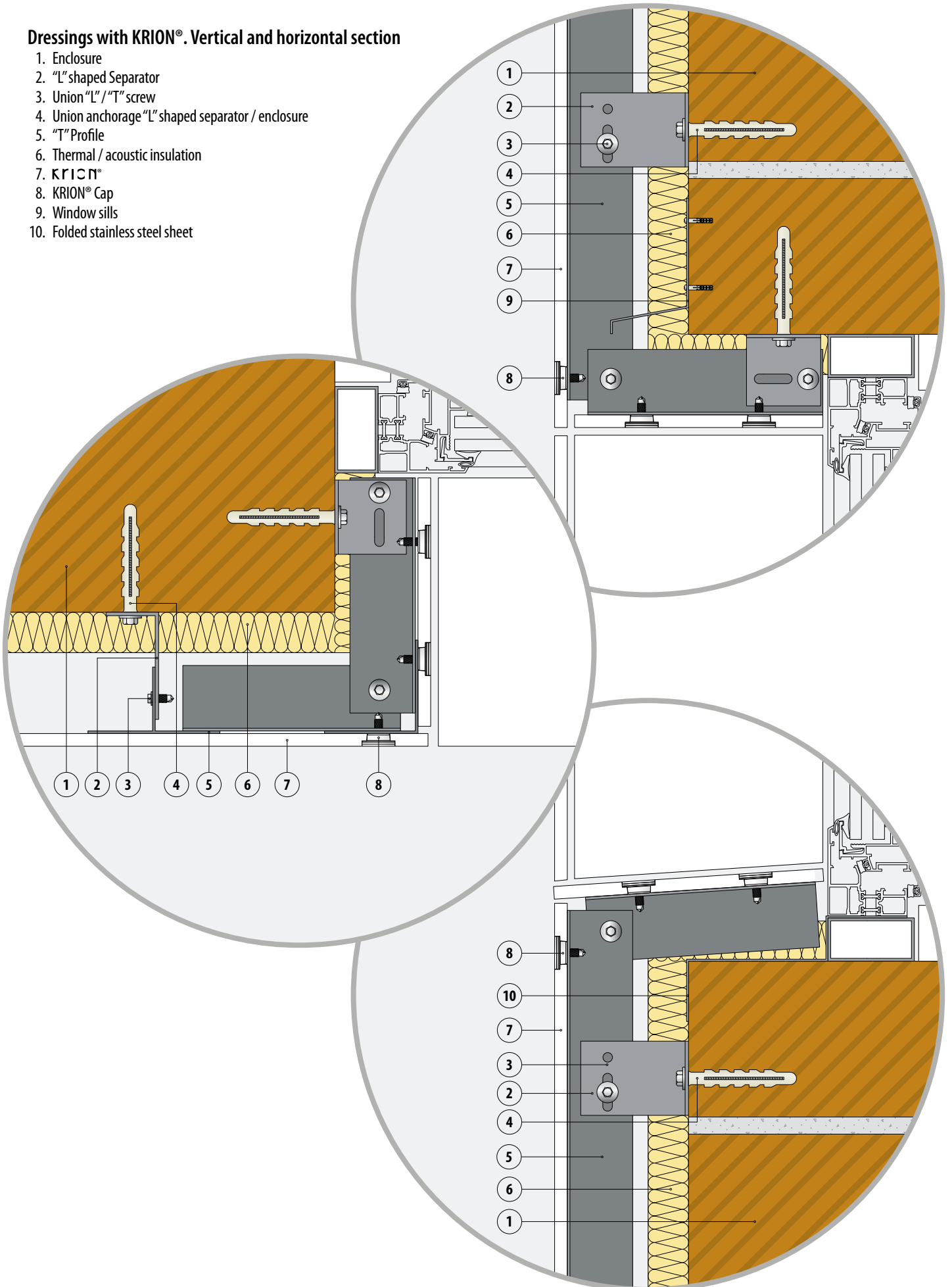
## Window section with outer shafts

1. Enclosure
2. "L" shaped Separator
3. Union "L" / "T" screw
4. Union anchorage "L" shaped separator / enclosure
5. "T" Profile
6. Thermal / acoustic insulation
7. KRION® Cap
8. KRION®
9. Folded stainless steel sheet
10. Window sills



## Dressings with KRION®. Vertical and horizontal section

1. Enclosure
2. "L" shaped Separator
3. Union "L" / "T" screw
4. Union anchorage "L" shaped separator / enclosure
5. "T" Profile
6. Thermal / acoustic insulation
7. KRION®
8. KRION® Cap
9. Window sills
10. Folded stainless steel sheet



# KRION® vf Facade System certificates and tests



## Resistance tests to wind effects:

report of **CSTB** tests no. CLC 12-26037368 of 07/03/2012.

## Resistance tests to wind effects after fatigue:

report of **CSTB** tests no. CLC 12-26037925 of 14/03/2012.

## Impact resistance tests:

report of **CSTB** tests no. CLC 12-26037369 of 19/09/2012.

## Insert pull-out resistance tests, flexural and tensile strength tests on the welded joints, in the initial state and after aging and heat + humidity:

report of **CSTB** tests no. CLC 12-26037398/26037404 of 03/08/2012.

## Insert pull-out resistance tests, flexural and tensile strength tests on the welded joints, after ice / thaw cycles:

report of **CSTB** tests no. CLC 12-26037400/26037404 of 03/08/2012.

## Reaction to fire tests:

PV number 1010100-01CL and 1010122-01CL, carried out at the Institute AIDICO Technical Fire Center, in Spain.

## Wind suction test.

According to the tests made by an official institute for obtaining the ATEX (Experimental Technical Attestation), the breakage limit value of wind suction equals 601.02 kg/m<sup>2</sup>, always breaking by punching at the cap.

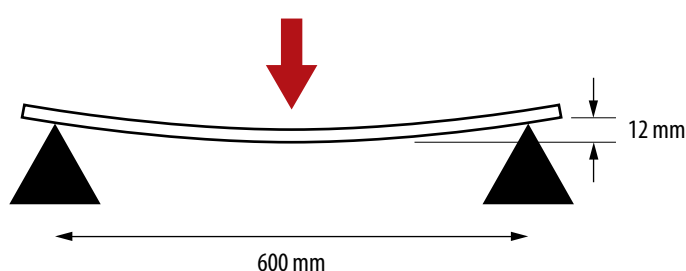
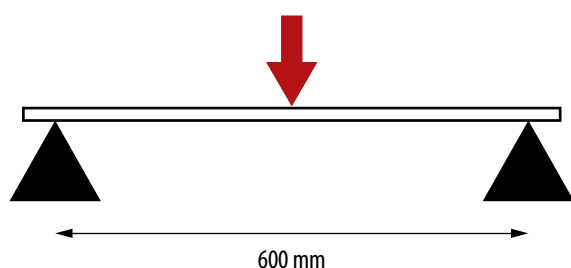
Uniform values have been obtained for the different samples taken. It is therefore a very high value, which allows us to install this facade system with KRION® cladding in areas that have a high wind exposure.



## Simple flexure test.

According to the flexure tests carried out at AIMPLAS (Technological Institute of Plastics) KRION®'s elastic modulus is 8,690 Mpa, and the flexural strength is 53.5 Mpa.

Substantial variations are not obtained in results when testing aged samples.





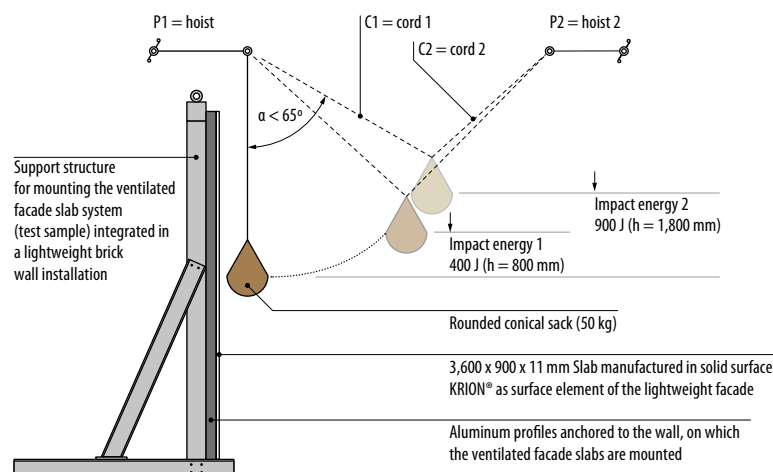
## Impact test.

Summary of report findings on test number IE100045, obtained from the four tested arrangements of the Solid Surface lightweight façade slab system, for the two types of tests, rigid and soft body:

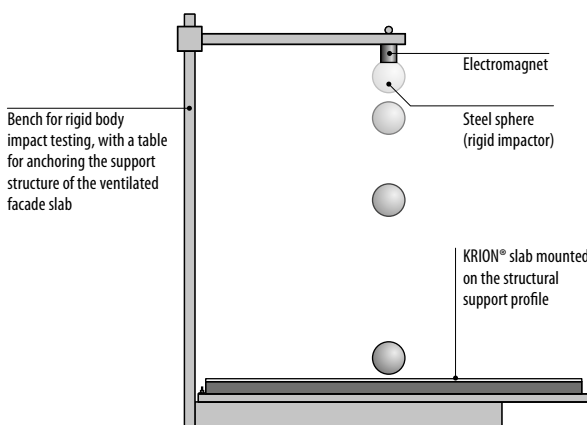
| Types of test     | Arrangement and description                                                                                                                | Evaluation parameters of the test |             |            |             |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------|-------------|
|                   |                                                                                                                                            | Collapse                          | Penetration | Projection | Degradation |
| Soft body impact  | <b>56013-2-1.</b> On center of 900 x 900 x 11 mm slab.<br>( $E_{kinetic} = 900 \text{ J} \cdot h = 1.8 \text{ m}$ )                        | Ok                                | Ok          | Ok         | (1)         |
|                   | <b>56013-2-2a.</b> Test on 900 x 900 x 11 mm slab, with 4 fittings.<br>( $E_{kinetic} = 900 \text{ J} \cdot h = 1.8 \text{ m}$ )           | Ok                                | Ok          | Ok         | (1)         |
| Rigid body impact | <b>56013-3-2.</b> On center of 900 x 900 x 11 mm slab.<br>( $E_{kinetic} = 6 \text{ J} \cdot h = 1.2 \text{ m} \cdot m = 0.5 \text{ kg}$ ) | (1)                               | Ok          | (1)        | Ok          |
|                   | <b>56013-4-2.</b> On center of 900 x 900 x 11 mm slab.<br>( $E_{kinetic} = 10 \text{ J} \cdot h = 1.0 \text{ m} \cdot m = 1 \text{ kg}$ )  | Ok                                | Ok          | Ok         | (1)         |

(1) In this case, for this test arrangement, this evaluation parameter does not apply.

## Soft body impact test.



## Rigid body impact test.







## Installation and assembly

SYSTEMPOOL, in collaboration with **butech's** Technical Department, has developed the necessary tools, materials, and techniques for implementing KRION® both in interior decoration and building facades. All PORCELANOSA Group's experience in the installation of ventilated ceramic facades is applied to KRION®, thus achieving the most innovative designs.

The experience of PORCELANOSA Group's ventilated facade mounting teams, together with the ability of our technicians, make KRION®'s ventilated facade a new reality which serves contemporary architecture.

## Cutting and pasting of KRION®



### Chemical welding

In first place, we must prepare the chemical welding kit. Once prepared, we shall join the slabs in a seam, so that the welding kit paste joins the two pieces. After joining the pieces, let dry.



### Gluing

Whenever we want to join edges, these should be straight or at 90 ° angles. Before applying the adhesive, the area should be cleaned with a cloth and methylated spirit; this way we will leave the area 100% clean. In order to achieve invisible joints, the use of KRION® adhesive is essential.



### Linear cutting

If we want to make linear cuts, we shall use a circular saw with hardened metal or diamond teeth.



### Curved cut

If we want to make linear cuts, we shall use a circular saw with hardened metal or diamond teeth.

## KRION® polishing and finishing



### Polishing.

A random orbital sander must be used, with movements from top to bottom or from left to right.



### Finishing.

The finishing, whether it is glossy or matt, can be done at the end of the work with sandpaper. This finishing can be chosen by the customer.

You can request more information at [sistemas@butech.es](mailto:sistemas@butech.es)



## Assembly and installation of KRION® vf



Place the **butech** aluminum profiles.



Once the **butech** aluminium profiles are placed, perfectly aligned and plumbed, the slabs are then screwed on. The slabs have inserts that house inside them the KRION® aluminum clamps, which guarantee a correct fastening.



After cleaning and drying the surface on which we are going to perform the chemical welding with the next slab, a continuous seam of KRION® liquid Adhesive is applied inside the female part of the slab.



Image of prepared KRION® slabs with adhesive.



Next, the male part of the next slab is inserted into the female part, so that the KRION® Adhesive overflows.

Afterwards, we must stick wooden wedges every 15 cm for installing clips to apply pressure between slabs.



The fastening clips are installed so they exert pressure and ensure a perfect joining of the two slabs.



After this, remove the clips and wood wedges.



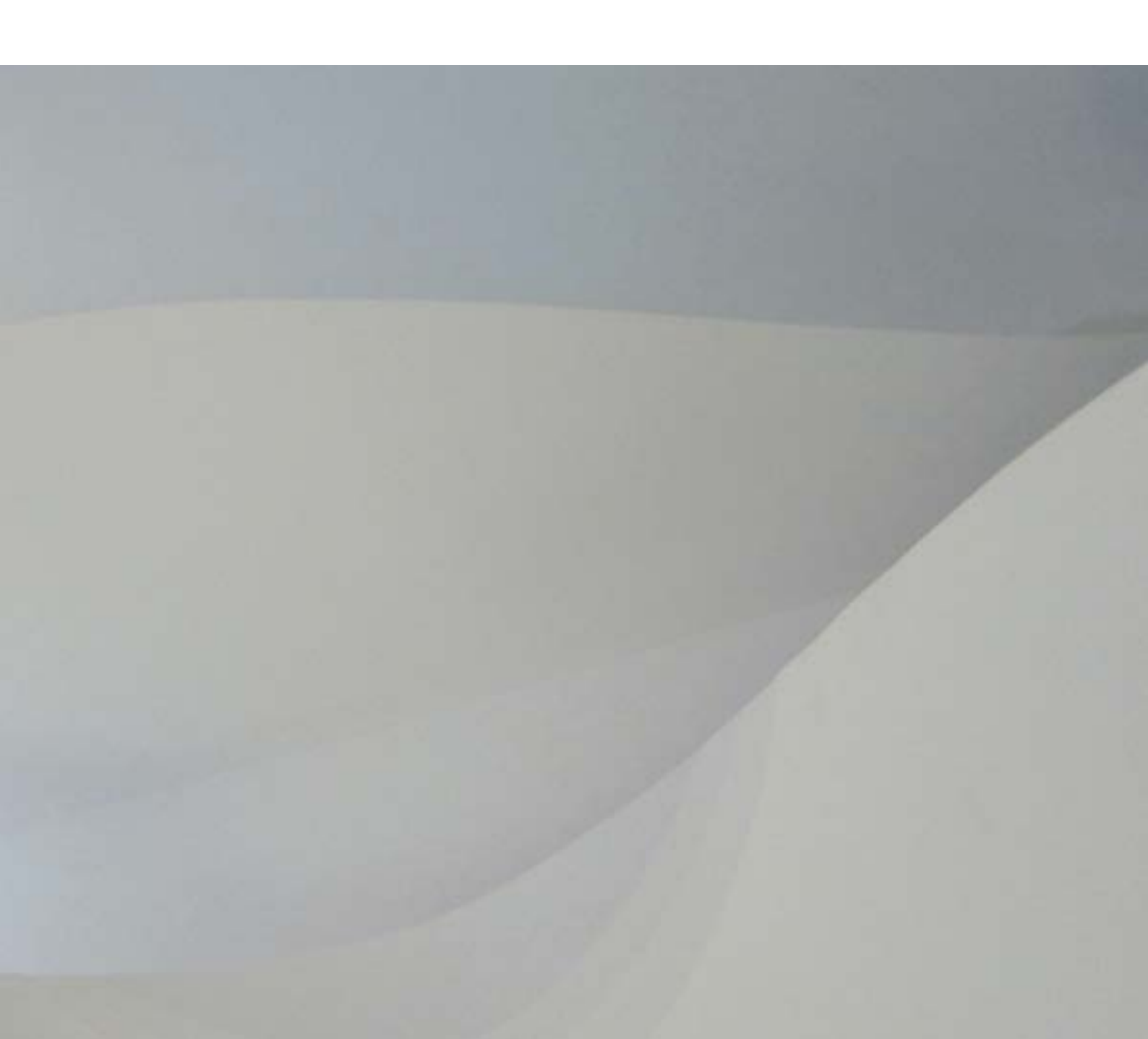
Next, we glue the insert plugs with KRION® Adhesive, so that it overflows.

In order to glue these plugs, they must be clean and dry.



After 24 hours, the surface sanding may be carried out, eliminating all the rugosities, stains, and excess adhesive, obtaining the final finishing of the KRION® slabs.





# New materials new solutions

KRION® offers great creative freedom, allowing the designer to generate a great variety of spaces, attractive volumes, different types of shapes, etc.

Its possibilities are almost unlimited thanks to its features, that allow among other things: thermal bending of pieces, backlighting, large formats by welding slabs together, injection of pieces with different shapes or imprinted reliefs, the possibility of obtaining it in various colors...













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Calle Monserrat, 36-39 - T: 986 780 184 - F: 986 782 301  
MOS - BLANCO QUINTAS  
Monte Faquiña s/n - T: 986 288 041 - F: 986 486 316  
O GROVE - PREFABRICADOS DENA  
Calle Alexandre Boveda, 82 - T: 986 702 041 - F: 986 733 415  
SEIXO, MARÍN - SANEAMIENTOS ROSALES  
Avenida Doctor Otero Ulloa, 1 - T: 986 702 041 - F: 986 702 080  
VIGO - SANEAMIENTOS ROSALES  
García Barbón, 139 - B - T: 986 228 806

## SALAMANCA

VILLARES DE LA REINA - PORCELANOSA  
Poligono Villares. Ctra. Salamanca - Valladolid, km 2,2 - T: 923 243 811 - F: 923 123 414

## SANTA CRUZ DE TENERIFE

LOS LLANOS DE ARIDANE - AFELSA  
Las Rosas, s/n - T: 922 461 112 - F: 922 461 166  
SANTA CRUZ DE LA PALMA - AFELSA  
Abenguareme, 3 - T: 922 412 143 - F: 922 420 012  
SANTA CRUZ DE TENERIFE - PORCELANAS Y PAVIMENTOS CANARIOS  
Avenida 3 de Mayo, 18 - T: 922 209 595 - F: 922 209 596

## SEGOVIA

EL ESPINAR - SEGOCER  
Carretera Madrid - La Coruña, km 64 - T: 921 172 426 - F: 921 171 828  
SEGOVIA - SEGÓCER  
José Zorrilla, 134 - T: 921 444 122

## SEVILLA

DOS HERMANAS - PORCELANOSA  
Parque Comercial, Zona 2. Doctor Fleming, sector 13, parcela 3  
T: 955 663 558 - F: 955 661 368  
LORA DEL RÍO - HERNÁNDEZ CARBALLO  
Betis s/n - T: 955 800 473 - F: 955 801 439  
SEVILLA - PORCELANOSA  
Calle Tipografía, s/n. Poligono Industrial La Negrilla. (Autovía A-92 dirección Granada)  
T: 954 260 540 - F: 954 528 681  
TOMARES - PORCELANOSA  
San Roque, s/n. Poligono El Manchón - T: 954 152 792 - F: 954 153 188

## SORIA

SORIA - MC ODORICIO  
Poligono las Casas-II. Calles A y J, Parcela 201 - T: 975 233 228 - F: 975 232 188

## TARRAGONA

CAMBRILS - MONSERRATE ESTIL CERAMIC  
Poligon industrial Belianes nau 5. Carretera Cambrils-Montbrío  
T: 977 364 900 - F: 977 364 953  
ALCOVER - EXPOMAT ALCOVER  
Calle Tramuntana, s/n (Poligono Roques Roges) - T: 977 760 476  
EL VENDRELL - VIUDA DE ANTONIO FONT  
Carrer de Valls 12 - T: 977 660 794 - F: 977 662 217  
REUS - COMERCIAL STC  
Plaça De les Oques, 8 - T: 977 312 502 - F: 977 317 211  
RODA DE BARA - CONSTRUCCIONS CIURO  
Acceso a Roda de Bara km 1 - T: 977 802 951 - F: 977 802 012  
VALLS - RAMON MAGRIÑA BATALLA  
Carrer Montblac, 14 - T: 977 600 210 - F: 977 603 302  
TORTOSA - MATERIALS GISBERT  
Carretera Gandesa km 3,5 - T: 977 500 306 - F: 977 501 550  
EL VENDRELL - COMERCIAL STC  
Carrer Terrissaires, 1 - T: 977 661 951

## TERUEL

TERUEL - GARGÓN  
Poligono La Paz, Parcela 143-149 - T: 978 609 661 - F: 978 607 980

## TOLEDO

TOLEDO - PORCELANOSA  
Poligono industrial Santa Maria de Benquerencia, Calle del Río Marchés,123  
T: 925 232 402 - F: 925 232 406  
ILLESCAS - BIGMAT ALOTRANS  
Carretera A-42, km 32 - T: 925 532 011 - F: 925 513 055

## VALENCIA

ALBUIXECH - PORCELANOSA  
Avenida del Mediterráneo, Parcela 6. Poligono industrial del Mediterráneo - T: 961 417 227 - F: 961 402 389  
GANDÍA - PORCELANOSA  
Zona Cial, La Vital, Avda. de La Vital, 43-A - T: 962 954 105 - F: 962 965 980  
PATERNA - PORCELANOSA  
Zona Comercial Heron City, Pista Ademuz salidas 6-7 - Calle V-1. Parc.1 Sec.14 - T: 963 160 348 - F: 963 160 599  
SEDAVI - PORCELANOSA  
Avenida Mediterráneo, s/n. Zona Comercial de Sedavi - T: 963 185 021 - F: 963 180 094  
VALENCIA - PORCELANOSA  
Colón, 56 - T: 963 530 230 - F: 963 531 688

## VALLADOLID

VALLADOLID - CANTALAPIEDRA  
Carretera de Soria A-24, km 5,5 - T: 983 217 010 - F: 983 200 921

## VIZCAYA

AMOREBIETA - BILBU  
Barrio Boroa, s/n - T: 946 731 158 - F: 946 733 265  
BILBAO - BILBU  
Iturriaga, 78 - T: 944 113 018 - F: 944 128 637  
BILBAO - BILBU  
Alameda Recalde, 39 - 41 - T: 944 218 625 - F: 944 218 879

## ZAMORA

ZAMORA - PORCELANOSA  
Avenida Cardenal Cisneros, s/n - T: 980 519 283 - F: 980 529 404

## ZARAGOZA

ZARAGOZA - PORCELANOSA  
Parque Comercial Puerto Venecia - T: 976 930 800 - F: 976 930 603  
ZARAGOZA - PORCELANOSA  
Autovia de Logroño, km 2 - T: 976 403 131 - F: 976 300 094  
ZARAGOZA - PORCELANOSA  
Plataforma Logística PLA-ZA, Calle Taormina, 2 - T: 876 269 500 - F: 876 269 389

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## ALBANIA

TIRANA - ALBA CERAMICA PORCELANOSA GRUPO

T: +355 4 22 33 817 - F: +355 4 22 33 817

TIRANA - ALBA CERAMICA

T: +355 4 83 00 084 - F: +355 4 83 00 084

## ALGERIA

ALGER - NOVACASA

T: +00213 21 55 07 37 - F: +00213 21 21 19 39

## ANGOLA

LUANDA - PORCELANOSA ANGOLA

T: +244 928463705 - F: +244 222372374

## ARGENTINA

BUENOS AIRES - NESTOR O. MACAGNO

T: +54 11 477 630 08 - F: +54 11 477 630 08

BUENOS AIRES - BLAISTEN S.A.

T: +54 11 463 620 00 - F: +54 11 463 614 86

BUENOS AIRES - BARUGEL, AZULAY & CIA

T: 11 4704 1500

MAR DE PLATA - IMEPHO

T: (54) 223 481 3827

MENDOZA - VICTOR GULLO

T: (54) 261 431 4200

## ARMENIA

YEREVAN - SACO & ARARAT-SALON BOMOND

T: +37 410 55 08 99 - F: +37 410 51 75 81

## AUSTRALIA

ADELAIDE - ITALIA CERAMICS

T: +61 8 8336 2366 - F: +61 8 8336 9016

AUSTRALIAN REPRESENTATIVE - AUSTRALIAN FACTORY REPRESENTATIVE

T: +61 8 81186244 - F: +61 8 8118 6220

BRISBANE - TELESCOPE IMPORTS

T: +61 7 3371 5777 - F: +61 7 3371 5133

HOBART - ROSSETTO TILING

T: +61 3 6231 2931 - F: +61 3 6231 5783

LAUNCESTON - ROSSETTO TILING

T: +61 3 6326 4955 - F: +61 3 6326 6003

MELBOURNE - EARP BROS TILE

T: +61 3 9328 8598 - F: +61 3 9348 9996

NEWCASTLE - EARP BROSTILE

T: +61 2 4925 4555 - F: +61 2 4962 2926

PERTH - MIDDLE SWAN TRADING

T: +61 8 9445 1777 - F: +61 8 9446 3127

SUNSHINE COAST - ACE STONE & TILES

T: +61 7 5493 3344 - F: +61 7 5493 3117

SYDNEY - EARP BROSTILE

T: +61 2 9410 3222 - F: +61 2 9410 2011

SYDNEY - PORCELANOSA KITCHENS

T: +61 2 9211 1998 - F: +61 2 9212 1330

## AUSTRIA

BRUCK/MUR - TENNE BRUCK

T: +43 3862 588 44 - F: +43 3862 588 44-22

GRAZ - FLIESEN TENNE

T: +43 316 262 5240 - F: +43 316 262 524 22

GRAZ - TENNE GRAZ

T: +43 316 26 25 24 - F: +43 316 26 25 24-22

LEIBNITZ - TENNE LIBNITZ KINDERMANN BAD & HEIZTECHNIK

T: +43 3452 707-65 - F: +43 3452 707-29

LINZ - BEINKOFER

T: +43 732 776 543 0 - F: +43 732 776 543 60

SALZBURG - STURMBERGER KERAMIKAGENTUR

T: +43 662 879 322 - F: +43 662 872 389

VÖSENDORF - TENNE VÖSENDORF

T: +43 1 699 33 33 - F: +43 1 699 33 33-22

WIEN - TENNE WIEN 22 BADKULT-NORT

T: +43 1 20 20 520 - F: +43 1 20 20 520-20

## AZERBAIJAN

BAKU - AKSESUAR PORCELANOSA GRUPO

T: +994 12 596 25 48 - +994 12 497 31 03 - F: +994 12 447 43 83

BAKU - AKSESUAR INSAAT

T: +994 12 546 74 86 - F: +994 12 546 74 86

## BAHRAIN

MANAMA - AL ABBAS GALLERY

T: +973 741 919 - F: +973 741 747

## BELARUS

GOMEL - POLCAR IMPEX

T: +375 2327 76919 - F: +375 2327 76757

MINSK - POLCAR IMPEX

T: +375 1721 78785 - F: +375 1721 75632

## BELGIUM

HEIST-OP-DEN-BERG - PGB CERAMICA NV

T: +32 (0)15 253366 - F: +32 (0)15 253367

OUDE-TURNHOUT - BELGIAN LIFESTYLE

T: +32 489 545 420

## BERMUDAS

PEMBROKE - PEMBROKE TILE & STONE CO. LTD

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T: +591 3 364 7313 - F: +591 3 347 6226

## BOSNIA AND HERZEGOVINA

BANJA LUKA - LUK D.O.O.

T: +387 51 379 261/262 - F: +387 51 370 887

BIJELJINA - LUK D.O.O.

T: +387 55 228 100 - F: +387 55 228 101

CITLUK - BROTIS D.O.O.

T: +387 633 21500 - F: +387 366 50950

SARAJEVO - LUK D.O.O.

T: +387 33 777 888 - F: +387 33 777 889

## BRAZIL

CAMPO LARGO - PORCELANOSA BRASIL REVESTIMENTOS LTDA

T: +55 (41) 3392 1500 - F: +55 (41) 3392 1400

SÃO PAULO - TELHANORTE CONCEITO

T: +55 11 2139-9650

## BULGARIA

PETRICH - NIKMAR

T: +359 866 321 111 - F: +359 745 234 64

SOFIA - ELIS-GE EOOD

T: +359 2 860 60 60

SOFIA - NIKMAR

T: +359 2 868 93 95

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T: +395 888 143 313

VARNA - ELIS-GE EOOD

T: +395 52 500 555

## CAMBODIA

PHNOM PENH - UY HOUT MODERN CERAMIC TILES

T: +855 11-307777 - F: +855 23-210658

## CANADA

VANCOUVER - FONTILE DISTRIBUTORS

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SANTIAGO - BUDNIK HERMANOS S.A.

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CHILE - SANTIAGO - ATIKRA

T: 2 488 3000

## CHINA

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CHENGDU - DE HUA SANITARYWARE

T: +86 28 8775100181 - F: +86 28 8774721681

CHONGQING - YAO CHENG BUILDING MATERIALS

T: +86 23 86358360 - F: +86 23 86357182

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T: +86 411 8230 1911 - F: +86 411 8230 1911

FUZHOU - PO YICK BUILDING MATERIALS CO. LTD

T: +86 591 8805 5823 - F: +86 591 8805 5823

GUANGZHOU - PO YICK BUILDING MATERIALS CO. LTD (FAFA)

T: +86 20 2200 8228 - F: +86 20 2200 8230

GUANGZHOU - PO YICK BUILDING MATERIALS CO. LTD (MAFO)

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HAIKOU - XIN HUA FINE WORKS CERAMIC MATERIALS CO.

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HANGHOU - MING OU BUILDING MATERIALS CO.

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QUINGDAO - TOLI SPACE MATERIALS

T: +86 532 80995657 - F: +86 532 80995657

SHANGHAI - PO YICK BUILDING MATERIALS CO. LTD

T: +86 21 6438 3735 - F: +86 21 6428 1607

SHENYANG - BAO LU SHA PO YICK BUILDING MATERIALS CO. LTD

T: +86 24 8563 7137 - F: +86 24 8563 7137

SHENZHEN - PO YICK BUILDING MATERIALS CO. LTD (HONGHU LU)

T: +86 755 2562 0359 - F: +86 755 2562 0344

SHENZHEN - PO YICK BUILDING MATERIALS CO. LTD (BAILIMA)

T: +86 755 8240 7728 - F: +86 755 8240 7738

TIANJIN - OU LIN HUI BUILDING MATERIALS

T: +86 22 23528765 - F: +86 22 88277023

WENZHOU - MING HOME INTERNATIONAL MATERIALS CO. LTD

T: +86 577 8971 2011 - F: +86 577 8971 2066

XIAMEN - PO YICK CERAMIC TILES

T: +86 952 3755123 - F: +86 951 88055823

## COLOMBIA

BOGOTÁ - PROSEIN

T: +57 743 5566

BARRANQUILLA - D.J.M.C.E.

T: +57 5 3006208

## CONGO, DEMOCRATIC REPUBLIC

KINSHASA - SOCIETE PANACHE

T: +243 884 1677 - F: +243 983 13893

## COSTA RICA

SAN JOSÉ - FERNANDEZ AGUILAR S.A.

T: +506 222 5674 - F: +506 221 9952

SANTA ANA - EXPOCERÁMICA ACABADOS

T: 203 3004

## CÔTE D'IVOIRE

ABIDJAN - FADCO COMPANY

T: +225 21757355 - F: +225 21757358

## CROATIA

DUBROVNIK - OTP DUBROVNIK

T: +385 20 412478 - F: +385 20 311521

POREČ - SPINA

T: +385 52 451 348 - F: +385 52 434 005

PULA - SPINA

T: +385 52 219 002 - F: +385 52 219 118

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T: +385 51 741 300 - F: +385 51 741 298

SPLIT - SPINA

T: +385 21 668 991 - F: +385 21 668 992

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T: +385 13 492 552 - F: +385 13 492 560

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NICOSIA - N.M. MARKOU BROS LTD

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PRAGUE - DESIGN BATH SE

T: +420 222 984 951

## DENMARK

GLOSTRUP - MOSAIKHJORNET

T: +45 43 633 900 - F: +45 43 663 857

ODENSE M - DANESP FLISE KOMPAGNIET APS

T: +45 661 732 21 - F: +45 661 738 21

## DOMINICAN REPUBLIC

BÁVARO - CARABELA S.R.L.

T: +1 809 466 0020 - F: +1 809 466 2006

LA ROMANA - CARABELA S.R.L.

T: +1 809 556 3606 / 809 550 9006 - F: +1 809 221 7416

SANTIAGO - CARABELA S.R.L. - PORCELANOSA

T: +1 809 971 1234 - F: +1 809 971 6728

SANTO DOMINGO - CARABELA S.R.L.

T: +1 809 544 2560 - F: +1 809 541 0818

## ECUADOR

GUAYAQUIL - ARKETIP'S CA

T: +593 422 467 52 - F: +593 422 403 96

QUITO - ARKETIP'S CA

T: +593 422 498 39 - F: +593 225 573 99

QUITO - TERRAZOS DE LOS ANDES

T: 2 241 2284

## EGYPT

EL CAIRO - MAHGOUB TRADING & IMPORTING

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## EL SALVADOR

SAN SALVADOR - FERRETERÍA DE LA CONSTRUCCIÓN FERCO

T: (503) 2510 8888 - F: (503) 2510 8810

## ESTONIA

TALLINN - PLAADIPUNKT

T: +372 650 0720 - F: +372 650 0723

## ETHIOPIA

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## COIGNIÈRES - PORCELANOSA COIGNIÈRES

T: +33 (0)130 491280 - F: +33 (0)130 491328

## GUERANDE - PORCELANOSA LA BAULE

T: +33 (0)240 607 273 - F: +33 (0)240 110 659

## LA CHAPELLE SAINT AUBIN - PORCELANOSA LE MANS

T: +33 (0)243 236 520 - F: +33 (0)243 240 512

## LA ROCHE SUR YON - PORCELANOSA LA ROCHE S/YON

T: +33 (0)251 241 217 - F: +33 (0)251 242 399

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T: +33 (0)442 466 120 - F: +33 (0)442 466 129

## LEZENNES - PORCELANOSA LILLE

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## LORIENT - PORCELANOSA LORIENT

T: +33 (0)297 875 000 - F: +33 (0)297 370 607

## MANDELIEU LA NAPOULE - PORCELANOSA CANNES/MANDELIEU

T: +33 (0)493 470 645

## MEAUX - PORCELANOSA MEAUX

T: +33 (0)160 092828 - F: +33 (0)160 093131

## MERIGNAC - PORCELANOSA BORDEAUX

T: +33 (0)556 124 848 - F: +33 (0)556 124 849

## MONDEVILLE - PORCELANOSA CAEN

T: +33 (0)231 820 000 - F: +33 (0)231 820 019

## MONTIGNY - LES CORMEILLES - PORCELANOSA MONTIGNY

T: +33 (0)139 311979 - F: +33 (0)139 311492

## NÎMES - PORCELANOSA NÎMES

T: +33 (0)466 282 780 - F: +33 (0)466 282 781

## OLIVET - PORCELANOSA ORLEANS

T: +33 (0)238 496 961 - F: +33 (0)238 496 969

## ORVAULT - PORCELANOSA NANTES

T: +33 (0)228 073 950 - F: +33 (0)228 073 957

## PÉROLS - PORCELANOSA MONTPELLIER

T: +33 (0)467 503 600 - F: +33 (0)467 501 121

## SAINT GRÉGOIRE - RENNES - PORCELANOSA RENNES

T: +33 (0)223 200 808 - F: +33 (0)299 369 688

## SOTTEVILLE LES ROUEN - PORCELANOSA ROUEN

T: +33 (0)235 650 655 - F: +33 (0)235 650 656

## VANNES - PORCELANOSA VANNES

T: +33 (0)297 460 292 - F: +33 (0)297 461 210

## VENDENHEIM - PORCELANOSA STRASBOURG

T: +33 (0)388 209 212 - F: +33 (0)388 209 107

## VERT SAINT DENIS - PORCELANOSA MELUN

T: +33 (0)160 565 747 - F: +33 (0)160 569 080

## WITTENHEIM - PORCELANOSA MULHOUSE

T: +33 (0)389 570 260 - F: +33 (0)389 570 261

## FRENCH GUIAN

CAYENNE - ETS HENRY LE GAC

T: +594 302 719 - F: +594 300 713

## GEORGIA

TBILISI - COMODIN LTD

T: +995 32332960 - F: +995 32001368

## GERMANY

ASCHAFFENBURG - KALKWERKE

T: +49 (0) 60 213 601 62 - F: +49 (0) 60 213 602 93

BAD SALZUFLEN - W. LINNENBECKER GMBH

T: +49 (0) 5222 / 5301 221 - F: +49 (0) 5222 / 5301 209

BAUTZEN - FLIESEN LEHMANN GMBH

T: +49 (0) 3591 / 3726 32 - F: +49 (0) 351 / 8931420

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T: +49 (0) 3366 / 417 0 - F: +49 (0) 3366 / 417 90

BERGISCH GLADBACH - SCHMIDT RUDERSDORF GMBH & CO

T: +49 (0) 2204 / 4007 0 771 - F: +49 (0) 3320 / 854715

BERLIN - W. LINNENBECKER GMBH & CO. KG

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T: +49 (0) 30 326 725 10 - F: +49 (0) 30 326 725 58

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T: +49 02 28 - 55 916-0

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T: +49 (0) 33208 547-0 - F: +49 (0) 03381 7304501

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T: +49 (0) 5271 / 955 251 - F: +49 (0) 5271 / 955 200

BOTTROP - W. LINNENBECKER GMBH & CO. KG

T: +49 (0) 2041 / 7958 13 - F: +49 (0) 2041 / 7958 10

BRUCHSAL - TAXIS - BRUCHSAL

T: +49 (0) 72 518 005 0 - F: +49 (0) 72 518 005 40

BURGSTÄDT - FLIESEN THOMAS FLIESENGROßHANDEL GMBH

T: +49 (0) 3724 / 1856 0 - F: +49 (0) 3724 / 1856 70

CRAILSHEIM - TAXIS - CRAILSHEIM

T: +49 (0) 7951 301 0 - F: +49 (0) 7951 301 100

DORTMUND - W. LINNENBECKER GMBH & CO. KG

T: +49 (0) 231 / 562 090 22 - F: +49 (0) 231 / 562 090 88

ELTERLEIN - FLIESNHAUS MULLER

T: +49 (0) 37349 / 7305 - F: +49 (0) 37349 / 6093

ERKRATH - W. LINNENBECKER GMBH

T: +49 (0) 211 / 92503 19 - F: +49 (0) 211 / 92503 34

FRANKFURT - KÖBIG FRANKFURT, HAUS DER FLIESEN HANAUER

T: +49 069 405 00 36 - F: +49 069 405 00 370

## FREIBURG - GÖTZ & MORIZ GMBH

T: +49 (0) 76 145 180 - F: +49 (0) 76 145 711 2

## FULDA - OSWALD KERAMIK UND STEIN GMBH

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## GERA - BAUSTOFFE GEBR.LÖFFLER GMBH

T: +49 (0) 365 430 701 9 - F: +49 (0) 365 430 701 4

## GÖRLITZ - FLIESEN-PEDERSEN GMBH

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T: +49 (0) 40 / 83383 377 - F: +49 (0) 40 / 83383 301

## HAREN/EMS - MICHAEL JANZEN

T: +49 (0) 17 045 121 95

## KARLSTADT - FLIESEN GEHRET

T: +49 (0) 93 539 731 0 - F: +49 (0) 93 539 731 26

## KEHL / RHEIN - TAXIS - KEHL

T: +49 (0) 78 519 383 16 - F: +49 (0) 78 519 383 20

## KOBLENZ - J. N. KÖBIG GMBH - KOBLENZ

T: +49 (0) 26 198 169 20 - F: +49 (0) 26 198 169 10

## KRANICHFELD - MÜHL 24 - KRANICHFELD

T: +49 (0) 36 450 330 - F: +49 (0) 36 450 332 89

## LEVERKUSEN - SCHMIDT-RUDERSDORF- LEVERKUSEN

T: +49 02 14 - 8 68 13 0 - F: +49 02 14 - 8 68 13 13

## LICHTENFELS - FLIESEN DIPPOLD EK

T: +49 (0) 95 719 241 0 - F: +49 (0) 95 719 241 41

## LÖBNITZ - SACHSENKERAM GBR

T: +49 (0) 34208 / 7400 - F: +49 (0) 34208 / 7400

## MAINZ - J. N. KÖBIG GMBH - MAINZ

T: +49 061 316 943 10 - F: +49 061 316 942 75

## MESCHDE - W. LINNENBECKER GMBH & CO. KG

T: +49 (0) 291 / 952 82 21 - F: +49 (0) 291 / 952 82 82

## MÜNCHEN - CERAMICAS OHG

T: +49 (0) 89 318 280 0 - F: +49 (0) 89 318 280 20

## MÜNSTER - W. LINNENBECKER GMBH & CO. KG

T: +49 (0) 251 / 979 12 21 - F: +49 (0) 251 / 979 1220

## NORDHAUSEN - HERMANN BACH GMBH & CO. KG

T: +49 (0) 3631 / 633 126 - F: +49 (0) 3631 / 633 143

## NÜRNBERG/HAFEN - HEINRICH CHRIST GMBH & CO. KG

T: +49 (0) 91 164 318 0 - F: +49 (0) 91 164 318 50

## PLAUE - MATTHIAS SCHUH

T: +49(0) 374 1203 881

## RADEBEUL - FLIESEN EHRLICH & CO. GMBH

T: +49 (0) 351 / 89314 10 - F: +49 (0) 351 / 89314 20

## REUTLINGEN - TAXIS - REUTLINGEN

T: +49 (0) 71 219 884 0 - F: +49 (0) 71 219 884 40

## RONNENBERG / EMPELDE - W. LINNENBECKER GMBH & CO. KG

T: +49 (0) 511 / 438 90 36 - F: +49 (0) 511 / 438 90 49

## SCHRAMBERG - SÜLGEN - ARMBRUSTER GMBH

T: +49 (0) 7422 28008-0 - F: +49 (0) 7422 28008-20

## SCHWABACH - ULRICH POLSTER

T: +49 (0) 912 270 09 - F: +49 (0) 912 275 187

## STUHR-MOORDERCH - NORBERT BANG

T: +49 (0) 42 156 591 78 - F: +49 (0) 42 156 591 79

## STUTTGART - TAXIS - STUTTGART

T: +49 (0) 71 189 003 121 - F: +49 (0) 71 189 003 104

## VÖLKLINGEN - NIEDERER GMBH

T: +49 (0) 68 989 802 21 - F: +49 (0) 68 989 802 30

## VS-SCHWENNINGEN - TAXIS - SCHWENNINGEN

T: +49 (0) 77 206 927 0 - F: +49 (0) 77 206 927 35

## WEINSBERG - BSF BAU CENTER GMBH

T: +49 (0) 71 349 130 - F: +49 (0) 71 349 131 00

## WÜRSELEN - SCHMIDT-RUDERSDORF- WÜRSELEN

T: +49 0 24 05 - 41 38 50 - F: +49 0 24 05 - 41 38 55

## WIESBADEN-BIEBRICH - J. N. KÖBIG GMBH - WIESBADEN

T: +49 (0) 611 27810 - F: +49 (0) 611 25674

## ZWETHAU - GRAMER GMBH

T: +49 (0) 3421 / 7327 18 - F: +49 (0) 3421 / 7326 73

## GHANA

DZORWULU-ACCRA - ROUGE INTERIORS

T: +223 302 734752

## GIBRALTAR

GIBRALTAR - LIFESTYLE DESING STUDIO

T: +35058008570

## GREECE

ATTICA - AURORA BAGNO

T: +30 2105 594 520 - F: +30 2105 594 521

GRECIA - THESALONIKI - HATZ GROUP

T: +30 2310 752 902 - F: +30 2310 753 564

## GUADELOUPE (FRENCH ANTILLES)

BAIE MAHAULT - GUADELOUPE CERAMIQUE

T: +590 266 261 - F: +590 266 412

SAINT BARTHELEMY - ALMA QUINCAILLERIE

T: +590 276 494 - F: +590 276 738

## GUATEMALA

CIUDAD DE GUATEMALA - FERRERIA DE LA CONSTRUCCIÓN FERCO

T: (+502) 2421 9000 - F: (+502) 2421 9009

## HAITI

PORT AU PRINCE - EUROCERAM

T: 509 250 57 14 - F: 509 250 57 15

## HONG KONG

HONG KONG - TAI YICK BUILDING MATERIALS

T: +852 23 956 670 - F: +852 23 957 831

HONG KONG - WANCHAI - PACIFIC B.M.

T: 25438870

## HUNGARY

BUDAPEST - PORCAHUNGARY KFT

T: +36 1 237 08 78

## BUDAPEST - PALATINUS FURDOSZOBASZALONOK

T: +36 1-430-04-17 - F: +36 1-387-91-36

## DREBECEN - PALATINUS FURDOSZOBASZALONOK

T: +36 52 531 476 - F: +36 52 536 822

## EGER - PALATINUS FURDOSZOBASZALONOK

T: +36 0636-312-013 - F: +36 0636-313-270

## GYÖNGYÖS - PALATINUS FURDOSZOBASZALONOK

T: +36 37-500-162 - F: +36 37-500-163

## MISKOLC - PALATINUS FURDOSZOBASZALONOK

T: +36 46-412-741 - F: +36 46-416-256

## KECSKEMET - PALATINUS FURDOSZOBASZALONOK

T: +36 76 412 272 - F: +36 76 509 204

## BÉKÉSCSABA - PALATINUS FURDOSZOBASZALONOK

T: +36 66 328 432 - F: +36 66 328 432

## ICELAND

REYKJAVIK - 4 - ALFABORG EHF

T: +354 568 6755 - F: +354 568 1277

## INDIA

NEW DELHI - MARMO HOME PVT. LTD.

T: +91 11 47128800 - F: +91 11 23218728

## INDONESIA

BANDUNG - WISMA SEHATI (BANDUNG)

T: +62 22 723

# Magasins à l'international

## KAZAKHSTAN

ALMATY - PALATIN

T: +7 (727) 395 78 78 - +7 (727) 351 98 98

ALMATY - STOCK

T: +7 (727) 275 50 36

ASTANA - PALATIN

T: +7 (7172) 92 82 82

## KOSOVO

PRISHTINA - N P KERASAN

T: +381 38 602 667 - F: +381 38 602 667

## KUWAIT

SAFAT - HASSAN ABUL HASSAN SADIQ

T: +965 262 4466 - F: +965 265 1444

## LATVIA

RIGA - TORMANIS UN PARTNERI

T: +371 784 5361 - F: +371 784 5360

## LEBANON

BEIRUT - ANTOINE EL HAGE

T: +961 3 622 314 - F: +961 9 636 782

## LIBYAN

BENGHAZI - EL RAGUOBI

T: 218 61 4704533 - F: 218 61 2237328

TRIPOLI - EL RAGUOBI

T: 218 91 3274885

## LITHUANIA

ALYTUS - IRIS LTD

T: +370 315 55969 - F: +370 315 55968

## MACEDONIA

SKOPIE - TE LINDI DOO

T: +389 2 2 602 628 - F: +389 2 2 602 638

## MALAYSIA

KUALA LUMPUR - APEX CERAMICS CITY

T: +603 4043 8333 - F: +603 4044 3339

## MALTA

BIRKIRKARA - ROGER SATARIANO & SONS LTD

T: +356 21 442 769 - F: +356 21 497 017

## MARTINIQUE (FRENCH ANTILLES)

LAMENTIN - JOSEPH COTTRELL S.A.

T: +596 509 810 - F: +596 506 524

LAMENTIN - SERVIMAT DESIGN DECO S.A.S.

T: +596 (42) 2959

## MAURITIUS

PORT LOUIS - LISING & CO LTD

T: 230 242 1248 - F: 230 240 3123

## MEXICO

INTERLOMAS - DESIGN CENTER INTERLOMAS

T: +55 36 05 00 64 - +55 36 05 00 65 - +55 36 05 00 67

VALLE DORADO - PORCELANOSA MÉXICO

T: +55 2620 0186 - +55 5831 7340 - 01 800 833 23 02

MÉXICO DF - PORCELANOSA MÉXICO

T: +55 5831 7340

## MOLDOVA

CHISINAU - CASAMODERNA

T: +373 22 810 260, 810 201, 810 202, 810 207 - F: +373 22 810 221

CHISINAU - PLIMED

T: +373 2 2501252/54/55/56 - F: +373 2 2716824

DALIA - CHISINAU

T: 223 82 93

## MONTENEGRO

BAR - VIP HOMES

T: +382 304 100 - F: +382 340 900

## MOROCCO

CASABLANCA - SANITAIRE 2000

T: +212 22 363 225 - F: +212 22 394 100

CASABLANCA - CERAMEX

T: +212 945 3646166 - F: +212 5223 395363

TANGER - FACENOR S.A.

T: +212 39 941 910 - F: +212 39 945 445

## NEPAL

KATMANDU - BAJRA & BAJRACHARYA ENT.

T: +977 1 552 4851 - F: +977 1 552 4851

## NETHERLANDS

VENLO - PGN CERAMICA B.V.

T: +32 (0)15 253366 - F: +32 (0)15 253367

## NETHERLANDS ANTILLES

SAINT MAARTEN - BUILDING INDUSTRY PRODUCT

T: +599 544 5203 - F: +599 544 2821

## NEW ZEALAND

AUCKLAND - TILECO LTD

T: +64 9 573 5736 - F: +64 9 573 5737

CHRISTCHURCH - ITALIAN CERAMIC TILES

T: +64 3 348 6919 - F: +61 3 343 0695

## NICARAGUA

MANAGUA - DECO CENTER - GRUPO IBERICA NICARAGUA

T: +505 270 2121 - F: +505 277 0834

## NORWAY

OSLO - FAGFLIS

T: +47 228 085 60

## OMAN

ROYAL TILES CO

T: +968 9586 8897

## PAKISTAN

KARACHI - S. ABDULLA & CO.

T: +92 21 585 0490 - F: +92 21 585 0230

LAHORE - CONSTRUCCION SOLUTIONS

T: +92 0321 4036091

## PANAMA

PUNTA PACIFICA, SAN FRANCISCO - EURO CER S.A.

T: +507 21 53660

## PERU

LIMA - CASSINELLI

T: +51 14 513 712 - F: +51 15 612 757

LIMA - ARQ-STUDIO

T: +51 143 5729

## PHILIPPINES

TAGUIG - CASA EUROPA INC.

T: +63 2 519 3515

## POLAND

BIALYSTOK - AKCESS

T: +48 85 6643436 - F: +48 85 6643434

BIELSKO BIALA - ADARI

T: +48 33 822 0449 - F: +48 33 822 0449

BIELSKO BIALA - P.H.U. CERAMED

T: +48 33 829 8770 - F: +48 33 829 8773

BYDGOSZCZ - CERMAG POZNAN

T: +48 52 348 93 43 - F: +48 52 348 93 54

CZESTOCHOWA - P.H.U. FUGA

T: +48 343682944 - F: +48 343682944

GLIWICE - ADARI

T: +48 32 232 2155 - F: +48 32 232 2155

GLIWICE - ART CERAMIKA

T: +48 32 339 8200 - F: +48 32 339 8209

LESZNO - CERMAG POZNAN

T: +48 65 529 63 63 - F: +48 65 529 63 63

KATOWICE - ADARI

T: +48 32 258 9574 - F: +48 32 258 9574

GORZÓW WLKP - STREFA ARCHITEKTA

T: +48 95 721 41 08 - F: +48 95 721 41 08

KOSZALIN - STREFA ARCHITEKTA

T: +48 94 343 08 32

KALISZ - STREFA ARCHITEKTA

T: +48 62 502 10 15 - F: +48 62 502 20 66

KIELCE - EXCLUSIVE

T: +48 41 345 75 49

KOLOBRZEG - CERMAG POZNAN

T: +48 94 355 18 88 - F: +48 94 355 18 80

KONIN - STREFA ARCHITEKTA

T: +48 63 243 31 14 - F: +48 63 243 30 97

KRAKÓW - MAX FLIZ

T: +48 01 229 07060 - F: +48 01 229 07060

LODZ - FUMINO

T: +48 426373767

LUBLIN - EGEN

T: +48 81 441 58 42 - F: +48 81 441 80 74

OLSZTYN - CERMAG POZNAN

T: +48 89 534 41 21

OSTRÓW WLKP - CEERMAG POZNAN

T: +48 62 735 81 12 - F: +48 62 737 28 91

POZNAN - CERMAG POZNAN

T: +48 61 835 97 50-54 - F: +48 61 830 23 78

RADOM - CERAMIKA PRIMUS

T: +48 48 381 0287 - F: +48 48 381 0290

RZESZÓW - F.H. BOZ S.A.

T: +48 17 850 0315 - F: +48 17 850 0341

SLUPSK - SLUPSK - GRESMAX

T: +48 59 843 4153 - F: +48 59 843 4153

SOPOT - CERMAG POZNAN

T: +48 58 550 4235 - F: +48 58 550 5459

SZCZECIN - STREFA ARCHITEKTA

T: +48 91 434 00 48 - F: +48 91 434 07 35

WARSZAWA - WOIS SP Z.O.O

T: +48 22 6127213 - F: +48 22 6127216

WARSZAWA - GRESTON

T: +48 022 720 5525 - F: +48 022 720 5524

WARSZAWA - CERMAG POZNAN

T: +48 22 252 57 39 - F: +48 22 252 57 39

WROCLAW - CERMAG WROCLAW

T: +48 717 820 021 - F: +48 717 820 031

## PORTUGAL

PORTO - PORCELANOSA PORTO S.A.

T: +351 226 166 600 - F: +351 226 161 959

LISBOA - PORCELANOSA LISBOA

T: +351 218 313 020 - F: +351 218 313 029

VISEU - PORCELANOSA VISEU

T: +351 232 430440 - F: +351 232 430449

## PRINCIPALITY OF ANDORRA

ANDORRA LA VELLA - MATERIALS PIRINEU

T: +376 822 353

## PUERTO RICO

SAN JUAN - THE TILE SHOP

T: +1 787 775 2030 - F: +1 787 707 0138

GUAYNABO - THE TILE SHOP

T: +1 787 720 2030 - F: +1 787 790 2030

## QATAR

QATAR - UNITED SUPPLIES

T: +974 46 85 164 - F: +974 46 85 165

## REUNION ISLAND (FRANCE)

SAINT DENIS - RAVATE PROFESSIONNEL SAS

T: +262 904 024 - F: +262 904 057

SAINT DENIS - L'ESPACE BAIN DOUCHE

T: +262 212 100 - F: +262 212 101

SAINT PIERRE - L'ESPACE BAIN DOUCHE

T: +262 353 536 - F: +262 266 394

## ROMANIA

BACAU - SSAB IMPEX

T: +40 234 513 957 - F: +40 234 518 436

BACAU - DELTA DESING

T: 0372 710827

BRASOV - DELTA DESING

T: 0372 710812

BUCAREST - SSAB IMPEX

T: +40 214 113 009 - F: +40 214 120 097

BUCAREST - DELTA DESING

T: 021 4934129

BUCAREST - DELTA DESING

T: 0372 710802

BUCAREST - DELTA DESING

T: 021 4112546

BUCAREST - DELTA CONCEPT STORE

T: 0372 710808

CONSTANZA - SSAB IMPEX

T: +40 241 508 446 - F: +40 241 508 436

CRAIOVA - SC MYDWAY IMPEX SRL

T: +40 722 285 029 - F: +40 251 427 946

IASI - DELTA CONCEPT STORE

T: 0350 416701

PITESTI - DELTA DESING

T: 0372 710832

PLOIESTI - DELTA DESING

T: 0372 710834

ORADEA - MAISON DESING

T: +40 743 507 811 - F: +40 259 410 170

## RUSSIA

EKATERINBURG - GALLEREYA KERAMIKI

T: +7 (343) 264 52 52

IRKUTSK - SALON ISPANSKOY KERAMIKI PIRAMIDA

T: +7 (3952) 483 113

KALININGRAD - T. TS. GIANT

T: +7 (4012) 510 402

KALININGRAD - KERAMIKA & KERAMONGRANIT

T: +7 (4012) 370 460 - F: +7 (4012) 370 460

KALUGA - MASTER DOM

T: +7 (4842) 222 812

KAZAN - AKCHARLAK

T: +7 - 8432

KRASNODAR - SALON BOMOND

T: +7 (862) 234 10 75

KHIMKI - INTERIER KERAMIKA

T: +7 (495) 747 31 69

MAKHACHKALA - T. D. MODERN

T: +7 (8722) 676 569

MOSCOW - ARTISAN

T: +7 (499) 317 13 81

MOSCOW - ARTISAN DOM PLITKI

T: +7 (495) 742 40 40

MOSCOW - FIRMENY SALON PORCELANOSA GRUPO

T: +7 (499) 120 55 74

MOSCOW - INTERIER KERAMIKA



# Magasins à l'international

PYATIGORSK - SALON BOMOND

T: +7 (8793) 975 544

ROSTOV NA DONU - SALON BOMOND

T: +7 (863) 266 50 34

SOCHI - SALON BOMOND

T: +7 (8622) 612 317

STAVROPOL - SALON VALENCIA

T: +7 (8652) 298 151

ST. PETERSBURG - BALTECO

T: +7 (812) 388 07 05

ST. PETERSBURG - DOM LAVERNA

T: +7 (812) 7777 030

ST. PETERSBURG - DOM LAVERNA

T: +7 (812) 329 56 65

ST. PETERSBURG - DOM LAVERNA

T: +7 (812) 327 94 09

ST. PETERSBURG - SALON ELITNOY KERAMIKI NOVUS

T: +7 (812) 325 12 45

ST. PETERSBURG - INTERIER KERAMIKA

T: +7 812 994 79 49

VLADIVOSTOK - DOM APEX

T: +7 (4232) 300 688

## SAUDI ARABIA

JEDDAH - MANART AL ANDALOS EST

T: +966 2 629 3402 - F: +966 2 629 3416

RIYADH - MANART AL ANDALOS EST

T: +966 1 282 1500

AL AHSÄ - KHALED AL ANSARI SHOWROOM

T: +966 3 5892888 - F: +966 3 5817043

DAMMAM - KHALED AL ANSARI-VALENCIA SOWROOM

T: +966 3 8180355 - F: +966 3 8188060

## SENEGAL

DAKAR - C.C.S.

T: +221 33 849 04 04 - F: +221 33 823 13 10

## SERBIA

BELGRADO - CERAMIC BY PORCELANOSA

T: +381 11 3343026 - F: +381 11 3343297

NOVI SAD - RACA KOMERC

T: +381 21 451 534 - F: +381 21 472 0668

## SINGAPORE

SINGAPUR - FERNANDO MARTIN BENITO

T: +65 97801472 - F: +65 64621620

## SLOVENIA

LJUBLJANA - KEOR D.O.O.

T: +386 1 542 14 86 - F: +386 1 542 14 88

MARIBOR - KEOR D.O.O.

T: +386 2 480 54 15 - F: +386 2 471 06 33

MARIBOR - MAVI MARIBOR D.O.O.

T: +386 2 23 50 316 - F: +386 2 23 50 312

## SOUTH AFRICA

CAPE TOWN - KENZAN TILES

T: +27 21 5108310 - F: +27 21 5108317

DURBAN - CLASSIC TRADING

T: +27 31 577 8382 - F: +27 31 577 7056

JOHANNESBURGO - CLASSIC TRADING

T: +27 11 656 0400 - F: +27 11 656 0403

## SOUTH KOREA

SEOUL - T&S TRADING CO. LTD

T: +82 2 5163123 - F: +82 2 5163009

## SRI LANKA

COLOMBO 13 - RANJANAS CERAMIC

T: +94 11 2543255 - F: +94 11 2381386

## SURINAME

PARAMARIBO - NV RONANS TRADING

T: +597 451070 - F: +597 450066

## SWEDEN

DANDERYD - AQUA ROYAL

T: +46 8 753 03 10 - F: +46 8 753 62 40

ENKÖPING - LHADOS KAKEL AB

T: +46 171 478 090 - F: +46 171 478 099

HÄSSLEHOLM - STENMONTÖREN AB

T: +46 451 381 970 - F: +46 451 381 979

MALMÖ - KERMA KAKEL AB

T: +46 403 122 40 - F: +46 403 122 59

BROMMA - KAKELPALATZET I BROMMA AB

T: +46(0)8-56 487 831 - F: +46(0)8-988 620

GÖTEBORG - KAKELPALATZET I BÄCKEBOL AB

T: +46(0)31-571 478 - F: +46(0)31-571 477

KATRINEHOLM - KAKELPALATZET I KATRINEHOLM AB

T: +46(0)150-51 740 - F: +46(0)150-51 775

MÖLNDAL - KAKELPALATZET I MÖLNDAL (CENTRAL)

T: +46(0)31-776 50 51 - F: +46(0)31-86 39 62

NYKÖPING - KAKELPALATZET I NYKÖPING AB

T: +46(0)155-200 999 - F: +46(0)155-211 244

UDDEVALLA - KAKELPALATZET I UDDEVALLA AB

T: +46(0)522-64 54 00 - F: +46(0)0522-64 54

## SWITZERLAND

CRISSIER - SABAG SA

T: +41 21 633 06 84 - F: +41 21 633 06 85

GENEVE - SABAG SA

T: +41 22 908 06 90 - F: +41 22 908 06 95

LOSONE - BAZZI PIASTRELLE

T: +41 91 792 16 02 - F: +41 91 792 18 02

PURA - SACCOMANNO TRADE AGENCY

T: +41 796 20 85 90 - F: +41 916 00 97 71

## SYRIAN

SIRIA - DAMASK ROSE

T: +963 11 334 6600 - F: +963 11 334 6601

## TAIWAN

KAOSHIUNG - NEW CENTURY CONSTRUCTIONAL

T: +886 7 384 8834 - F: +886 7 387 1043

TAICHUNG - NEW CENTURY CONSTRUCTIONAL

T: +886 4 2372 8166 - F: +886 4 2376 2818

## THAILAND

BANGKOK - BOONTHAVORN CERAMIC (RATCHADAPISEK)

T: +66 2275-0029 - F: +66 2275-2057

PATHUMTHANEE - BOONTHAVORN CERAMIC CO.LTD (RANGSIT)

T: +66 2902-0171 - F: +66 2902-0184

BANGKOK - BOONTHAVORN CERAMIC CO. LTD (PIN-KLAO)

T: +66 2441-3075 - F: +66 2441-4049

BANGKOK - BOONTHAVORN CERAMIC CO. LTD. (SUVARNNABHUMI)

T: +66 2316-0429 - F: +66 2750-0682

BANGKOK - BOONTHAVORN CERAMIC CO. LTD. (KASET NAVAMIN)

T: +66 2791-2777 - F: +66 2943-9058

SAMUTSAKON - BOONTHAVORN CERAMIC CO. LTD. (TONBURI-PAKTOR)

T: +66 2896-4471-2 - F: +66 2896-4473

PRACHUABKIRIKUN - BOONTHAVORN CERAMIC CO. LTD. (HUAHIN)

T: +66 3252-2555//+66 5488-4144 - F: +66 3252-0141

BANGKOK - BOONTHAVORN CERAMIC CO. LTD (PATTAYA)

T: +66 38 052 222 - F: +66 38 052 221

## TUNISIA

TUNÈZ - LIFE STYLE

T: +216 71 861 551 - F: +216 71 861 549

TUNÈZ - TUNIS CEDEX - ABDENNADHER BRICOLAGE CENTER

T: +216 71 725 194 - F: +216 71 760 046

## TURKEY

ISTAMBUL - YÜTAS

T: +90 2 1227 44720 - F: +90 2 1227 20874

ISTAMBUL - FANTASIA SERAMIK

T: 0212. 275 75 11 - 272 85 48 - F: 0212. 272 23 01

## UKRAINE

KYIV - SALON MILLENNIUM CONCEPT

T: (044) 279 60 60

KYIV - CERAMIC FASHION

T: (044) 281 07 27

KYIV - CERAMIC FASHION

T: (044) 246 79 79

KYIV - SVIT KERAMIKI

T: (044) 423 00 03

KHARKIV - EUROPA

T: (572) 23 59 95

LVIV - KERAM MISTO

T: (32) 293 98 89

ODESSA - FIRMENIY SALON PORCELANOSA GRUPO

T: (482) 37 85 40

RIVNE - CERAMIC FAHION

T: (362) 64 56 05

DONETSK - CERAMIC FAHION

T: (062) 381 23 31

DONETSK - DI-ART

T: (062) 387 22 22

DONETSK - NAUTILUS

T: (062) 387 58 58

LVIV - SALON KARMEN

T: +380 32 244 40 55 - F: +380 32 252 70 94

## UNITED ARAB EMIRATES

AL KHABISI - GALAXY TRADING

T: +971 42696882

ABU DHABI - GALAXY BUILDING MATERIALS TRADING

T: +971 2 1222191 - F: +971 2 6354665

## UNITED KINGDOM

BRISTOL - PORCELANOSA WESTERN

T: 0117 959 71 51 - F: 0117 959 71 55

CARDIFF - PORCELANOSA WESTERN

T: 0292 0465 166 - F: 0292 0465 156

CROYDON - PORCELANOSA SOUTH EAST

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## UNITED STATES

ANAHEIM - PORCELANOSA ANAHEIM

T: +1 714 772 3183 - F: +1 714 772 9851

CHICAGO - PORCELANOSA CHICAGO

T: +1 312 204 6220 - F: +1 312 204 6240

DALLAS - PORCELANOSA DALLAS

T: +1 214 377 2327 - F: +1 214 234 1340

EAST BRUNSWICK - PORCELANOSA EAST BRUNSWICK

T: +1 732 613 1915 - F: +1 732 613 9181

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T: +1 305 715 7153 - F: +1 305 592 6999

NEW YORK - PORCELANOSA NYDC

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ROCKVILLE - PORCELANOSA ROCKVILLE

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SAN FRANCISCO - PORCELANOSA SAN FRANCISCO

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SAN JOSE - PORCELANOSA SAN JOSE

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**butech®**

Carretera Vila-real - Puebla de Arenoso (CV-20) km 2,5  
12540 Vila-real, Castellón, Spain

Telephone (+34) 964 53 62 00

<http://www.butech.es>  
[butech@butech.es](mailto:butech@butech.es)