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## PORCELANOSA Grupo

Today, PORCELANOSA Group is a benchmark company in the national and international market, based on values such as innovation and quality but, above all, based on the trust placed in its extensive human team, made up of almost 5,000 people, and on the attention to its social environment.

With more than forty years of experience, the PORCELANOSA Group is present in nearly 150 countries around the world, thanks to its unique business model and strategy. It is currently one of the most recognized Spanish companies worldwide, according to a study published by the consulting firm Pricewaterhouse Coopers and the Financial Times and consumers also consider it to be a strong, robust company, according to a study carried out by the Reputation Institute.

Diversification in production has been a fundamental pillar in the growth of a business group that began exclusively with the manufacture of tiles. Today, the Group's eight companies offer a wide range of products, ranging from kitchen or bathroom equipment to technological materials and advanced building solutions for contemporary architecture.

PORCELANOSA Group has experienced constant turnover growth as a result of its skillful economic and financial management. This has allowed it to remain one of the most solid companies in the market both nationally and internationally.

## PORCELANOSA GRUPO IS PRESENT IN NEARLY 150 COUNTRIES







Krion PORCELANOSA Group is one of the 7 companies belonging to the PORCELANOSA Group company and, under the umbrella of this great brand, we have grown to become a benchmark company present in more than 970 stores spread over five continents and a distribution network that continues to expand day by day in cities such as New York, Milan, London or Paris.

At Krion PORCELANOSA Group, we manufacture improved surfaces that meet people's needs through aesthetic, functional and sustainable solutions.

We create, design, develop, produce and market materials composed of minerals and high-performance resins (mineral composites) in the form of panels, sheets, semi-finished products and sanitary equipment. Materials with multiple applications in the field of construction, architecture and design for our customers to explore new ways to improve their quality of life.

Environmental commitment and responsibility are key aspects of our growth and, as with our product, we are involved in obtaining, optimizing and improving all the properties that help preserve the environment and the search for an improvement in society's quality of life through actions that reduce the impact of production on the environment. Therefore, we create solid surfaces, decorative panels, countertops, claddings and bathroom equipment in a sustainable and environmentally friendly way while maintaining the aesthetics, quality and design of the company.















#### THE ARRIVAL OF THE SOLID SURFACE

This is a solid surface formed by a high mineral load, ATH: Alumina Trihydrate, and a low percentage of acrylic resin. Thanks to its composition, it can be worked in a similar way to wood, it is thermoformable and its union with imperceptible joints allows for unique and unlimited designs that adapt to any space or design. Its technical characteristics give it great strength, durability and almost no porosity, making it easy to repair, clean and maintain, and positioning it as one of the materials at the service of markets as diverse as commercial premises, supermarkets, hotels, offices, customer service facilities, health centers, laboratories, public spaces, and transport services. This has encouraged developers, contractors, transformers, industrialists, architects, and interior designers to improve society at an aesthetic, practical and sustainable level.

With more than 95 models, some of them with percentages of recycled or backlit material, highly customizable and colorful spaces can be created.

Krion® Lux has low levels of volatile organic compounds (VOCs), ensuring safe and healthy surfaces for our customers to explore new ways to improve their quality of life.

In addition to all this, Krion® Lux is an eco-friendly material, as it can be fully recycled. Any product made with Krion® Lux can be reprocessed and used again in its production cycle.

































<sup>\*</sup> Please see the list of colors in the website www.nsf.org

<sup>\*\*</sup> Suitable colors for façades

#### PRODUCT LINE

#### **SHEETS**

Krion® Lux is available in sheets of various formats and thicknesses. The dimensions of the sheets go from 3, 6, 9, 12 and 19 mm in thickness and size between 3680x1520, 3680x1350, 3680x760, 2500x1350x2500x930 and 2500x760 mm, depending on the color of the sheet.

Krion® Lux has more than 95 models in its color palette, some of them with percentages of recycled material. Krion® Lux can adapt to any design and project providing it with a great capacity for customization of spaces thanks to its versatility. Its versatility is such that it can be texturized, images can be sublimated on its surface and many of its models can be backlit to create highly customizable spaces that are full of character. It can be used as cladding, furniture, or backlighting, allowing highly customizable spaces that are full of character to be created.

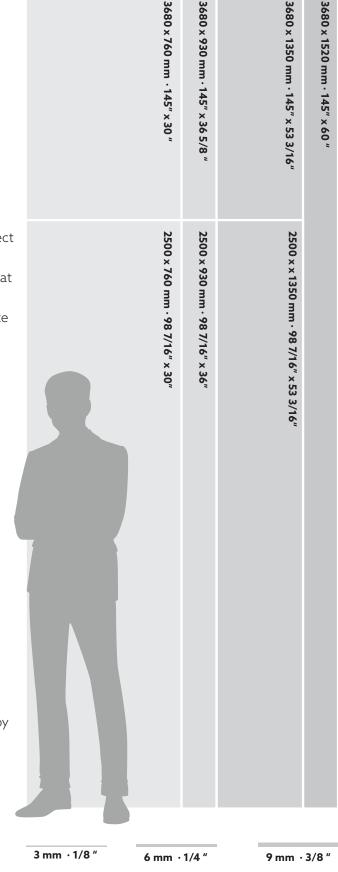
Krion® Lux provides a wide variety of formats, offering greater possibilities for the transformation and efficiency of our products by making the best use of the material.

#### **ADHESIVE**

Krion has developed its own adhesive, one specific to each model, creating an imperceptible chemical bond between the sheets that is resistant to heat bending and stress.

#### SEMI-FINISHED PRODUCTS MADE THROUGH CASTING

Krion offers a series of semi-finished products made by casting, such as washbasins, sinks, shower bases and bathtubs, all of which benefit from the properties of Krion® Lux.



#### **KRION® LUX PROPERTIES**

The technical qualities of Krion® Lux make it a wonderful alternative that can meet the demands of any project.



#### **INTENSE WHITENESS**

At a technical level, Krion® K·Life 1100 reaches a whiteness level of 99.8%, which, in combination with its high reflectance index, gives rise to a luminous and pure material, something unprecedented in solid materials.



#### **COMPACT MINERAL**

This material is composed of two-thirds natural minerals and a low percentage of high-strength resins.



#### **THERMOCURVING**

Krion® Lux sheets are thermo-moldable and curves and figures of different soft radii can be generated using this technique.



#### **IMPACT RESISTANT**

Krion® Lux is subjected to various physical tests, including impact resistance, in which it excels. This test—carried out 10 consecutive times, from 1.9m, involving throwing a metal ball of more than 300g onto a surface of Krion® Lux—demonstrates the ability to withstand impacts without breaking.

Hard and tough | ISO 19712



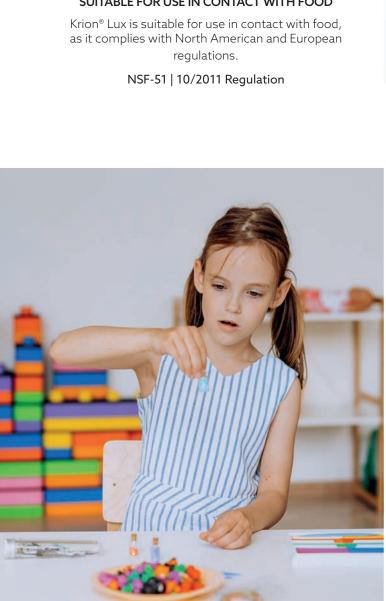
#### **EASY TO CLEAN**

The characteristics of Krion® Lux make it easy to clean against common stains. Provided our cleaning instructions are followed, its surface will be completely clean.

#### NEMA LD3 | ISO19712



#### SUITABLE FOR USE IN CONTACT WITH FOOD







#### **ALMOST ZERO POROSITY**

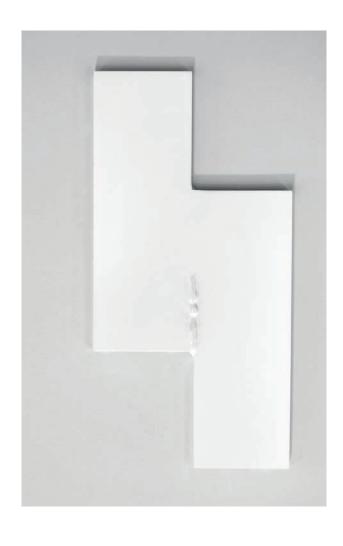
Krion® Lux is a non-porous material, thus hindering the accumulation of bacteria. This property makes it ideal for environments with high hygienic-sanitary requirements such as operating room rooms or clean rooms.



#### **BACTERIOSTATIC**

Krion® Lux does not allow bacteria or fungi to proliferate or grow on its surface. This property is intrinsic to the composition of the material and no supplementary additives are required to achieve this permanent effect.

ASTM G21 | ISO 846





#### RESISTANT TO BENDING AND COMPRESSION

Krion® Lux has high bending strength values that make it easier to work and transport. Unlike many solid materials, Krion® Lux withstands high stress and does not crack. In addition, its high compressive strength value makes it similar to materials such as stone, which are excellent at withstanding deformation or breakage when subjected to compressive stress.

ISO 178



#### IMPERCEPTIBLE AND THERMOFORMABLE JOINTS

Krion® Lux casting figures and sheets can be bonded together using Krion® adhesive, which ensures perfect bonding in terms of aesthetics, safety and durability. This union with imperceptible joints allows continuous and infinite spaces and surfaces to be created. Another of the virtues of the material is its thermoforming capacity. Using a Krion® Lux heating procedure, it can be modelled in 2D and 3D, obtaining a wide range of curvature without losing tonality or cracking, recovering its physical performance after cooling.

These qualities allow the material to be easily adapted to spaces and designs, and its applications are endless.

Adhesives with a tensile strength of 18 MPa It maintains its properties when it is thermoformed





### EXCELLENT PERFORMANCE AGAINST EXTREME ENVIRONMENTS AND SOLAR RADIATION

The composition of Krion® Lux gives it great resistance against ultraviolet radiation and the action of weather events. Its excellent performance against the weather prevents its deterioration, maintaining stability that allows it to be installed outdoors as cladding for façades or other outdoor projects, following the suitability of the classification of colors for this use.

Seismic resistance, frost resistance, saline environments...





#### HIRE FIRE RESISTANCE

The Krion® Lux family of products has a high resistance to fire because it does not allow fires to be spread; classified according to UNE-EN 13501 as Euroclass B-s1-d0 and B1 (without restrictions) according to DIN 4102.

UNE-EN 13501 (B S1-d0) | NFPA 101 (Class A) | ASTM E84



#### RESISTANT TO THE PASSAGE OF TIME AND REGENERABLE

Krion® Lux suffers very little wear over time and is scratch and cut-resistant. It is very simple to clean and can be easily repaired. Before any intense stain or superficial burn, the material can be returned to its original state by performing minimum maintenance following our cleaning and/or regeneration instructions. Being a full-mass material that is homogeneous all the way through, in case of more serious damage, Krion® Lux can be repaired or regenerated by a professional to return it to its original state without the need for a complete replacement of the element created with Krion® Lux.







#### LOW THERMAL CONDUCTIVITY

Thermal conductivity is a physical property of materials that measures heat conduction capacity. The lower its thermal conductivity, the more insulating a material will be. Using Krion® Lux on surfaces or claddings contributes to the energy efficiency of any room or façade.

 $0,19 \ \text{W/mK}$  Conductivity similar to wood | ISO 12667



#### **ECOCYCLE®**

For some time now, products in the Ecocycle® range have been developed. In this production process, we make use of remains and production losses of other sheets for the manufacture of chips that are used in the manufacture of new models, maintaining the same technical standards and product quality.

Krion® Lux has more than 35 models with a minimum recycled material content of 6%, 12%, 20% and 40% in its color palette, certified by SCS Global Service.



#### **ECO-FRIENDLY AND REUSABLE**

Krion® Lux is responsible for the environment since its safety does not affect the biosphere, in addition to being a 100% reusable material. Due to its composition, this material can be reprocessed and used again once its life cycle is over.

DAP | SCS Recycled Content | GBCe



#### LIGHTWEIGHT

Krion® Lux has a lower density compared to other materials, which allows lighter furniture, claddings and countertops to be created without altering its technical properties.





#### **BACKLIGHT**

Krion® Lux allows backlit environments to be created. Combining different thicknesses of the material can achieve spectacular lighting effects in addition to providing projects with greater customization power.





#### **ACOUSTIC INSULATOR**

The technical and physical characteristics of Krion® Lux contribute to promoting sound insulation.

Considering that sound intensity is a logarithmic magnitude, a small reduction in dB can make a noticeable difference in our perception of noise. Specifically, if we reduce this by 10 dBA, the human ear perceives it as if it were half. Krion® is capable of insulating up to 33.5 dBA.

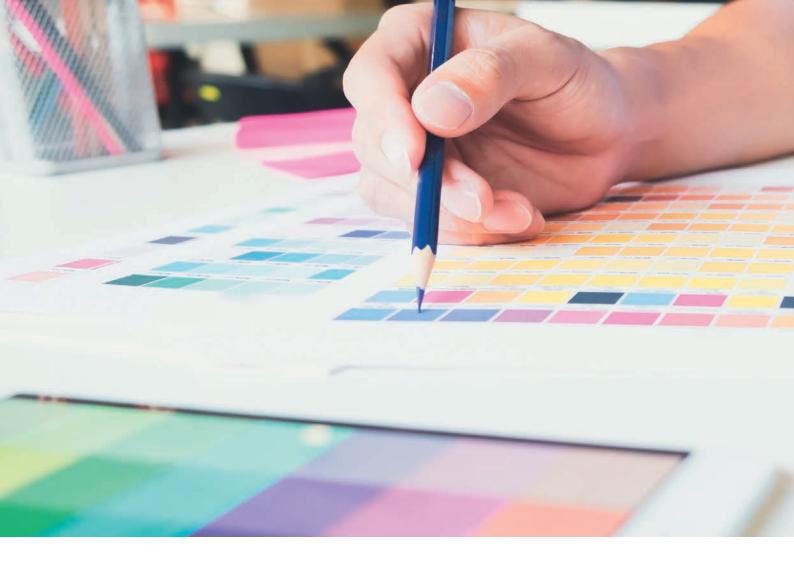
33,5 dBA



#### **ANTISTATIC**

Krion® Lux electrical resistance classifies it as an antistatic material, close to the insulation range, according to the standards set by the EDA (Electrostatic Discharge Association).





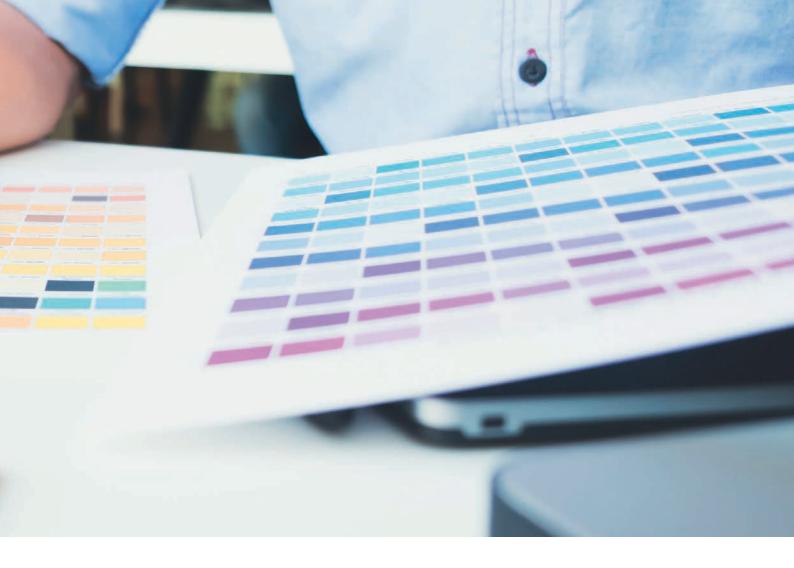
#### **CREATE AND DESIGN YOUR IDEAS**

Creativity at the disposal of designers; this is what Krion® Lux offers to professionals.

Its well-known technical and physical characteristics give it the ability to customize and adapt any project and space, obtaining unique and functional results.

Valid for installation in any space or sector, Krion® Lux always offers versatility and infinite creative possibilities with distinctive technical characteristics and high-quality standards.

For these reasons, Krion® Lux is the solid surface of choice for architects, designers and interior-design experts to carry out their creations, since it has qualitative support and infinite possibilities.





#### THE WORKING MATERIAL PAR EXCELLENCE

With Krion® Lux designers can take advantage of all the physical and technical characteristics that this material offers to develop their projects.



#### A RANGE OF POSSIBILITIES

Krion® Lux facilitates the development and creation of any design adapting to spaces with continuous surfaces thanks to its flexibility and ability to be attached with no visible joints.



#### **CUTTING-EDGE MATERIAL**

Krion<sup>®</sup> Lux is a material at the forefront of the prevailing trends today. The ideal material in the field of creating stylish spaces.



#### **PROFESSIONAL ADVICE**

Made up of a team of architects, technical architects, industrial engineers and designers, we specialize in studying and monitoring the different projects carried out with Krion® Lux, collaborating with the designers to find the optimal solution for each project and developing new solutions.



#### **SUITABLE FOR ALL SPACES**

Krion® Lux has been designed to be installed in the health, hospitality and residential sectors as well as in façades. The resistance and durability offered by this material, together with its easy repair and maintenance, high design capacity and bacteriostatic character, make it suitable for any space, meeting all the expectations of commercial consultants and clients.

#### SECTORS AND APPLICATIONS

Krion® Lux is a surface designed for creating. Thanks to its exceptional performance qualities, it is suitable for both commercial and residential environments. That is why Krion® Lux has been chosen by professionals to create all kinds of furniture, work surfaces, counters, and exterior and interior claddings for use in projects for commercial premises, hotels, restaurants, hospitals, clinics, public buildings, airports, and public transport stations. Krion® Lux is also an excellent choice for use in homes.

Professionals trust Krion® Lux because of its durability properties, functionality, excellent efficiency/cost ratio, ease of repair and the fact that it requires little maintenance. All of this makes it an ideal material for highly frequented areas and intense use and makes projects made with Krion® Lux look their best for longer.



#### **COMMERCIAL PREMISES COMPANIES**

- Shopping centers.
- Duty-free areas
- Supermarkets
- Supply shops Specialized food stores
- Shoe shops and accessories
- Cosmetics, perfume shops, and pharmacies



FURNITURE DISPLAYS COUNTERS



COUNTERS











#### **HOTELS**

- Hotels Resorts
- Hostels
- Motels
- Apart-hotel
- Boutique Hotel Country houses





**FURNITURE** RESTAURANT



BATHROOMS ROOMS



WORKTOPS COMMON BATHROOMS



SIGNS



CLADDING

FURNITURE OFFICE AND COUNTERS

#### **RESTAURANTS** CAFES

- Restaurants
- Cafes
- Ice cream parlors and yogurt shops
- Bakeries and pastry shops Leisure venues
- Fast food restaurants
- Service Stations



BUFFET RESTAURANT









WALL



#### **CUSTOMER SERVICE** OFFICES/ CORPORATE

- Savings banks
- Vehicle-rental offices



**FURNITURE** OFFICE AND COUNTERS



FURNITURE

DISPLAYS

WORKTOPS















#### **HEALTH CARE**

- · Hospitals · Primary care clinics · Specialized clinics
- · Special-attention residences · Elderly communities







SINKS











#### **PUBLIC BUILDINGS AND EDUCATION CENTRES**

- · Schools · Academies · Nurseries



FURNITURE OFFICE AND COUNTERS



COMMERCIAL FURNITURE DISPLAYS



COMMON BATHROOMS





SIGNS



#### TRANSPORTATION

- · Leisure ships · Cruises · Interior of trains · Caravaning



FURNITURE OFFICE AND COUNTERS



WALL CLADDING



COMMON BATHROOMS



SIGNS



HOUSING **DEVELOPMENTS** 



WORKTOP KITCHEN



BATHROOM



FURNITURE DÉCOR



WALL CLADDING









SOLID SURFACE IS THE OPTION
PREFERRED BY THE MAIN
INTERNATIONAL FRANCHISES, AS IT
CAN BE EASILY INTEGRATED
AND CUSTOMIZED



## COMMERCIAL PREMISES AND SUPERMARKETS

Krion® Lux opens up a range of possibilities in the design of commercial spaces and is key to properly conveying a company's image and offering the best presentation for each product.

Krion® Lux offers us endless possibilities in commercial décor, with an extensive color palette and the possibility of joining and bending sheets to achieve genuine combinations of colors and shapes.







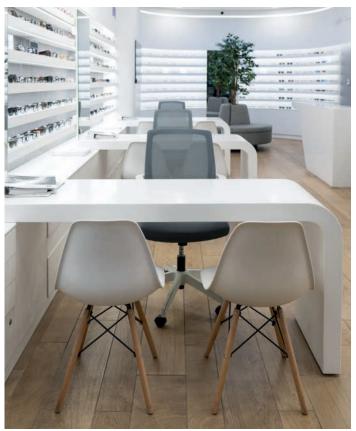








CARREFOUR EXPRESS/ Madrid - Spain Architecture: Cimbra Arquitectos



ZEISS VISION CENTER ALTO LAS CONDES/ Santiago de Chile - Chile Architecture: Pablo Bascur - Photography: Benjamín Vilella



BIOTHERM / Shanghai - China



LA CALA PHARMACY / VILLAJOYOSA - Spain Interior Design: Inside Pharmacy - Photography: Inside Pharmacy



#### **HOTELS**

Its wide design possibilities allow it to be used both in hotel halls and rooms, including in furniture, décor and bathrooms.

Krion® Lux also offers great possibilities thanks to its zero porosity and antibacterial properties.

ONLY BY CHOOSING APPROPRIATE
MATERIALS WHEN DESIGNING AND
DEVELOPING A HOTEL CAN WE
ENSURE THE HIGHEST QUALITY AND
COMFORT FOR USERS















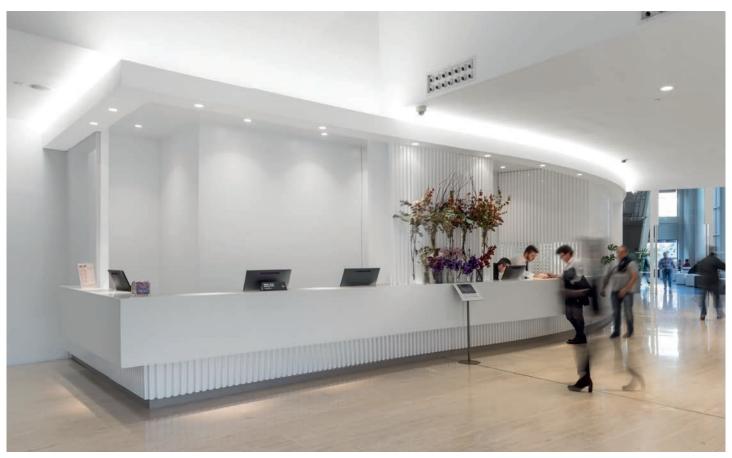




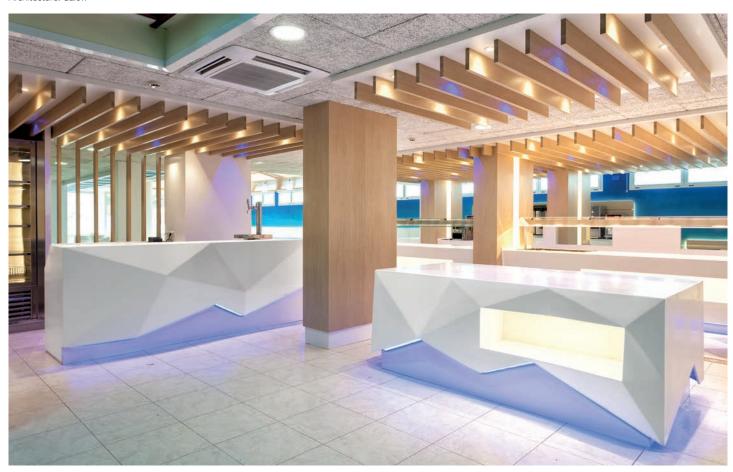
ISLANTILLA BEACH GOLF RESORT / Huelva - Spain Architecture: Fraile Project - Interior Design: Mónica Fullana



HOTEL FRANCISCO I / Madrid - Spain



HOTEL SILKEN PUERTA AMÉRICA / Madrid - Spain Architecture: Gälow



HOTEL MONTEMAR MARITIM / Barcelona - Spain Interior Design: Rosa Colet Design - Photography: Lluís Valcárcel

## THE PROPERTIES OF KRION® MAKE THIS MATERIAL THE IDEAL AESTHETIC AND FUNCTIONAL SOLUTION FOR RENOVATION PROJECTS



#### **RESTAURANTS AND CAFETERIAS**

The comfort and warmth of the material make Krion® Lux an ideal element for the interior design of catering establishments. The ease with which it can be cleaned and maintained makes it ideal for use in restaurants. Its strength, design versatility and its antibacterial properties allow it to be applied in virtually any way.











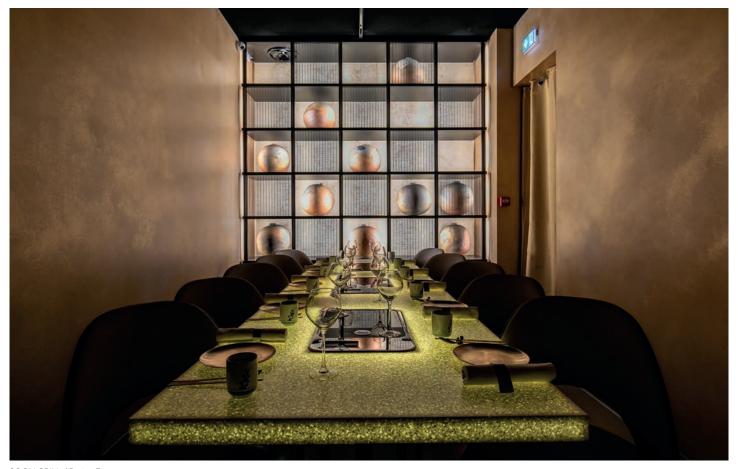




SELFRIDGES & CO / London - United Kingdom Interior Design: Diala Dajani



RELISH PASTRY / Catanzaro - Italy Architecture: Barbaro18 - Photography: Luce Catanzariti



SOON GRILL / Paris - France Architecture: Aev Architecture - Photography: Jean-Michel Da Fonte

THE RIGHT MATERIAL FOR
CONTINUED USE IN
COMMUNITY SPACES,
PERFORMING VERY WELL
IN SITUATIONS INVOLVING
LARGE NUMBERS OF PEOPLE



#### **OFFICES AND CUSTOMER SERVICE**

Krion® Lux provides many advantages, both at a technical and operational level, which are the best solution for any installation you want to perform, from public and highly frequented places (halls, receptions, shops) to quieter, more private spaces (offices, meeting rooms, etc.), but they are always highly functional and of excellent quality.



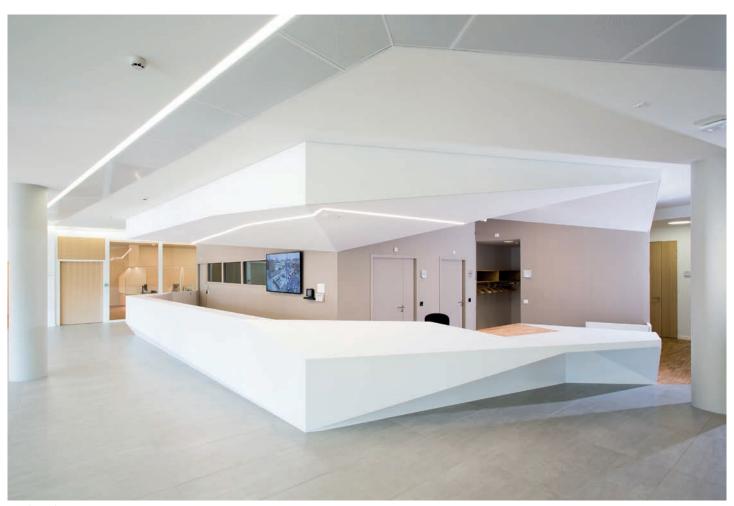




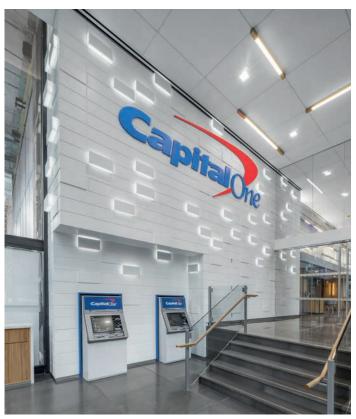








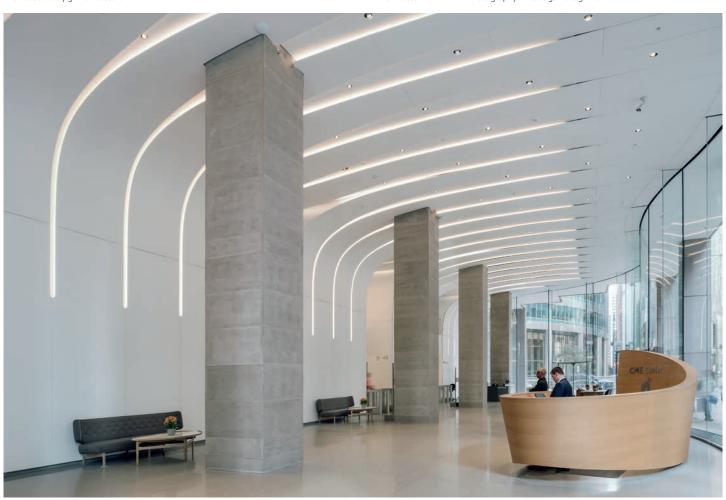
IHU / Strasbourg - France Architecture: S&Aa



CAPITAL ONE / New York - USA Architecture: Tpg Architecture



VIBENDO / Elche - Spain -Architecture: Behind - Photography: Pittaluga Fotografía



CHICAGO MERCANTILE EXCHANGE / Chicago - USA Architecture: Krueck + Sexton Architects - Photography: Imagen Subliminal

THE EXCELLENT PERFORMANCE OF KRION® LUX AGAINST CHEMICAL ATTACKS MAKES IT IDEAL FOR USE IN LABORATORIES



#### **HEALTHCARE AND LABORATORIES**

Krion® Lux is a material suitable for use in medical facilities. Due to its antibacterial properties and its additive-free composition, it is a recommended material both in medical consultations and in hospital rooms, treatment rooms and even operating rooms, where stringent hygienic conditions must be met.

In addition, the chemical welding between the different components and the fact that they can bend allow us to create continuous surfaces, with no joints or corners where micro-organisms might accumulate.

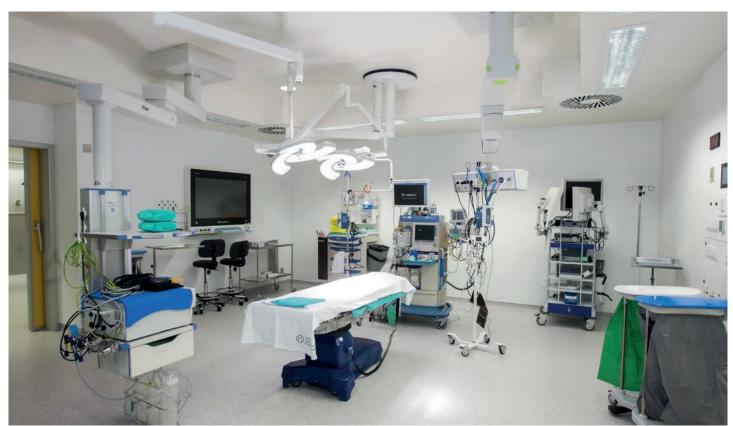












HOSPITAL UNIVERSITARIO / A Coruña - Spain Architecture: Casa Solo Arquitectos - Photography: Arume Fotografia



HOSPITAL VETERINARIO CONSTITUCIÓN / Valencia - Spain Architecture: Dobleese Space & Branding - Photography: Adolfo López



CLÍNICA CETA / Madrid - Spain Architecture: Miguel Ángel Rodríguez Díaz

AFTER BEING HEAVILY STAINED,
THE MATERIAL CAN BE IMMEDIATELY
RETURNED TO ITS ORIGINAL STATE
BY SIMPLY FOLLOWING THE
RECOMMENDED CLEANING
INSTRUCTIONS



## PUBLIC BUILDINGS AND EDUCATIONAL SETTINGS

Krion® Lux is particularly suitable for use in public spaces with a large number of users. It meets the most stringent hygienic requirements for installation both in public bathrooms and in other common areas. Its zero porosity, ease of cleaning and the possibility of on-site repair make it the ideal material for continuous use in community spaces, performing to a high standard even when it has been vandalized.

#### **APPLICATIONS**













ARTDENTECK / Lyon - France Architecture: Selima Zanetti- Colleoni Kentaurus & Agenda I Ida - Photography: Rouveure Marquez



CASTELLANA 52 / Madrid - Spain Architecture: A&P Arquitectura - Photography: Victor Sáhara



CLUB DE TENIS VALENCIA / Valencia - Spain Architecture: Bfm Edificatoria - Photography: German Cabo

DURABILITY, PERMEABILITY, RESISTANCE TO BAD WEATHER, CORROSION AND THE ABILITY TO ADAPT TO THE PROJECT



#### **TRANSPORTATION**

Its durability, permeability, resistance to bad weather and corrosion, and ability to adapt to any project make Krion® Lux an ideal material for use in the transport sector.











AEROPORTI DI ROMA / Roma - Italy



BORDEAUX AIRPORT/ Bordeaux - France Architecture: Roland Gault - Photography: Jéremie Petit | Sa Adbm.



MILANO- LINATE AIRPORT / Milan - Italy Photography: Vincenzo Tambasco



FUTURA / Mexico City - Mexico Architecture:Studio Starq - Interior Design: Studio Starq

THE UNIQUE COMBINATION OF AESTHETIC AND TECHNICAL CHARACTERISTICS MAKES KRION® LUX THE IDEAL SOLUTION FOR YOUR HOME



#### **HOMES**

Home interiors display the style and soul of each and every homeowner, and, with Krion® Lux, you will achieve a home that is not only comfortable and functional but also unique and personal.

The countless possibilities offered by Krion® Lux mean it can be used in all rooms of the house: living rooms, kitchens, bathrooms, bedrooms and furniture.

**APPLICATIONS** 











LA CASA DE CRISTAL / Bordeaux - France Architecture: Marraud E (Ngeneering Agen) - Interior Design: Agora Bordeaux - Photography: Stéphane Adam



MADRESELVA / Salina - Spain Architecture: David Olmos Arquitectura - Photography: Ivo Tavares Studio



BARIDHARA IBS ABIANA RESIDENTIAL / Dhaka - Bangladesh Architecture: Studio Morphogenesis



AC33 / Valencia - Spain Architecture: Erre Arquitectura - Photography: David Frutos

BY APPLYING THE LATEST ADVANCES IN PRODUCTION PROCESSES, WE CAN INJECT THE MATERIAL TO REPRODUCE COMPLEX FIGURES

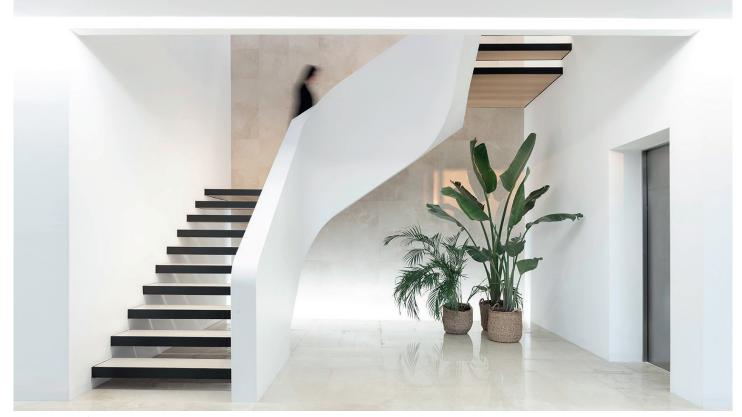


#### **DESIGN**

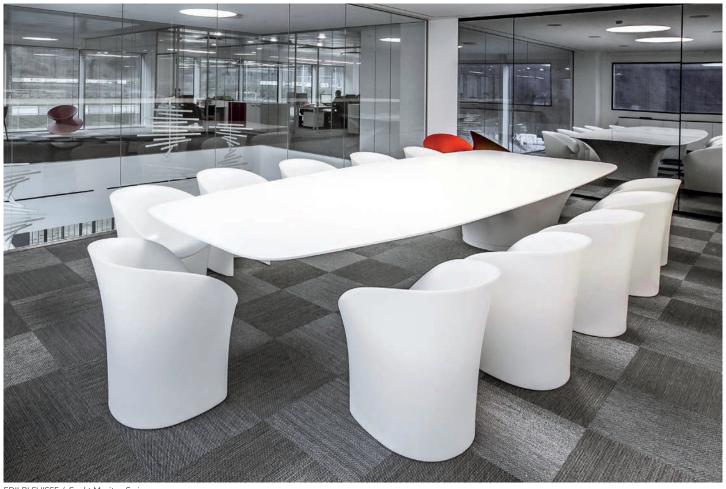
Only a material like Krion® Lux can successfully transform ideas into realities. All that matters is what you want to achieve. Krion® Lux is a way to get there.



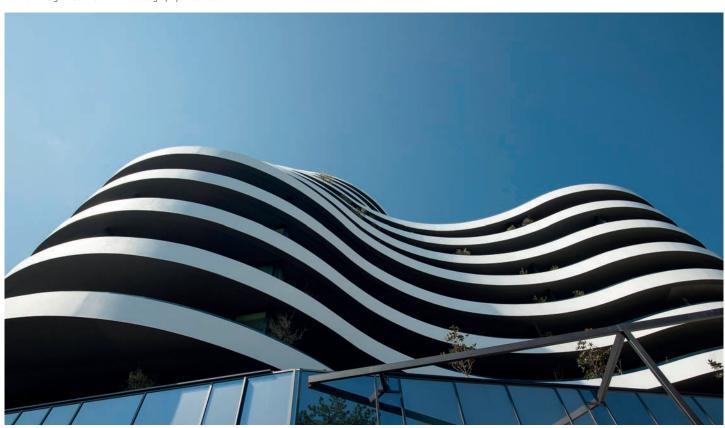




THE WHITE BOW / Picassent - Spain Architecture: On Side - Photography: Alfonso Calza



EDILBI SUISSE / Sankt Moritz - Swiss Interior Design: Fabio Gianoli - Photography: Lisa Pedrini



RESIDENTIAL BUDVA / Budva - Montenegro Architecture: Branislav Mitrovic and Jelena Kuzmanovic - Photography: Slaven Vilus

#### **TECHNICAL SPECIFICATIONS**

The technical characteristics of KRION®—compliant with the pertinent regulations—are detailed below. In addition to these, KRION® also holds certifications such as NSF(1), Greenguard(2), SCS(3), and fire resistance certifications such as B-s1-d0(4), B1(5) (Germany), or UL94HB(6) and NFPA 259(6) (United States). And also the special hygiene and fire(7) certificates demanded by the Russian market, the certification of the National Test Center of Polymer and Building Materials, CSTB(8) (France) for façades, and European Reach(9), among others.

#### **TECHNICAL SPECIFICATIONS**

Krion® Porcelanosa Solid Surface is a material that is pleasant and warm to the touch, similar to natural stone. It is composed of two-thirds natural minerals (ATH) and a low percentage of high-strength resins. This composition gives Krion® several unique properties: it is pore-free, durable, high strength and easy to repair, requiring low maintenance and easy cleaning. Krion® has been classified according to its fire performance as Euroclass B s1 d0 without restrictions according to EN 13501-1, B1 based on DIN 4102 and "Class A", according to the American ASTM E84 standard. It has also been declared non-toxic by external laboratories and VOC emissions, classified as A+ and Greenguard Gold by UL, holder of ANSI 51 "Food Equipment Materials", certified by NSF, REACH compliant by SGS and free of Si02 and Bisphenol A.

Table 1. Mechanical, structural and safety properties

PROPERTY	TEST METHOD	RESULT
Bending module	ISO 170 / ASTM D700	9.000 – 12.000 MPa
	ISO 178 / ASTM D790	1.300.000 - 1.740.000 psi
Resistance to bending	ISO 178 / ASTM D790 -	62 - 80 MPa
	130 1767 ASTP1 D770	9.000 – 11.600 psi
Elongation to break when bending	ISO 178 / ASTM D790	0,6% - 1,20 %
Traction module	ISO 527 / ASTM D638	9.500 - 11.500 MPa
Iraction module	13O 327 / A3111 D030	1.370.000 - 1.670.000 psi
Tensile strength	ISO 527 / ASTM D638 -	40 – 50 MPa
	13O 327 / A3111 D030	5.800 - 7.300 psi
Elongation at break in traction	ISO 527 / ASTM D638	0,6% - 0,9%
Compressive strength	ISO 604 / ASTM C365 —	98 - 115 MPa
		14213 - 16679 psi
Impact resistance per ball	ISO 19712-2 (324 g) / NEMA LD3 (224 g)	> 200 cm
IZOD Impact resistance	ISO 180 / ASTM D256 —	3,9 KJ/m²
		4,2 KJ/m²
Slip resistance (pendulum method)	UNE 12633	(Sandpaper finish <sup>(1)</sup> : grain 40 - 1000) USRV: 48 - 9
Slip resistance (friction coefficient)	ASTM C1028 —	Dry static coefficient: 0.8-0.69
		Wet static coefficient: 0.82-0.62
Load test	ISO 19712-2	Passed
Dimensional stability at 20°C	ISO 4586-2 / NEMA LD3	Passed
Resistance to cracking	UNE 432-2	Successful
Frost resistance	ISO 10545-12	Passed

Table 2. Physical properties, use and durability

PROPERTY	TEST METHOD	RESULT
Density	ISO 1183 / ASTM D792	1,65 - 1,85 g/cm³
Rockwell hardness	ISO 19712 (UNE-EN 2039-2) / ASTM D785	> 90
Barcol hardness	ISO 19712 / ASTM D2583	65-70
Ball hardness	ISO 19712 (UNE-EN 2039-1)	250 - 290 N/mm²
The arrest accession	ICO 112F0 2 /FN 14F01) / ACTM D/O/	3,5±0,3·10-5 °C-1
Thermal expansion	ISO 11359-2 (EN 14581) / ASTM D696	1,9±0,3·10-5 °F-1
Deflection time under load 1.82 N/mm²	ISO 75 / ASTM D648	95-105 °C
Denection time ander load 1.02 (1) 11111		203-221 °F
Thermal conductivity	EN 12667 / ASTM C518	(0 °C − 40 °C) 0,10 − 0,22 W/m· K
Resistance to dry heat		
Resistance to wet heat	(50.1071)	Successful
Resistance to cigarettes	ISO 19712	
Thermal shock resistance		
High temperature resistance (dry heat)	NEMA LD3	Successful
Wear resistance	ISO 4586	0,028 %/25 rev
Resistance to boiling water	ISO 4586 / NEMA LD3	Successful
Water absorption	ASTM D570	0,02% - 0,04%
Light stability (Xenon Arc) (3000 h)	UNE-EN 438 / ISO 19712 / ASTM G155	Successful
Color stability	NEMA LD3	Successful
Global sound insulation	ISO 717-1	33,5 dBA
Impact noise insulation (steps)	UNE EN ISO 10140-1:2016. Anexo H	17 dB
Electrical resistance and resistivity	UNE-EN 61340	$2\cdot 10^{12}\Omega$
Furniture sliding	UNE EN 424:2002	Correct (32 kg)
Effect of the chair with wheels	UNE EN 425:2002	Correct (25000 cycles)
Static punching	EN ISO 24343-1:2012	Indentation < 0.01 mm / No deterioration
Surface start	UNE EN 13329:2016. Anexo D	> 2,1 N/mm²

Table 3. Hygiene, maintenance and sustainability properties

PROPERTY	TEST METHOD	RESULT
Resistance to bacteria	ISO 846	No growth
Resistance to fungi	ISO 846 / ASTM G21	No growth
Resistance to microbes in building materials	UL 2824 (ASTM D6329)	No growth
Wear and tear and cleanability	CSA B45.5-11   IAPMO Z124-2011	Complies
Stain resistance - washability	NEMA LD3	Satisfactory
Chemical resistance	ISO 19712 (Method A)	Satisfactory
Stain resistance in bathroom products	UNE 56867	Satisfactory
Photocatalytic resistance to bacteria*	ISO 27447	Active
Photocatalytic self-cleaning properties*	ISO 10678	Active
Photocatalytic air purification*	ISO 22197	Active
Degradation of chemical substances*	ISO 10678	Active
Migration	Regulation 10/2011 of the European Commission	Compliant
	MTA/MA-014/A11	
Toxicity of dust from cutting activities	UNE-EN 12457-4	Non-toxic
	UNE-EN ISO 11348-3	
SiO <sub>2</sub> content	Instituto Nacional Silicosis (INS)	Not found
	OECD 202:2004	
	OECD 203:1992	
Ecotoxicity (terrestrial and aquatic environments)	OECD 201:2006	Non-toxic
	OECD 207:1984	
	OECD 208:2006	

<sup>\*</sup> Only in Snow White 1100 EAST.

Table 4. Fire performance properties

PROPERTY	TEST METHOD	RESULT
Specific heat	UNE-EN 23721	1,361 J/g∙ K
Thermal resistance	UNE-EN 12667	0,064 m²· K/W
Marine	IMO Certificate	Mod.B & Mod. D
Marine. Toxicity of smoke	IMO FPTC Part 2	Complies
Ventilated façades	UNE-EN 13501-1	B-s1,d0
Fire performance	UNE-EN 13501-1	B-s1,d0
Flammability	UL94HB	Complies
Fianimability	UL94V	VO
Surface burning	ASTM E84 (NFPA 255) —	Flame spread 0
Sunace burning		Generated smoke 5
Burnt floor surface	CAN/ULC-S102.2 —	Flame spread 0
Burit moor surface		Generated smoke 0
Fire rating	DIN 4102-1	B1 No restrictions
Potential heat	ISO 1716 / NFPA 259	9,3 MJ/kg
Ignition	NFPA 268	Complies
Flammability. Surface combustion characteristics of building materials	NFPA 101	Class A
Flashpoint	ASTM D1929	440 °C
Auto-ignition temperature	ASTM D1929	490°C
Single combustion test for building materials and products	GB/T20284-2006	Complies
GOST standard	GOST	Complies

<sup>\*</sup> Results for solid color sheets (example: Snow White 1100) and 12 mm thick. The values are informative, based on tests carried out in external laboratories and periodically checked in the internal laboratories of KRION SOLID SURFACE, S.A.U. Their purpose is not to serve as a basis for engineering calculations. For accurate calculations, contact KRION SOLID SURFACE, S.A.U.





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