

MODULAR SYSTEM

butech®
PORCELANOSA Grupo

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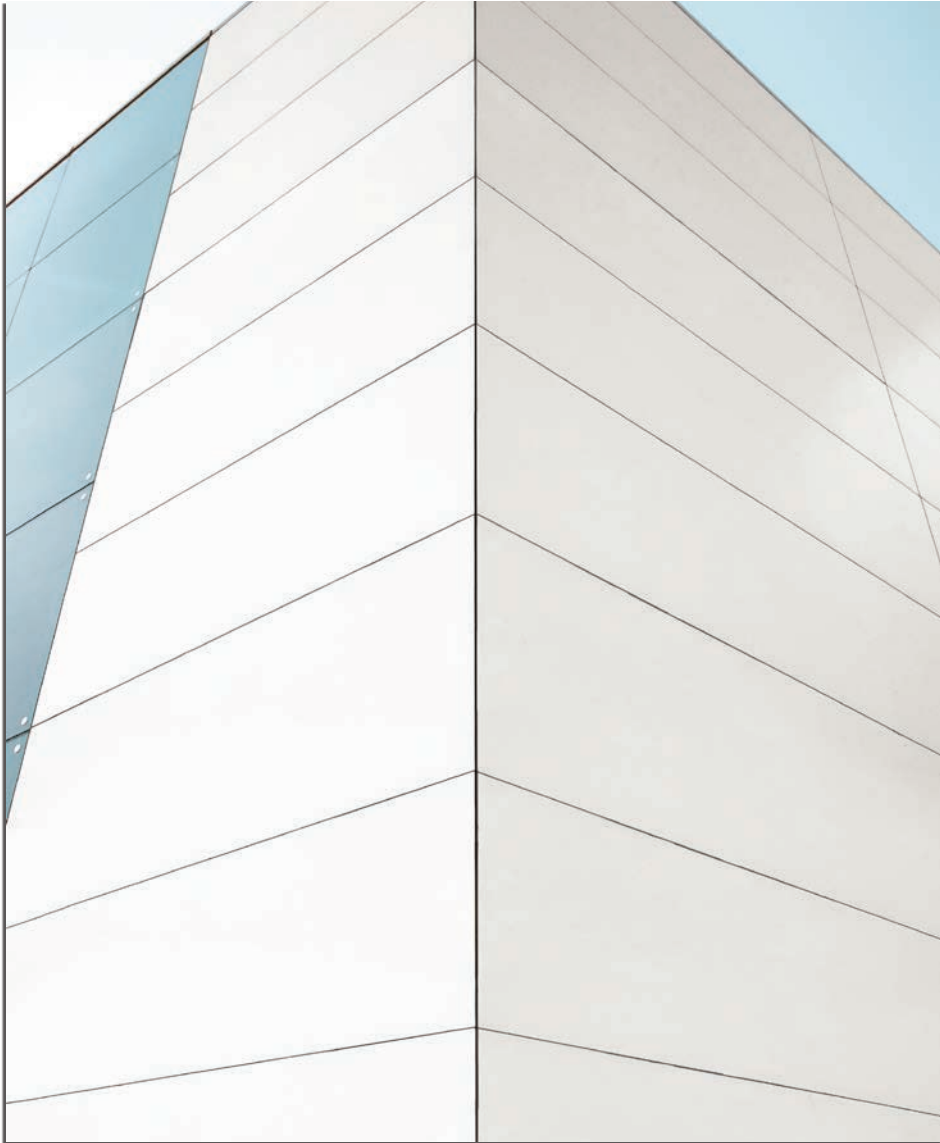


SUMMARY

1. Butech modular system
2. Composition
3. Advantages
4. Certificates
5. Technical features
6. Technical details
7. Finishes

BUTECH MODULAR SYSTEM

Butech's modular system is an innovative lightweight façade construction system, which by the quickness of its installation, and its contribution to the building's energy efficiency, make it a system that adds value to the finished product, for a price lower than traditional construction.



COMPOSITION

The system is made up of two outer SECUROCK PANEL panels and an inner core consisting of three 4 cm thick insulation layers, thus achieving the highest energy efficiency performance for your building.

It is supported by a tubular steel structure that anchors the panel to the building structure.

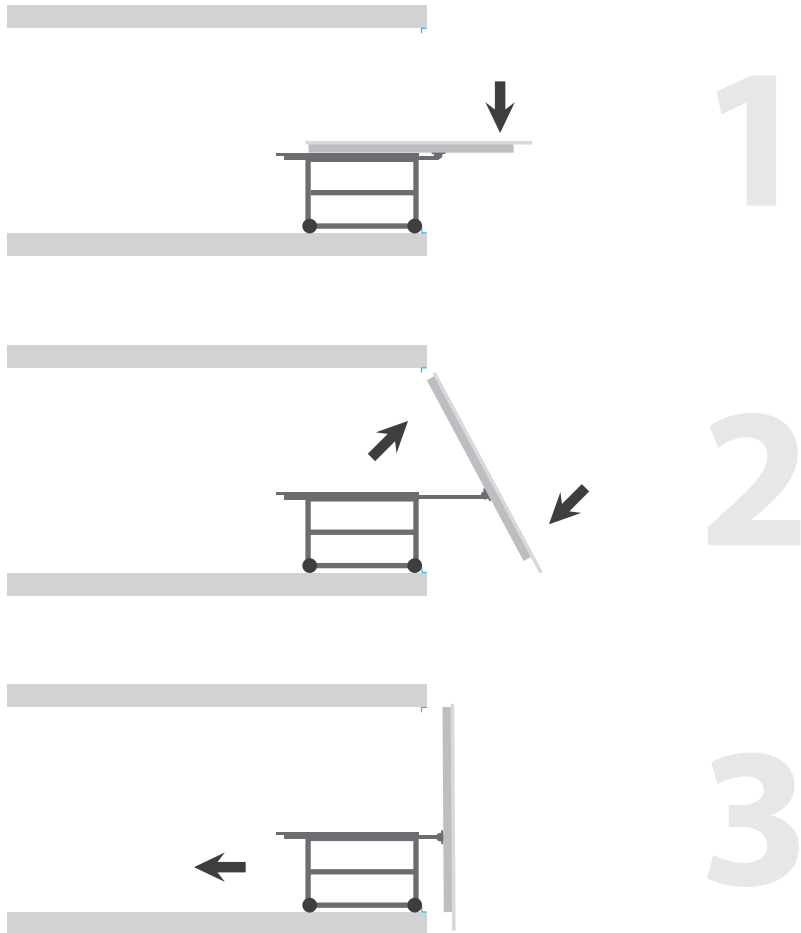


ADVANTAGES OF THE SYSTEM

Quick installation.

Thanks to its lightness and assembly simplicity, the modular system achieves a full finished facade installation speed that adapts to the needs of any project.

The modular system provides a reduction in construction times that is superior to any traditional constructive system, achieving productions of 3 m²/man hr, per installation equipment.



Auxiliary means are not needed and waste is not produced.

Using a crane or scaffolding is not required as it is assembled from the inside of the building.

Being a prefabricated product tailored to your work, it does not need to be machined.





Energy efficiency.

Butech's modular system is made up mostly by insulating material, thus achieving the highest energy efficiency performance for your building.



100% Recyclable

The system components are entirely recyclable, guiding your construction towards sustainable construction.



CERTIFICATES

Butech's modular system has been certified by the Applus laboratory, having obtained the highest qualifications provided for in the CTE for curtain walls.

Informe de Ensayo

Delatante: 11 de Octubre de 2013

Expediente número: 10705-2013

Referencia del producto: SISTEMA CURTAIN WALL COLORADO

Referencia del fabricante: SIDA, S.A.

FECHA DE REALIZACIÓN DEL ENSAYO: 20-09-2013

FECHA DE EMISIÓN DEL INFORME: 20-09-2013

FECHA DE VALIDACIÓN DEL INFORME: 20-09-2013

MATERIAL ENTREGADO:

Se ha entregado un panel tipo A, con referencia comercial FACHADA LEGUA 1 PANEL, de dimensiones totales 4000 x 2000 mm, formado por 2 paneles, a modo de muestra, a modo de ensayo, de espesor 145 mm (formado por un núcleo de 2 láminas de poliestireno expandido de espesor 45 mm cada una y un núcleo de espuma de poliuretano de espesor 55 mm), con un recubrimiento de la fachada compuesta de láminas perforadas de espesor 2 mm, incluyendo una junta vertical y una junta horizontal, según la siguiente secuencia de ensayo:

ENSAYO SOLICITADO:

a) Impermeabilidad al agua para clasificación

b) Estanchidad al agua, según presión estática, para clasificación

c) Resistencia a la carga de viento - según presión de servicio

d) Impermeabilidad al agua, repetición para confirmar clasificación de Resistencia al viento

e) Estanchidad al agua, repetición para confirmar clasificación de Resistencia al viento

f) Resistencia a la carga de viento, ensayo incremental de resistencia al viento - según presión

Air permeability, water tightness, and resistance to wind load.

Informe de Clasificación

Delatante: 20 de Septiembre de 2013

Expediente número: 10705-2013

Referencia del producto: SISTEMA CURTAIN WALL COLORADO

Referencia del fabricante: SIDA, S.A.

2. CARACTERÍSTICAS DEL PRODUCTO

Panel tipo A idéntico, la cubierta exterior es de panel SECURIDEX y el alma de EPS, estando respaldado por un aislante acústico en su interior compuesto de lana mineral de construcción de espesor de 2 cm de lana.

Referencia comercial del producto: FACHADA LEGUA 1 PANEL

El panel está compuesto por 2 tipos:

- Tipo 1: Panel Securox, con un espesor de 12 mm, un peso de 10 kg/m², de color verde y aspecto rugoso.
- Tipo 2: Panel Securox, con un espesor de 12 mm, un peso de 10 kg/m², de color verde y aspecto liso.
- Tipo 3: Panel Securox, con un espesor de 12 mm, un peso de 10 kg/m², de color verde y aspecto rugoso.

Flammability.

Informe de Ensayo

Delatante: 15 de octubre de 2013

Expediente número: 10705-2013

Referencia del producto: SISTEMA CURTAIN WALL COLORADO

Referencia del fabricante: SIDA, S.A.

ENSAYO SOLICITADO: Medición en laboratorio del aislamiento acústico al ruido aéreo, según norma UNE-EN ISO 10140-2:2012, de un elemento vertical a base de paneles perforados para fachada tipo con referencia comercial FACHADA LEGUA 1 PANEL.

FECHA DE REALIZACIÓN DEL ENSAYO: 2 de agosto de 2013

ENSAYO REALIZADO POR: Javier Méndez (Lab. de Acústica - LGT Technological Center)

Firmado digitalmente por: Francisco Javier Coto Guillén

Resolución de: Javier Méndez

LGTECHNICAL CENTER S.L.

Acoustic insulation against air noise.

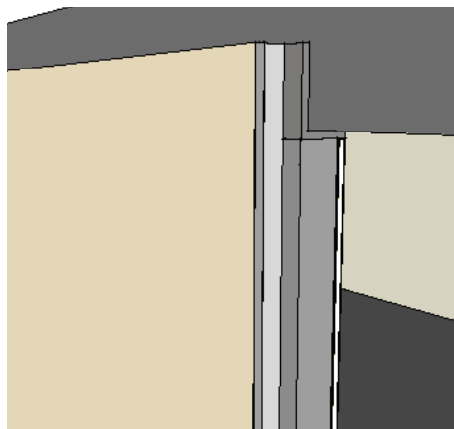
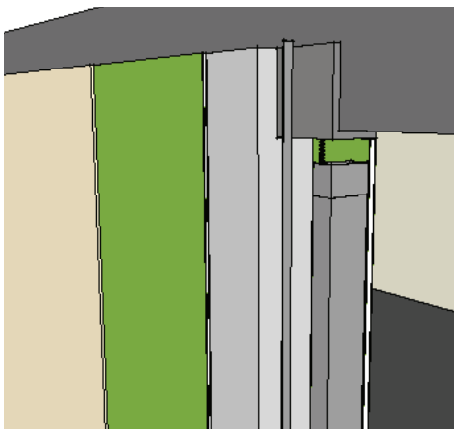
TECHNICAL FEATURES

Air permeability	A - 4
Water permeability	R - 7
Resistance to wind load	200 km/h
Flammability	B - s1 - d0
Air noise insulation	Rw 36,0 dB
	RA 34,7 dB
	RAtr 30,9 dB
Thermal insulation	Rt 4,428 m ² .k/W
	U 0,226 W/m ² .k

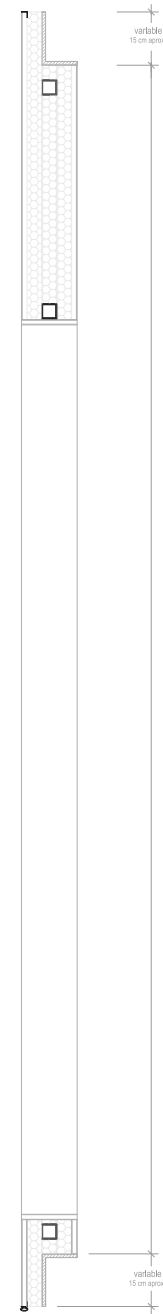


TECHNICAL DETAILS

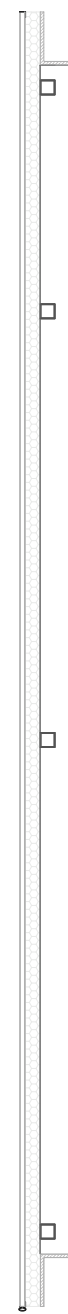
Build-up view



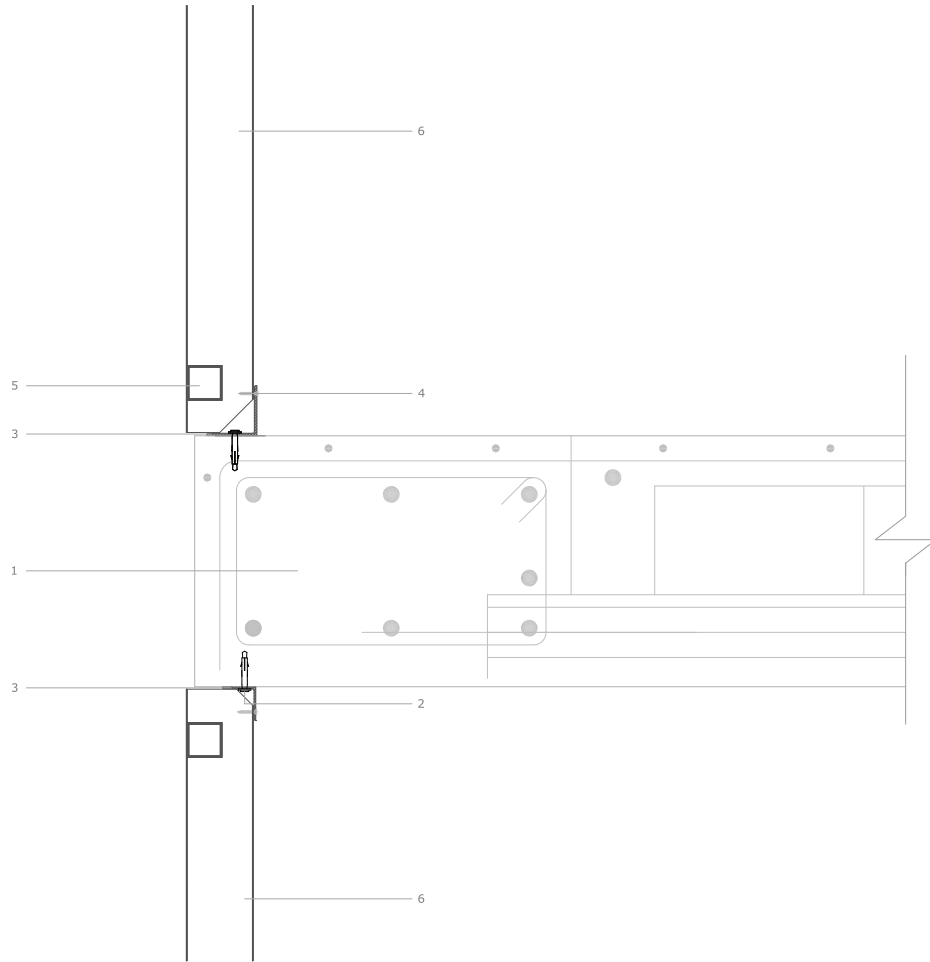
Gap vertical cross-section



Panel vertical cross-section

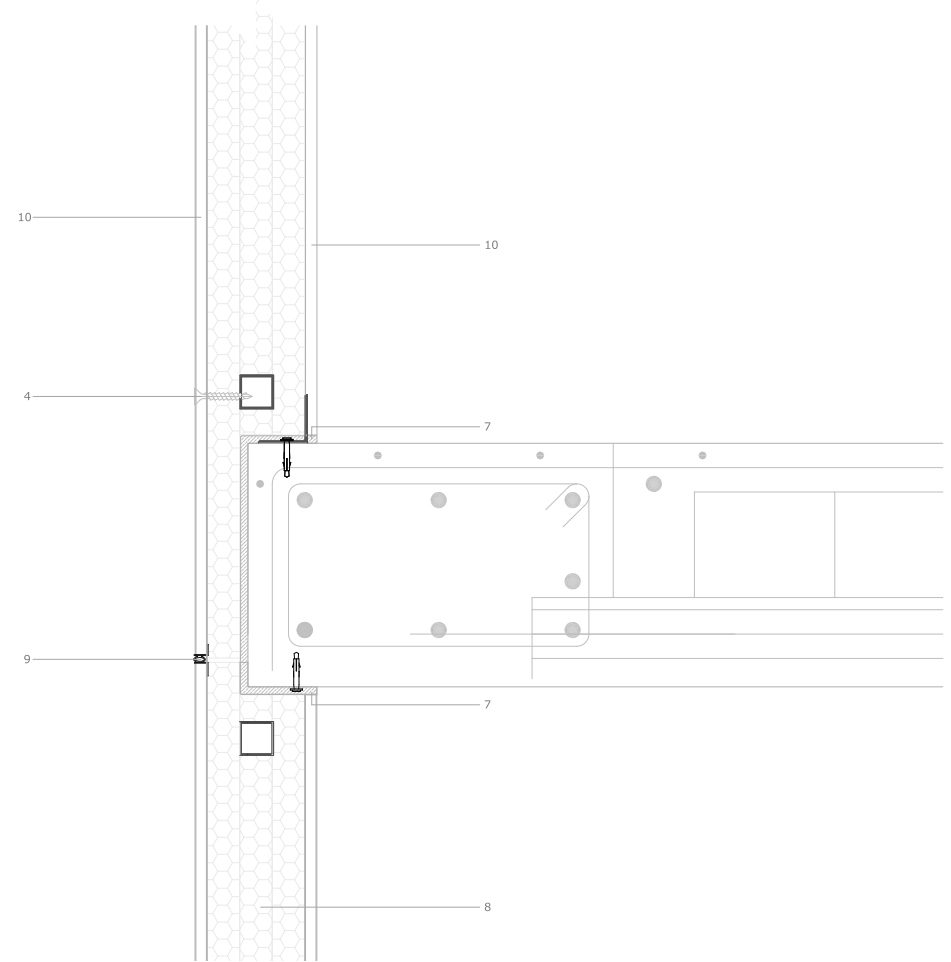


Structure vertical cross-section



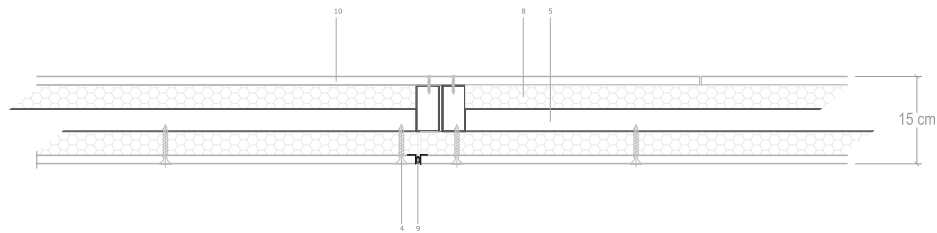
- | | |
|---------------------------------|-----------------------|
| 1. Slab | 4. Self-tapping screw |
| 2. Mechanical anchoring to slab | 5. 40.40.2 Steel tube |
| 3. 60.60.2 Plate angle | 6. 80.40.2 Steel tube |

Panel vertical cross-section



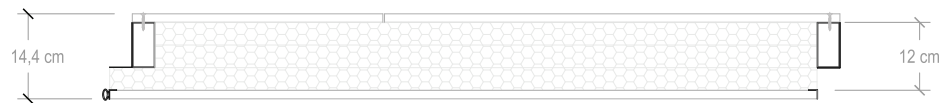
- | | |
|---------------------------------|-----------------------------|
| 1. Slab | 6. 80.40.2 Steel tube |
| 2. Mechanical anchoring to slab | 7. Adjustment to slab foam |
| 3. 60.60.2 Plate angle | 8. Expanded polystyrene EPS |
| 4. Self-tapping screw | 9. EPDM joint |
| 5. 40.40.2 Steel tube | 10. Securock panel |

Horizontal cross-section. Joint between panels

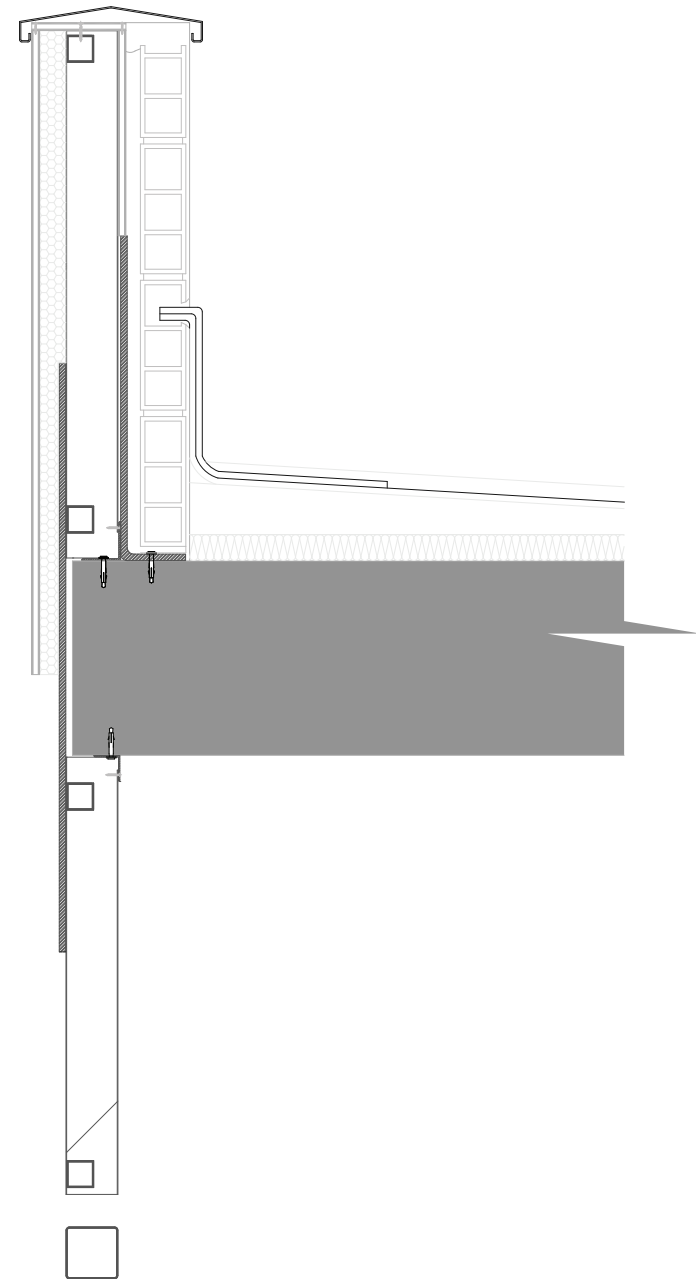


- | | |
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Horizontal cross-section. Panel



Crowning trim



FINISHES

XLIGHT

XLight is a new type of extremely thin, large format porcelain tile, which is achieved thanks to the use of the latest technological advances in ceramic production.

It is available in two 3 mm thick formats, 300 x 100 cm and 100 x 100 cm, back-reinforced with a fiberglass mesh that enhances the slab's flexural strength.

The large size of this type of porcelain tile, its zero water absorption, its resistance to atmospheric agents, its lightness with less than 10.5 kg/m² as well as its design, make the XLIGHT slabs an excellent solution for all types of facades.



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.

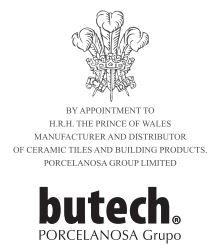
Unlike other materials used professionally, it can be injected, cut, machined, and glued, achieving invisible joints. This property allows designs to freely incorporate functionality and ergonomics criteria which would be otherwise difficult to obtain.

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.







butech building technology, s.a.

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