

KRION®
ventilated facade

PORCELANOSA Grupo

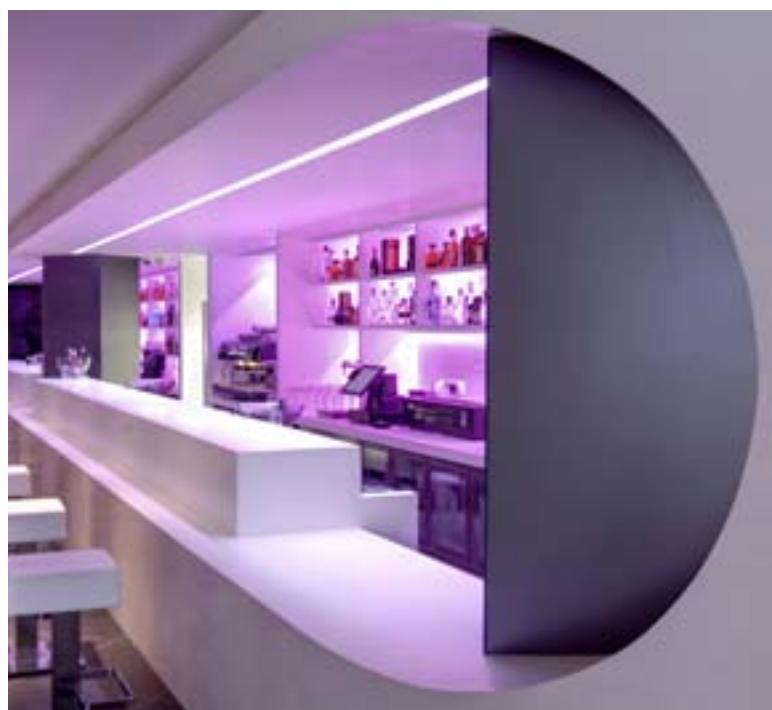
It was crucial to develop a new type of Solid Surface for exteriors which could solve the technical challenges that this type of material posed, such as the anchor system or the contact or joint between sheets. PORCELANOSA Group took on the challenge and the result is KRION®, state-of-the-art Solid Surface,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



KRION®
ventilated facade

butech and KRON® 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.



GENERAL

Bershka



Bershka shop in Madrid, Spain.
Architects: Castelveciana 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.





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Bershka shop in Istanbul, Turkey.
Architects: Castelveciana 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.



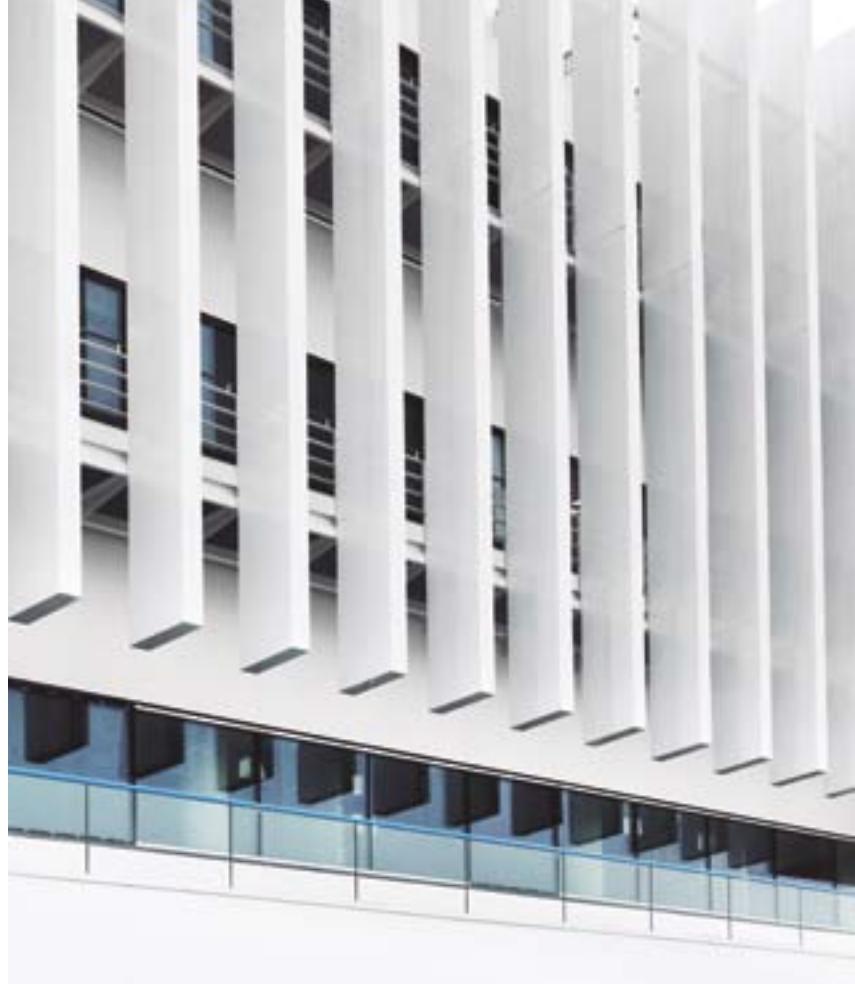


Institut d'Optique d'Aquitaine (Pôle Optique), France.
Architects: Nicolas Ragueneau and Antoine Roux.

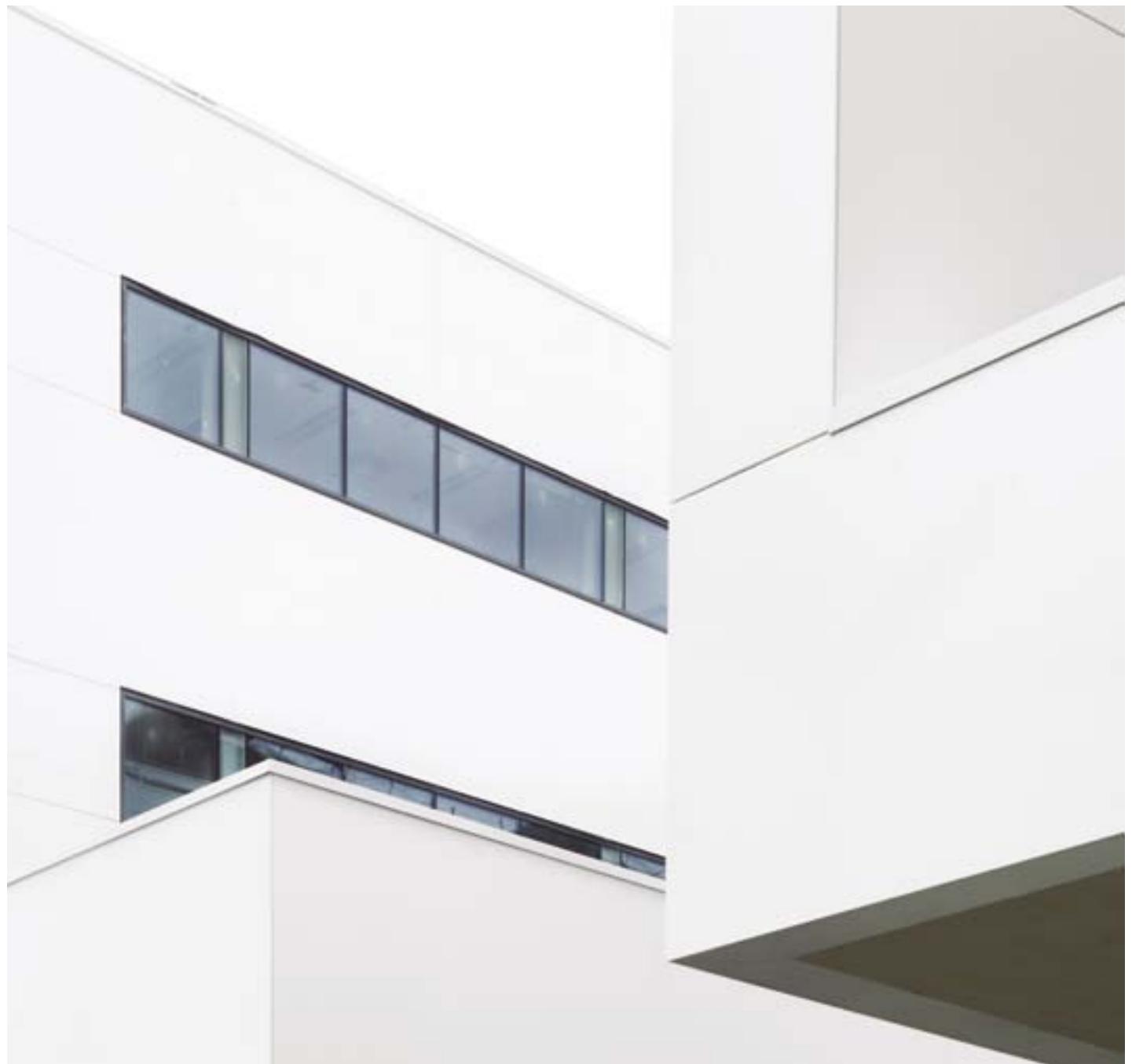
A project with a KRION ventilated facade can result in multiple solutions, thanks to the material's versatility and to the vast array of options it offers to the architect.

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

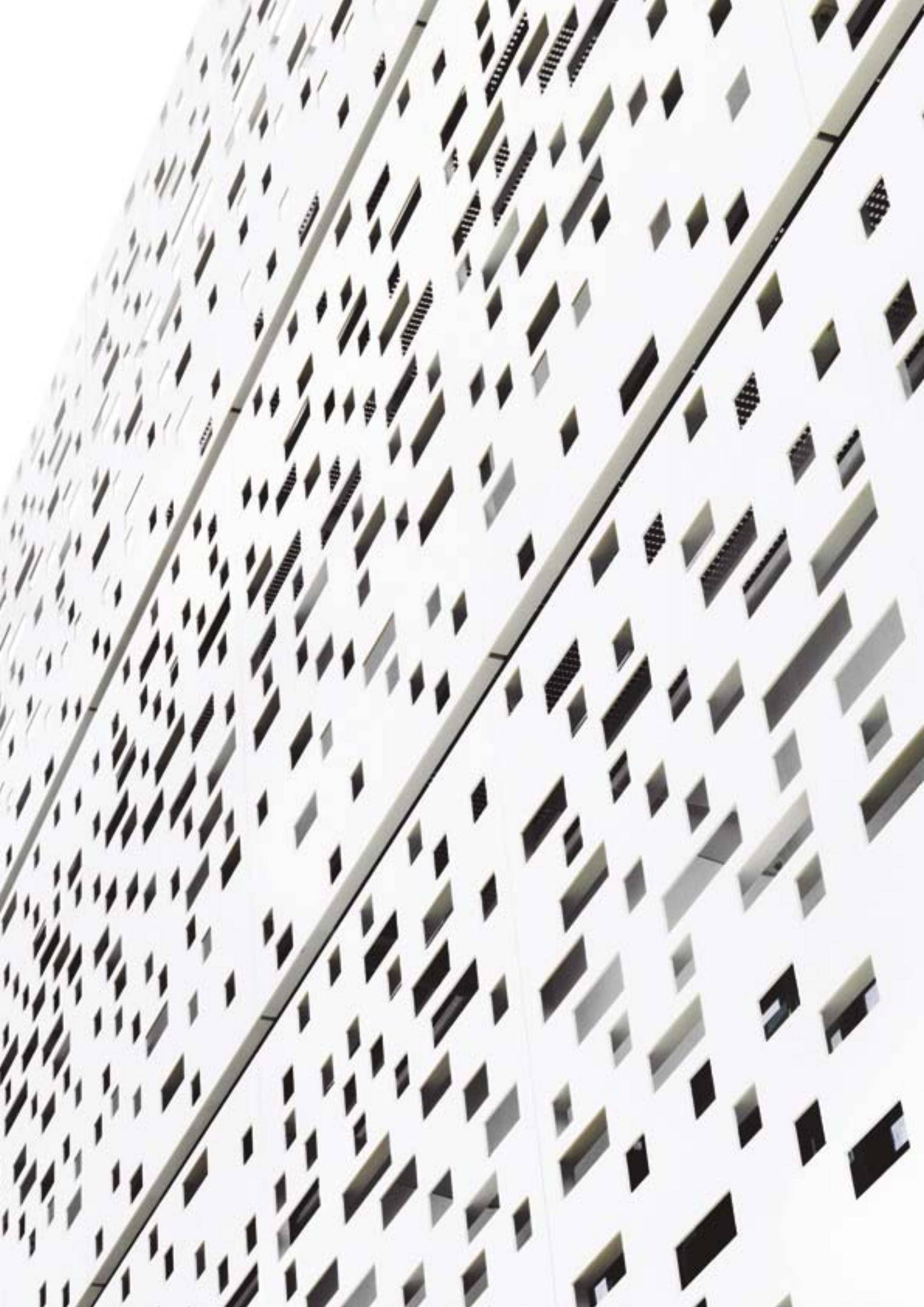
1,149.12 sqm of pixel-type engraved KRION®.
Dimensions: 3,800 x 2,800 mm.







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.

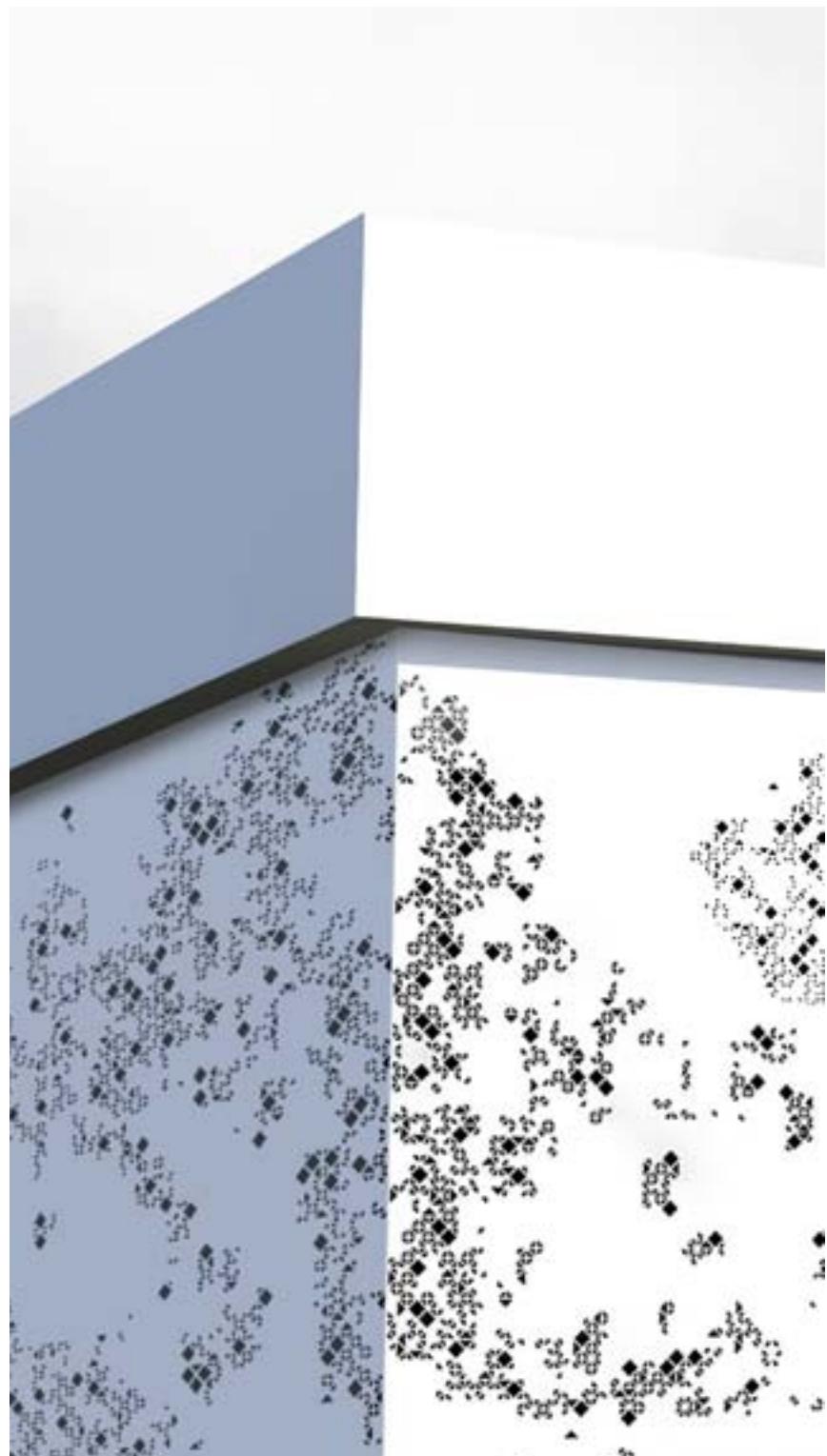




PORCELANOSA showroom in Lyon, France.

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.





KRION®
ventilated facade

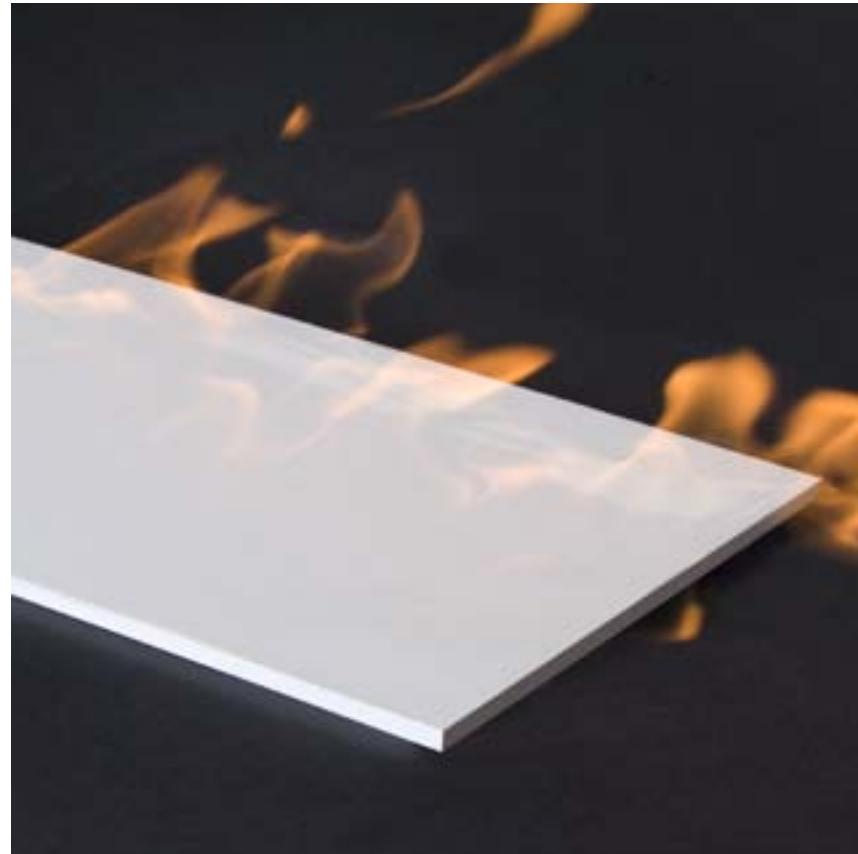


Features

KRION ventilated facade system combines the excellent features from SYSTEMPOOL'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.



KRION®
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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.

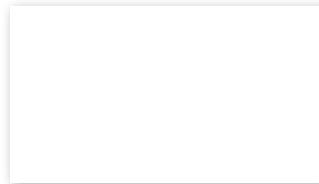
- Anti-graffiti.
- Fire-resistant.
- Resistant to cigarette burns.
- Eco-friendly.
- Antibacterial (no additives).
- Great durability.
- Resistant to high temperature.
- High degree of hardness and mechanical strength.
- Moldable.
- Large surfaces without joints.

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.

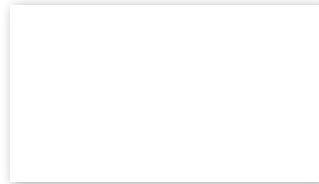
KRION® Stone



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

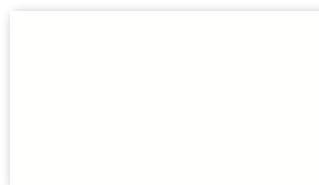
5101. Stone White

KRION® Pure Lux



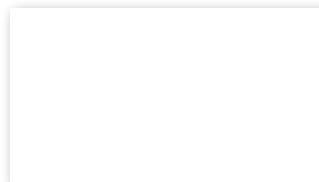
Formats (mm)
3,670 x 750 x 12

1100. Snow White



Formats (mm)
3,590 x 750 x 12
3,590 x 1,340 x 12

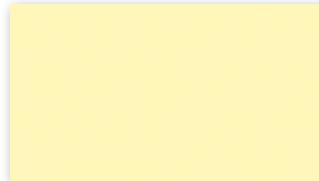
1101. Ice



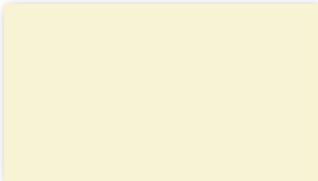
1103. White



1501. Arena



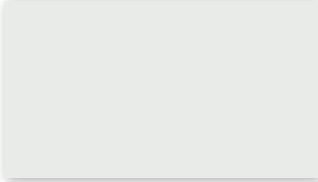
1502. Vainilla



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 .





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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 Façade, the KRION® Façade, 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® 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...

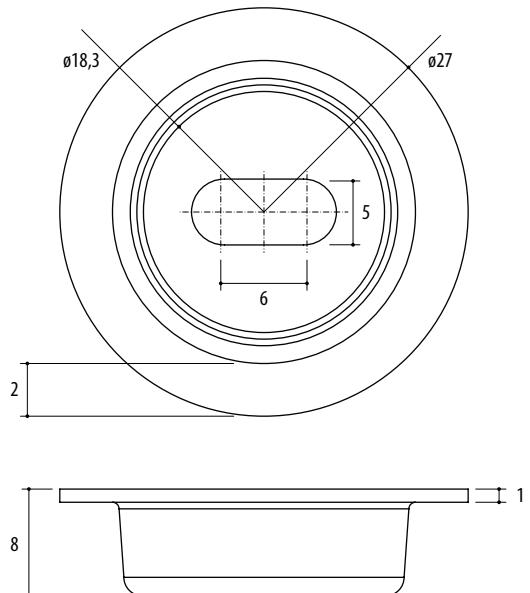


Technical features

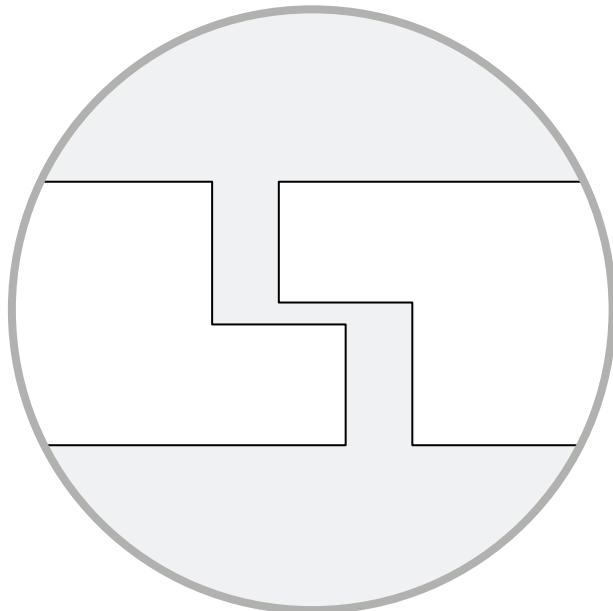
Property	Method	Units	Results KRION® Stone (11 mm)	Results KRION® Pure Lux (12 mm)
Density	DIN ISO 1183	g/cm ³	1,787 - 1,800	1,710 - 1,726
Flexural modulus	DIN EN ISO 178	MPa	9786 - 9894	8596 - 8724
Flexural strength	DIN EN ISO 178	MPa	52,3 - 54,7	75,1 - 76,9
Elongation	DIN EN ISO 178	%	0,55 - 0,59	1,08 - 1,12
Compression resistance	EN ISO 604	MPa	111 - 115	97 - 101,2
Impact resistance (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. mm ³ / 100 rev.	0,148 82	0,11 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 (VALORES usrv)	Less than 120 sanding	CLASE 2	CLASE 2
80-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	45. CLASE 2 (humid and greasy areas)	45. CLASE 2 (humid and greasy areas)
120-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	19. CLASE 1 (interior humid areas)	19. CLASE 1 (interior humid areas)
180-Sanded finish anti-slip properties With non-slip surface treatment	UNE ENV 12633:2003	Rd (roughness)	22. CLASE 1 (interior humid areas)	22. CLASE 1 (interior humid areas)
180-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	16. CLASE 1 (interior humid areas)	16. CLASE 1 (interior humid areas)
220-Sanded finish anti-slip properties With non-slip surface treatment	UNE ENV 12633:2003	Rd (roughness)	18. CLASE 1 (interior humid areas)	18. CLASE 1 (interior humid areas)
Transverse resistivity	UNE 21-303:1983	Ωm	> 5,1 x 10 ¹⁰	> 5,1 x 10 ¹⁰
Surface resistivity	UNE 21-303:1983	Ω	579,1 x 10 ⁻⁹	> 1 x 10 ⁻⁹
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 ²	q = 113,1	q = 113,1
	UNE 1267 (2002)	m ² . 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 (90 - 20 °C)	ISO 19712-2 (Sheet)	250 Cycles	Satisfactory	Satisfactory
Resistance to thermal shock (65 - 10 °C)	ISO 19712-3 (Shape)	500 Cycles	Satisfactory	Satisfactory

KRION® Ventilated facade details

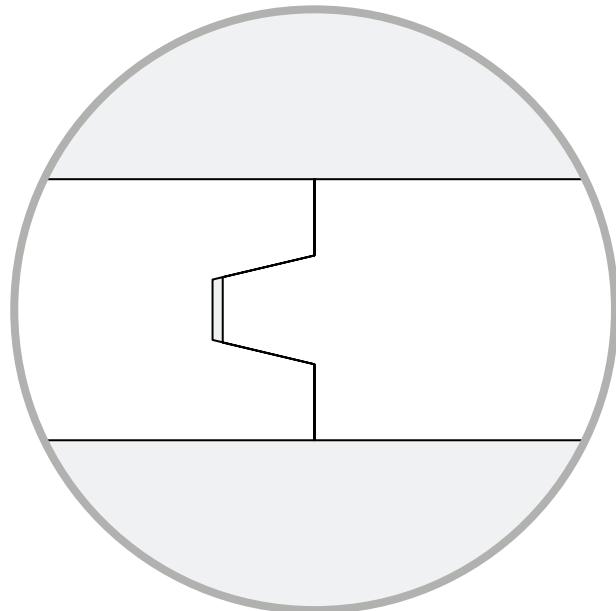
KRION® Cap



Expansion recessing

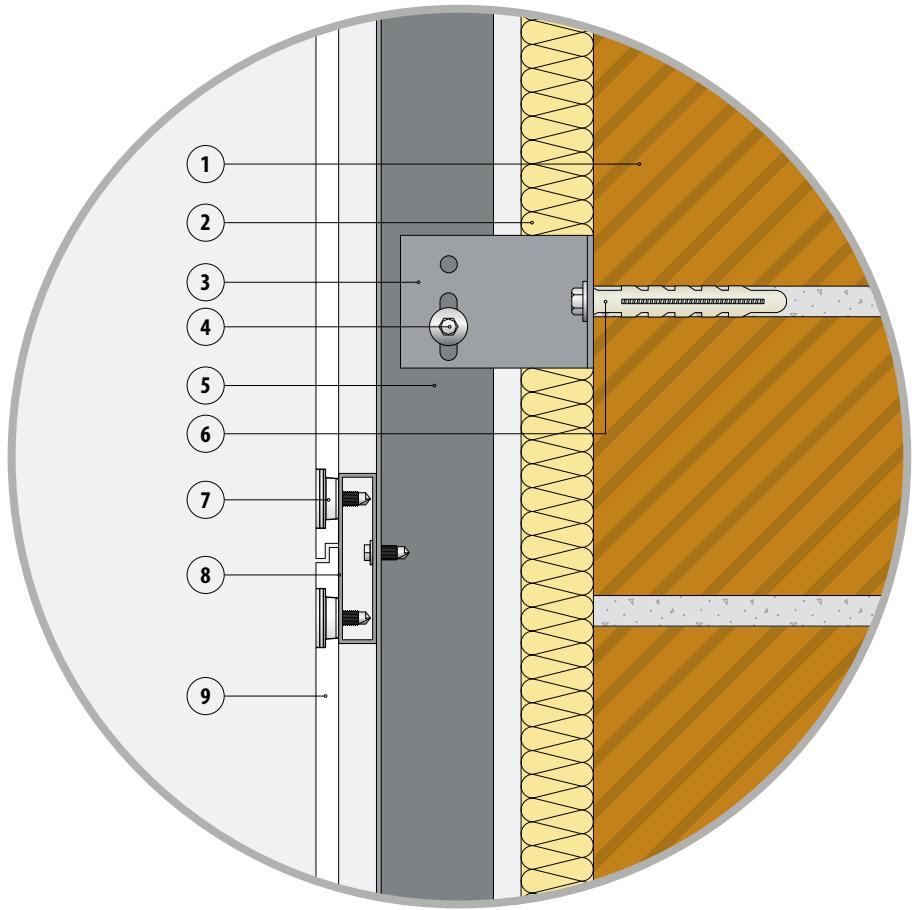


Tongue and Groove for sheet joining



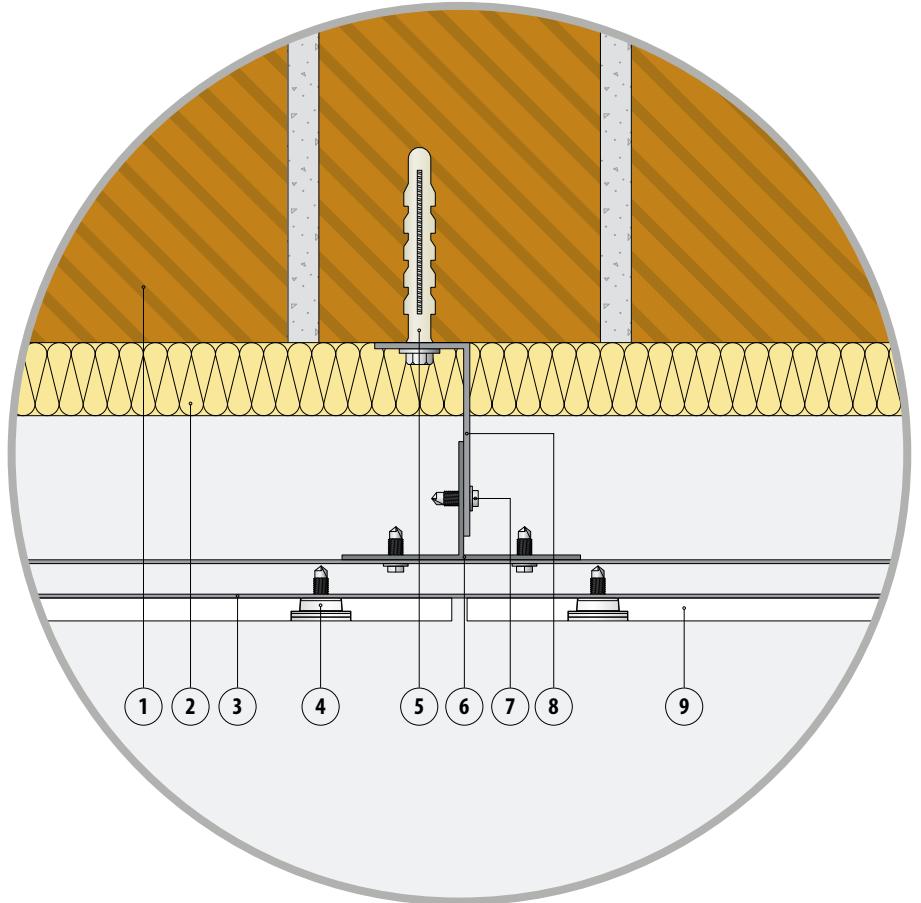
Vertical cross-section

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

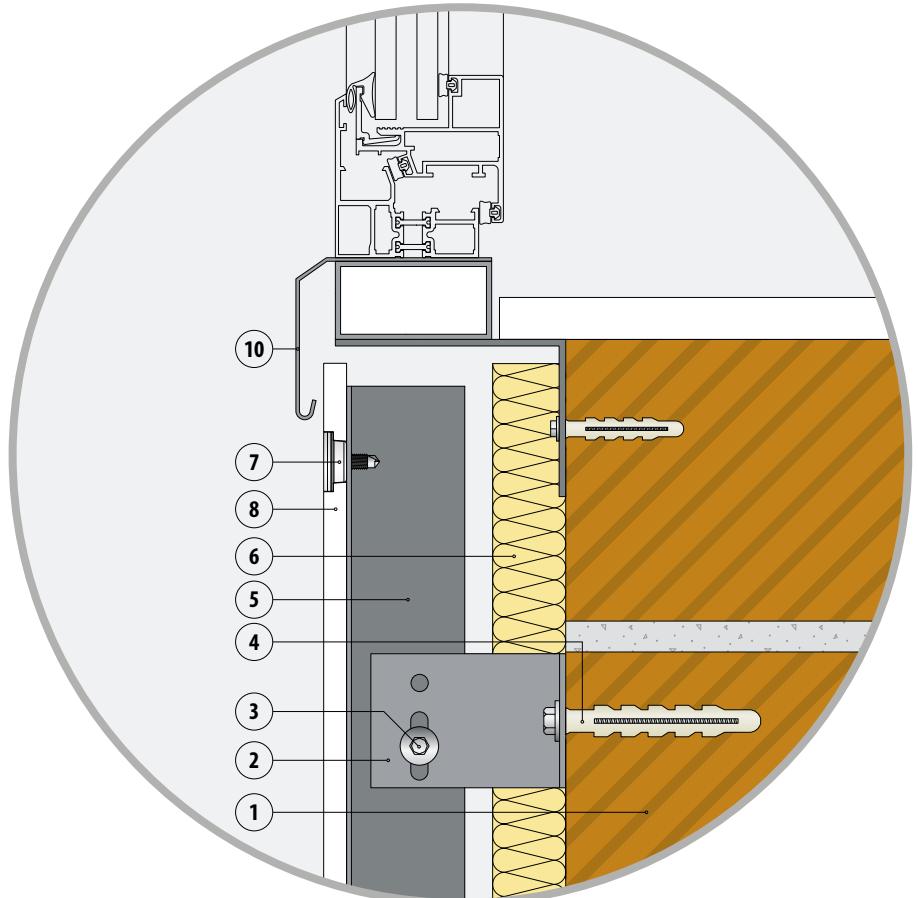
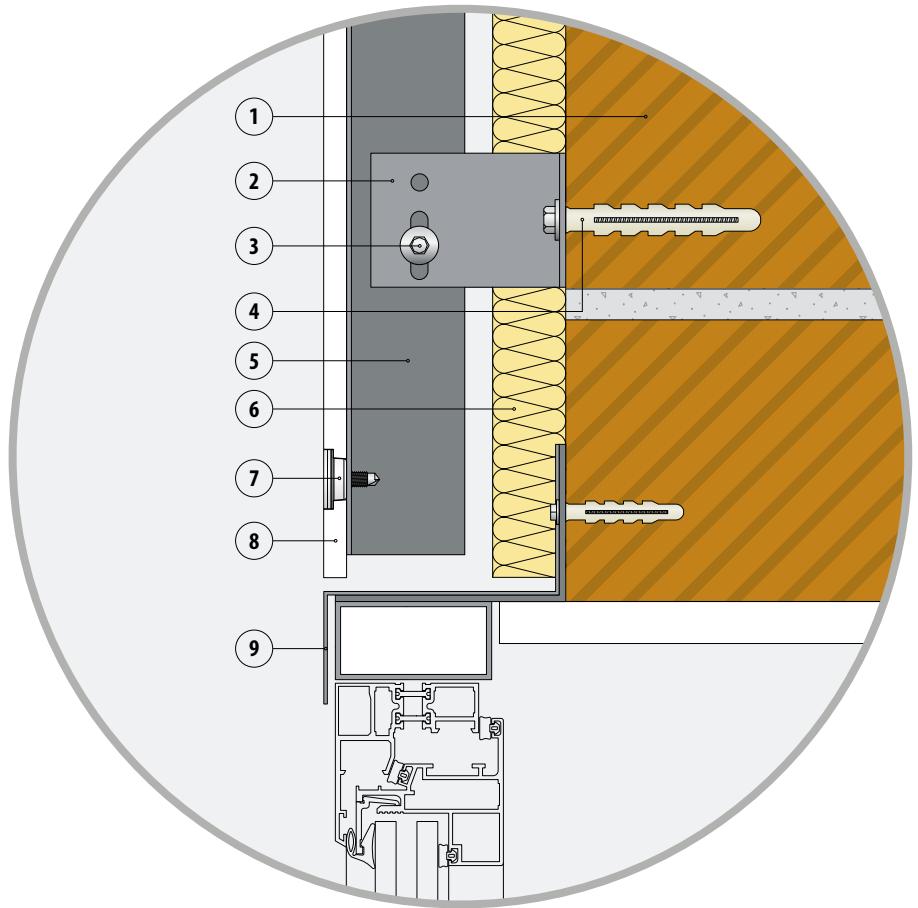
1. Enclosure
2. Thermal / acoustic insulation
3. Tubular profile
4. KRION® Cap
5. Union anchorage "L" shaped separator / enclosure
6. "T" Profile
7. Union "L"/"T" screw
8. "L" shaped Separator
9. KRION®



KRION® Ventilated facade details

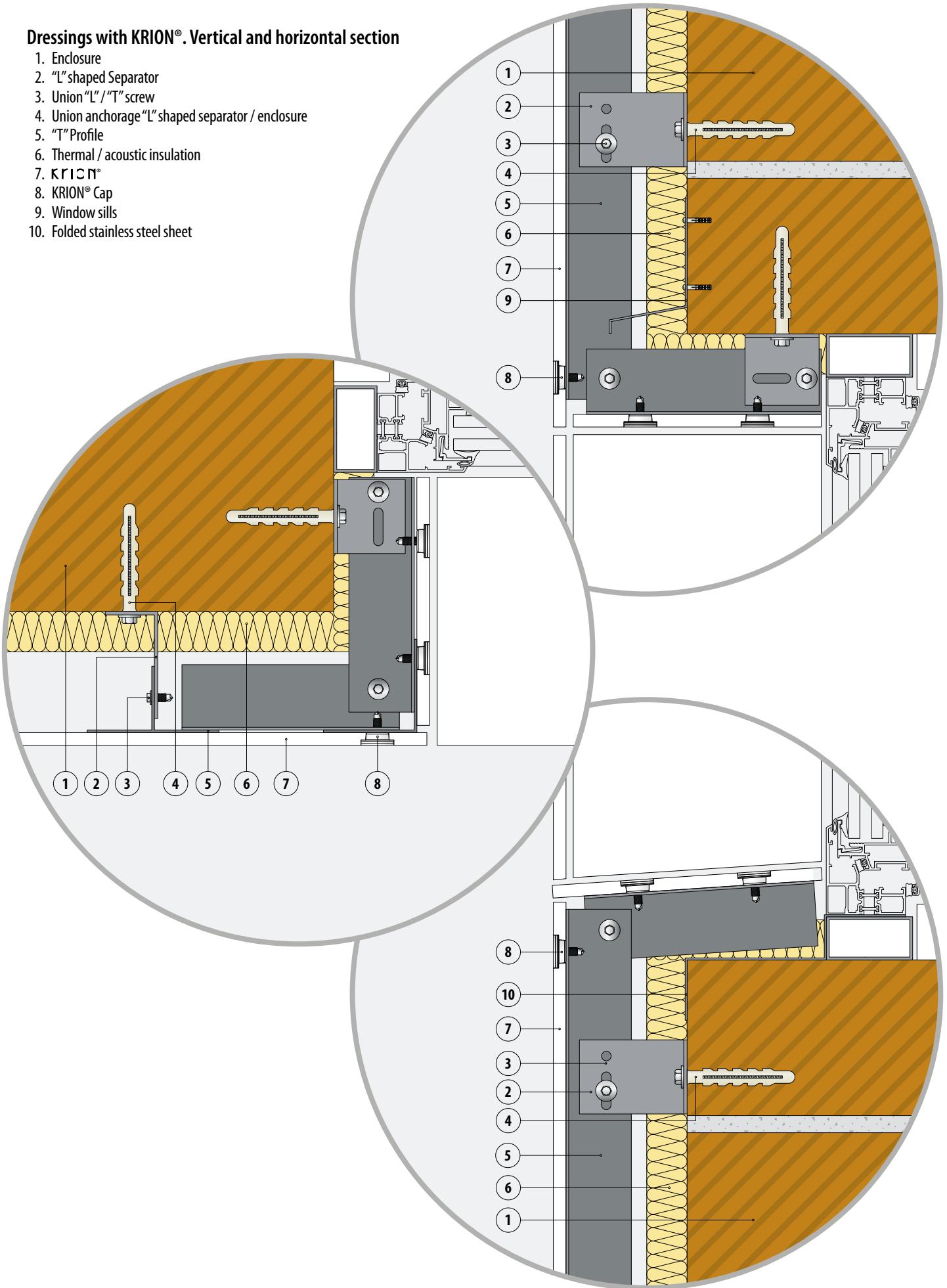
Window section with outer shafts

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 07/03/0212.

Resistance tests to wind effects after fatigue:

report of CSTB tests no. CLC 12-26037925 of 14/03/0212.

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.

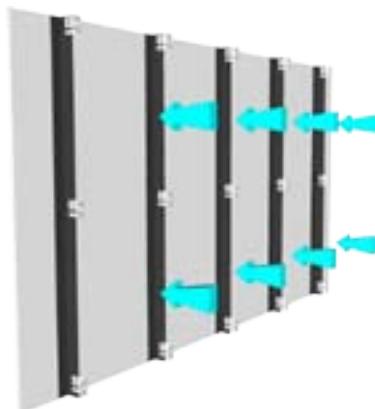
Insert pull-out resistance tests, flexural and tensile strength tests on the welded joints, after ice / thaw cycles:

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

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/m², always breaking by punching at the cap.

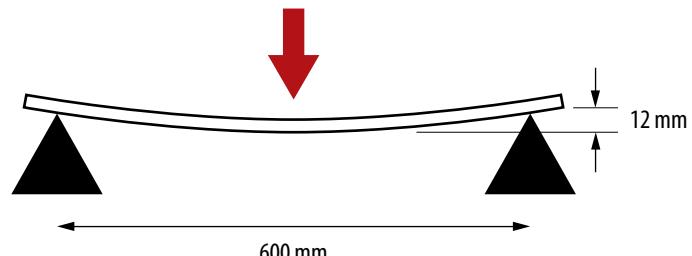
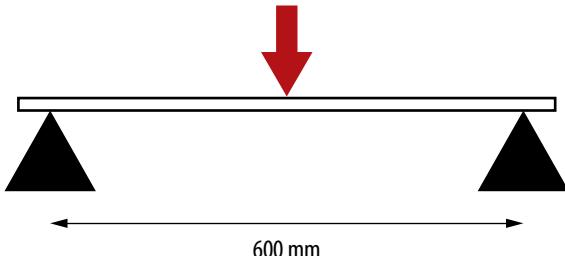
Uniform values have been obtained for the different samples taken. It is therefore a very high value, which allows us to install this facade system with KRION® cladding in areas that have a high wind exposure.



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.



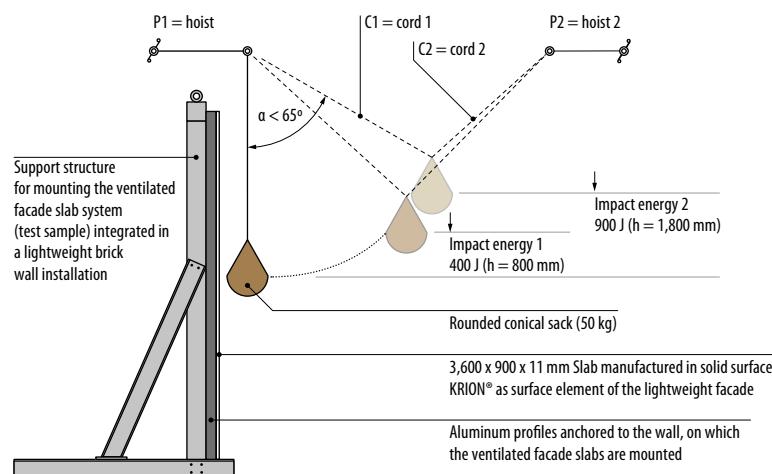
Impact test.

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:

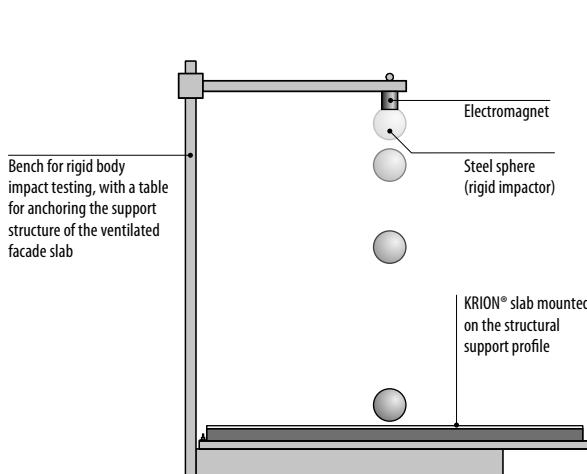
Types of test	Arrangement and description	Evaluation parameters of the test			
		Collapse	Penetration	Projection	Degradation
Soft body impact	56013-2-1. On center of 900 x 900 x 11 mm slab. ($E_{kinetic} = 900 \text{ J} \cdot h = 1.8 \text{ m}$)	Ok	Ok	Ok	(1)
	56013-2-2a. Test on 900 x 900 x 11 mm slab,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





KRION®
ventilated facade



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

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.



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.

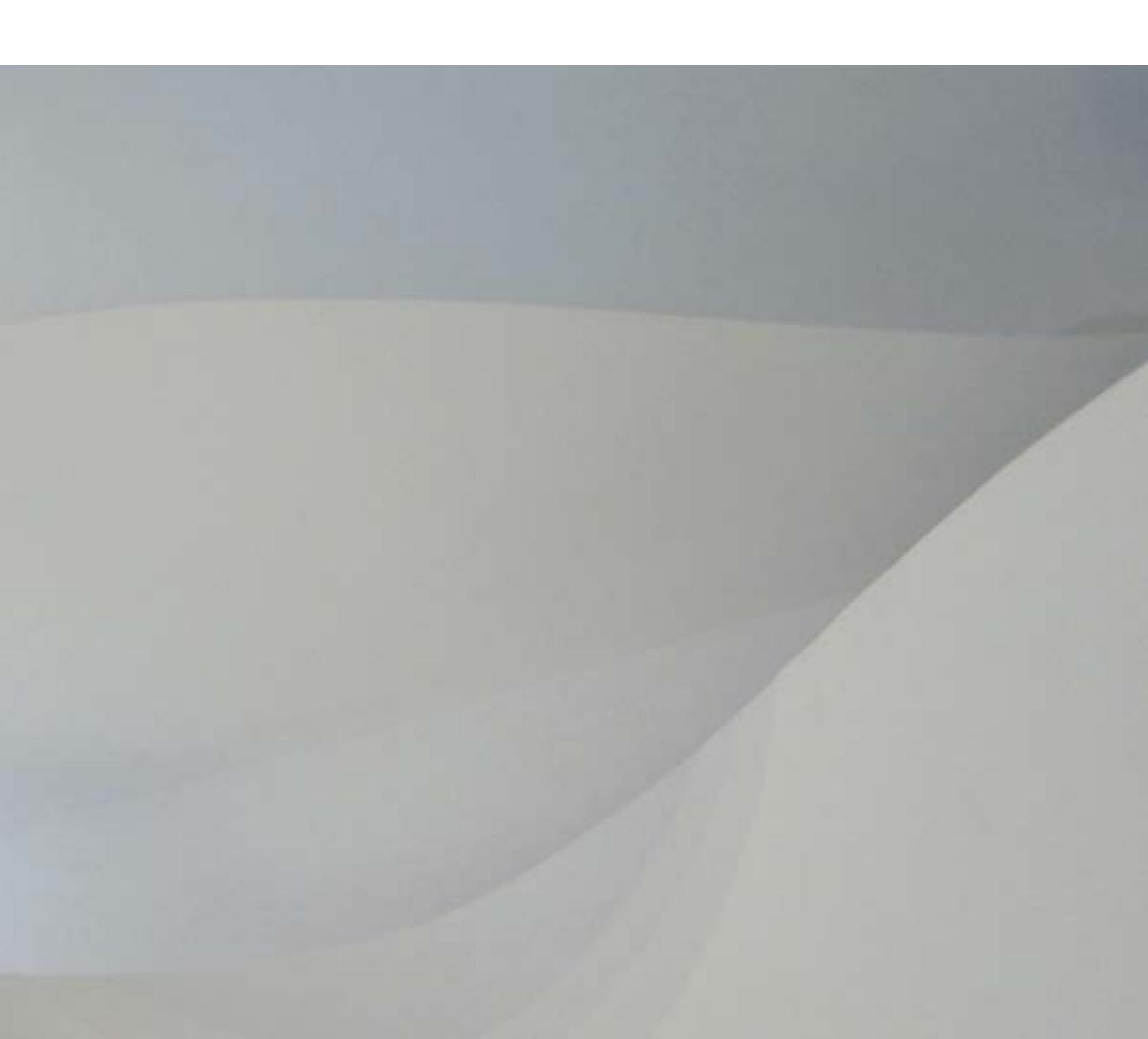


In order to glue these plugs, they must be clean and dry.

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.



KRION®
ventilated facade



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...



KRION®
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TORELLÓ - JOAN DOT
Carrer Tèr, 50 - T: 938 504 646 - F: 938 504 286
VIC - CORRETJA SL
Carrer Mas de Bigas, 8-26 - T: 938 854 261 - F: 938 894 733
ST. PERE DE RIBES - SUMCO
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Carretera Bujalance s/n - T: 957 177 693 - F: 957 177 335
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Carrer del Mar, 193 - T: 971 630 219
MANACOR - MALLORCA - PORCELANOSA - MANACOR
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VIELHA - PRETENSADOS RIBERA
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Navas de Tolosa, s/n - T: 948 224 000 - F: 948 226 424
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Rua de Galicia, 24 - T: 986 743 121 - F: 986 745 131
LALÍN - ALMACENES CANDA
Calle Monserrat, 36-39 - T: 986 780 184 - F: 986 782 301
MOS - BLANCO QUINTAS
Monte Faquíña s/n - T: 986 288 041 - F: 986 486 316
O GROVE - PREFABRICADOS DENA
Calle Alexandre Bóveda, 82 - T: 986 702 041 - F: 986 733 415
SEIXO, MARÍN - SANEAMIENTOS ROSALES
Avenida Doctor Otero Ulla, 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
Polígono 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 - SEGOCER
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. Polígono Industrial La Negreira. (Autovía A-92 dirección Granada)
T: 954 260 540 - F: 954 528 681
TOMARES - PORCELANOSA
San Roque, s/n. Polígono El Manchón - T: 954 152 792 - F: 954 153 188

SORIA

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

TARRAGONA

CAMBRILS - MONSERRATE ESTIL CERAMIC
Polígono industrial Bellanes nau 5. Carretera Cambrils-Montbrió
T: 977 364 900 - F: 977 364 953
ALCOVER - EXPOMAT ALCOVER
Calle Tramuntana, s/n (Polígono 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 MAGRÍN BATALLA

Carrer Montblac, 14 - T: 977 600 210 - F: 977 603 302

TORTOSA - MATERIALS GIBERT

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
Polígono La Paz, Parcela 143-149 - T: 978 609 661 - F: 978 607 980

TOLEDO

TOLEDO - PORCELANOSA
Polígono industrial Santa María 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. Polígono industrial del Mediterráneo - T: 961 417 227 - F: 961 402 389
GANDIÀ - 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 - BILBAO
Barrio Boroa, s/n - T: 946 731 158 - F: 946 733 265
BILBAO - BILBAO
Iturriaga, 78 - T: 944 113 018 - F: 944 128 637
BILBAO - BILBAO
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
Autovía 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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