



# TECHNICAL BOOK

## - VENTILATED FAÇADE SYSTEMS -

butech.

**butech.**<sup>®</sup>  
PORCELANOSA Grupo

**butech.**  
PORCELANOSA Grupo



**CSTB**  
le futur en construction  
Avis Technique  
2/10-476

**BBA**  
DIT N° 530

APPROVAL  
INSPECTION  
CERTIFICATION  
Agreement Certificate  
No 10/4775

**ICC**  
**ES**

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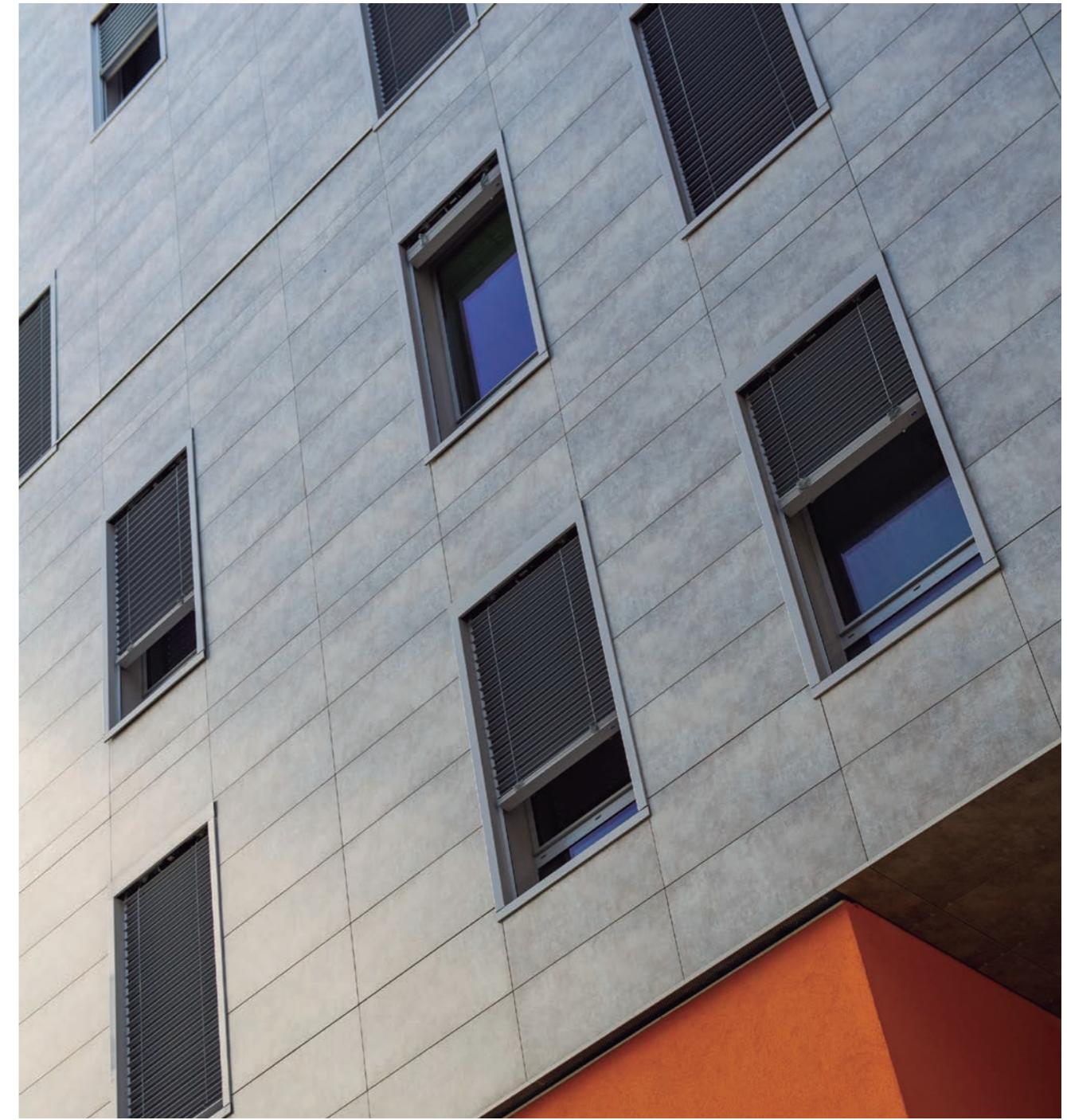
## Ceramic ventilated façade



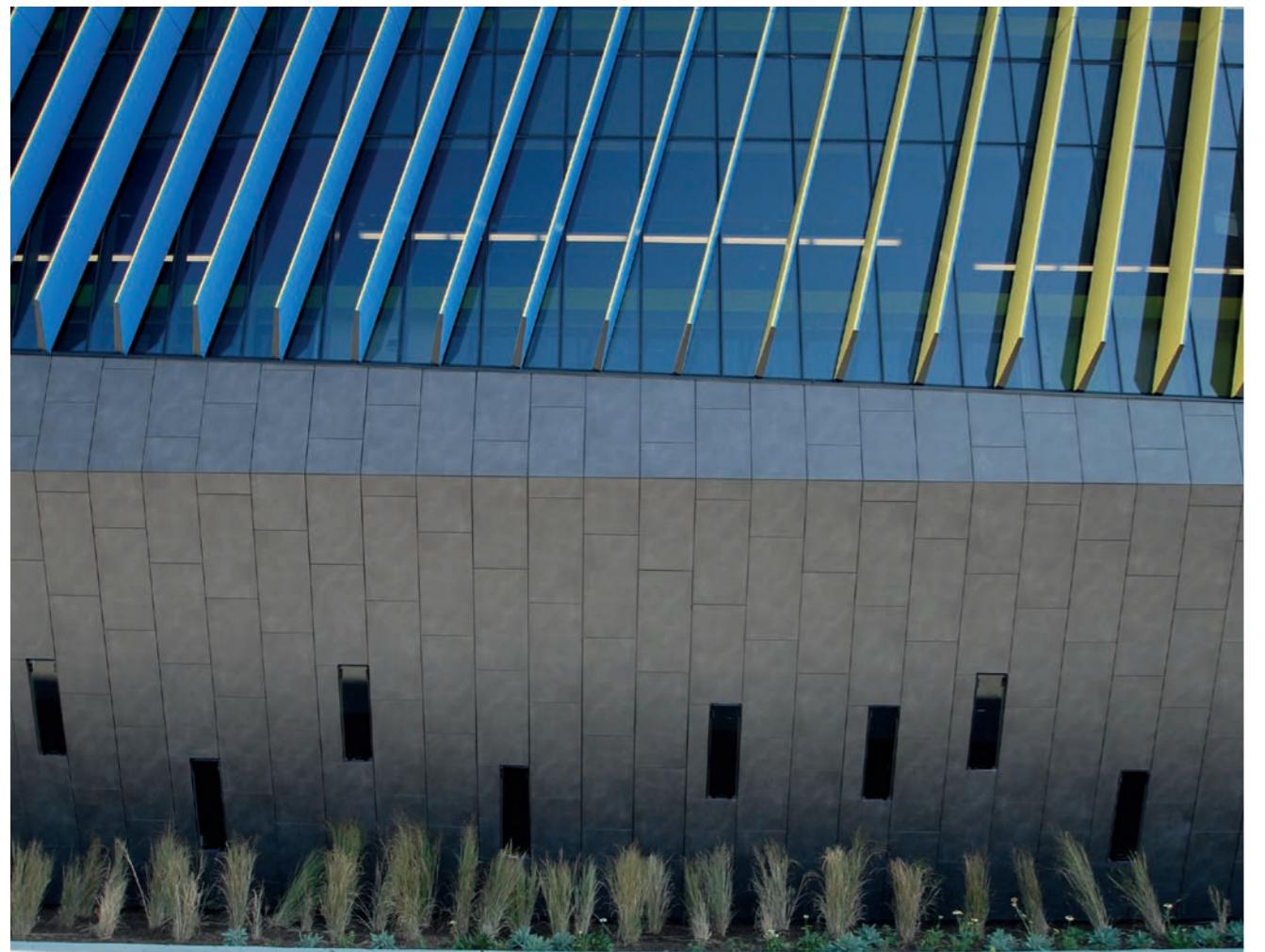
**FFB. French building federation (Tours - France)**  
Arch. Claude Blanchet



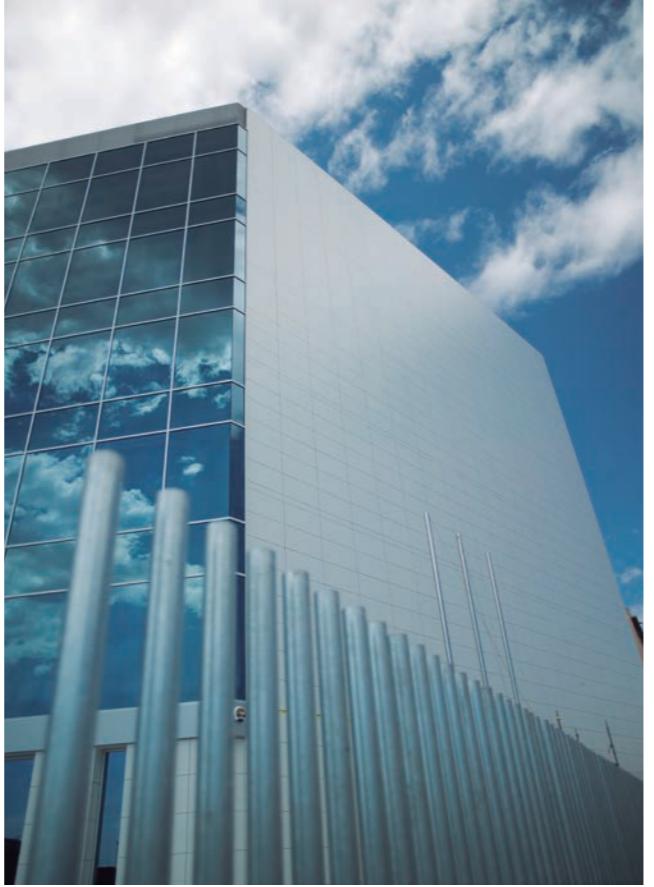
Private House (Madrid - Spain)



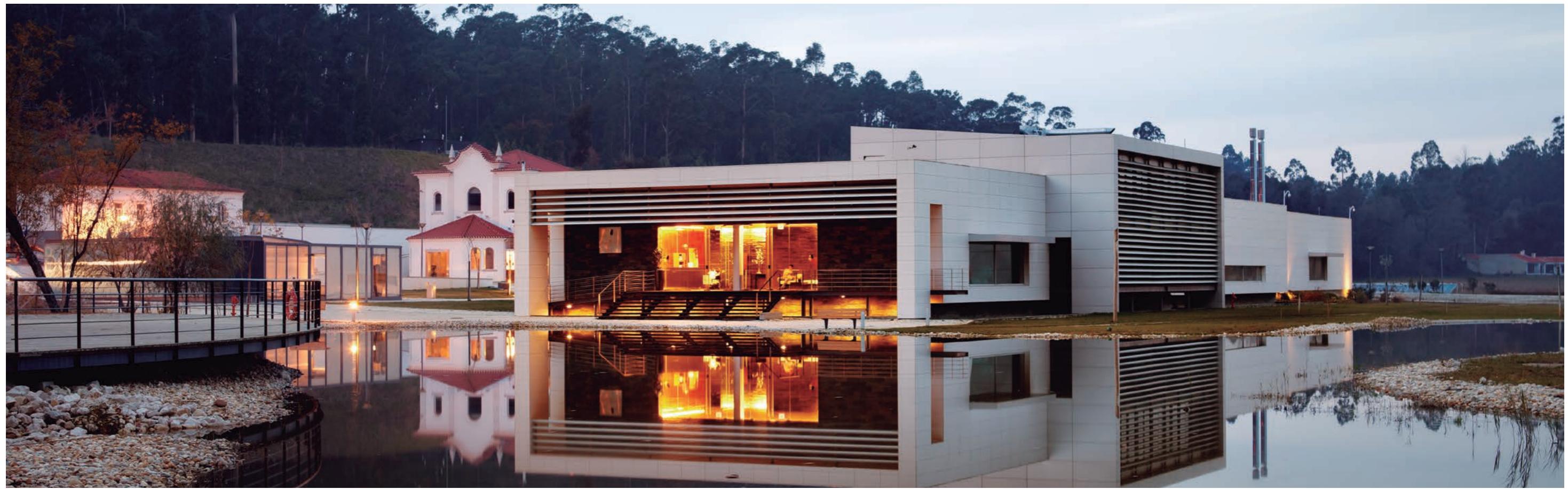
New Ambroise Paré Hospital (Marsella - France) - Arch. Ludovic Bisi and Stéphan Bernard. Carta Associes



Northeastern Illinois University. El Centro Campus. (Chicago - USA) - Arch. JGMA

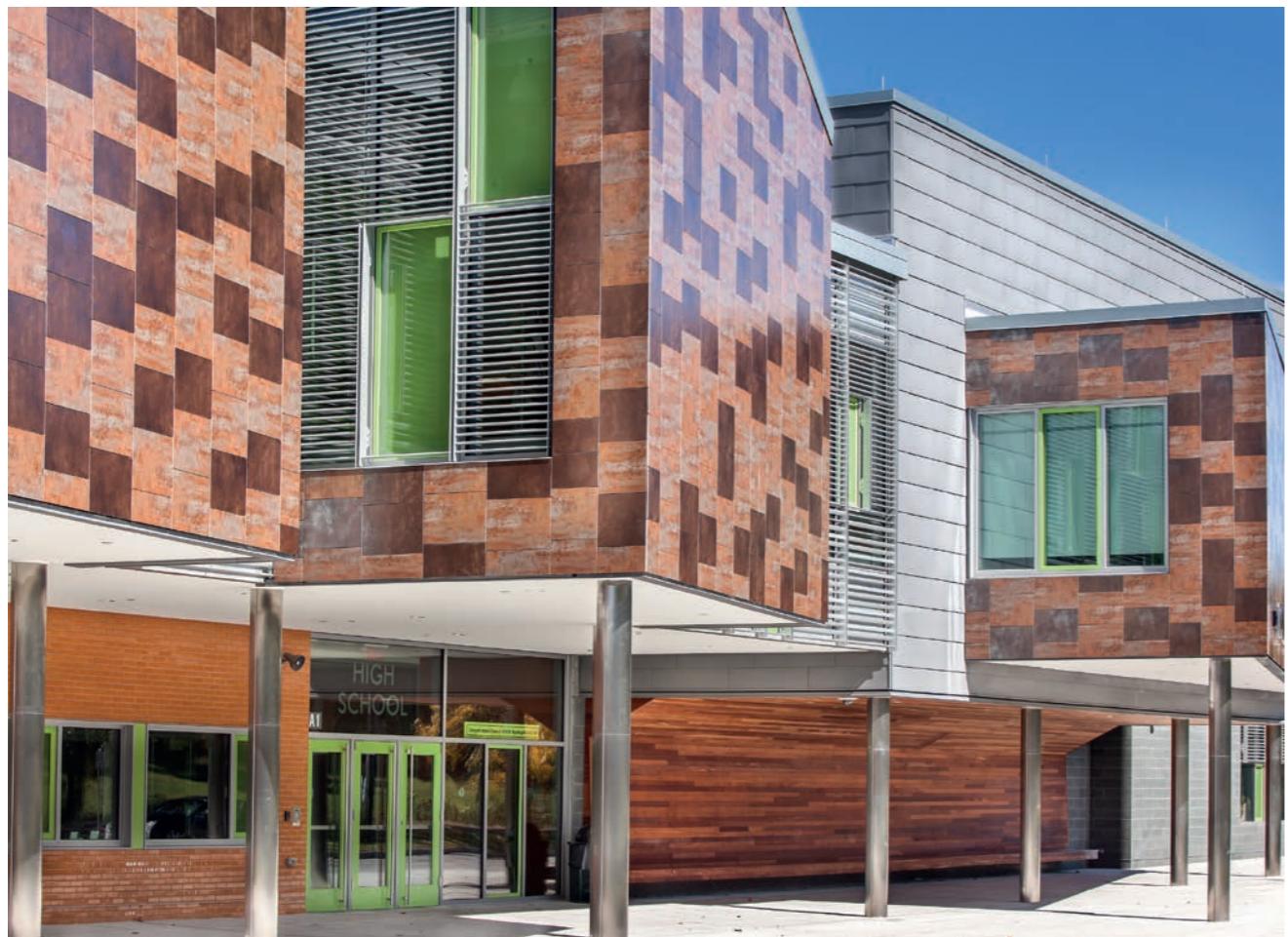


Court of justice building (Villarreal - Spain) - Arch. Guillamón Rubert Asociados



Termas de Monte Real Hotel (Leiria - Portugal) - Arch. Antonio Garcia





High School (Dolyston - USA)



Private house (Madrid - Spain)



Police station (Madrid - Spain)



Indigo Hotel (Newark - USA)



Single-family building (Barcelona - Spain) - Arch. Abaa arquitectes associats S.L.



DFA Fundation (Saragossa - Spain)

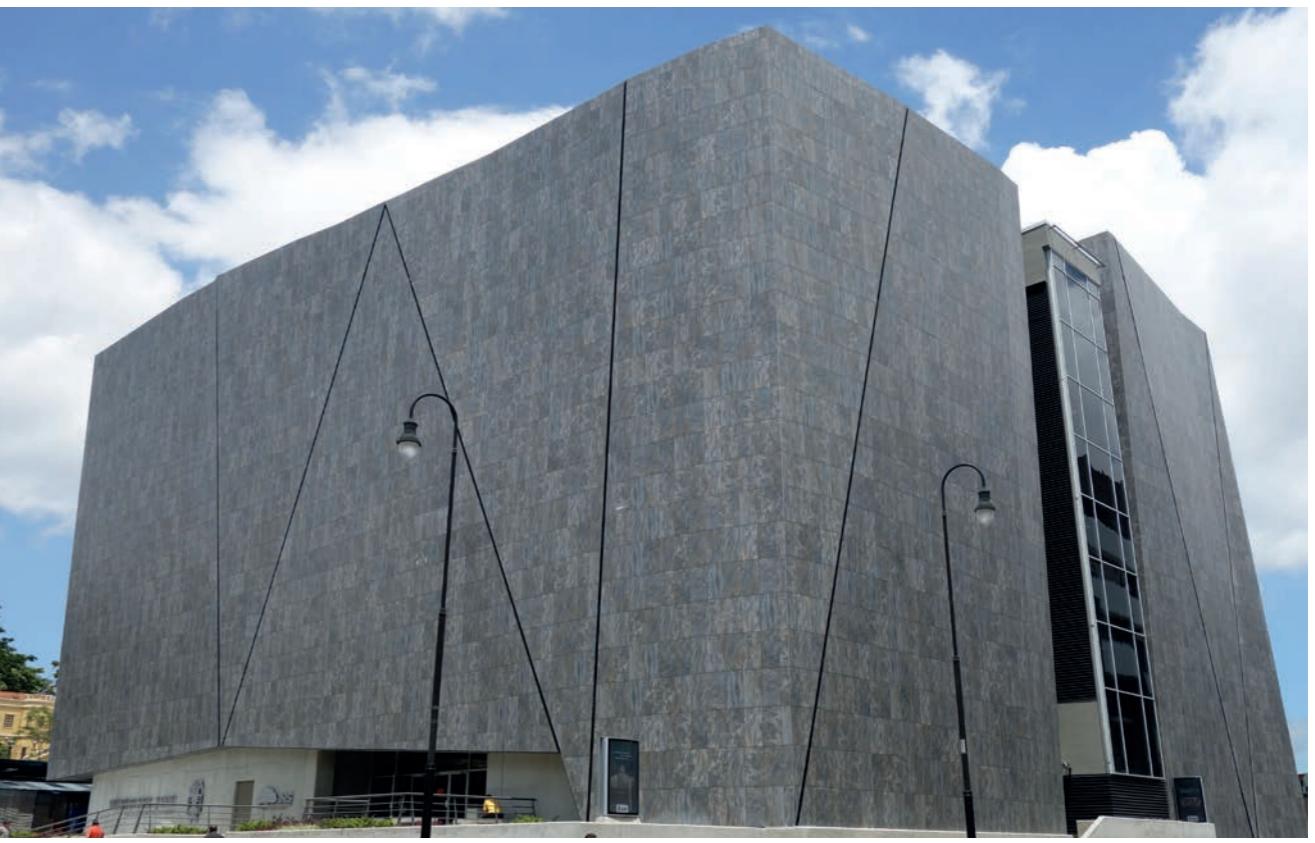
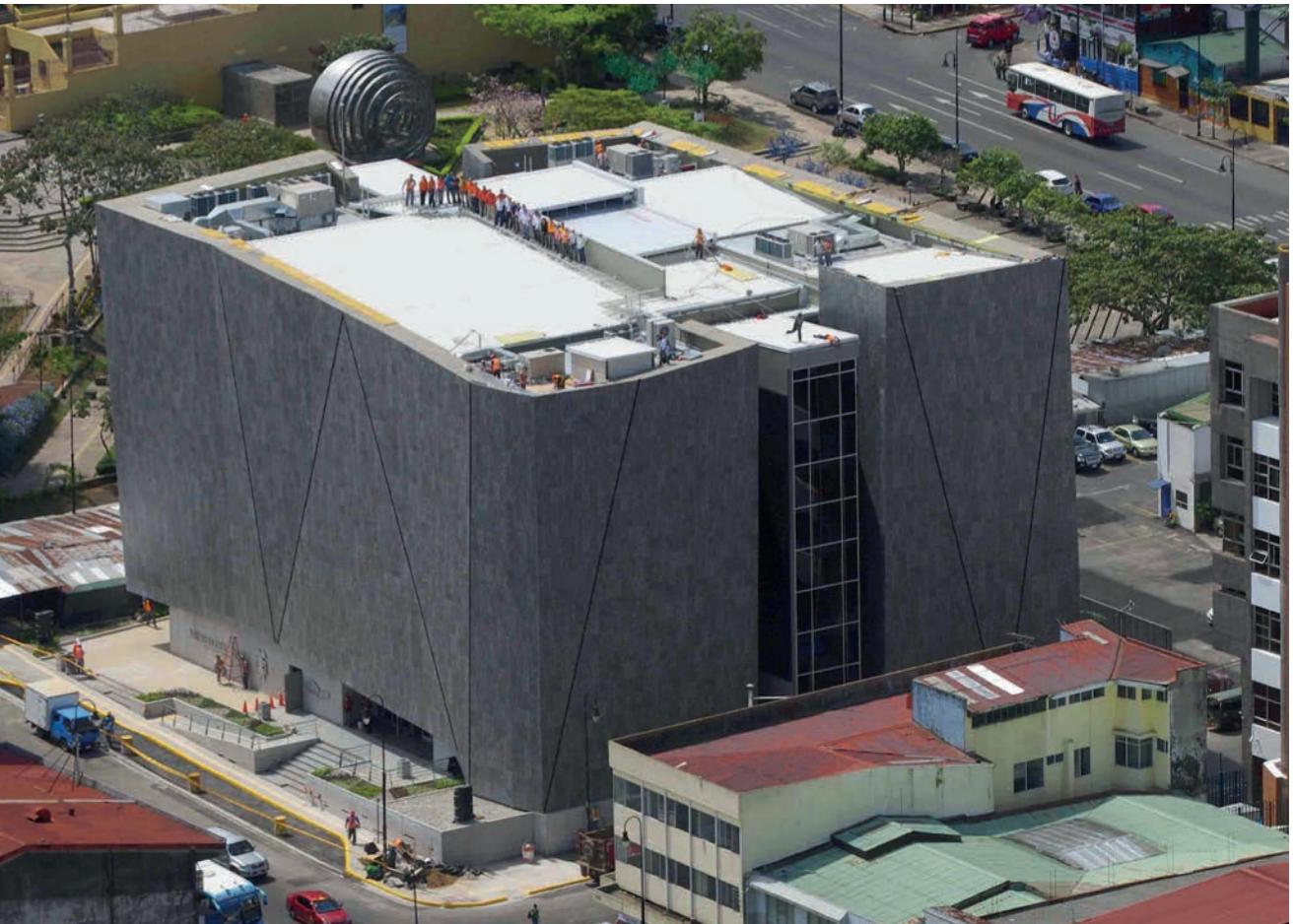




British school (Madrid - Spain)



University (Exeter - United Kingdom)



Jade museum (San José - Costa Rica)



**Disabled centre (Madrid - Spain)**

# Ventilated façade

The façade is both the image of the building and the envelope that protects it from the elements. Thanks to its special features, the STON-KER® ventilated façade provides buildings with a wide range of technical and aesthetics benefits.



## Aesthetics and durability

Colours, formats, stability, resistance, anti-graffiti, hygiene, water-tightness...

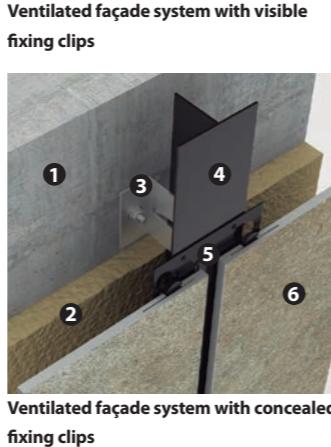
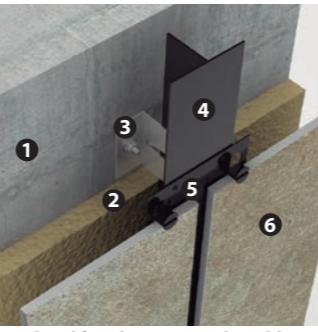
PORCELANOSA Grupo is at the forefront in terms of production, research and development and technical innovation in the ceramic tile sector. The group offers hi-tech products with excellent technical and aesthetic qualities, adapted to the needs of designers and architects.

Its range of colours, finishes, textures and formats in ceramic tiles is one of the most extensive on the market, and is suitable for cladding ventilated façades in any type of project and application.

Special models can be developed based on the requirements, preferences and demands of our clients. The STON-KER® ventilated façade allows designers to present innovative projects and fully satisfy their requirements in terms of quality.

- Wide range of colours, finishes, formats and textures.
- Different layout patterns possible.
- High dimensional stability.
- Savings on space, increase of inhabitable surface.
- High durability of porcelain tiles: resistance to atmospheric agents; resistance to UV rays, which do not alter the appearance of the tiles with time; if necessary, the tiles can be replaced with other identical tiles (with the possibility of reproducing the same colour shades); resistance to thermal shock thanks to a low thermal expansion coefficient.
- Without grouting or sealing materials between the tiles, air gap ventilated through open joints (joint width of  $\leq 8$  mm.).
- Elimination of steam condensation thanks to ventilated air gap and installation of insulation material on the outside of the building envelope.
- Thermal insulation and supporting wall of the building protected from rain thanks to the reduced width of the open joints, the vertical position of the air gap and the solutions used for all of the construction details on the façade (mouldings, protective elements, etc.).

- Adaptable to the architectural style used.
- Resistance to cracks, abrasion, scratching, freeze/thaw cycles and impacts; tiles resistant to different impact classifications (special STON-KER® tiles).
- Minimum maintenance for façade, or not required: practically non-existent water absorption ( $WA < 0.02\%$ ); non-porous; highly compact, with apparent density of 2400 kg/m<sup>3</sup>; anti-graffiti; resistant to chemical corrosion (METALIA series, class B); resistance to stains; resistance to microorganisms; hygienic.
- Prevention of problems associated with efflorescence or the appearance of damp on the façade.



## Energy savings and sustainable development

Considerable improvements in the thermal behaviour of the façade, by increasing the thermal resistance of the envelope or overall improvement in the performance of the façade, as well as many other benefits.

- Reduction of the thermal transmission coefficient (U) of the building envelope by increasing the thermal resistance by convection of the outer surface of the envelope.
- Easier installation of the insulation material on the outside of the existing envelope in renovations or new projects.
- Reduction of the heat flow caused by incident solar radiation in summer by up to 80%, thanks to the chimney effect created between the ceramic tile cladding and ventilated air gap. As a result of the air inside the gap heating up and causing low pressure inside the gap with respect to the external pressure, the hot air rises by convection, allowing cooler air from the outside to enter the gap through the open joints. Prevention of direct radiation on the supporting wall and drastic reduction of solar heating through the envelope. This means that the width of the existing air gap must be 20 mm or more between the rear of the tiles and the outer surface of the thermal insulating material.
- Elimination of thermal contacts at points where the edges of the floor slab connect with the vertical envelope, by installing thermal insulating material on the outside of the supporting wall, both in renovation projects or new building projects.
- Greater inertia of building envelope.
- More comfortable conditions inside the building.
- Reduction in heating requirements, and reduction in cooling requirements up to a certain point.
- Energy savings depending on local climate, direction of building and number of doors and windows in the building.
- Reduction in CO<sub>2</sub> emissions thanks to improved energy performance of the building.
- Reduced air noise thanks to the presence of open joints in the whole of the façade and the ventilated air gap.

- Porcelain tiles do not emit volatile organic compounds (VOCs).
- 100% recyclable natural product.

**butech** has evaluated the energy efficiency of the STON-KER® ventilated façade thanks to a thermal characterisation study carried out by the CIDEMCO Institute.

The policy of PORCELANOSA Grupo stands out for its commitment to supply products with the best possible service that fully respond to clients' expectations and demands, complying with applicable legal and environmental standards. With this aim in mind, PORCELANOSA Grupo has made a commitment to maintain its position of leadership in terms of quality and the compliance of its quality control system with the ISO 9001 standard.

Since it first began its industrial activity, the commitment of PORCELANOSA Grupo towards the preservation and conservation of nature and the environment as a whole has taken shape through ECOTECH, a series of ideas and actions applied to the environment. As a result, major investments have been made on a yearly basis in water supply systems, recycling waste materials, protecting the atmosphere and saving energy, or in certifying the group's environmental management according to the ISO 14001 standard.

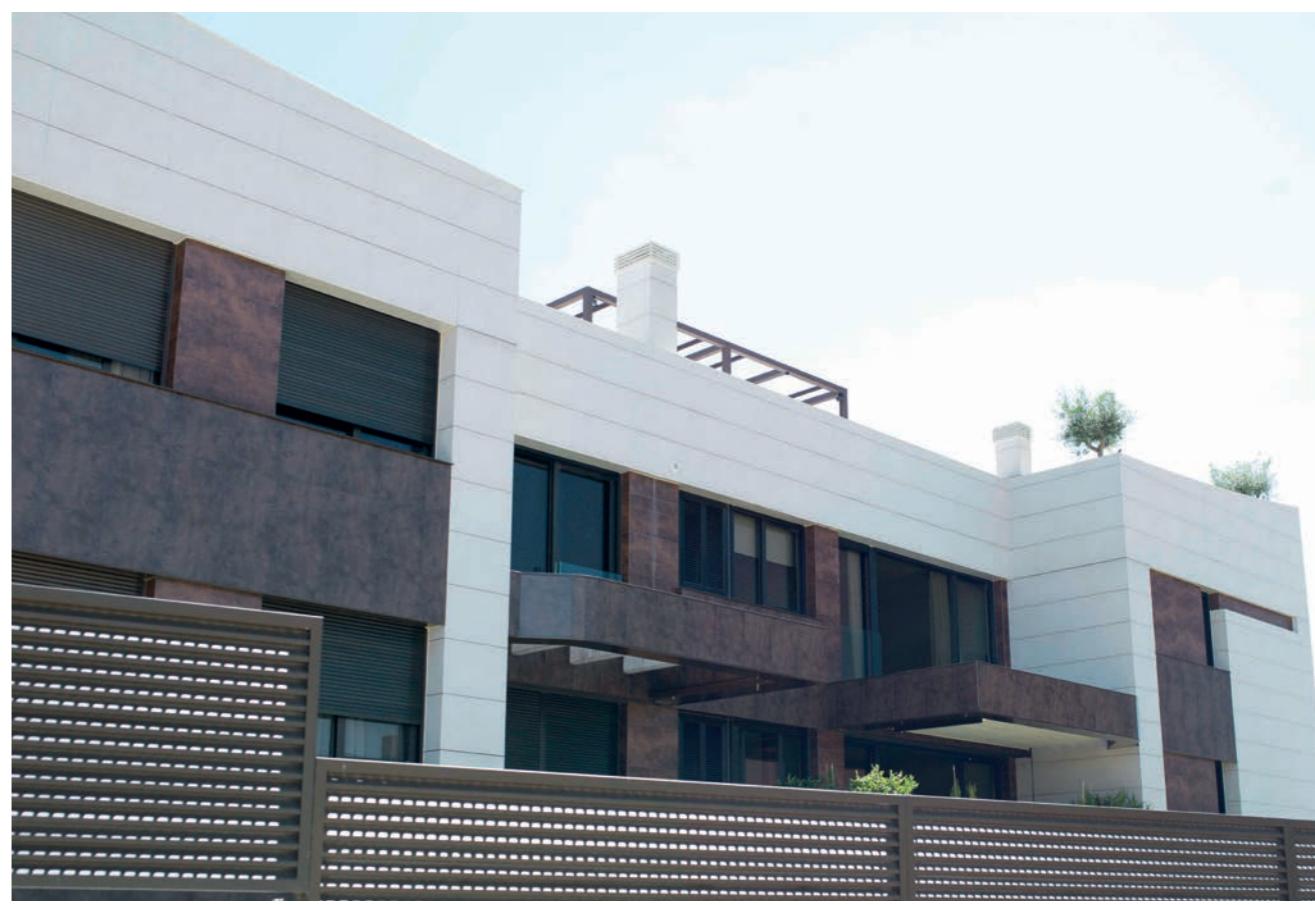


## Safety, protection and ease of installation

- Mechanical fixing system using visible or concealed clips to prevent the tiles coming loose.
- Structural anchoring system that isolates the façade from movements in the structure of the building, by allowing the two layers to move independently.
- Possibility of creating air gaps of different widths using angle brackets from 4 to 35 cm.
- Possibility of correcting envelope plumbness using a structural anchoring system to compensate for irregular wall sections.
- Fire resistance of glazed ceramic tiles EURO CLASS B-s2, d0 according to the BS EN 13501-1 :2002 standard.
- Impact resistance.
- Seismic resistance.
- Installation work causes minimum disturbance.
- Anti-fragmentation grid on the back of the tile.
- Light surround system. Full system weight less than 28 kg/m<sup>2</sup>.
- Possibility of replacing the tiles independently.
- Complete, fast and simple construction details such as framed VSG, the crowning, etc.

The system has obtained favorable certifications such as the BBA Agreement Certificate 10/4775 in United Kingdom, the Florida Product Approval FL9364 in United States of America, the EMI certificate A-758/2006 in Hungary, ICC certificate in USA, the Spanish certification DIT 530 by the Eduardo Torroja institute or the certificate Avis Technique CSTB n° 02/10-476 in France.

This system, which has now been on the market for 15 years, is increasingly used in both renovation and new construction projects.



Residential building (Madrid - Spain)

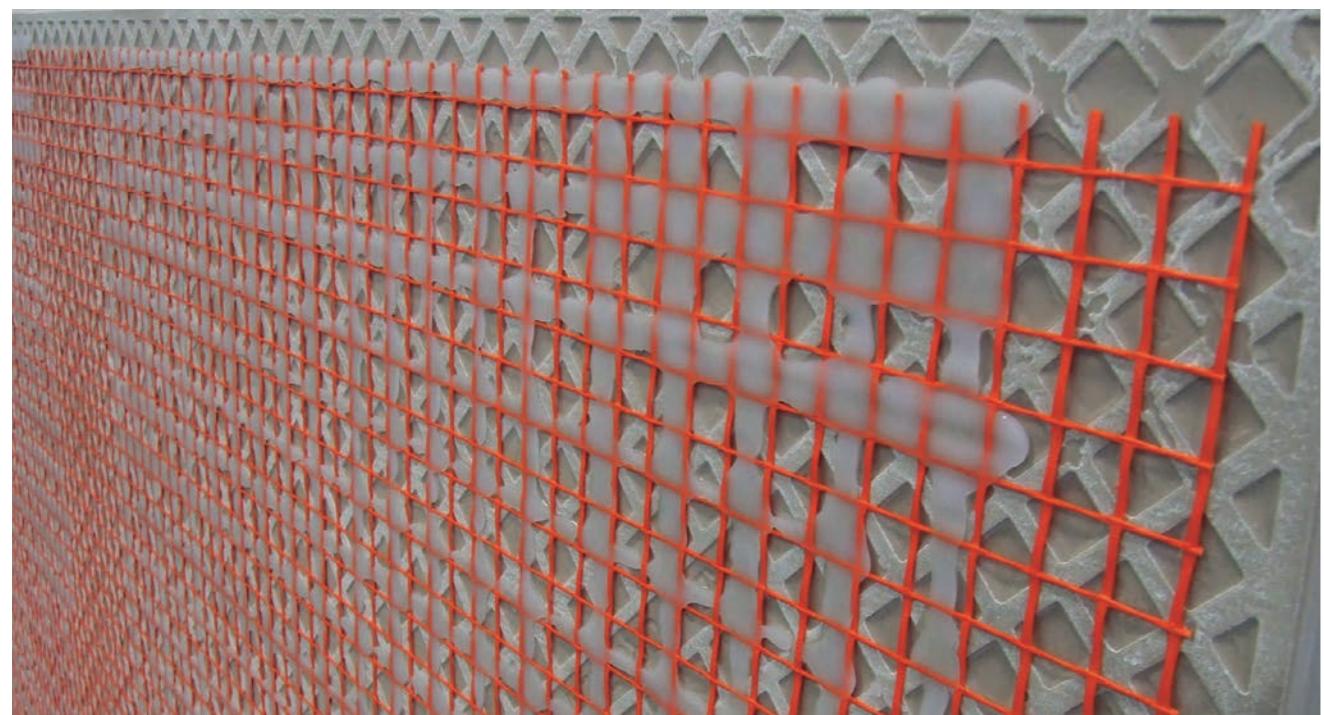
## Technical features of ceramic tiles

PORCELANOSA Grupo produces its tiles at its factories in Villarreal (Spain), at the PORCELANOSA y de VENIS, plants, certified according to the ISO 9001 and ISO 14001 standards. The ceramic tiles are dry-pressed, glazed and completely vitrified, as per the BS-EN 14411 standard, with low water absorption – Bias Group ( $\leq 0.5\%$ ).

NF-EN ISO	Test	ISO13006:1998 NF-EN 14.411:2006	Values STON-KER®	Values URBATEK
10545-2	Length & width	Deviation of $\pm 0.5\%$ with respect to manufacturing measurement	Meets requirements	Meets requirements
	Thickness	Deviation of $\pm 5\%$ with respect to manufacturing measurement	Meets requirements	Meets requirements
	Straightness of sides	Deviation of $\pm 0.5\%$ with respect to manufacturing measurement	Meets requirements	Meets requirements
	Rectangularity	Deviation of $\pm 0.6\%$ with respect to manufacturing measurement	Meets requirements	Meets requirements
	Surface flatness	Deviation of $\pm 0.5\%$ with respect to manufacturing measurement	Meets requirements	Meets requirements
10545-3	Water absorption	Mean value $\leq 0.5\%$	E $\leq 0.1\%$	E $\leq 0.1\%$
10545-4	Modulus of rupture	$\geq 32 \text{ N/mm}^2$ minimum individual value	> 40 N/ <sup>2</sup>	$\geq 42 \text{ N/mm}^2$
	Breaking strength	> 1300 N	> 2000 N	$\geq 2000 \text{ N}$
10545-8	Linear thermal expansion	Test method available	< 6,5 x 10-6 K-1	< 7,5, K-1
10545-9	Resistance to thermal shock	Test method available	Resistant	Resistant
10545-11	Resistance to crazing-glazed tiles	Required	Meets requirements	-
10545-12	Frost resistance	Required	Meets requirements	Meets requirements
10545-13	Resistance to acids and alkalis	According to manufacturer's data	GLA-GHA*	Depend on model
	Resistance to chemical products for domestic use and pools additives	Minimum class B	GA	UA
10545-14	Resistance to staining	Minimum class 3	Class 5	Depend on model

\* Except Metalia series GLB-GHB

All the tiles are provided of an anti-fragmentation mesh on the reverse side. Visible and invisible fixing. When using the invisible fixing system, the tiles have slots cut into them in specific points. The slot has a characteristic tensile strength of 32 daN. Can be installed vertically or horizontally.



## Façade renovation

The envelope of a building is the element that provides its image. Renovating a building envelope using a ventilated ceramic façade does not only result in an important change in aesthetic terms, but also improves the energy efficiency of the building. Using STON-KER ceramic material leads to minimum maintenance costs for building façades, providing a highly durable cladding system thanks to its characteristics.

The low absorption properties of STON-KER, combined with an open joint system, prevents the appearance of efflorescence on the façade. In terms of the energy savings that result from this system, by installing insulation material uniformly over the whole façade it is possible to eliminate thermal bridges that appear on the edges of floor slabs and pillars.

Also, thanks to the airflow generated inside the gap, condensation is prevented and the thermal-acoustic insulation material is kept dry, improving its efficiency. In summary, investing in a ventilated façade changes the appearance and functional performance of a building's outer envelope, making it easy to maintain and very long-lasting.

### Advantages

1. The three-dimension motion freedom of the system in conjunction with the flexibility of the aluminum used in its manufacturing, allows our Ventilated Façade system to avoid the structural movements of the building to affect directly the finish of the facade.
2. As the ventilated façade system creates an air gap, wiring and other elements can be concealed inside it. The air gap created between the tiles and the structure in our ventilated façade system can be used to conceal wiring and other elements in its interior.
3. The ventilated air gap also helps to solve existing problems affecting the building such as leaks, unventilated areas, noise, deterioration of the thermal insulation, etc. Refurbishments on the old facade can be carried out without aesthetic worries as it will be later covered by the Ventilated Façade. Any moisture that is present dries quickly thanks to the airflow inside the gap due to the chimney effect. This means that the useful life of the façade materials is considerably extended, and that the existing construction systems are not damaged.
4. The Ventilated Façade uses a mixed cladding system, with adhesive and mechanical anchors to ensure that the tiles are fixed firmly in place while direct bonding leads to risks such as incorrect laying or use of the adhesive material.
5. Being a projected facade, the system allows to conceal any shape irregularity in the building that makes the completion of the project much faster than the bonded fixing systems. Irregularities of 10 cm (315/16"). or more between the deepest and highest point of the facade can be absorbed.
6. An especially important aspect is that the ventilated façade can be installed quickly on buildings that are in use, when completion times have to be as short as possible.
7. The ventilated façade system makes it possible to resolve all contact points, details and surrounds quickly and easily, either using ceramic tiling or aluminium.
8. Thanks to the wide range of formats 120x59.6 (23.5"x471/4"); 66 x 44 (175/16"x2516/16"); 59.6 x 59.6 (23.5"x23.5"); 90 x 45 (1711/16"x357/16") ; 90 x 60 (1711/16"x235/8"), etc. and the possibility of cutting pieces to measure on site, it is easy to find a format that adapts to the shape of the building, reducing wastage to a minimum.
9. Ceramic tiles remain unaltered over time by atmospheric agents, are graffiti-proof, do not require maintenance and have an absorption factor of less than 0.02%, making them ideal for this type of use.
10. The ceramic ventilated façade is a light envelope solution, as it weighs less than 30 kg/m<sup>2</sup> (711.91 lb/ft<sup>2</sup>), only placing a small load on the existing building structure.
11. Efflorescence on the façade is prevented thanks to the open joint between the sections, and the low absorption of the ceramic tiles.



Méndel High School (Madrid - Spain)



Single-family building (Noja - Spain)



French building federation (Tours - France)



Single-family building (Mussonville - France)

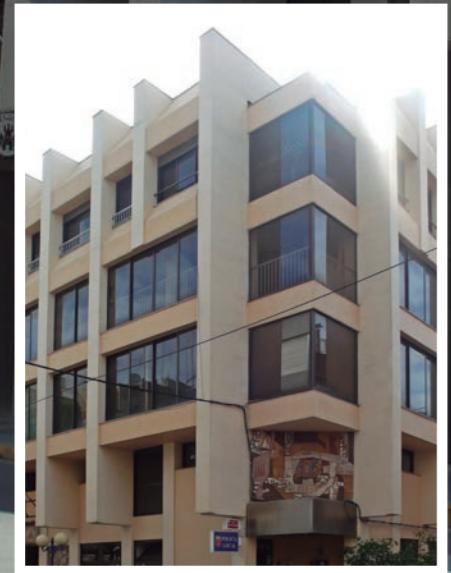




Cultural center (Torreblanca - Spain)



Claridge Hotel (Madrid - Spain)



City council of Torreblanca (Castellón - Spain)



Public building (Utiel - Spain)



**Single-family building (Santander - Spain)**



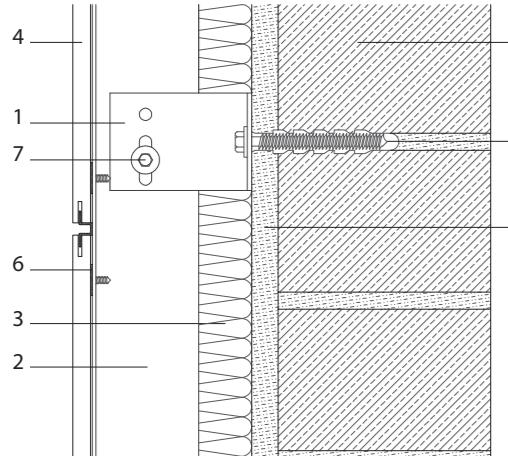
Single-family building (San Sebastián - Spain)

# Ventilated façade technical details



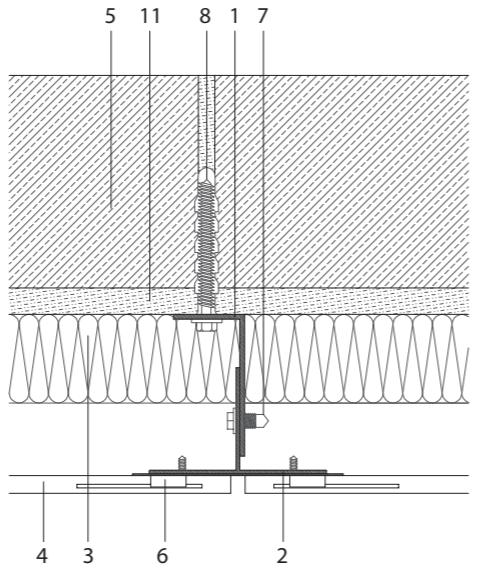
**Invisible fixing system**

Vertical section



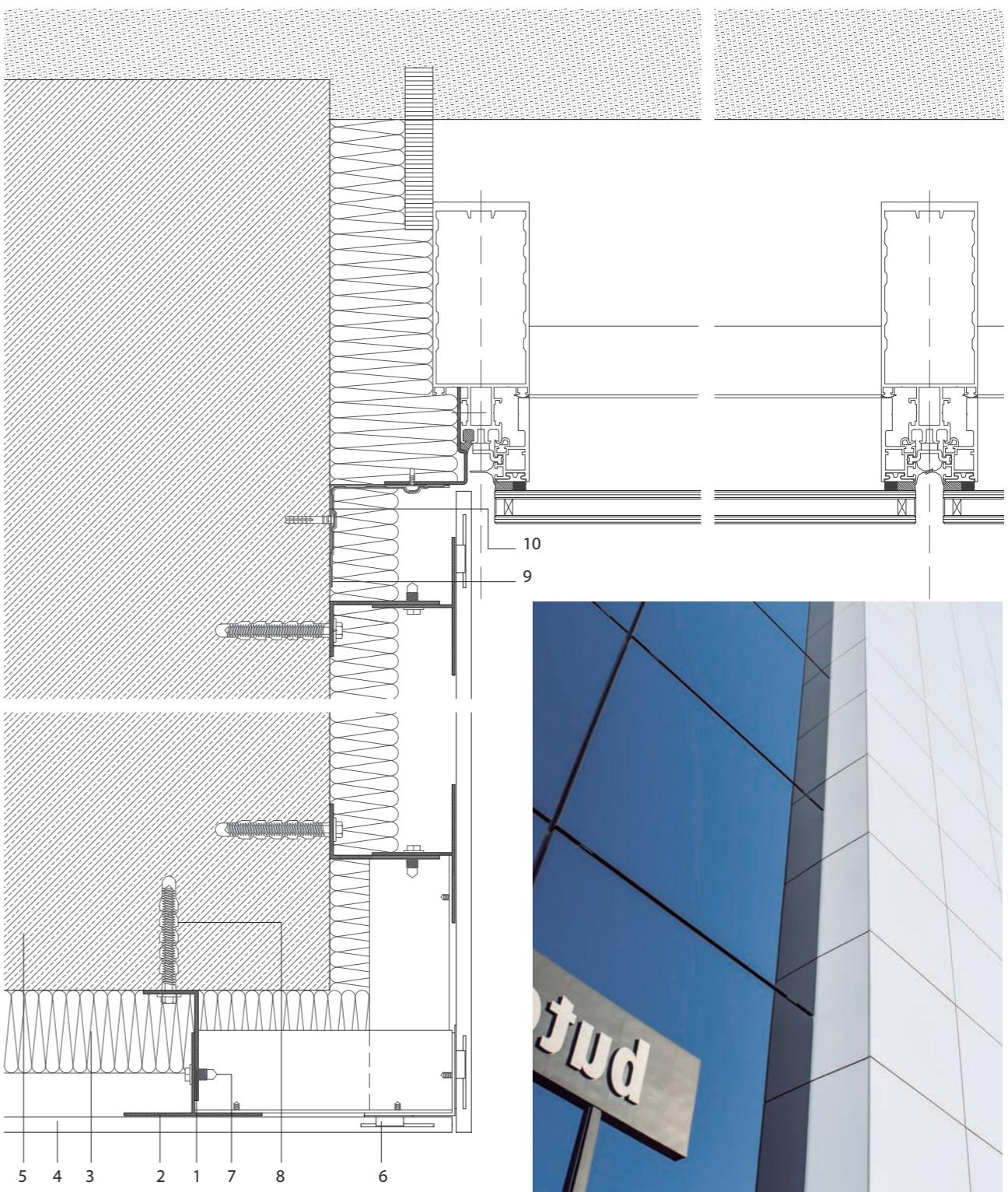
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. STON-KER ceramic tile.
5. Brick.
6. Stainless steel concealed fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
11. Water-repellent mortar.

Horizontal section

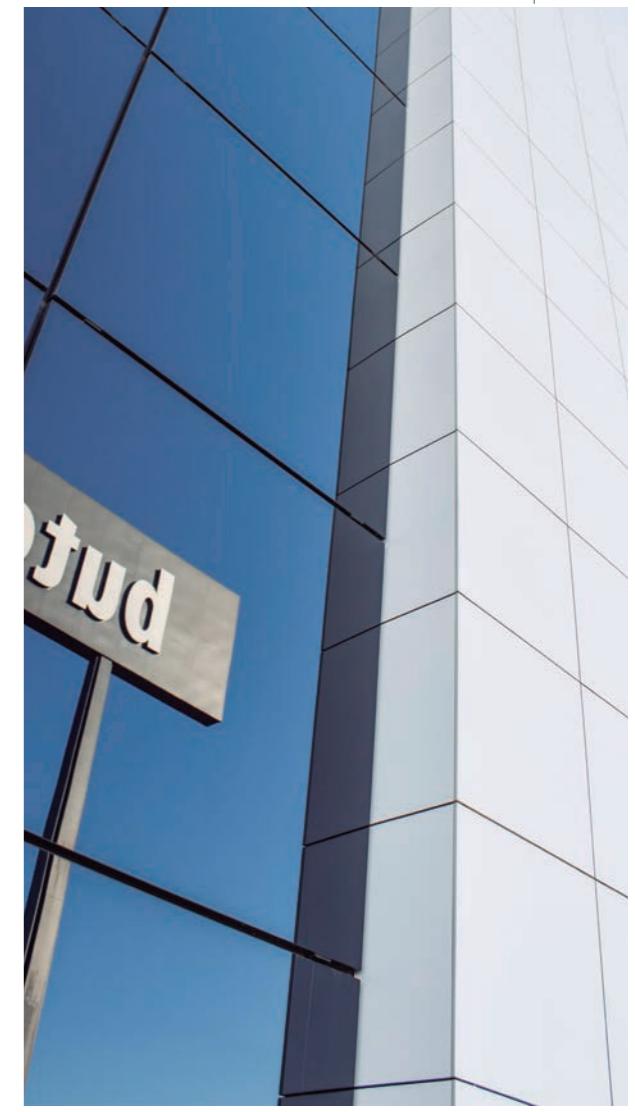


1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. STON-KER ceramic tile.
5. Brick.
6. Stainless steel concealed fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
11. Water-repellent mortar.

Corner section



1. Secondary aluminum bracket.
2. Vertical "T" aluminum profile.
3. Thermal insulation.
4. STON-KER ceramic tile.
5. Wall.
6. Stainless steel concealed fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
9. Waterproofing sheet.
10. Aluminum angle.



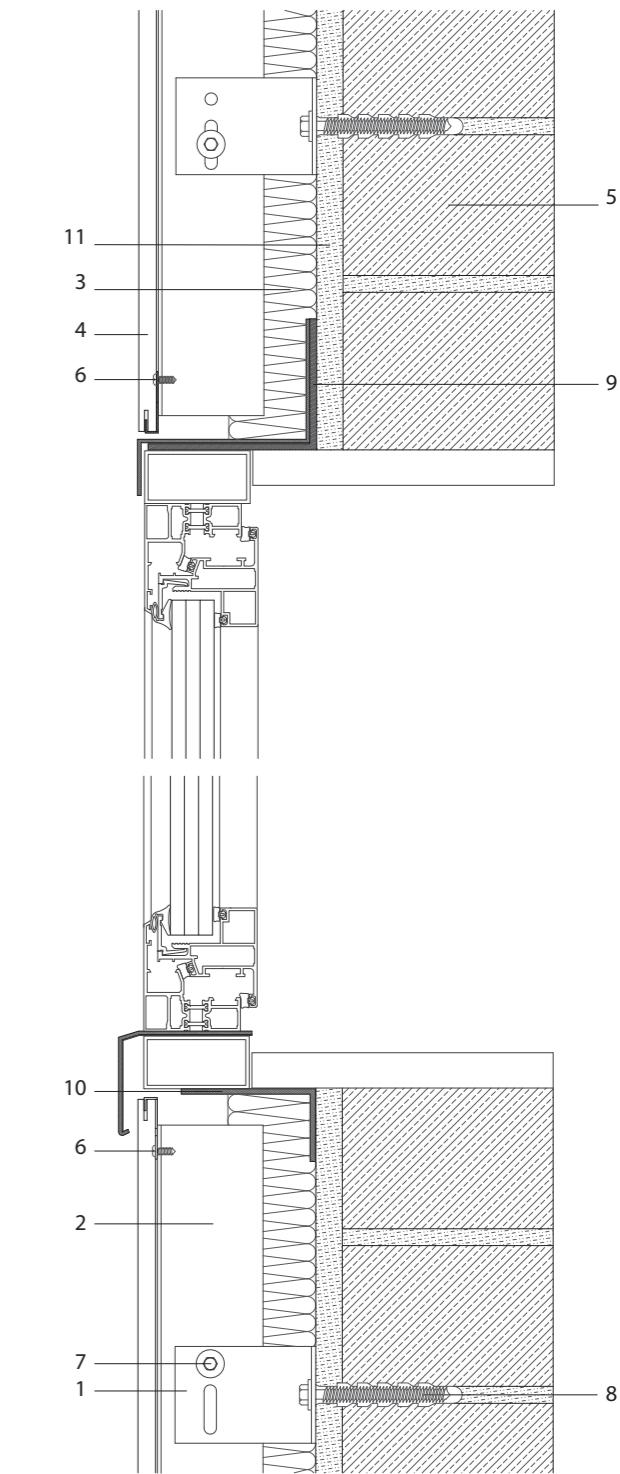
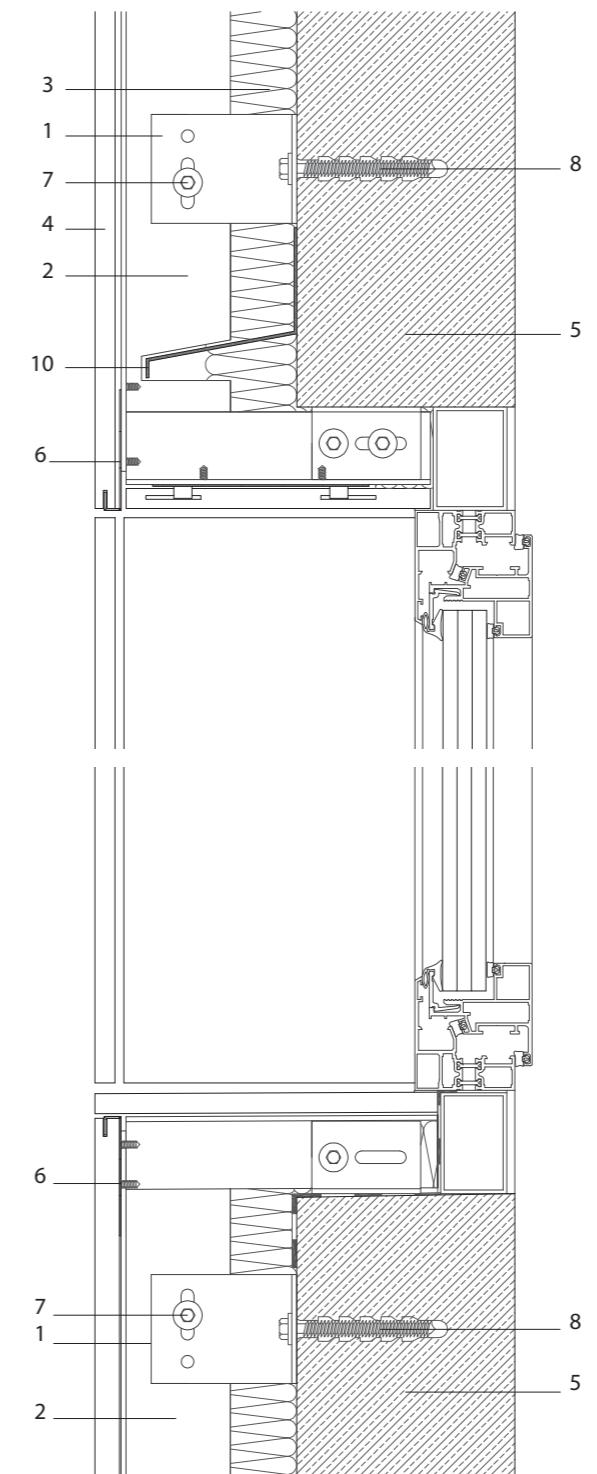


**Window with STON-KER frames**

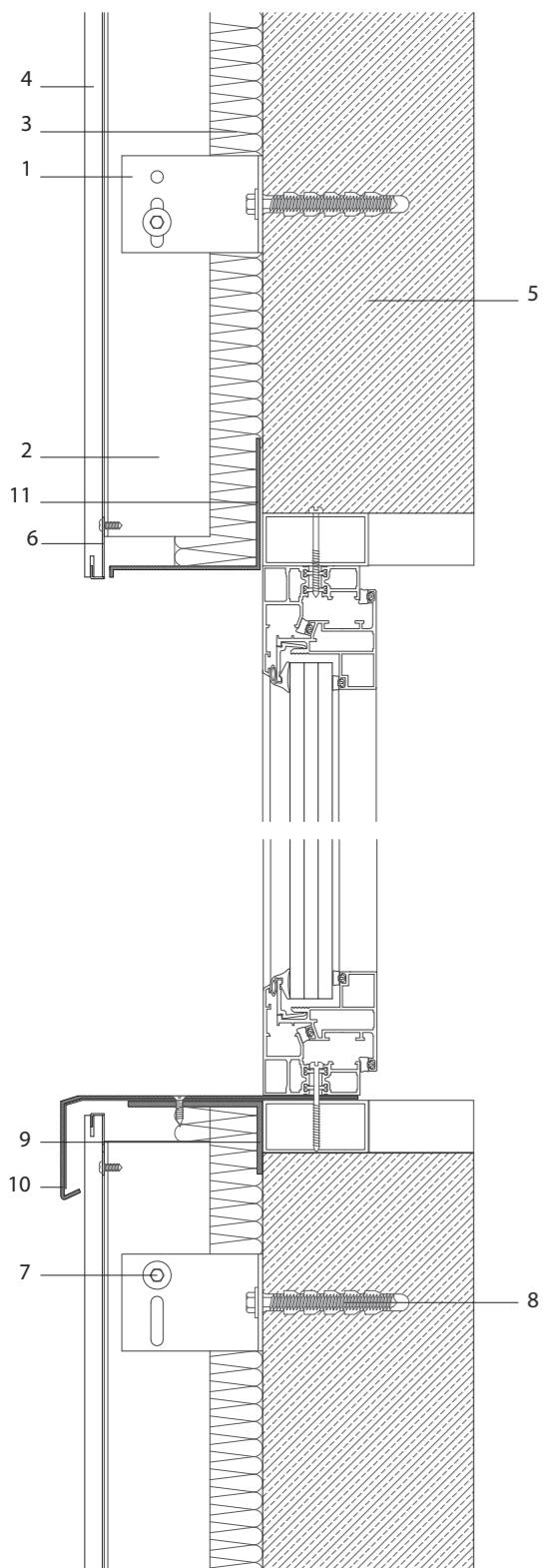
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. STON-KER ceramic tile.
5. Wall.
6. Stainless steel concealed fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
9. Waterproofing sheet.
10. Aluminum gutter.

**Window of external sides**

1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. STON-KER ceramic tile.
5. Brick.
6. Stainless steel concealed fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
9. Waterproofing sheet.
10. Aluminum angle.
11. Water-repellent mortar.



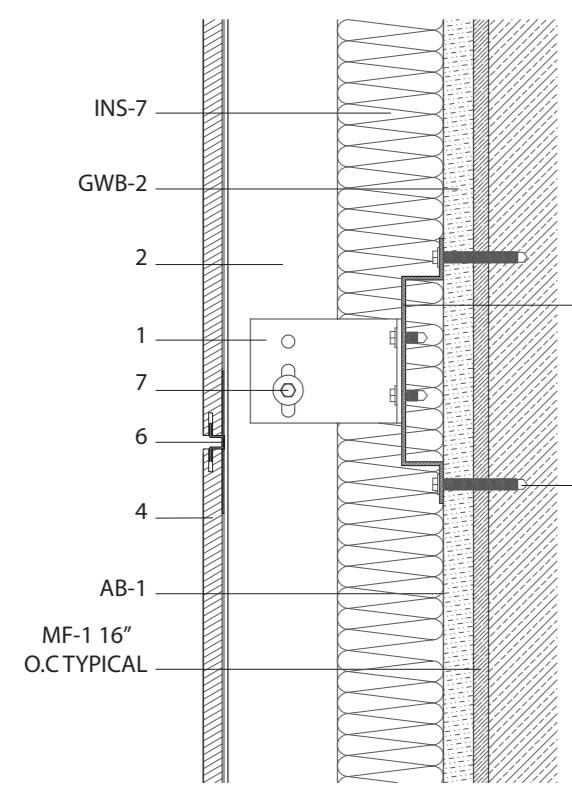
**Window of internal sides with aluminum frames**



1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. STON-KER ceramic tile.
5. Wall.
6. Stainless steel concealed fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
9. Waterproofing sheet.
10. Aluminum angle.
11. Aluminum head jamb.

### System for metal studs / met-sec.

Vertical section

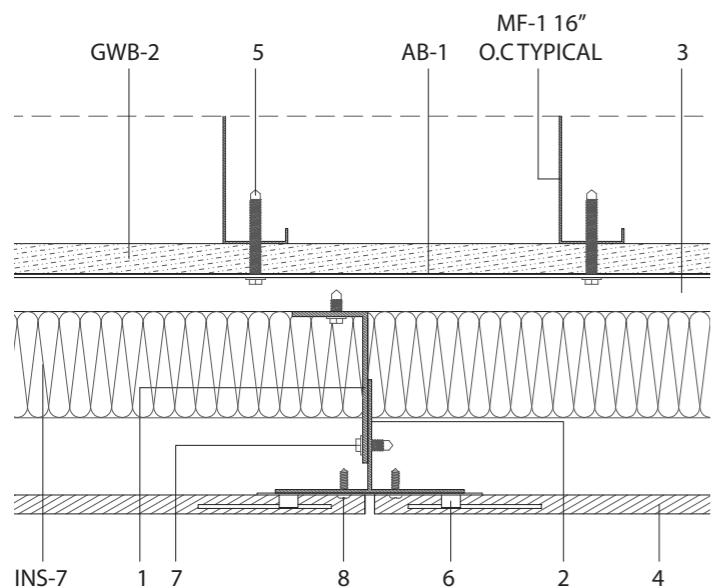


1. Secondary aluminum bracket.
  2. Aluminum vertical "T" profile.
  3. Omega profile.
  4. STON-KER ceramic tile.
  5. Stainless steel self-drilling screw.
  6. Concealed fixing clip.
  7. K5.5 x 22 screw A2 stainless steel.
- GWB-2. Exterior glass mat gypsum sheathing.  
AB-1. Fluid-applied membrane vapor-retarded air barrier.  
MF-1. Cold formed metal framing.  
INS-7. Black foam board insulation.

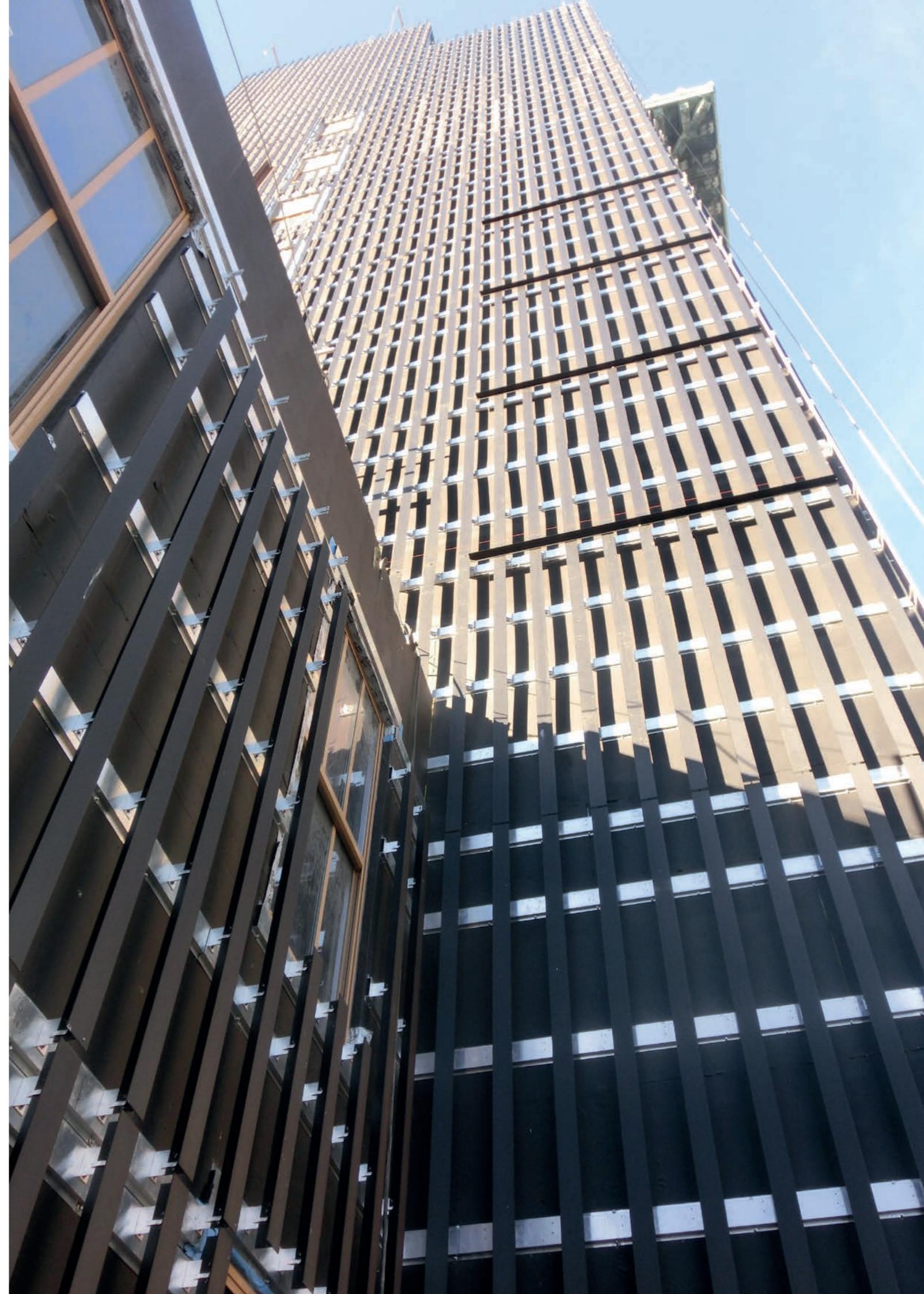


### System for metal studs / met-sec.

Horizontal section



1. Secondary aluminum bracket.
  2. Aluminum vertical "T" profile.
  3. Omega profile.
  4. STON-KER ceramic tile.
  5. Stainless steel self-drilling screw.
  6. Concealed fixing clip.
  7. K5.5 x 22 screw A2 stainless steel.
  8. 4.2 x 12 screw A2 stainless steel.
- GWB-2. Exterior glass mat gypsum sheathing.  
AB-1. Fluid-applied membrane vapor-retarded air barrier.  
MF-1. Cold formed metal framing.  
INS-7. Black foam board insulation.





Sports center (Ciudad Real - Spain) - Arch. Javier Ramírez de Arellano Rayo



**Sports center (Ciudad Real - Spain)** - Arch. Javier Ramírez de Arellano Rayo

# Ventilated Facades 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.

This material's technical features make XLight the perfect ally for achieving fully integrated designs, allowing for the creation of facades of great beauty, thanks to the collaboration of several companies from PORCELANOSA Group.

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/m<sup>2</sup> as well as its design, make the XLIGHT slabs an excellent solution for all types of facades.

## Features:

Thickness	ISO 10545-2	3.5 ± 5% mm
Surface flatness	ISO 10545-2	0.1 %
Water absorption	ISO 10545-3	< 0.1 %
Flexural strength	ISO 10545-5	> 120 N/mm <sup>2</sup>

## Metal substructure.

Load-bearing substructure of the ventilated facade, as per DIT 530/11. It is made up of the following elements:

**Aluminum separators** for transmitting loads from the substructure to the supporting wall through anchors. Available from 60 mm to 160 mm in length. Depending on the type of stress they bear, there are two types of anchors: primary and secondary.

**Vertical substructure of aluminum sections** for installing XLIGHT slabs. Available in T-shaped sections (100 mm width) or L-shaped sections (40 mm width).

## Features:

Tensile strength (Rm)	≥ 270 N/mm <sup>2</sup>
Yield strength (Rp 0.2)	≥ 225 N/mm <sup>2</sup>
Elongation (A)	≥ 8 %
Brinell Hardness	90

The substructure's anchoring system depends on the type of substrate used in the project. The site management and the installing company shall be in charge of this.

## Anchoring system

### Mechanical anchors.

Clips for mechanical anchoring, as per DIT 530/11 design 11. Manufactured in AISI 304 stainless steel and 1 mm (± 0.15) general thickness, they can be supplied lacquered in the RAL color that the customer needs.

There is a wide range of different clips available, which adapt to all facade anchoring needs.

### p-404

Polyurethane adhesive. It polymerizes in contact with environmental moisture, forming an extraordinarily elastic and adhesive elastomer.

Specially recommended for bonding ceramic on metal sections. Indoor and outdoor use

### Features:

- Type B-1 as per UNE 53622
- High adherence and elasticity.
- Resistant to UV-rays and frost.

### Features:

Tensile strength (Rm)	510 - 750 N/mm <sup>2</sup>
Yield strength (Rp 0.2)	≥ 230 N/mm <sup>2</sup>
Elongation (A)	< 45%
Brinell Hardness	183

## XLIGHT Tools

Handling, cutting, and installation of XLIGHT ceramic requires special tools. These tools are designed for pieces with a format of up to 3,000 x 1,000 mm and thickness of little more than 3 mm. The essential tools for installing XLIGHT ceramic are the following:

### XLIGHT Frame / carrier.

Aluminum structure of up to 300 cm long, equipped with suction cups for moving large-format pieces.

### Cutting guide plus XLIGHT pincers.

Tool for cutting XLIGHT ceramic straight, plus pincers for separating marked pieces. It includes diamond point.

### Notched trowel and XLIGHT rubber trowel.

Notched trowel with 10 mm sloped serrations which facilitates uniform spreading of the adhesive, plus rubber trowel for pressing XLIGHT ceramic on adhesive.

In addition to using the appropriate tool, the following handling instructions are recommended:

- Use protective gloves.
- Handle the slabs in groups of at least two people.
- Avoid rough movements.
- Avoid bending the slabs by the middle.
- Protect corners with plastic corner protectors.
- Transport slabs perpendicular to the ground.
- Do not stand slabs directly on the floor.
- Place the long side over soft material strips (wood or styrofoam) and stand the short side of the slab on a firm support.
- Before stacking the slabs, clean off any element that may scratch the surface.



### Self-leveling spacers.

Spacers are essential when installing quality ceramic; they make work easier and ensure uniform width joints.

There are self-leveling spacers currently available that facilitate the leveling of the wall covering and avoid ledges between tiles. A special tab has been designed for installing XLIGHT slabs that protects and facilitates the assembly, even with 3.5 mm thick slabs.

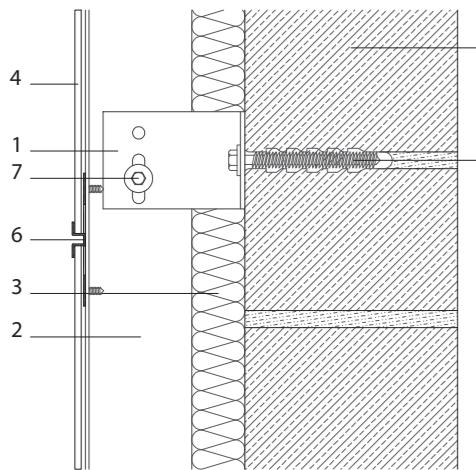




# Ventilated façade & XLIGHT technical details

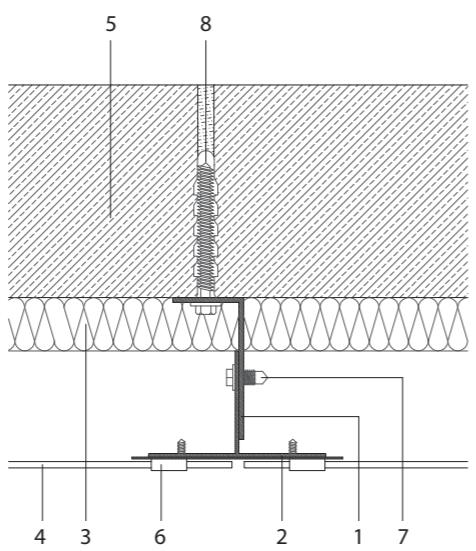
## Visible fixing system

Vertical section



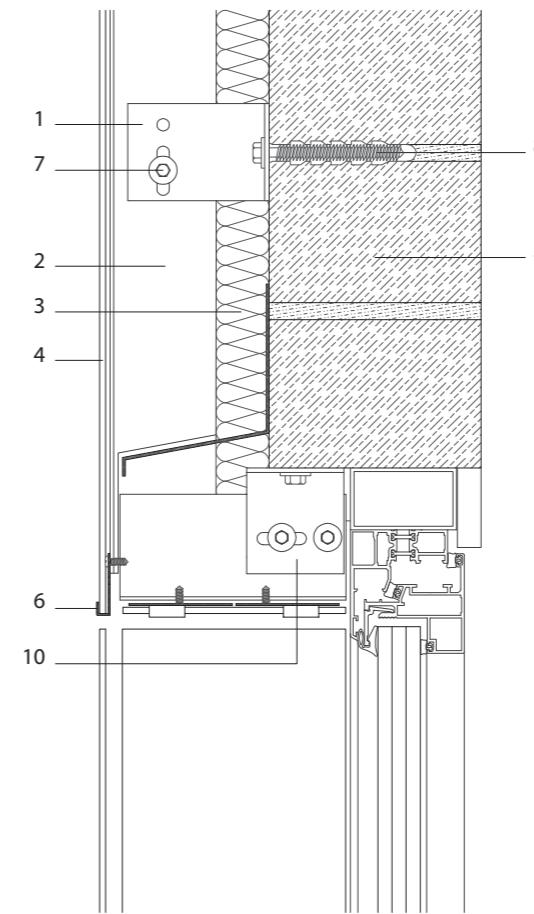
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. XLight ceramic tile.
5. Brick.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.

Horizontal section



1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. XLight ceramic tile.
5. Brick.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.

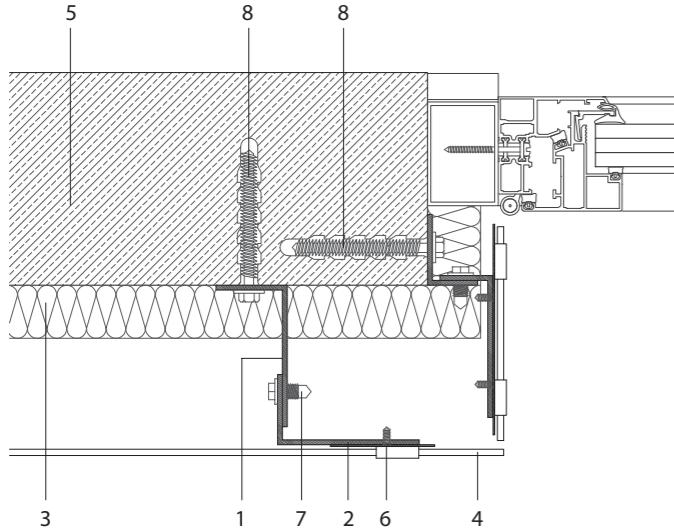
## Window with XLight frames



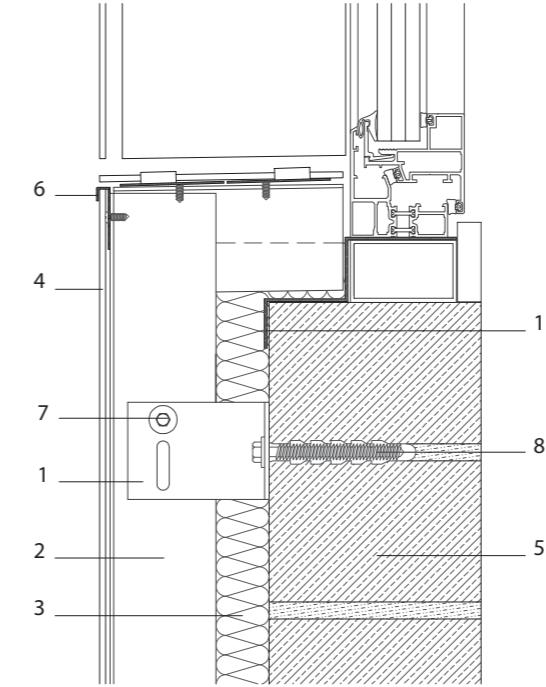
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. XLight ceramic tile.
5. Wall.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
10. Secondary aluminum bracket.
11. Waterproofing sheet.



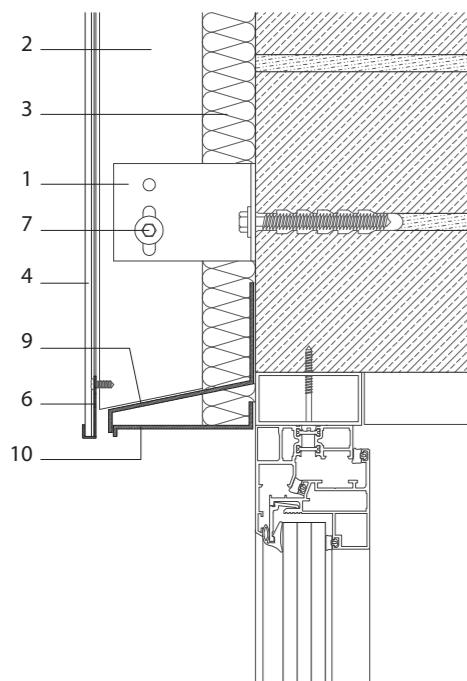
## Window of internal sides with XLight frames



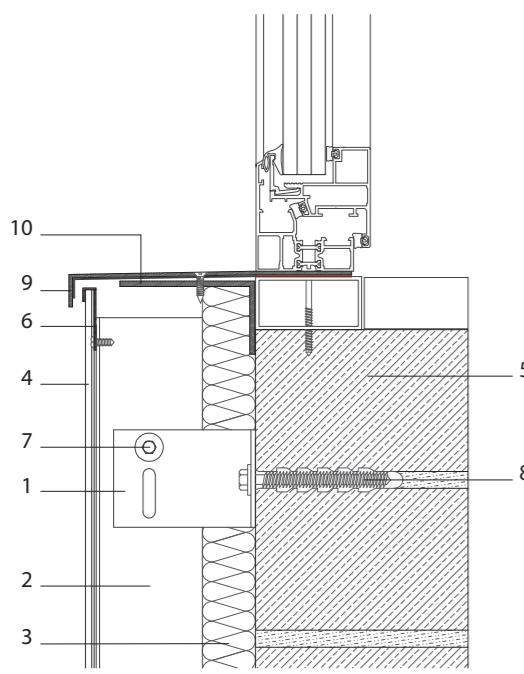
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. XLight ceramic tile.
5. Wall.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.



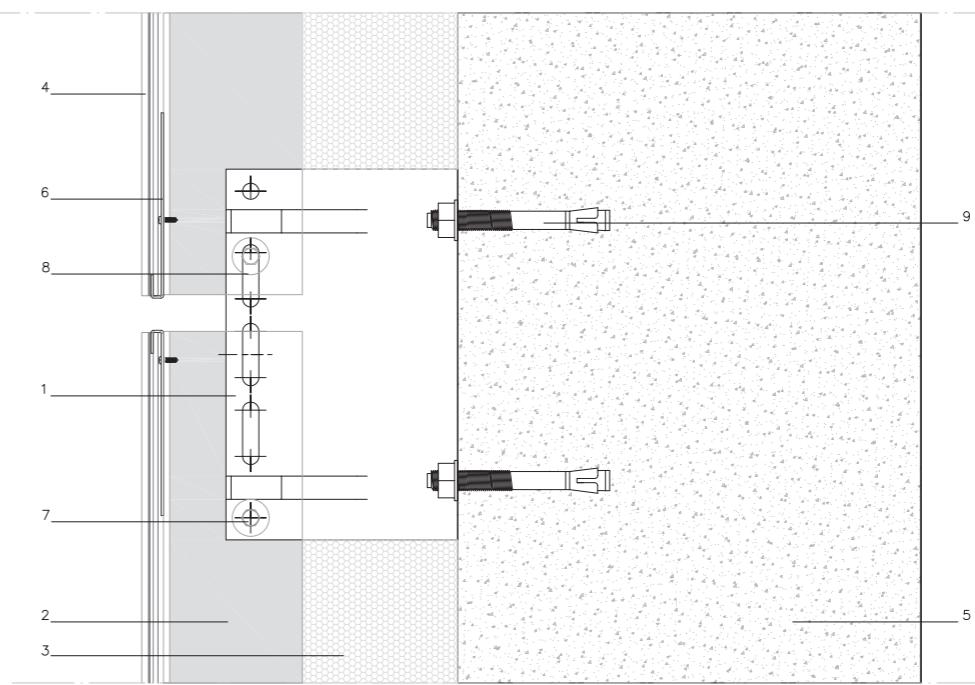
### Window of internal sides with aluminum frames



1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. XLight ceramic tile.
5. Wall.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
9. Aluminum angle.
10. Aluminum coating.



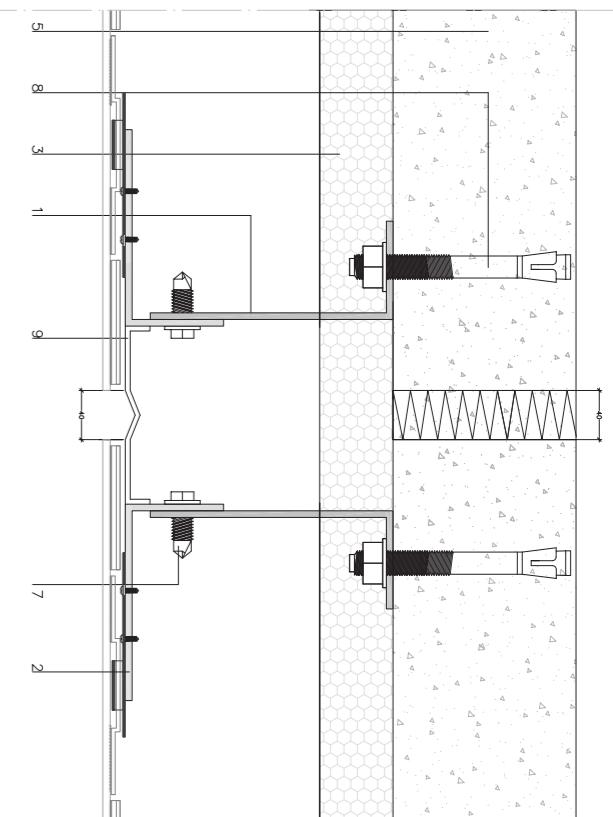
### Vertical cross-section. Omega XLight system



1. "L" Cross-section spacer.
2. "T" Cross-section vertical profile.
3. Thermal insulation.
4. Xlight ceramic tile.
5. Bracket.
6. Concealed starting/finishing anchoring clip.
7. Fixed support, SN5 self-tapping screw.
8. Movable support, SN5 self-tapping screw.
9. Mechanical anchoring.

### Horizontal cross-section. Structural joint. Omega XLight system

1. "L" Cross-section spacer.
2. "L" Vertical profile.
3. Thermal insulation.
4. Xlight stoneware.
5. Bracket.
6. 5 mm Concealed side anchoring clip.
7. SN5 self-tapping screw.
8. Mechanical anchoring.
9. Aluminum flashing.



# 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.

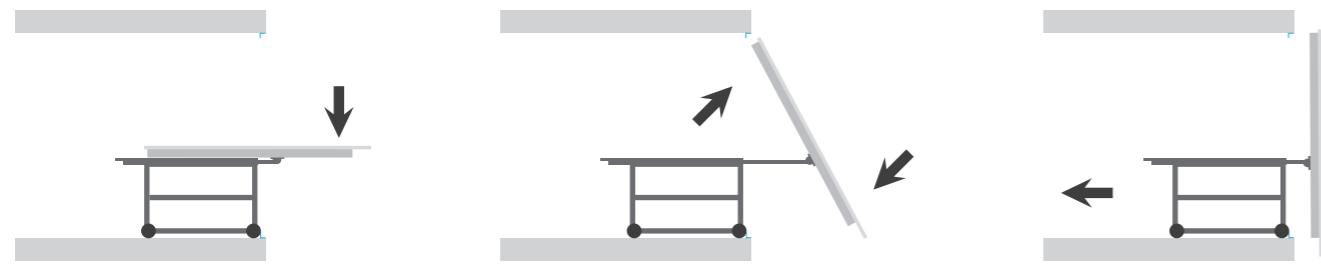
It is supported by a tubular steel structure that anchors the panel to the building structure.

## 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 m<sup>2</sup>/man hr, per installation equipment.

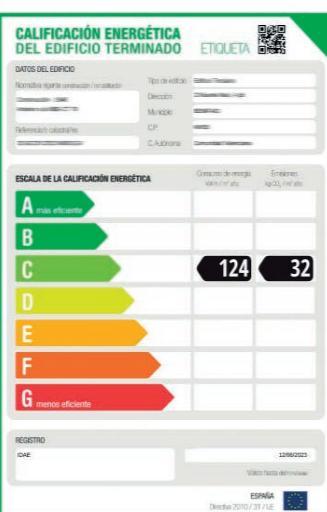


### Auxiliary means are not needed and waste is not produced.

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.



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

**Flammability.**

**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	36.0 Rw dB RA 34.7 dB RAt 30.9 dB
Thermal insulation	Rt 4.428 m2k/W U 0.226 W/m2k

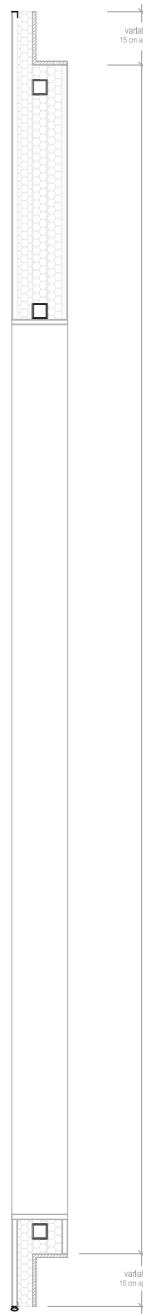






# Technical details modular system & XLIGHT

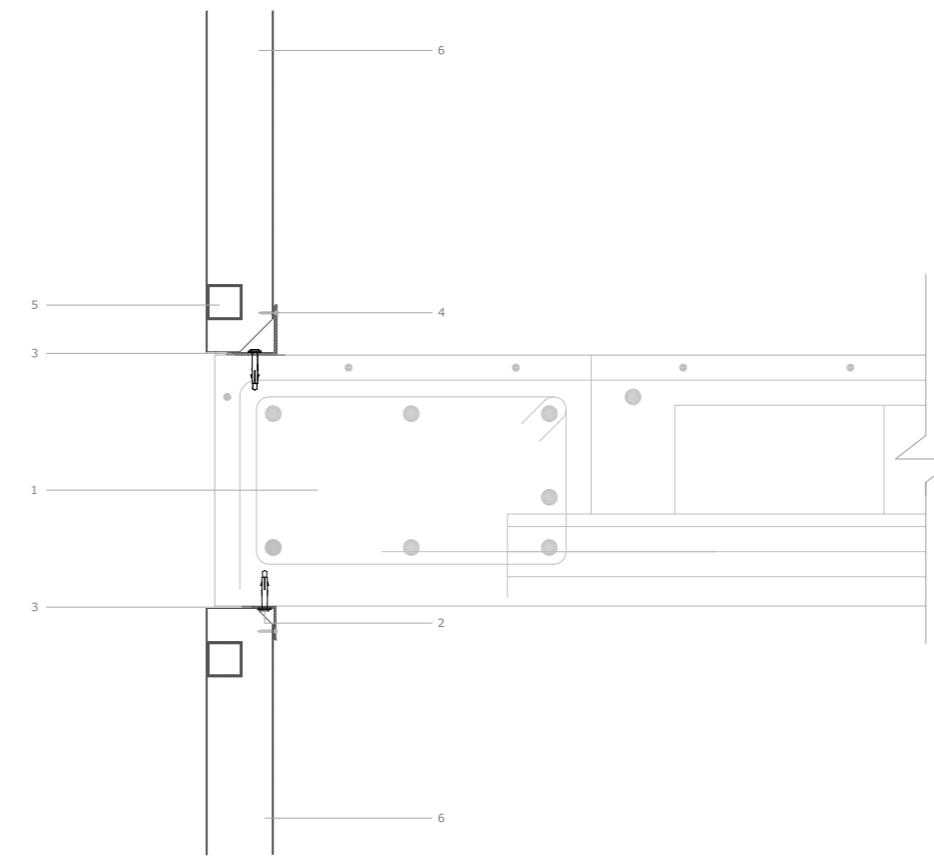
**Modular system. Gap vertical cross-section**



**Modular system. Panel vertical cross-section**



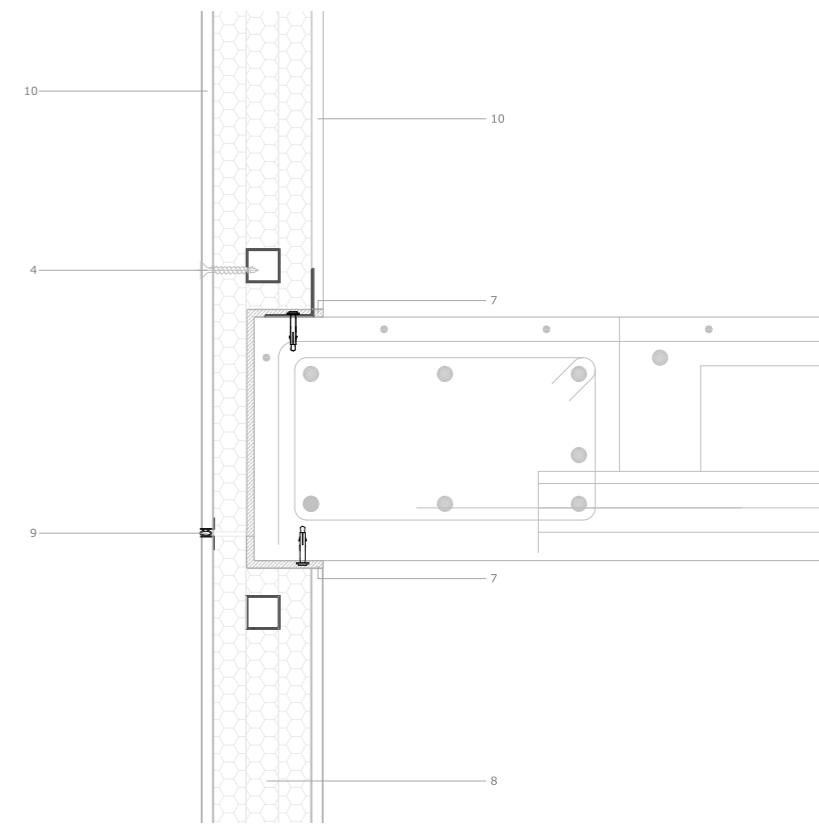
**Modular system. Structure vertical cross-section**



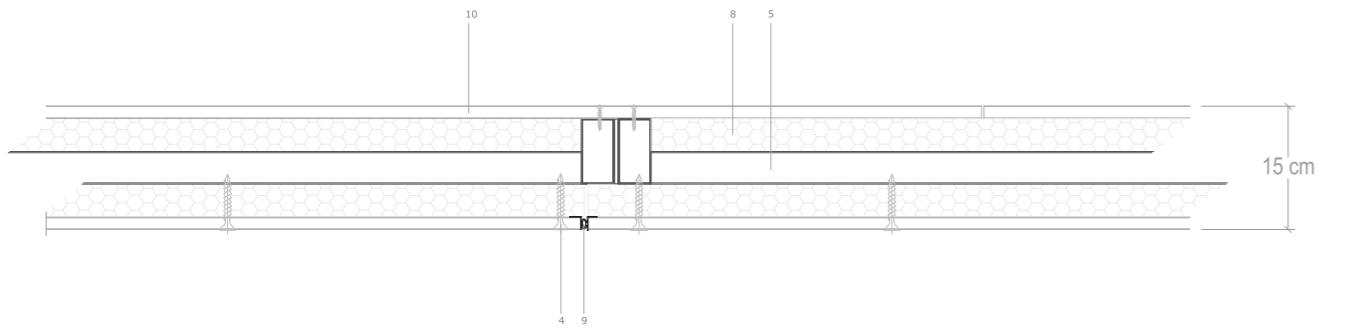
1. Slab
2. Mechanical anchoring to slab
3. 60.60.2 Plate angle
4. Self-tapping screw
5. 40.40.2 Steel tube
6. 80.40.2 Steel tube
7. Adjustment to slab foam
8. Expanded polystyrene EPS
9. EPDM Joint
10. Securock panel

**Modular system. Panel vertical cross-section**

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

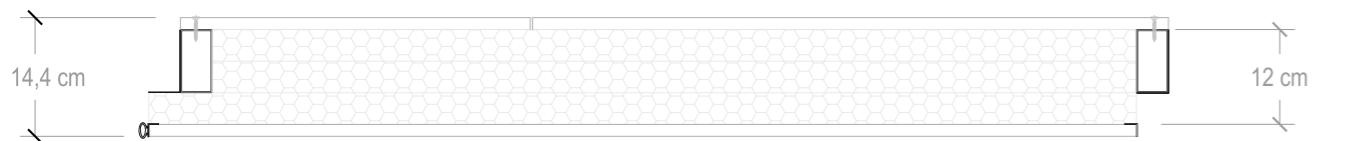


#### Modular system. Horizontal cross-section. Joint between panels

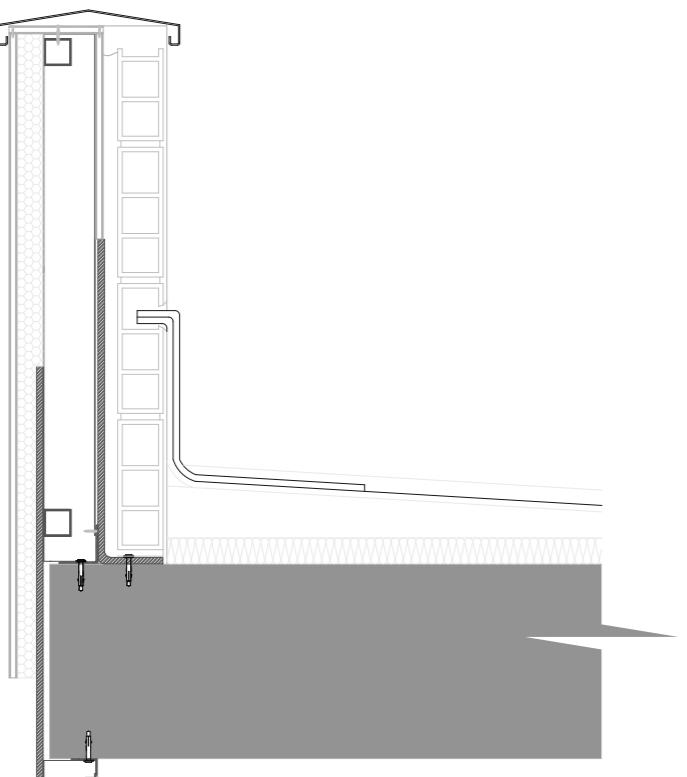


1. Slab
2. Mechanical anchoring to slab
3. 60.60.2 Plate angle
4. Self-tapping screw
5. 40.40.2 Steel tube
6. 80.40.2 Steel tube
7. Adjustment to slab foam
8. Expanded polystyrene EPS
9. EPDM Joint
10. Securock panel

#### Modular system. Horizontal cross-section. Panel



#### Modular system. Crown trim



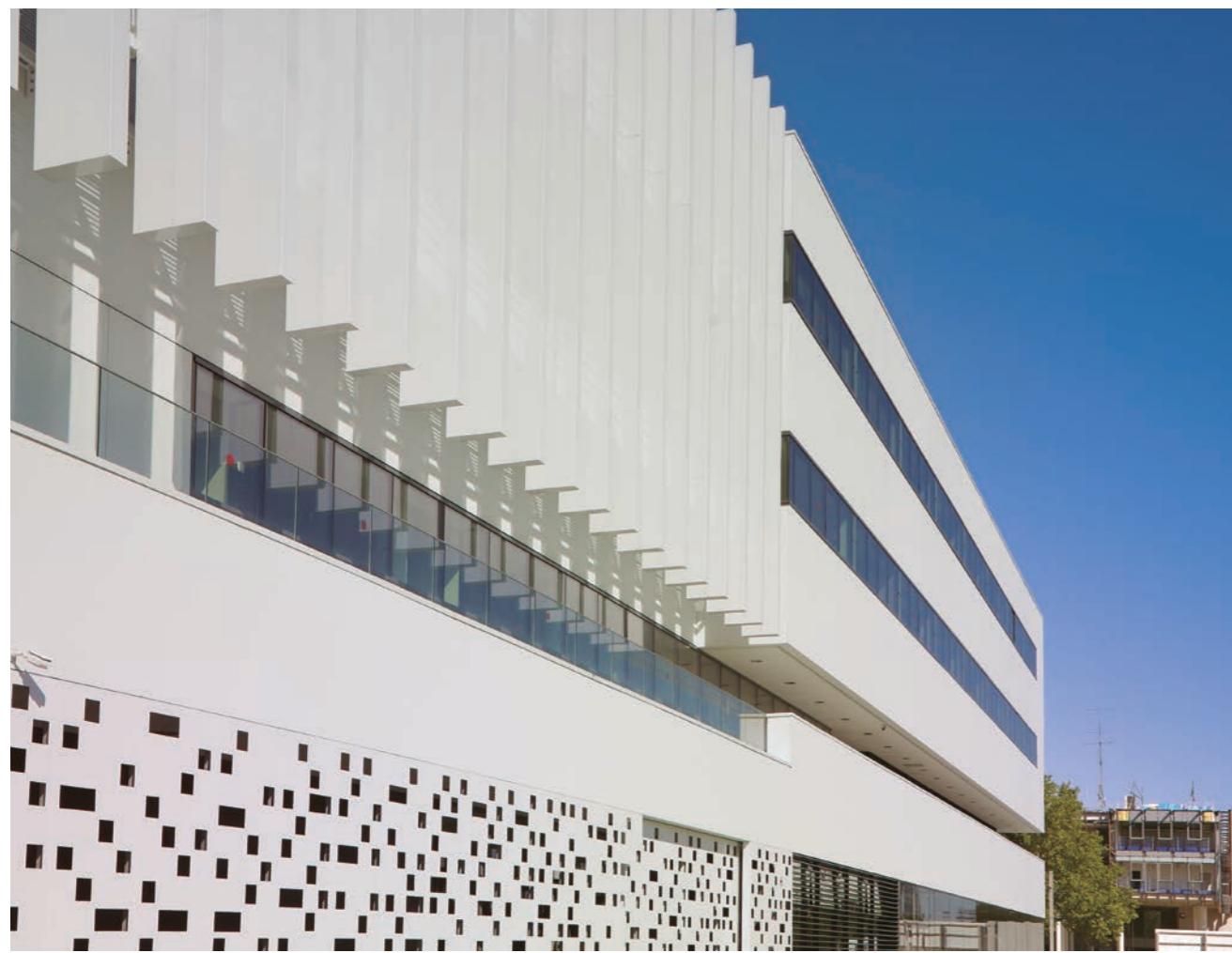


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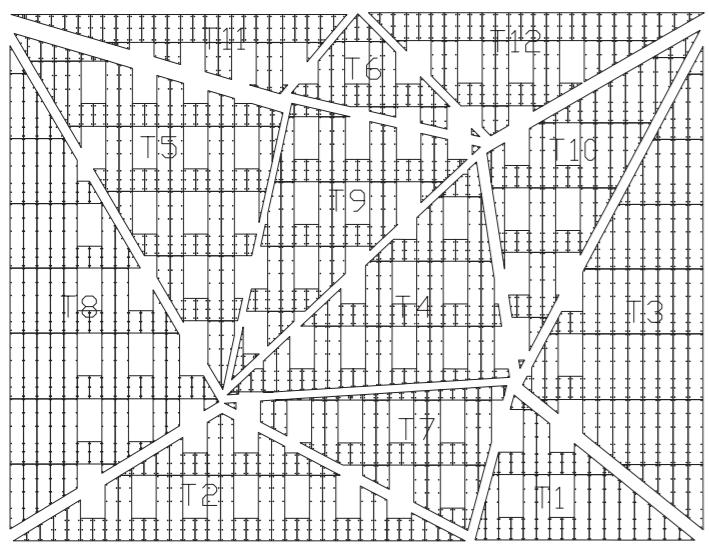
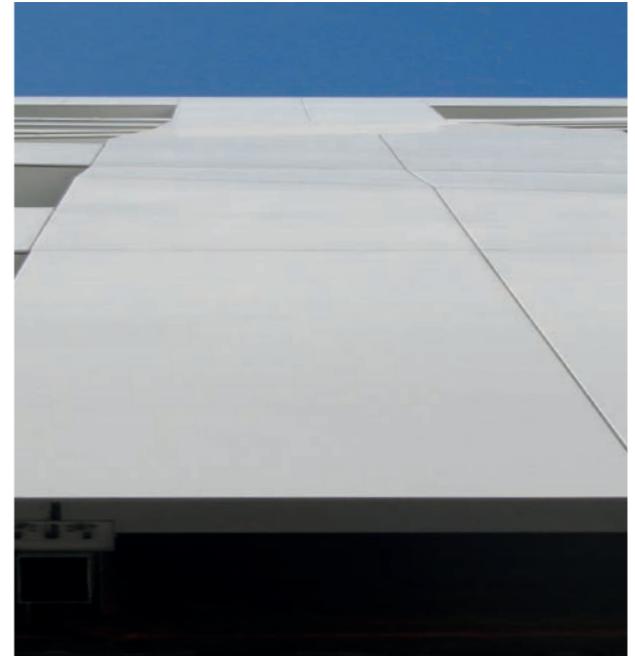
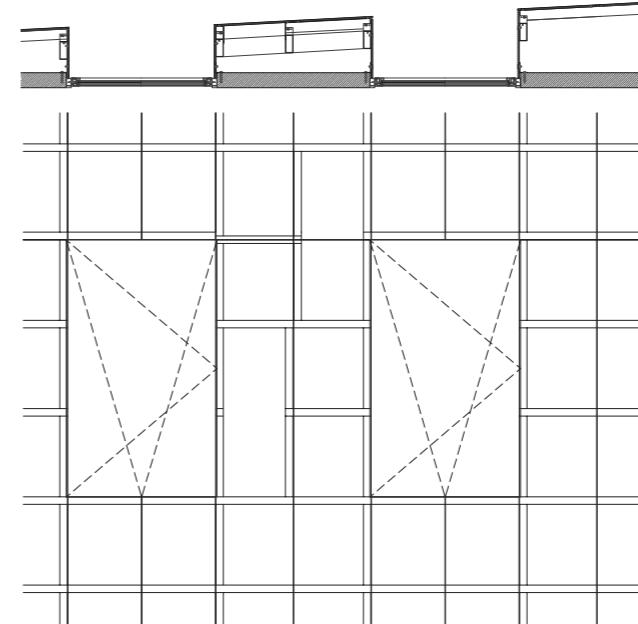
**Ventilated façade & KRION®**



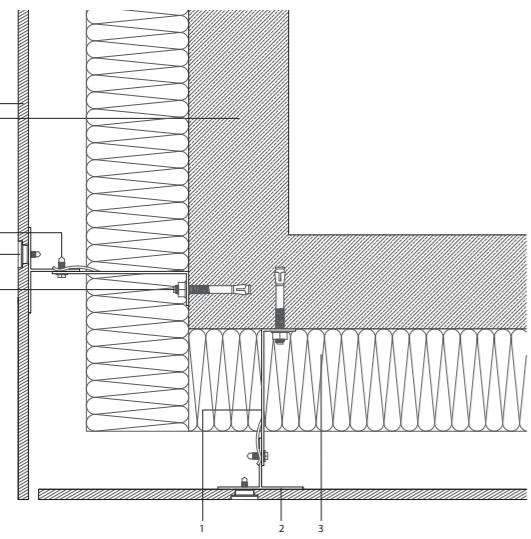
**Institut d'Optique d'Aquitaine (Talence - France)** - Arch. Agence Ragueneau & Roux, Architecte Associé Jean-Marie Mazière



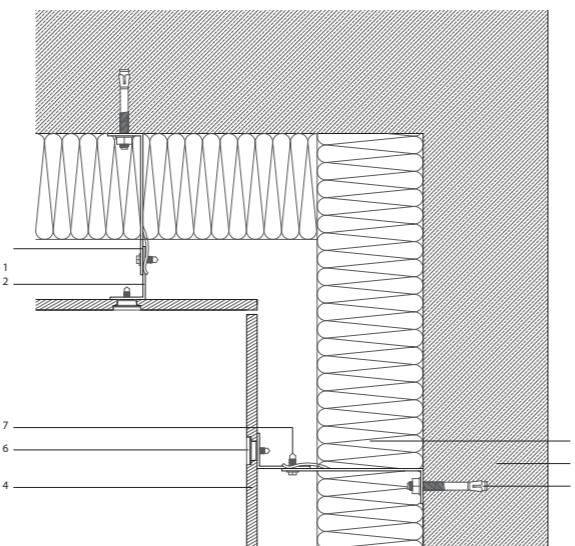
**Institut d'Optique d'Aquitaine (Talence - France)** - Arch. Agence Ragueneau & Roux, Architecte Associé Jean-Marie Mazière



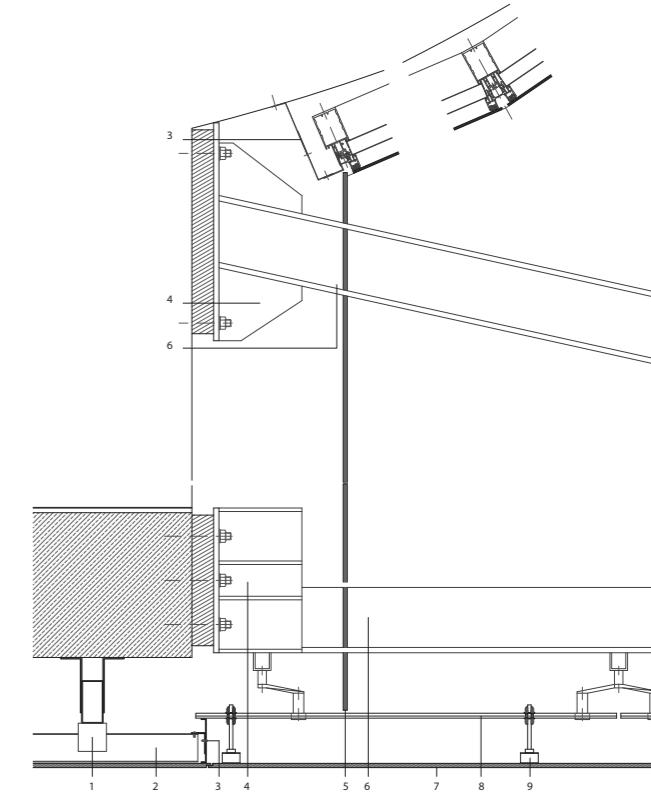
Tour Raffinity (Casablanca - Marocco) - Arch. Hembert Peñaranda

**Corner**

1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SN5 self-drilling screw.
8. Mechanical anchor.

**Internal angle**

1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SN5 self-drilling screw.
8. Mechanical anchor.

**Convergence between facade and curtain wall.**

1. "U" section bracket.
2. Horizontal profile.
3. Aluminium flashing.
4. Anchor plate.
5. KRION plate.
6. Cantilevered beam for glass fixing.
7. KRION.
8. Glass.
9. Connector between glass and KRION



Showroom Bershka (Istanbul - Turkey) - Arch. Castelveciana arquitectos



Showroom Bershka (Madrid - Spain) - Arch. Castelveciana arquitectos



French Embassy (Bangkok - Thailand)



French Embassy (Bangkok - Thailand)



Photography: Rafael Navarro

3M Offices (Madrid - Spain)



Photography: Rafael Navarro

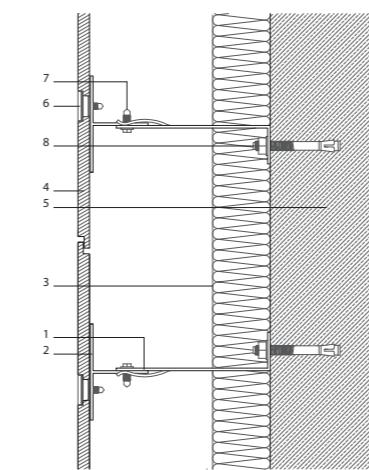


Photography: Rafael Navarro



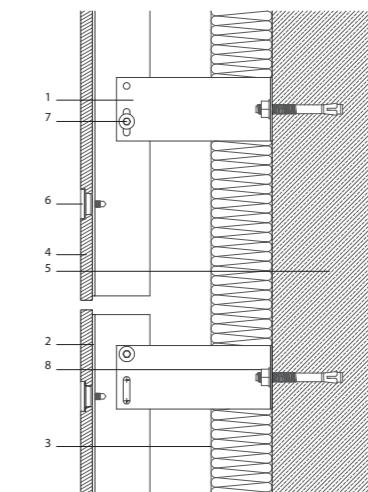
Photography: Rafael Navarro

**Horizontal section.**



1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SN5 self-drilling screw.
8. Mechanical anchor.

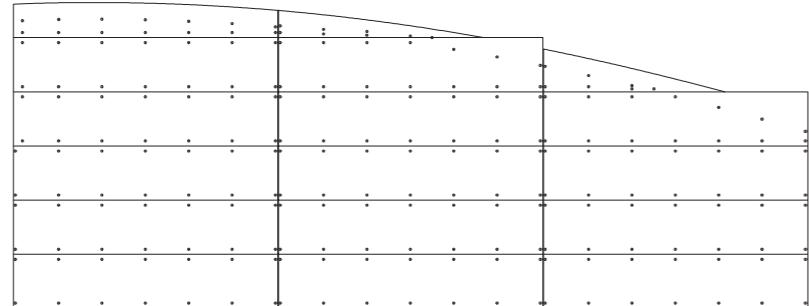
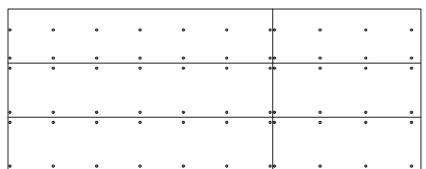
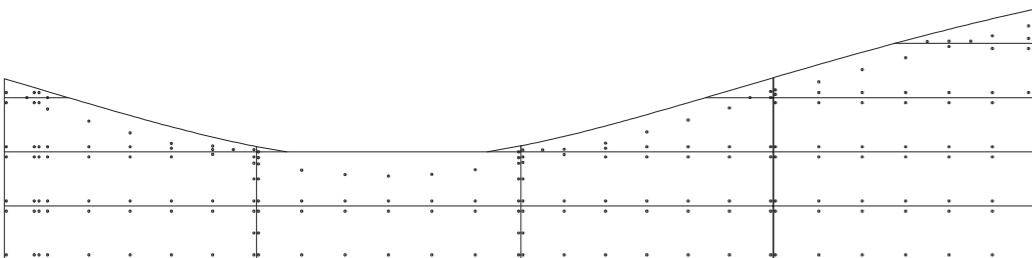
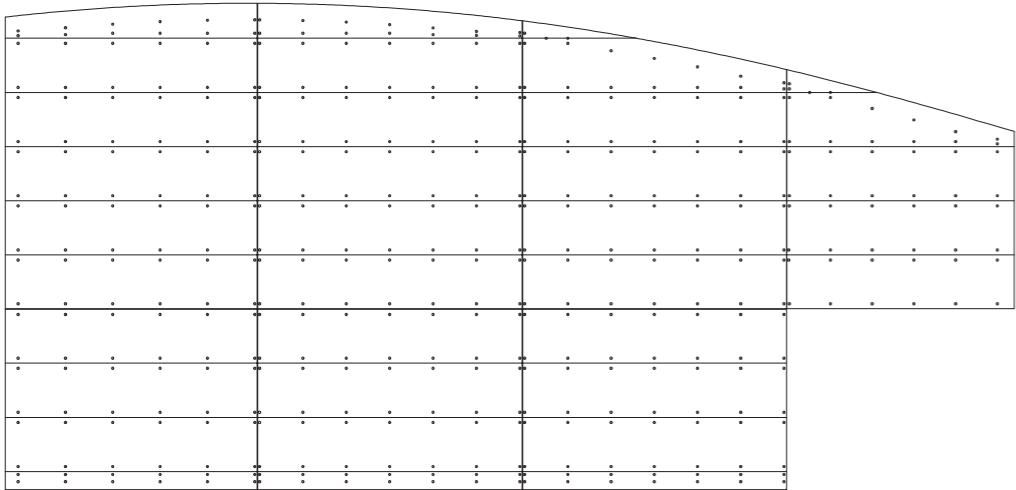
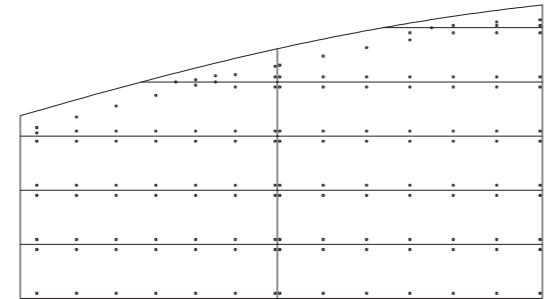
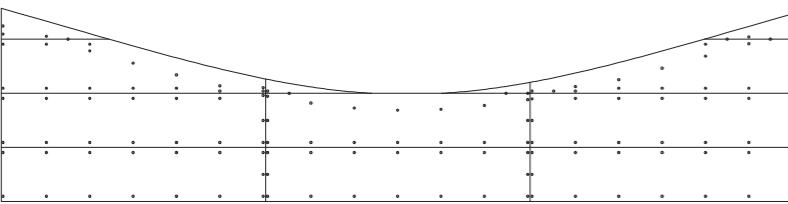
**Vertical section.**



1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SN5 self-drilling screw.
8. Mechanical anchor.

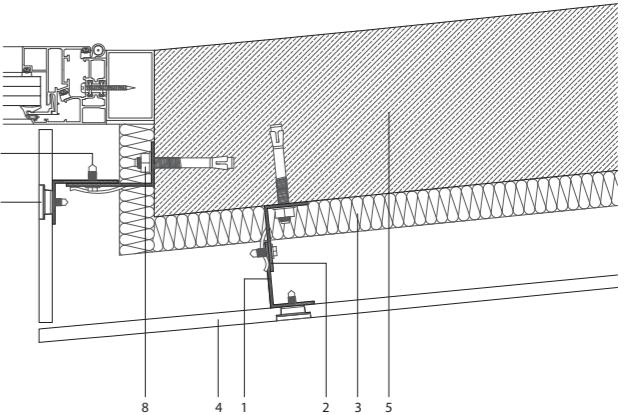
**3M Offices (Madrid - Spain)**

## Layout



## Window returns

1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SN5 self-drilling screw.
8. Mechanical anchor.



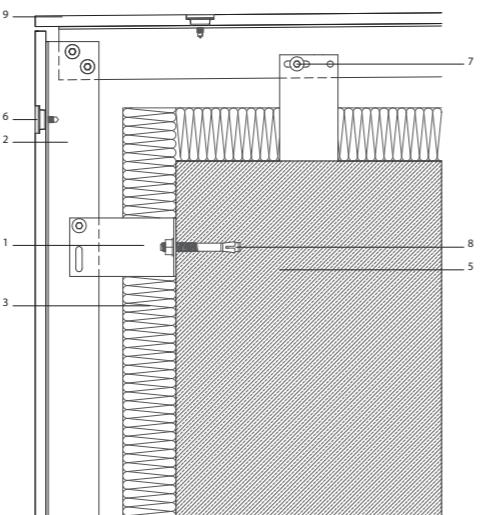
Balint house (Valencia, Spain) - Arch. Fran Silvestre



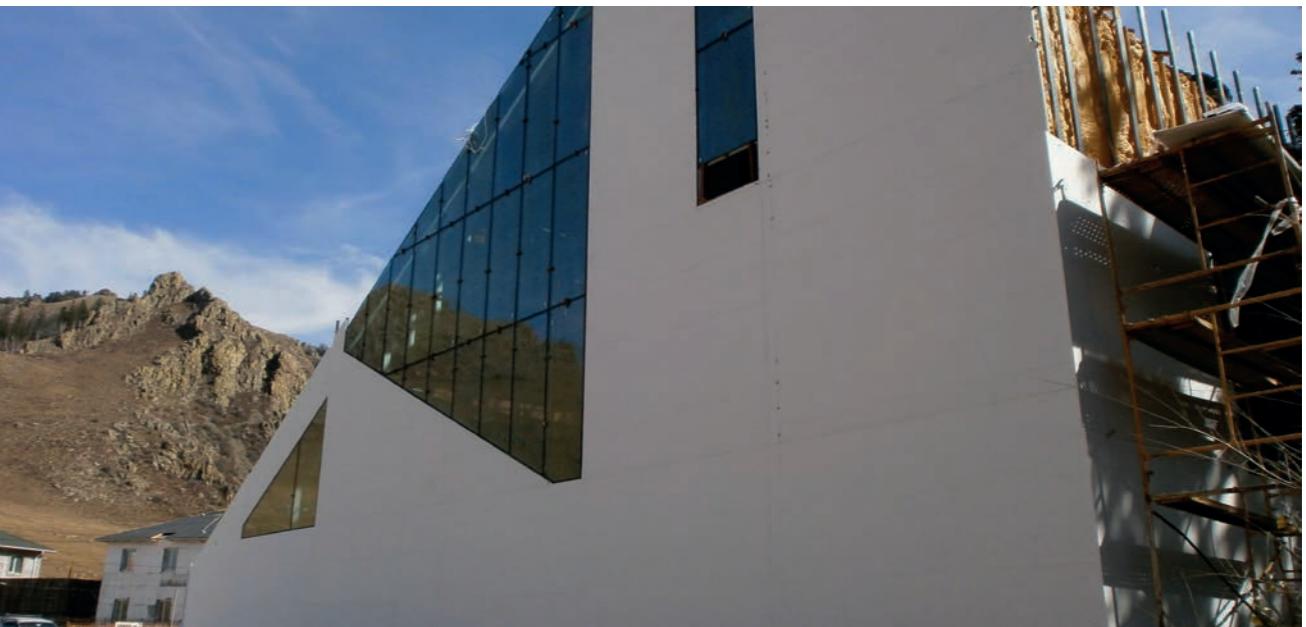
Private house (Valencia, Spain) - Arch. Fran Silvestre



Coping



1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SNS5 self-drilling screw.
8. Mechanical anchor.



Tour Soyombo (Ulan-Bator - Mongolia)

Private house (Ulan-Bator - Mongolia)



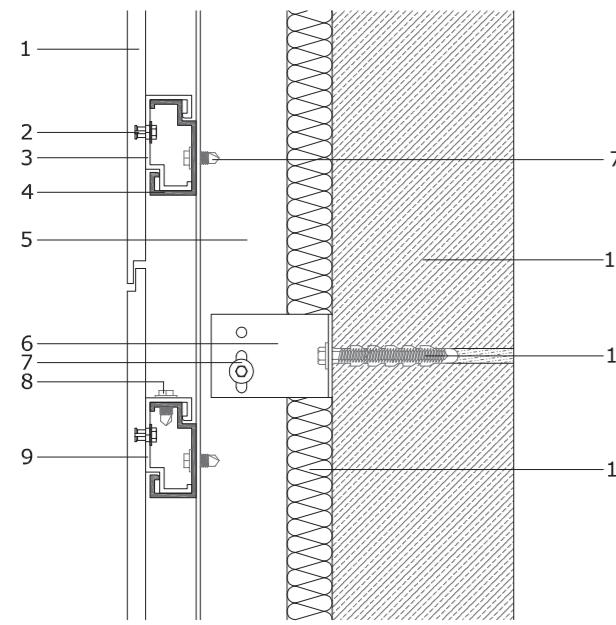
Pharmacy (Castellón - Spain)



Pharmacy (Castellón - Spain)

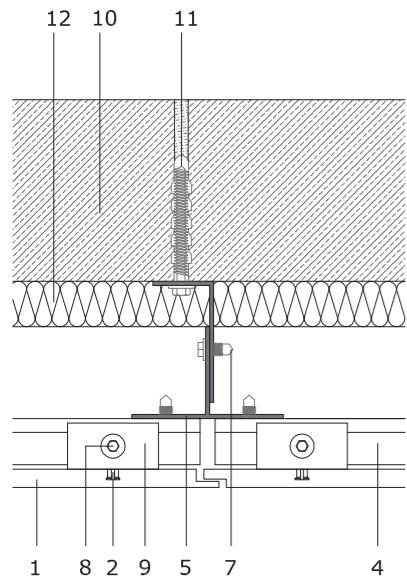
### Concealed anchoring. K-BOLT system.

Vertical cross-section

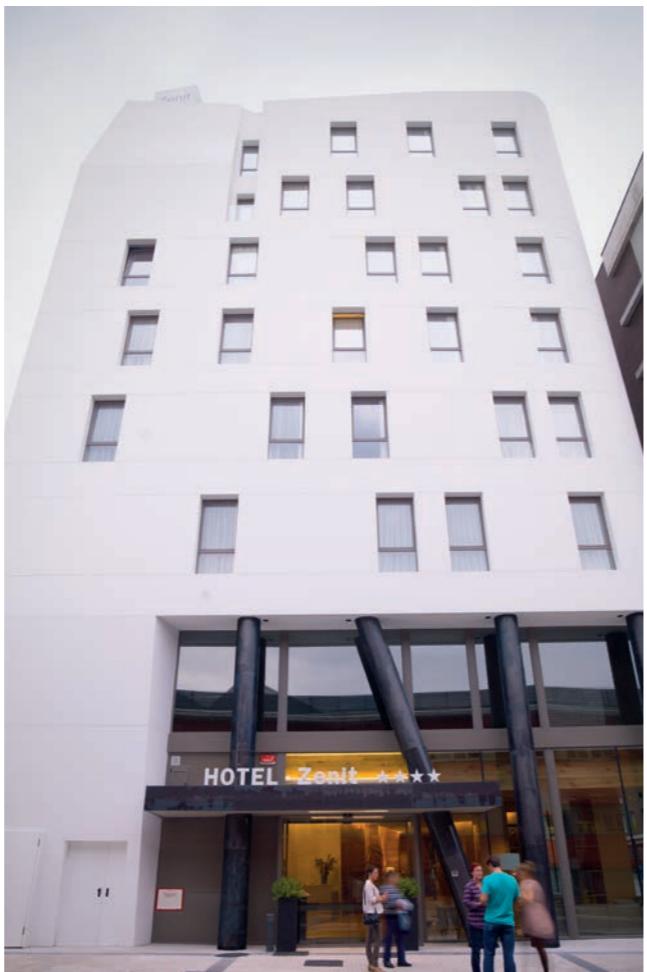


1. 12 mm KRION slab.
2. "K-BOLT" type insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum spacer.
7. Stainless steel self-drilling screw.
8. Adjustable screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.

Horizontal cross-section



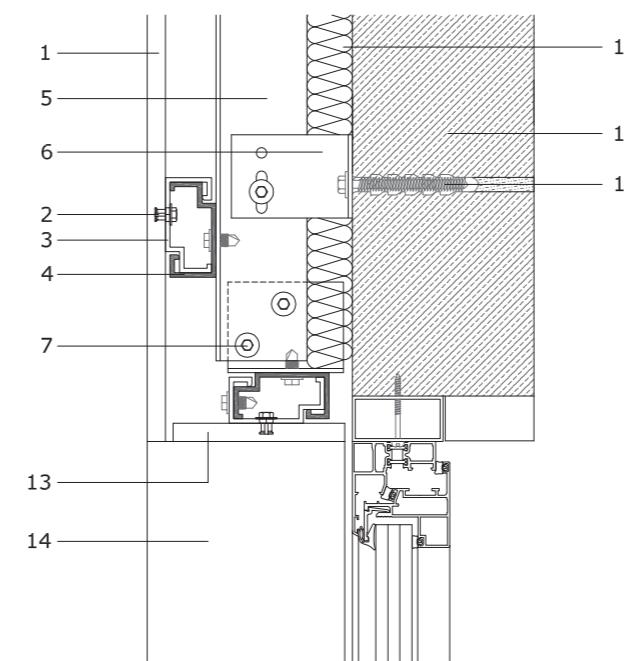
1. 12 mm KRION slab.
2. "K-BOLT" type insert.
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4. Aluminum horizontal "C" profile.
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6. Secondary aluminum spacer.
7. Stainless steel self-drilling screw.
8. Adjustable screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.



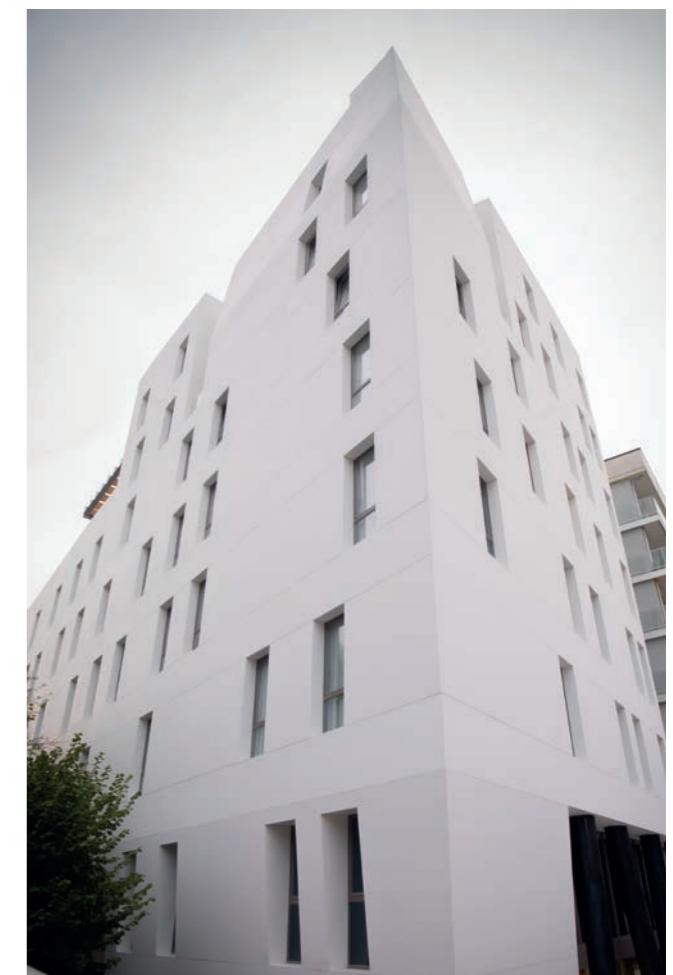
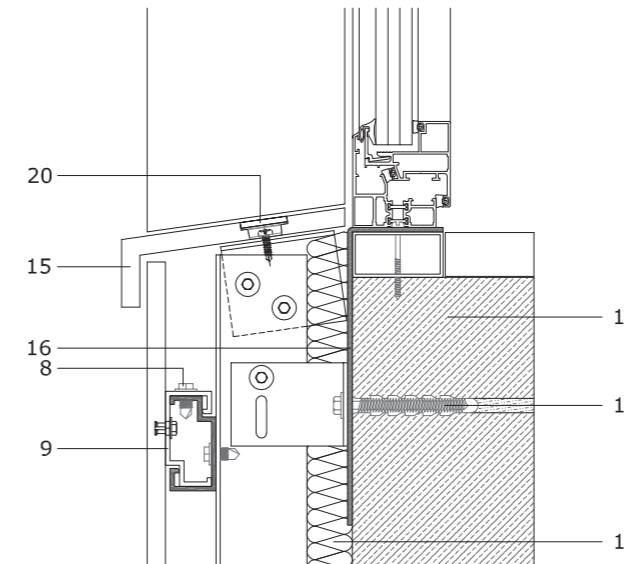
Zenit Hotels (San Sebastián - Spain)

### Concealed anchoring. K-BOLT system.

Window with outer shafts with KRION dressings



1. 12 mm KRION slab.
2. "K-BOLT" type insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum spacer.
7. Stainless steel self-drilling screw.
8. Adjustable screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.
13. KRION lintel.
14. KRION jamb.
15. KRION flashing board.
16. Waterproof membrane.
17. Flashing board apron.
18. Aluminum tubular profile.
19. Aluminum vertical "L" profile.
20. Krion Cap.



Zenit Hotels (San Sebastián - Spain)

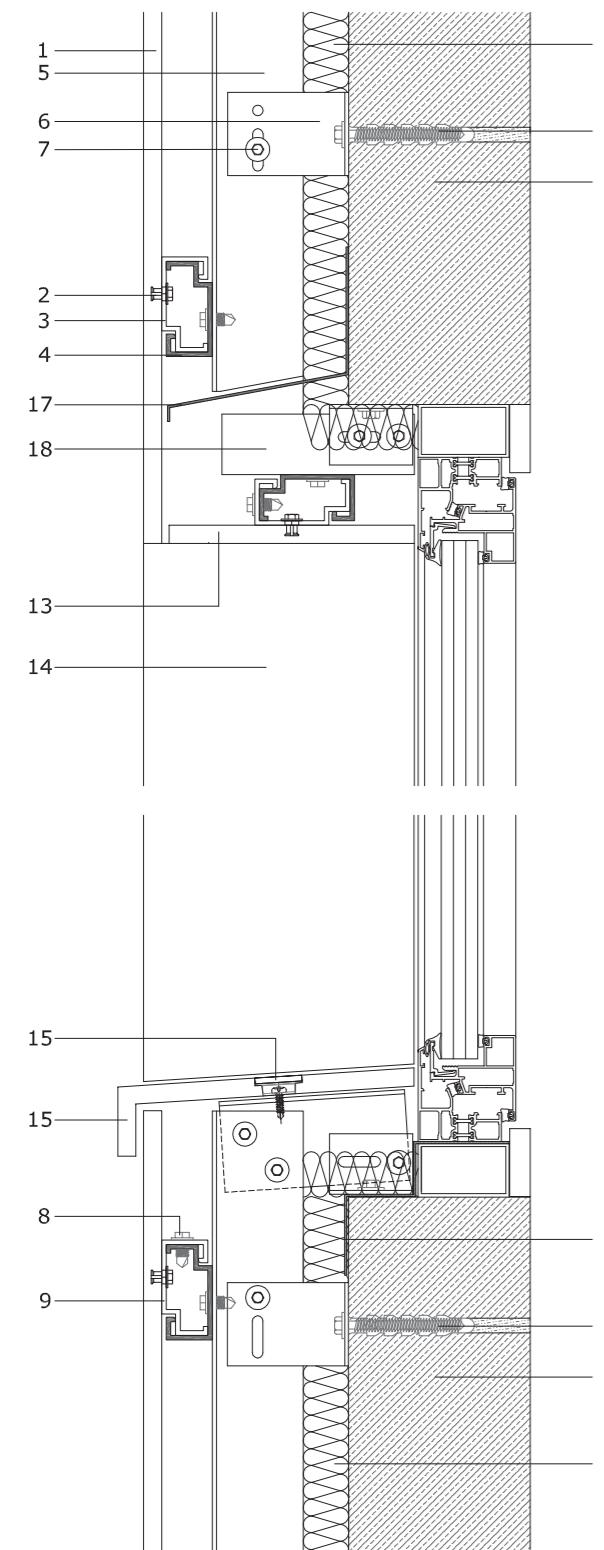


Hotel Zenit (San Sebastián - Spain)



### Concealed anchoring. K-BOLT system.

Window with inner shafts with KRION dressings



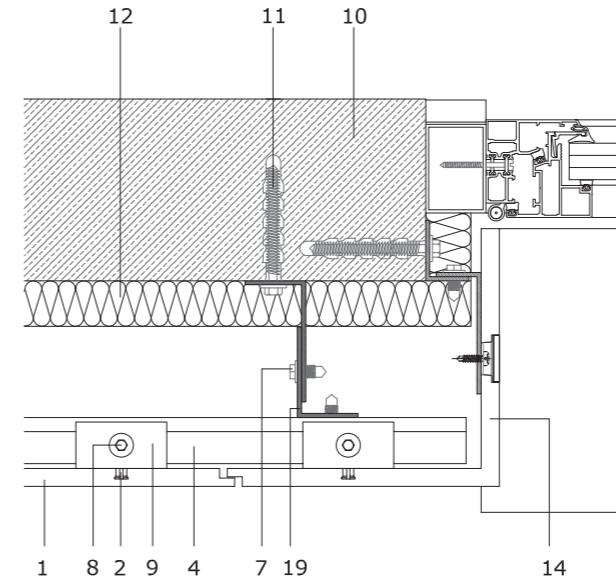
1. 12 mm KRION slab.
2. "K-BOLT" type insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum spacer.
7. Stainless steel self-drilling screw.
8. Adjustable screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.
13. KRION lintel.
14. KRION jamb.
15. KRION flashing board.
16. Waterproof membrane.
17. Flashing board apron.
18. Aluminum tubular profile.
19. Aluminum vertical "L" profile.
20. Krion Cap.



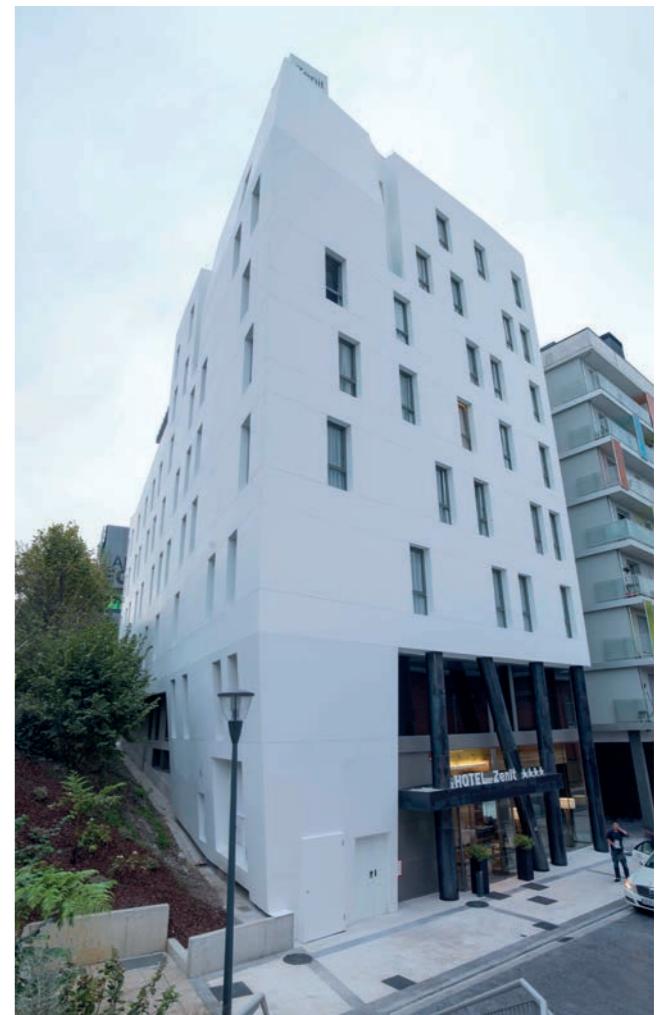
Zenit Hotels (San Sebastián - Spain)

### Concealed anchoring. K-BOLT system.

Window with inner shafts with KRION dressings



1. 12 mm KRION slab.
2. "K-BOLT" type insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum spacer.
7. Stainless steel self-drilling screw.
8. Adjustable screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.
13. KRION lintel.
14. KRION jamb.
15. KRION flashing board.
16. Waterproof membrane.
17. Flashing board apron.
18. Aluminum tubular profile.
19. Aluminum vertical "L" profile.
20. Krion Cap.



Zenit Hotels (San Sebastián - Spain)

# Ventilated façade & KRION Lux



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 Lux colours

KRION is very stable against UV damage. However, any alteration (rapid or slow, appreciable or not) is dependent on the chemical composition of the different additives required to produce the final colors.

Therefore, due to inevitable superficial deterioration, a slight change of shade will be noticeable after some years. Changes in shade are measured in ΔE units by comparing L, a, b values, where values lower than 8 show a barely perceptible difference.

Time equivalence results for artificial ageing are not empirical, but can be correlated with results obtained by natural ageing over a 10 year period in an equivalent project.

There are several formulas for calculating delta-E (ΔE), CIE76 being the most common and easy to use.

$$\Delta E^* = ((L^*1-L^*2)^2 + (a^*1-a^*2)^2 + (b^*1-b^*2)^2)^{1/2}$$

- SUPREME: optimum performance in exterior use. Color variation over a 10 year period is less than ΔE = 3. The best choice for outdoor areas.
- EXCELLENT: good performance in exterior use. Color variation over a 10 year period is less than ΔE = 5. Good choice for outdoor areas.
- GOOD: acceptable performance in exterior use. Color variation over a 10 year period is less than ΔE = 15. Acceptable choice if a slight color variation is acceptable.
- NORMAL: least recommended for external use since color variation over a 10 year period is greater than ΔE = 15. Suitable choice if a change in color is not important.

Supreme	Excellent	Good	Normal		
1100. Snow White 1102. Marfil 1103. White 1501. Arena 1503. Lady 1604. Chlorophyll	1101. Ice 1502. Vainilla 1504. Soap 1703. Light Blue 5101. Stone White	1703. Light Blue 5101. Stone White 1401. Orange 1402. Lila 1403. Candy 1404. Pink 1405. Happy Red 1406. Happy Pink 1506. Camel 1507. Earth 1602. Green 1603. Nordic Blue 1701. Blue Sky 1704. Navy Blue 1705. Dark Blue 1706. Happy Blue 1901. Black 1904. Dark Grey	6201. Imperial Yellow 6301. Fruit 6401. Red Fire 6503. Ground 6901. Black Metal 6904. Bright 7901. Black Star 7902. Grey Star 8102. Soring Pearl 8502. Goby Brown 8901. Crystal Black 9103. Bright Rock 9501. Brownite + 9504. Africa 9506. Mocha Concrete 9507. Taupe Concrete	0101. White Nature 0102. Clear Nature 0103. Fossil Forest 0501. Dune Nature 0502. Camel Nature 0503. Earth Nature 0504. Marfil Nature 0901. Grey Nature 0902. Ash nature 1508. Dark Brown 1601. Yove 1605. Happy Green 4101. White Light 4201. Yellow Light 4401. Pink Light 4601. Green Light 4701. Blue Light 6507. Earth 6601. Fall Green 6704. Navy Blue 6905. Ash Grey 7101. White Star	8101. Crystal White 8501. Brownite 8503. Fossil Forest 8902. Night 8903. Grey Granite 9101. Crystal White + 9102. Polar Stone 9503. Swee Rock 9505. Cream Concrete 9901. Crystal Black + 9902. Moon 9903. Deep Granite 9904. Bright Concrete



# 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.

# Technical features

Property	Method	Units	Results KRION® Stone (11 mm)	Results KRION® Pure Lux (12 mm)
Density	DIN ISO 1183	g/cm³	1.787 - 1.800	1.710 - 1.726
Flexural modulus	DIN EN ISO 178	MPa	9,786 - 9,894	8,596 - 8,724
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. mm³ / 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 (USRV values)	Less than 120 sanding	CLASS 2	CLASS 2
80-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	45. CLASS 2 (humid and greasy areas)	45. CLASS 2 (humid and greasy areas)
120-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	19. CLASS 1 (interior humid areas)	19. CLASS 1 (interior humid areas)
180-Sanded finish anti-slip properties. With non-slip surface treatment	UNE ENV 12633:2003	Rd (roughness)	22. CLASS 1 (interior humid areas)	22. CLASS 1 (interior humid areas)
180-Sanded finish anti-slip properties	UNE ENV 12633:2003	Rd (roughness)	16. CLASS 1 (interior humid areas)	16. CLASS 1 (interior humid areas)
220-Sanded finish anti-slip properties. With non-slip surface treatment	UNE ENV 12633:2003	Rd (roughness)	18. CLASS 1 (interior humid areas)	18. CLASS 1 (interior humid areas)
Transverse resistivity	UNE 21-303:1983	Ωm	$> 5.1 \times 10^{10}$	$> 5.1 \times 10^{10}$
Surface resistivity	UNE 21-303:1983	Ω	$579.1 \times 10^{-9}$	$> 1 \times 10^{-9}$
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 / m²	$q = 113.1$	$q = 113.1$
	UNE 1267 (2002)	$m^2 \cdot K / W$	$R < 0.05$	$R = 0.05$
	UNE 1267 (2002)	W / m · K	$\lambda$ approx. 0.428	$\lambda = 0.396$
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

## Cutting and pasting



### 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.

## Polishing and finishing



### Polishing.

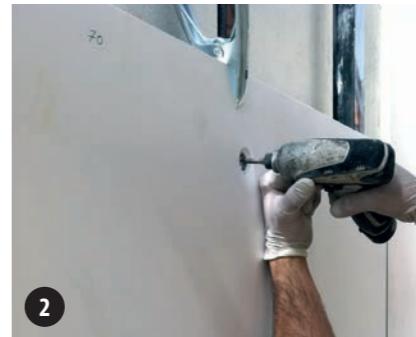
A random orbital sander must be used, with movements from top to bottom or from left to right.

### 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



Fix the **butech** aluminium profiles.

When the **butech** aluminium profiles are in place, correctly aligned and plumb, screw the panels in place. To ensure secure fixing, the panels have inserts housing the KRION® aluminium clips.

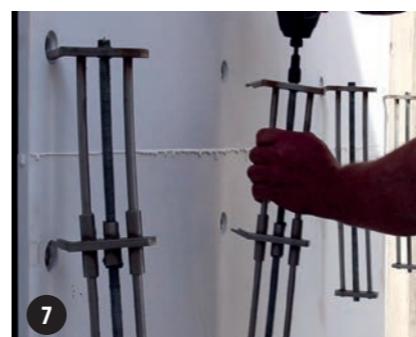
After cleaning and drying the surface onto which the next panel will be chemically welded, a continuous line of KRION® liquid adhesive is applied to the inside groove of the panel.



Illustration of the prepared KRION® panels with adhesive.

Then insert the flange of the next panel in the groove, so that the KRION® adhesive overflows.

Install pressure clamps and ensure that the two panels are correctly bonded.



After a period of time remove the pressure clamps.

Then fix the insert caps using KRION® adhesive so that it overflows.

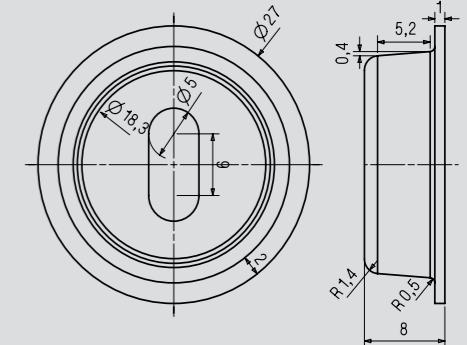
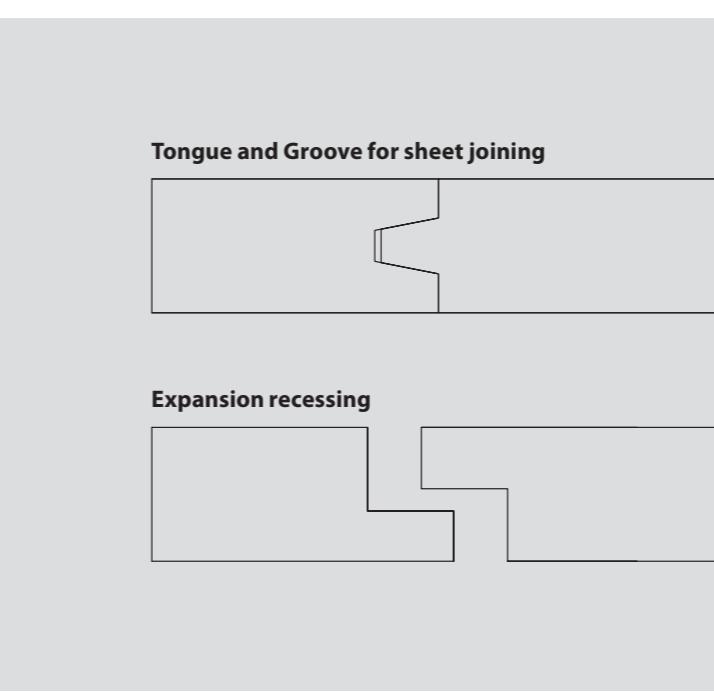
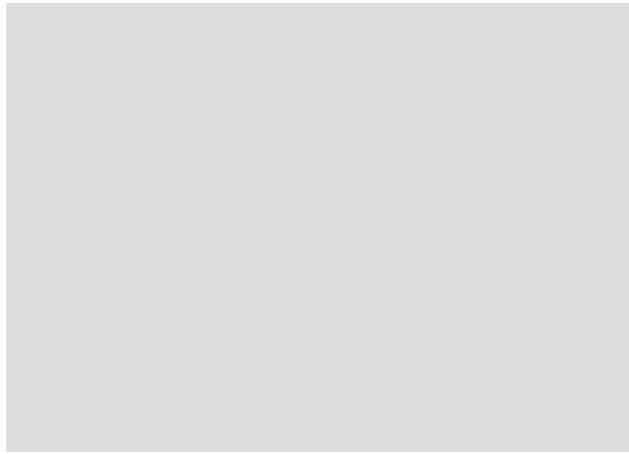
After 24 hours, surface sanding may be carried out to remove any roughness, marks or excess adhesive and obtain the KRION® final finish.

# KRION® vf Façade System certificates and tests

Test list:

- 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.

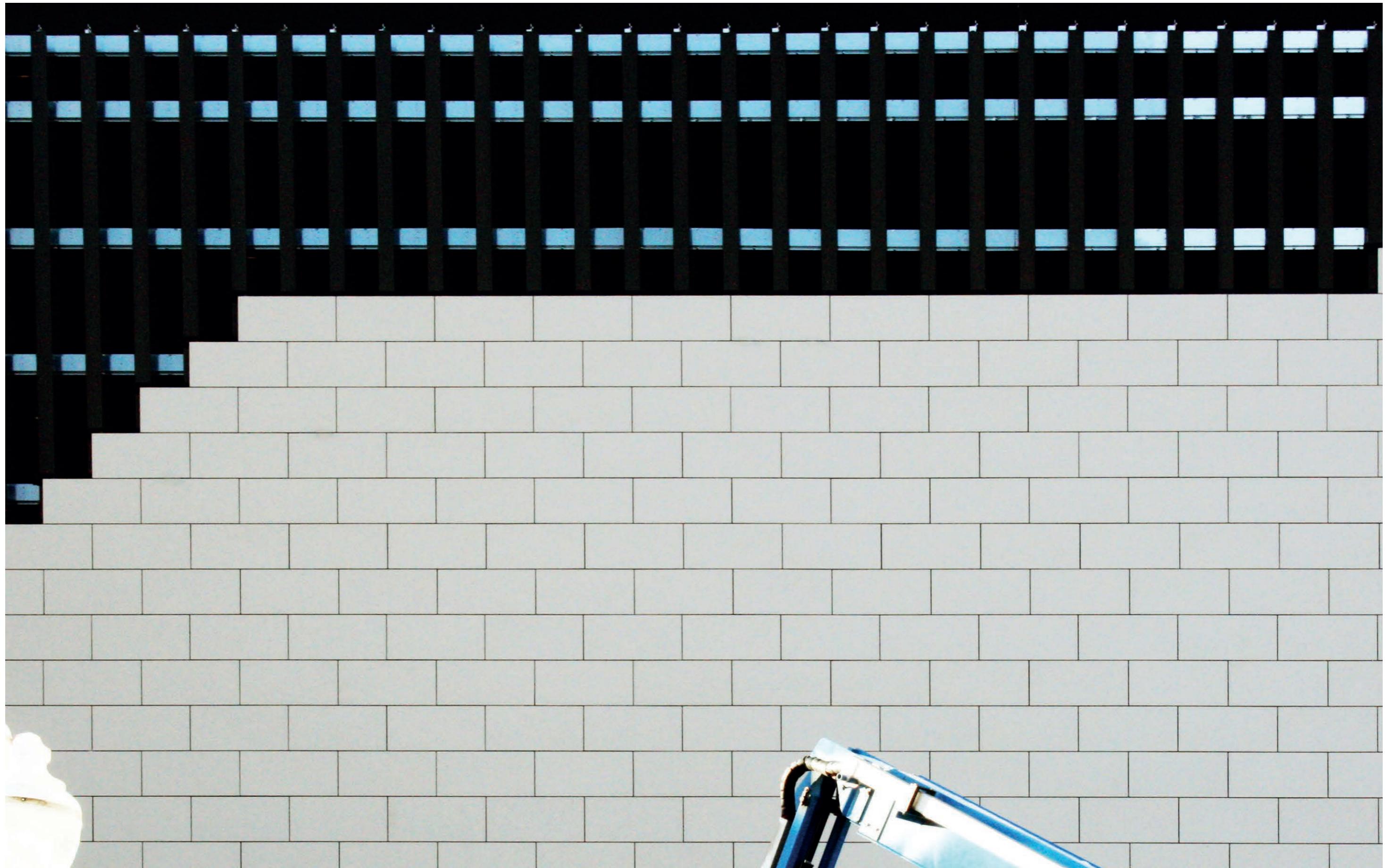
Done at the AIDICO Institute Technical Center Fire in Spain.



Detail of the anchor sleeve on the KRION tubular profile



Private House (Barcelona - Spain)



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**Cladding substructure**

## Cladding substructure

Aluminium vertical profiles EN AW 6005 T6 2.7mm thick, fixed over L-shaped brackets to allow structural movements. Maximum gap between vertical profiles 120 cm.

KEA	SAP	DESCRIPTION	WEIGHT (kg/ud.)
B8040023	100044395	Aluminium T-profile 100/60/2.7 ml (3 <sup>15/16</sup> " / 2 <sup>6/16</sup> " / 1/8") black	2.35 (4.4 lb/unit)
B86001002	100006226	L-profile 40/60/2.73 ml (1 <sup>9/16</sup> " / 2 <sup>6/16</sup> " / 1/8") black	2.067 (4.409 lb/unit)
B80400179	100091668	FV 80x20x2mm (3 <sup>2/16</sup> "x13/16"x5/64" 118 <sup>2/16</sup> ) 3m long aluminum tubular profile	3.12 (6.61 lb/unit)
B80400370	100104531	FV 80x60x2.5mm (3 <sup>2/16</sup> "x26/16"x2/16" 118 <sup>2/16</sup> ) 3m long aluminum tubular profile	5.64 (11.02 lb/unit)
B80400440	100111024	FV omega profile alu. 20X140x3000 mm (25/32"x5 <sup>33/64</sup> "x118 <sup>7/64</sup> )	2.850 (6.28 lb/unit)
B80401132	100150582	Single aluminium angle bracket. length 40 mm (1 <sup>37/64</sup> ')	0,056 (0.12 lb/unit)
B86001003	100006227	Single aluminium angle bracket. length 60 mm (2 <sup>1/16</sup> ')	0,081 (0.17 lb/unit)
B86001005	100006229	Single aluminium angle bracket. length 80 mm (3 <sup>2/16</sup> ')	0,081 (0.17 lb/unit)
B86001009	100006233	Single aluminium angle bracket. length 100 mm (3 <sup>15/16</sup> ')	0,090 (0.19 lb/unit)
B86001007	100006231	Single aluminium angle bracket. length 120 mm (4 <sup>12/16</sup> ')	0,095 (0.209 lb/unit)
B86001011	100006235	Single aluminium angle bracket. length 140 mm (5 <sup>8/16</sup> ')	0,106 (0.23 lb/unit)
B86001013	100006237	Single aluminium angle bracket. length 160 mm (6 <sup>5/16</sup> ')	0,119 (0.26 lb/unit)
B80400167	100091005	Single aluminium angle bracket. length 175 mm (6 <sup>11/16</sup> ')	0,195 (0.42 lb/unit)
B80400157	100089332	Single aluminium angle bracket. length 200 mm (7 <sup>14/16</sup> ')	0,174 (0.38 lb/unit)
B80401142	100150855	Single aluminium angle bracket. length 220 mm (8 <sup>21/32</sup> ')	0,150 (0.33 lb/unit)
B80401149	100150831	Single aluminium angle bracket. length 240 mm (9 <sup>29/64</sup> ')	0,160 (0.35 lb/unit)
B80401148	100150832	Single aluminium angle bracket. length 260 mm (10 <sup>15/64</sup> ')	0,220 (0.48 lb/unit)
B86001004	100006228	Double aluminium angle bracket. length 60 mm (2 <sup>6/16</sup> ')	0,19 (0.41 lb/unit)
B86001006	100006230	Double aluminium angle bracket. length 80 mm (3 <sup>2/16</sup> ')	0,19 (0.41 lb/unit)
B86001010	100006234	Double aluminium angle bracket. length 100 mm (3 <sup>15/16</sup> ')	0,158 (0.34 lb/unit)
B86001008	100006232	Double aluminium angle bracket. length 120 mm (4 <sup>12/16</sup> ')	0,173 (0.38 lb/unit)
B86001012	100006236	Double aluminium angle bracket. length 140 mm (5 <sup>8/16</sup> ')	0,196 (0.43 lb/unit)
B86001014	100006238	Double aluminium angle bracket. length 160 mm (6 <sup>5/16</sup> ')	0,224 (0.49 lb/unit)
B80400166	100091004	Double aluminium angle bracket. length 175 mm (6 <sup>11/16</sup> ')	0,292 (0.64 lb/unit)
B80400101	100085742	Double aluminium angle bracket. length 200 mm (7 <sup>14/16</sup> ')	0,200 (0.44 lb/unit)
B80401143	100150850	Double aluminium angle bracket. length 220 mm (8 <sup>21/32</sup> ')	0,360 (0.79 lb/unit)
B80401147	100150851	Double aluminium angle bracket. length 240 mm (9 <sup>29/64</sup> ')	0,390 (0.85 lb/unit)
B80401146	100150852	Double aluminium angle bracket. length 260 mm (10 <sup>15/64</sup> ')	0,520 (1.14 lb/unit)
B8040014	100044382	Invisible central stainless steel fixing clip. 5 mm (3/16") of joint	0.08 (0.16 lb/unit)
B8040015	100044385	Invisible central stainless steel fixing clip. 8 mm (5/16") of joint	0.08 (0.16 lb/unit)
B8040013	100044383	Invisible side stainless steel fixing clip. 5 mm (3/16") of joint	0.08 (0.16 lb/unit)
B8040019	100044386	Invisible side stainless steel fixing clip. 8 mm (5/16") of joint	0.08 (0.16 lb/unit)
B8040016	100044384	Invisible start/end fixing clip	0.08 (0.16 lb/unit)

KEA	SAP	DESCRIPTION	WEIGHT (kg/ud.)
	B80400017 B80400021	Visible central stainless steel fixing clip, 5 mm (3/16") joint Visible central stainless steel fixing clip, 8 mm (5/16") joint	0.08 (0.16 lb/unit) 0.08 (0.16 lb/unit)
	B80400020 B80400022	Visible side stainless steel fixing clip, 5 mm (3/16") joint Visible side stainless steel fixing clip, 8 mm (5/16") joint	0.08 (0.16 lb/unit) 0.08 (0.16 lb/unit)
	B80400018	Visible stainless steel start/end fixing clip	0.08 (0.16 lb/unit)
	B80400009	Invisible staggered stainless steel fixing clip, 5 mm (3/16") joint	0.08 (0.16 lb/unit)
	B80400055	Wall plug with pre-assembled galvanised steel screw Wall plug with pre-assembled stainless steel screw	0.030 (0.066 lb/unit)
	B86003006	Galvanised steel washer Stainless steel washer	0.006 (0.013 lb/unit)
	B86003004	M10 galvanised steel expansion plug M10 stainless steel expansion plug	0.034 (0.074 lb/unit)
	B86003001	Self drilling screw for bracket/profile, 5.5 x 22 mm (7/32"x50/64")	0.004 (0.0088 lb/unit)
	B86003002	Stainless steel self drilling screw for bracket/screw 4.2x13 mm (27/64"x6/16")	0.001 (0.0022 lb/unit)
	B80400442	FV union l/t esp 5.5x50 mm (7/32"x1 31/32") c/a screw	0.010 (0.022 lb/unit)
	B82401003	310 ml mastic cartridge, P-404 black	0.31 (0.683 lb/unit)
	B41061003 B80400029 B80400030	FV chemical anchor adhesive FV chemical anchor rod FV chemical anchor plug	0.540 (1.19 lb/ut) 0.068 (0.149 lb/ut) 0.01 (0.022 lb/ut)



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**VF-Stone system**



Private house - Arch. Joaquín Albert

## VF-Stone system

**butech** and L'ANTIC COLONIAL show their most exclusive ventilated façade system, VF-STONE. A ventilated façade clad in natural stone offers a touch of distinction and natural warmth that other materials simply cannot achieve.

These types of stone - granite, marble, slate etc - have been used by man throughout history to adorn their finest architecture. They are exclusive products, conceived to stand out from all the rest.

Stone-clad ventilated façades offer all the advantages of natural stone, combined with reduced production and installation costs. They also offer all the benefits of a ventilated façade: energy efficiency, insulating the building from cold in winter, thanks to the air cavity between the façade and building; sound insulation; insulation from damp; and savings on maintenance costs.

Added to all this, stone is a timeless material. Natural materials benefit from the fact that they never become out of date. A stone-clad ventilated façade lasts a lifetime.

### Exclusive VF-Stone finishes



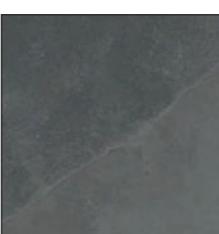
Caliza xian



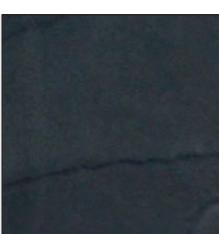
Travertino moka



Tukuman



Pampa



Patagonia



Granito silver



Nepal



Granito coal

## Mechanical properties

	<b>Alloy</b>	<b>Rm (N/mm<sup>2</sup>)</b>	<b>Rp 0.2 (N/mm<sup>2</sup>)</b>	<b>A50%</b>	<b>HRB</b>
Vertical profile	Aluminium 6063	220.00	170.00	14.00	65
Load bearing and support brackets	Aluminium 6060	220.00	170.00	14.00	65
Clip	Aluminium 6060	160	120.00	8	65
Retaining spring for clip	Steel AISI-301	1280-1450	1200	15	-
Connecting screws for concrete	Stainless steel A2	700.00	450.00	40.00	85
Connecting screws for masonry	Stainless steel A2	700.00	450.00	40.00	85

### Maximum permitted load (Kg)

Load bearing bracket	260 (273,196 lb)
Double clip	60 (132,276 lb)
Single clip	40 (88,184 lb)



Rhiat Hotel (Marbella - Spain) - Arch. PORCELANOSA

## Components of the VF-Stone system

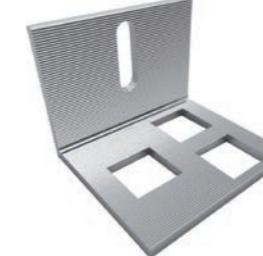
VF-STONE's system of profiles has been designed to meet all the necessary mechanical and anti-corrosion building requirements. This system of profiles can be installed on a solid, perforated or hollow support and it can be adjusted vertically and horizontally, thus complying with standard UNE 41957.

Its system of profiles is made up of vertical profiles, load-bearing brackets, support brackets and clips to hold the stone in place. The clips can be concealed or visible. Visible ones are used for foliated materials like slate.

**Load-bearing bracket**



**Support bracket**



**System**



**Single concealed clip**



**Single concealed start clip**



**Visible clip**



**Visible start clip**



1. VF-STONE profile
2. Load-bearing bracket
3. Square safety washer
4. Expansion screw
5. DIN 7976 screw
6. Double concealed clip
7. Lag screw with nylon rawl plug
8. Support bracket
9. DIN 7976 screw
10. Double concealed start clip

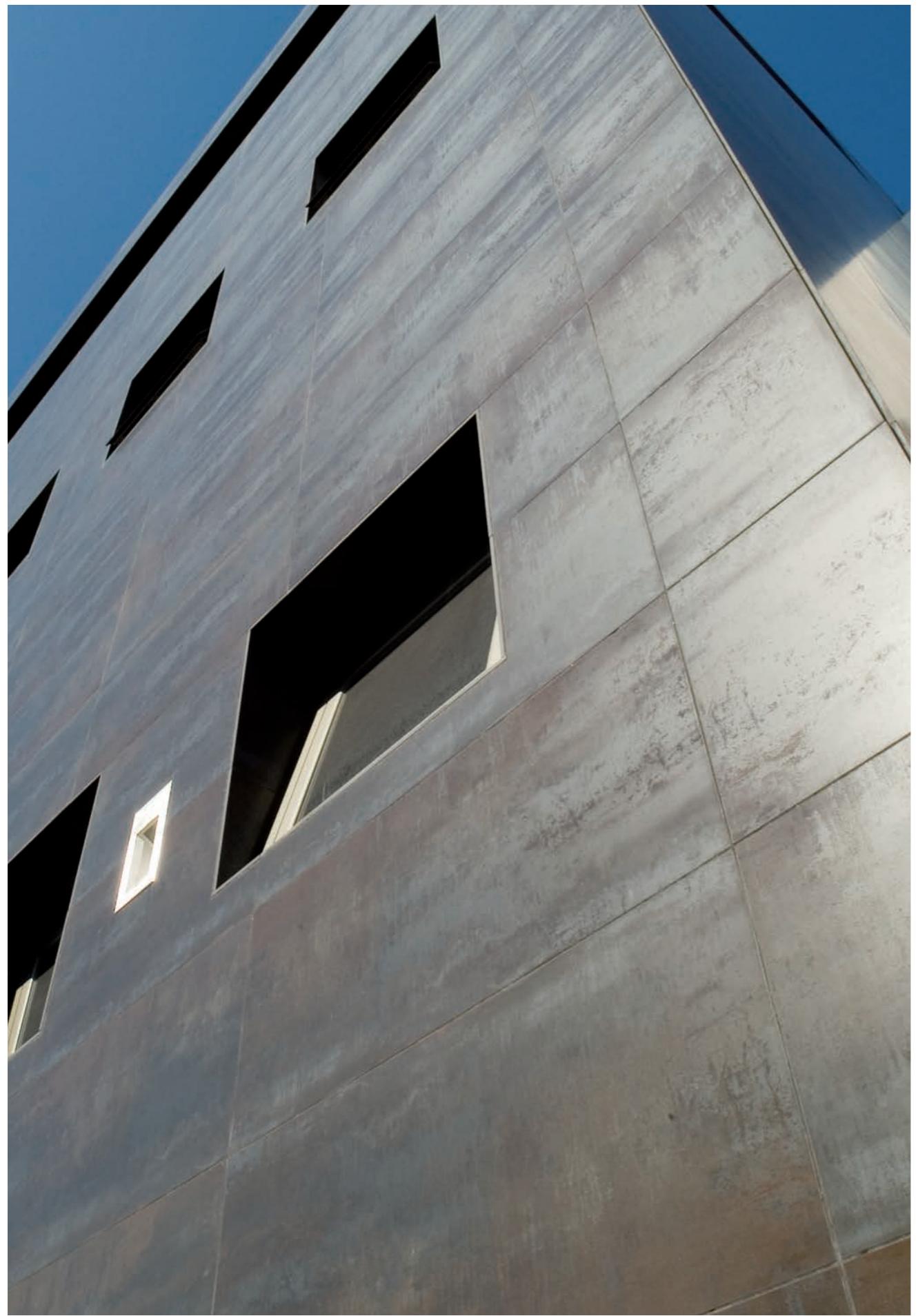


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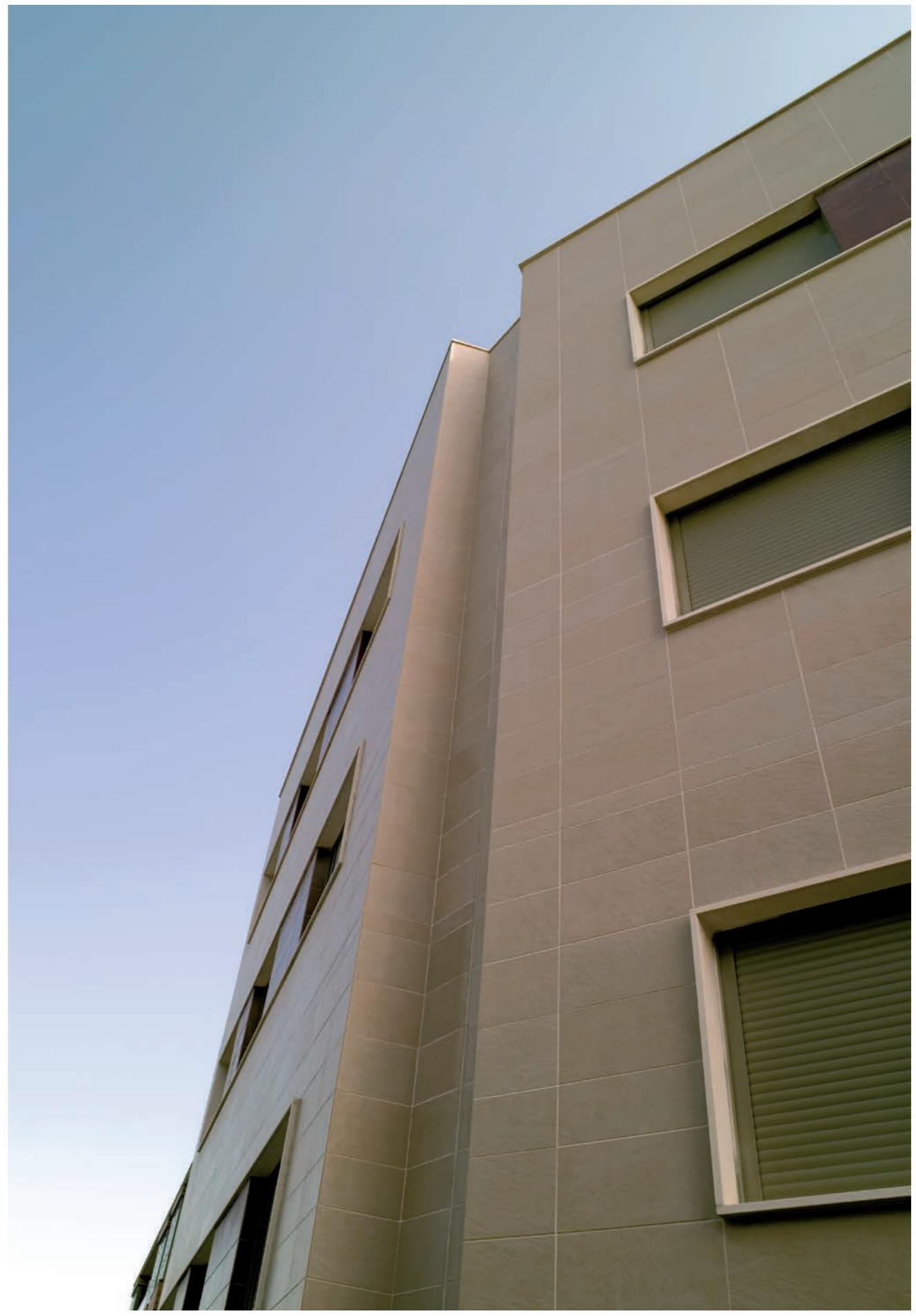
**Bonded façade**



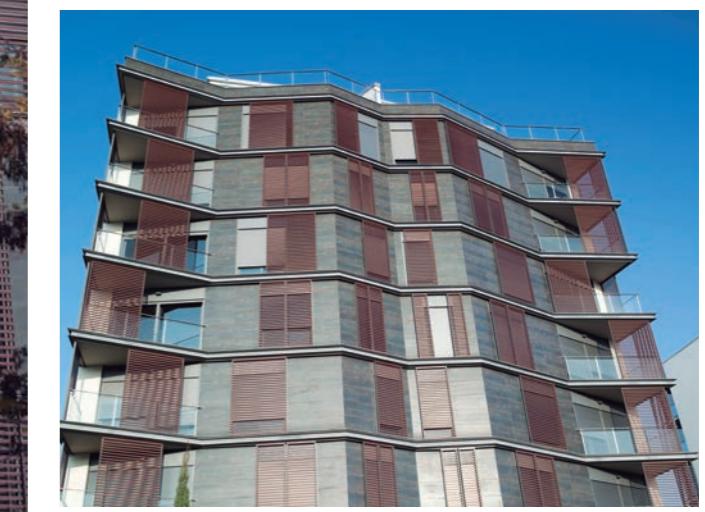
Single-family building (Valencia - Spain)



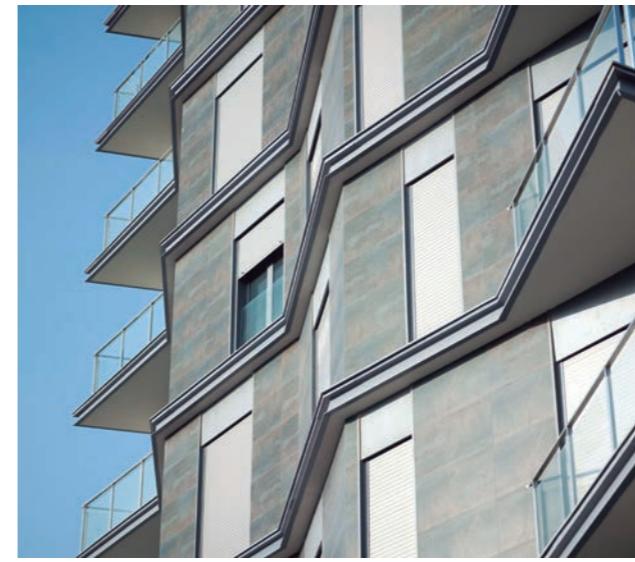
**Offices building (Puerto de Santa María - Spain)** - Arch. Ricardo Morales Blanco



**Public building (Madrid - Spain)** - Arch. Berna Díez



**Single-family building (Castellón - Spain)**  
Arch. Carlos Ferrater and José Luis Gimeno



**Single-family building (Castellón - Spain)**  
Arch. Carlos Ferrater and José Luis Gimeno

## Bonded façade

Ston-Ker bonded façades merge the beauty of a high-quality ceramic tile finish with other important aspects such as its lightweight, superior resistance to chemical and atmospheric agents, innovative design, and durability.

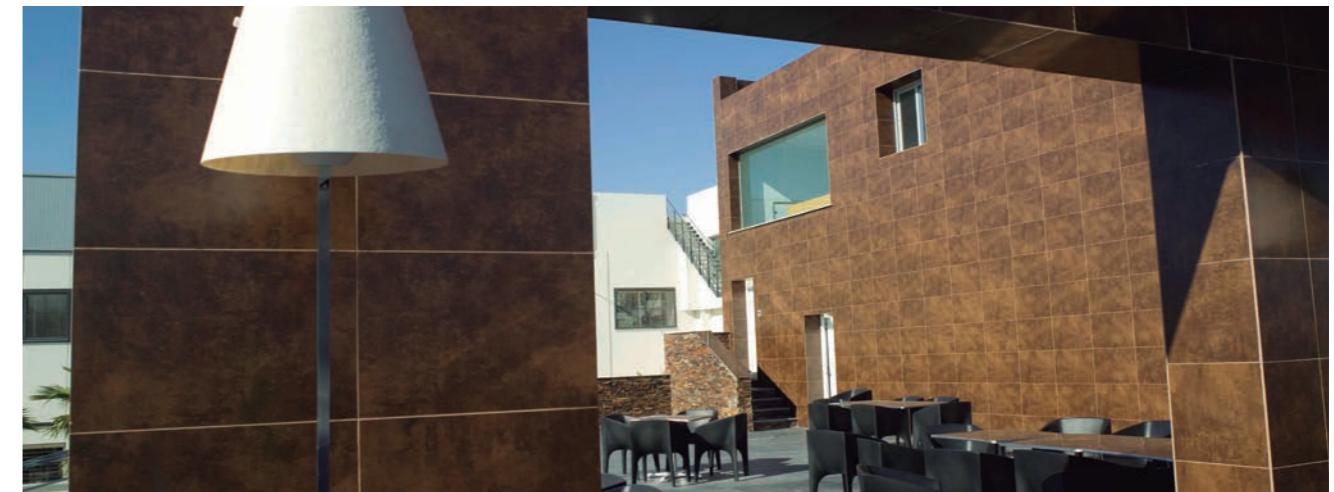
The Ston-Ker bonded façade system, which has already made its mark as an exterior cladding system, looks set to revolutionize façades for a long time in the future.

### Advantages

The Ston-Ker bonded façade system offers the following advantages over other bonded façade systems:

- Greater resistance to damp
- Greater resistance to atmospheric agents
- Greater resistance to water
- Greater versatility in terms of tile size and arrangements
- No colour loss on façade
- Lightweight structure
- Minimum maintenance
- Anti-graffiti and self-cleaning properties.

## Concealed fixings bonded facade



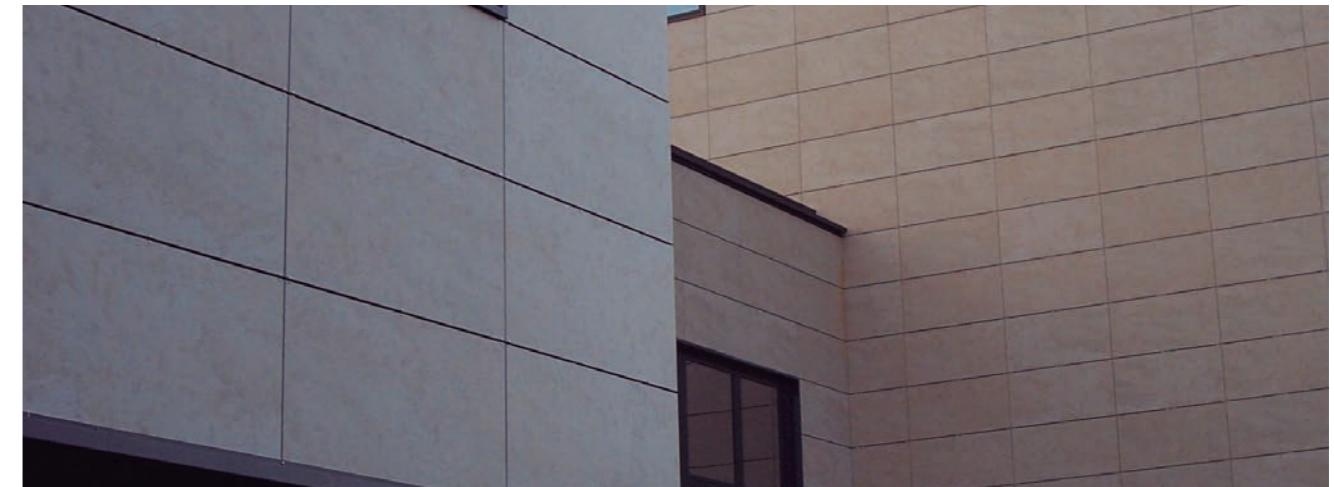
Innovative concealed fixing clip for ceramic tiles in bonded facades. The fixings fit within small slots done on the porcelain piece and are anchored to the support by a stainless steel screw. Once the joints are grouted, the fixings are not visible anymore, not affecting the facade design.

Butech facade fixings have been designed as a security element in porcelain tile walls installed by the thin layer, double bonding method. We recommend the use of type C2 S2 cementitious adhesives as per EN 12004.

As a general rule, we recommend this kind of fixing from a height corresponding to first concrete slab. In any case, standards in force must be observed for every project.



## Visible fixings bonded facade



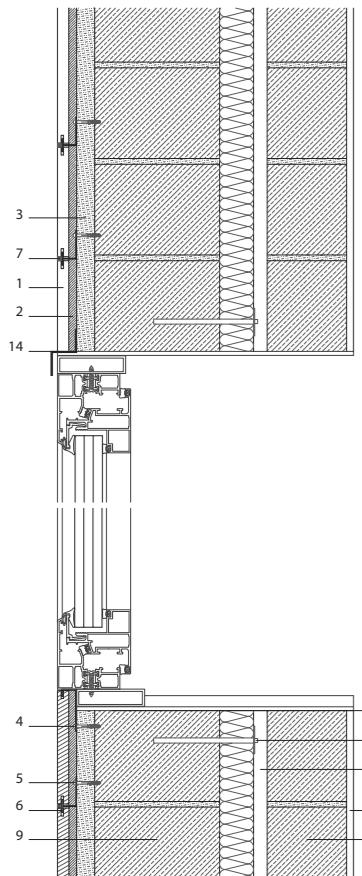
Visible fixing clip for ceramic tiles in bonded facades. Fixings hold the ceramic tiles and are anchored to the support by a stainless steel screw. Once the joints are grouted, the fixings are visible, and a 5 mm clip can be seen.

Butech facade fixings have been designed as a security element in porcelain tile walls installed by the thin layer, double bonding method. We recommend the use of type C2 S2 cementitious adhesives as per EN 12004.

As a general rule, we recommend this kind of fixing from a height corresponding to first concrete slab. In any case, standards in force must be observed for every project.

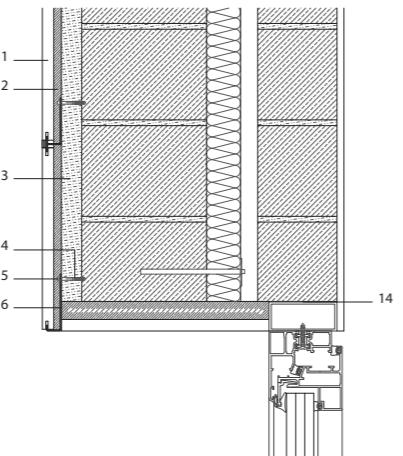


## Technical details



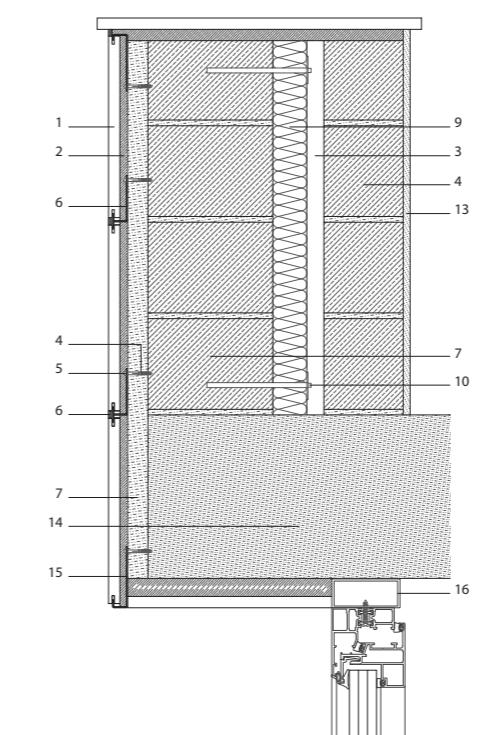
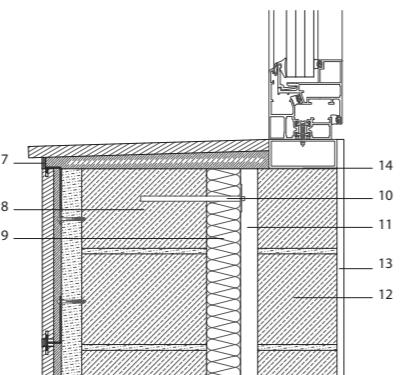
**Close-up of finish with flashing**

1. Ston-Ker
2. fr-one adhesive
3. Mortar screed
4. Anchor bolt
5. Stainless steel screw
6. Minimum joint stainless steel clip
7. Grout (colorstuk)
8. 12 cm brick substrate
9. Thermal / acoustic insulation.
10. Plastic fixing.
11. Air cavity
12. 7 cm brick substrate
13. Smooth plaster finish
14. p-404 polyurethane



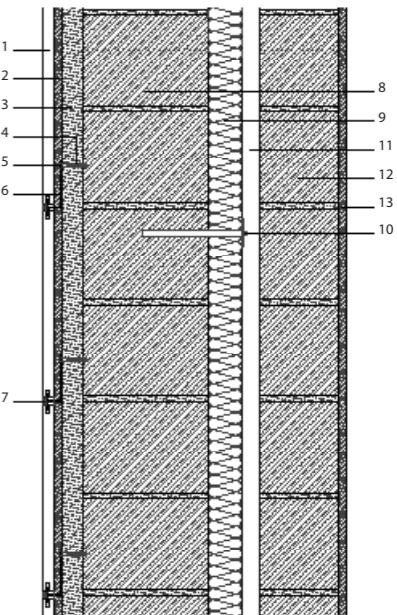
**Close-up of ceramic finish**

1. Ston-Ker
2. fr-one adhesive
3. Mortar screed
4. Anchor bolt
5. Stainless steel screw
6. Minimum joint stainless steel clip
7. Grout (colorstuk)
8. 12 cm brick substrate
9. Thermal/acoustic insulation
10. Plastic fixing
11. Air cavity
12. 7 cm brick substrate
13. Smooth plaster finish
14. p-404 polyurethane



**Close-up of top finish**

1. Ston-Ker
2. fr-one + unilax adhesive
3. Central stainless steel clip
4. Stainless steel screw
5. Anchor bolt
6. Grout (colorstuk rapid)
7. Mortar screed
8. 12 cm brick substrate
9. Thermal/acoustic insulation
10. Plastic fixing
11. Air cavity
12. 7 cm brick substrate
13. Smooth mortar finish
14. Floor slab
15. Stainless steel start/end clip
16. p-404 polyurethane



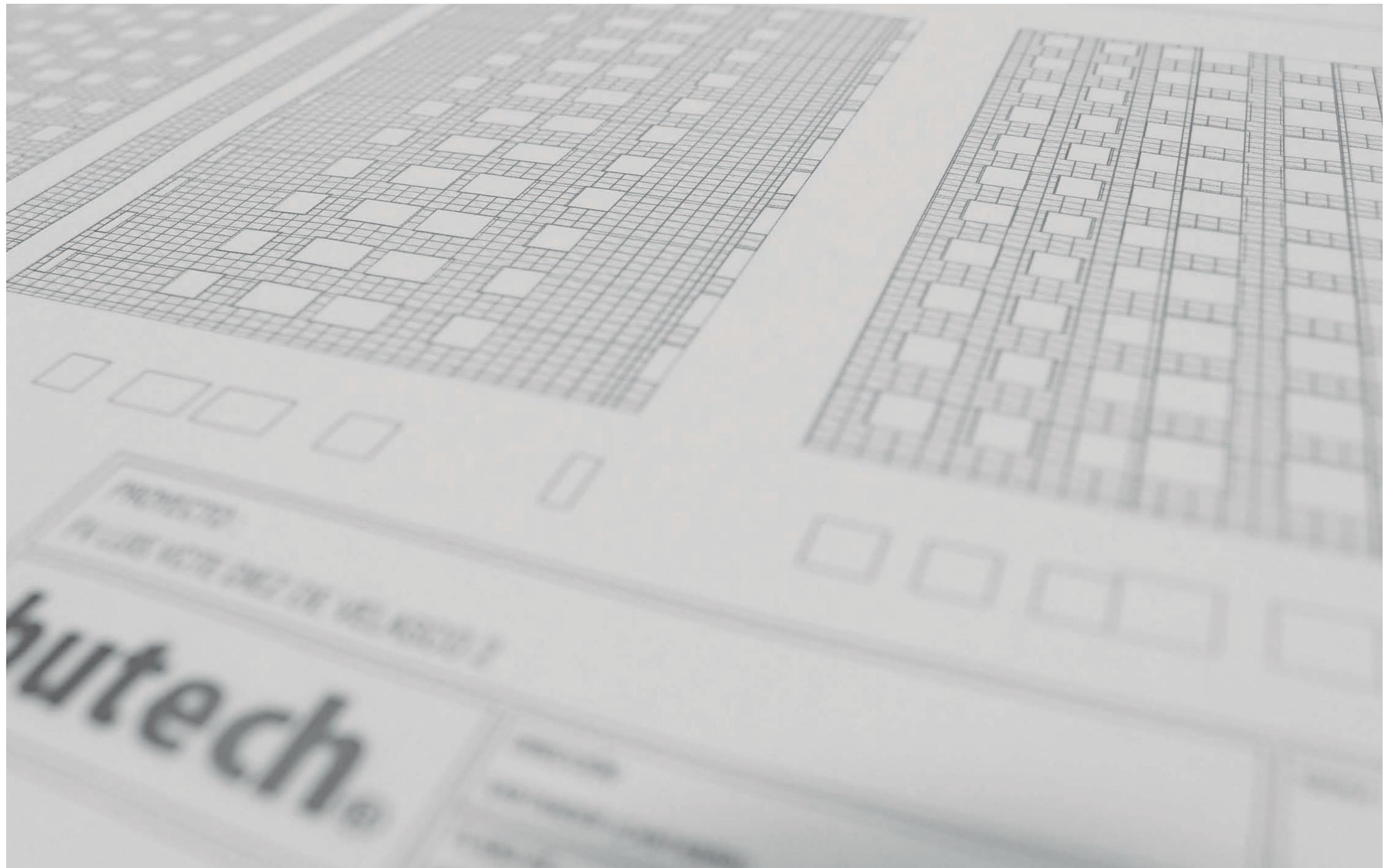
**Close-up of vertical cross-section of wall**

1. Ston-Ker
2. fr-one adhesive
3. Mortar screed
4. Anchor bolt
5. Stainless steel screw
6. Minimum joint stainless steel clip
7. Grout (colorstuk)
8. 12 cm brick substrate
9. Thermal/acoustic insulation
10. Air cavity
11. 7 cm brick substrate
12. Smooth plaster finish



## System elements

KEA	SAP	DESCRIPTION	WEIGHT (kg/ud.)
	B80111001	100005743 Concealed fixing. Minimum joint I	0,008 (0.017 lb)
	B80111002	100005744 Concealed fixing. Minimum joint A/T 4 cm	0,007 (0.015 lb)
	B80111003	100005745 Concealed fixing. Minimum joint A/T 8 cm	0,012 (0.026 lb)
	B80201001	100005746 Concealed fixing. Minimum joint A/T 16 cm	0,021 (0.046 lb)
	B80107010	100005737 Stainless fixing clip. Ref. 1000	0,011 (0.024 lb)
	B80107011	100005738 Stainless fixing clip. Ref. 1100	0,042 (0.092 lb)
	B80107012	100005739 Stainless fixing clip. Ref. 1200	0,005 (0.011 lb)
	B80107013	100005740 Stainless fixing clip. Ref. 1500	0,005 (0.011 lb)
	B80400005	100008057 Black lacquered fixing clip. Ref. 1000	0,011 (0.024 lb)
	B80400006	100008059 Black lacquered fixing clip. Ref. 1100	0,042 (0.092 lb)
	B80400007	100008058 Black lacquered fixing clip. Ref. 1200	0,005 (0.011 lb)
	B80400008	100008056 Black lacquered fixing clip. Ref. 1500	0,005 (0.011 lb)

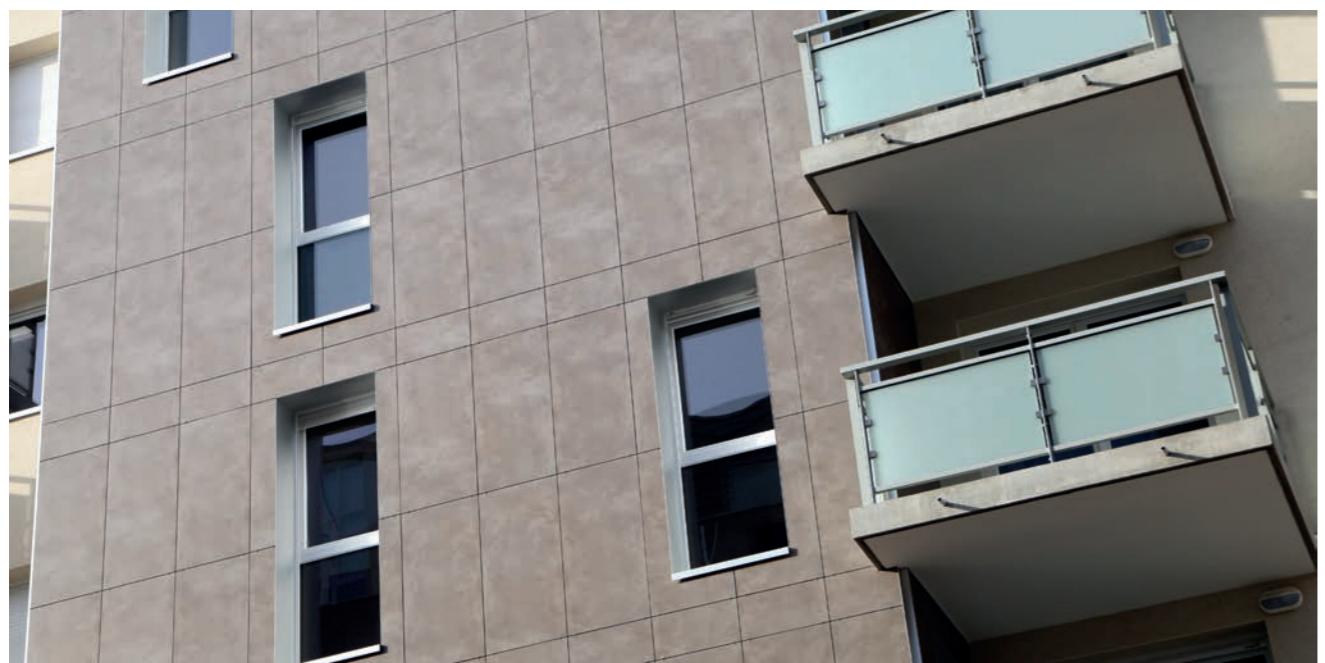


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**Finished projects**

# Finished projects

Project	m <sup>2</sup>	City	Country
FV KRION SHENZHEN	27500	SHENZHEN	CHINA
FV HÔPITAL AMBROISE PARE	13379	MARSELLA	FRANCE
FV UPTOWN PALACE	12000	MILANO	ITALY
FV QUATRE CARRERES	11000	VALENCIA	SPAIN
FV HOSPITAL DE IBIZA	10000	IBIZA	SPAIN
FV KRION INSTITUT D'OPTIQUE D'AQUITAINE	7000	TALENCE	FRANCE
FV MUSSONVILLE	6400	MUSSONVILLE BORDEUAUX	FRANCE
FV PINTOR LINO VILLAFINEZ	6000	SANTIAGO DE COMPOSTELA	SPAIN
FV CENTRO PARA DISCAPACITADOS	5708	ARROYOMOLINOS	SPAIN
FV MOULINS DE LHUISNE	5600	LE MANS	FRANCE
FV HOSPITAL DEL ULSTER	5600	DUNDONALD-BELFAST	UK
FV OLIMPIC	5500	ULAN BATOR	MONGOLIA
FV LA NEF	5000	TOURS, FRANCE	FRANCE
TOUR LRA ANGOLA	4700	LUANDA	ANGOLA
FV COLEGIO MAYOR MENDEL	4600	MADRID	SPAIN
FV HERMES	4580	LA VAUDREUIL	FRANCE
FV RENOVATION BOUT DE LANDES	4000	NANTES	FRANCE
FV SEDE DO BANCO BAI EM CABO VERDE	3657	CABO VERDE	CABO VERDE
FV CENTRO DE DIA Y RESIDENCIA PARA PERSONAS MAYORES	3638	AVILES	SPAIN
FV 87 VIVIENDAS EN MOLINA DEL SEGURA	3600	MOLINA DEL SEGURA	SPAIN
FV COLEGIO MAJADAHONDA	3500	MAJADAHONDA	SPAIN
FV 56 VIVIENDAS LA FONT	3437	ALICANTE	SPAIN
FV GMF SARAN	3300	SARAN	FRANCE
FV LEADWAY OFFICE COMPLEX	3000	LAGOS	NIGERIA
FV ILLA BAYER EDIF. D	2980	BARCELONA	SPAIN
FV CASA CONSISTORIAL TORRE PACHECO	2704	TORREPACHECO	SPAIN
FV GERIÁTRICO GALICIA	2700	SANTIAGO DE COMPOSTELA	SPAIN
FV HOTEL CANGILI NOU 22	2665	BARCELONA	SPAIN
FV SORTIS	2645	PANAMA	PANAMA
FV KRION LE DOMAINE DE LAFÔRET DE MEUDON	2600	MEUDON	FRANCE
FV KRION HOTEL ZENIT	2500	SAN SEBASTIAN	FRANCE
FV CASA CONSISTORIAL	2500	TORREPACHECO	SPAIN
FV SEDE JUDICIAL DE VILA-REAL	2500	VILA-REAL	SPAIN
FV CARDENAL HERRERA ORIA	2300	SANTANDER	SPAIN



Project	m <sup>2</sup>	City	Country
FV HOTEL CLARIDGE	2234	MADRID	SPAIN
FV LE PRAIRIAL	2200	NANTES	FRANCE
FV WAL MART SUPERCENTER	2195	MONTERREY	MEXICO
FV PROGETTI HOMBRE	2170	GIJON	SPAIN
FV SHOWROOM POLINOV	2155	ISRAEL	ISRAEL
FV LES THERMES DE BALARUC	2100	BALARUC LES BAINS	FRANCE
FV FUNDACIÓN DFA	2085	ZARAGOZA	SPAIN
FV EDIFICIO DE HACIENDA	2030	BADAJOZ	SPAIN
FV ELT	2030	LUANDA	ANGOLA
FV BERSHKA TURKEY	2000	İSTMABUL	TURKEY
FV CENTRO DE DIA	2000	VILLAR-CASTRILLON	SPAIN
FV HOTEL SOL COSTABLANCA	2000	BENIDORM	SPAIN
FV PLANTAS BAJAS COLEGIO MAYOR MENDEL	2000	MADRID	SPAIN
FV LA LLORAL	2000	LA LLORAL	SPAIN
FV LA CUB	2000	BORDEAUX	FRANCE
FV 24 VIVIENDAS	1993	SANTANDER	SPAIN
FV PAU COSTA ARENYS DE MAR	1849	ARENYS DE MAR	SPAIN
FV WANDSWORTH	1780	WANDSWORTH	UK
FV POBLA DE VALLBONA	1750	POBLA DEL VALL BONA	SPAIN
FV PARQUE DE BOMBEROS DE BENICARLO	1729	BENICARLO	SPAIN
FV HOTEL CORISCO	1700	MALABO	EQUATORIAL GUINEA
FV SIENA	1679	SIENA	ITALY
FV RUE CHIAPPE	1646	PARIS	FRANCE
FV EDIFICIO VIVIENDAS RONDA SUR	1630	MURCIA	SPAIN
FV PONTE DELLA PIETRA	1587	PERUGIA	ITALY
FV CENTRO DIA CERVO	1502	CERVO	SPAIN
FV CENTRO DE SALUD	1501	ANTEQUERA	SPAIN
FV REFORMA Y AMPLIACIÓN DEL ÁREA DE PEDIATRÍA HOSPITAL RAFAEL MENDEZ	1500	LORCA	SPAIN
FV KRION CENTRO COMERCIAL EMPORIUM	1450	BANGKOK	TAILANDIA
FV LA RENAISSANCE	1430	TOURS	FRANCE
FV COMISARIA	1427	CASTELLON	SPAIN
FV TOUR ELYSÉE	1426	LUANDA	ANGOLA
FV ERMENGOL SERRA	1400	ANDORRA	ANDORRA
FV FURTADO	1400	BURDEOS	FRANCE
FV WOODLANDS PROJECT	1400	LONDON	UK
FV POLICIA LOCAL C/ SAN FERNANDO	1332	COLLADO VILLALBA	SPAIN
FV MAS GUINARDO	1321	BARCELONA	SPAIN
FV RAISAN	1320	SANTANDER	SPAIN
FV WALL MART SUPERAMA MARGAIN	1312	MARGAIN	MEXICO
FV FRANCHY ROCA	1300	LAS PALMAS	SPAIN
FV MAISON DU BATIMENT EN TOURS	1300	TOURS	FRANCE
FV LE PATIO MARSEILLE	1287	MARSEILLE	FRANCE
FV INSS DE TORRENT	1268	TORRENT	SPAIN
FV NAVE DE COMPONENTES	1250	MALAGA	SPAIN
FV CENTRO SOCIOCULTURAL NOU MOLES	1218	VALENCIA	SPAIN
FV O2	1200	TORONTO	CANADA
FV INDIGO HOTEL	1200	NEW JERSEY	USA
FV PADRE ZEGRI	1200	VALLADOLID	SPAIN
FV CENTRO DE NEGOCIOS TUDELA	1200	TUDELA	SPAIN
FV TORRE MMG	1192	DISTRITO PANAMA	PANAMA
FV Progetti HOMBRE (2 <sup>a</sup> FASE)	1163	GIJON	SPAIN
FV RESIDENTIAL DEVELOPMENT AT PLOT 32, BLOCK F	1132	LAGOS	NIGERIA
FV EDIFICIO 26 VIVIENDAS, OFICINAS Y LOCALES COMERCIALES	1100	FIGUERES	SPAIN
FV LA PEREDA	1100	LA PEREDA	SPAIN
FV TANATORIO CASTELLON	1100	CASTELLON	SPAIN
FV REHABILITACION HOTEL BS CAPITULACIONES	1099	ALBOLOTE	SPAIN

Project	m <sup>2</sup>	City	Country
FV HOTEL MARINEDA PLAZA	1073	LA CORUÑA	SPAIN
FASADE ESPEHAUGEN	1042	BERGEN	NORWAY
FV KIEV ELENA OFFICINA ARCHITETTI MILANO	1009	KIEV	UKRAINE
ECOLE MATERNELLE LE PETIT PRINCE	1000	HAUBOURDIN	FRANCE
FV EDIFICIO 25 VIVIENDAS PROCANVAL (EDIF. AQUAVETUS)	1000	CORDOBA	SPAIN
FV COMISARIA DE COLLADO VILLALBA	1000	COLLADO VILLALBA	SPAIN
FV EL WATAN	1000	KOUBA	ALGERIA
FV MOSSOS DESCUDRA TARRACO	969	AMPOSTA	SPAIN
FV EDIFICIO OFICINAS SAN FERNANDO DE HENARES	950	SAN FERNANDO DE HENARES	SPAIN
FV ECOLE EMD MARSEILLA	900	MARSEILLE	FRANCE
FV EDIFICIO DE OFICINAS PUERTO DE ROQUETAS	900	ROQUETAS DE MAR	SPAIN
FV AYUNTAMIENTO OROPESA	879	OROPESA	SPAIN
FV BOO DE PIELAGOS. VIVIENDAS 17	835	BOO DE PIELAGOS	SPAIN
FV AMENCER	784	VIGO	SPAIN
FV 270 HIGH WAY CHATSWOOD	783	SYDNEY	AUSTRALIA
FV FITONOVO	753	LA ALGABA	SPAIN
FV PARQUE GOYA	750	ZARAGOZA	SPAIN
FV NODOTEC	740	ALMERIA	SPAIN
FV OFICINAS ENINTER	725	CORNELLA	SPAIN
FV RIO HONDO	720	PUERTO RICO (CHICAGO)	USA
FV OFICINAS RECICLARTE	720	ZARAGOZA	SPAIN
FV DESSIO VIPOBRA	710	DESSIO	SPAIN
FV AIRY	710	NEW JERSEY	USA
FV SISTEMATRE	710	CORSICO	SPAIN
FV EDIF OFIC GOCERTRANS	677	ALCALA DE GUADAIRA	SPAIN
FV CALLE ULISES 81-96	672	MADRID	SPAIN
FV EDIFICIO OFICINAS ARGENTUM	670	SALTERAS	SPAIN
FV ARQUITECTO RATTI	653	MILANO	SPAIN
FV CEU	650	CHICAGO	USA
FV HABITAÇÃO FAMILIAR ARAVACA	647	ARAVACA	SPAIN
FV EDIFICIO MULTIFUNCIONAL EMUSVI	646	Città REAL	SPAIN
FV WINSTON CHURCHILL - LA ROSERAIE	630	ANGERS - FRANCE	FRANCE
FV COMUNE DI PEGOGNAGA	627	PEGOGNAGA	ITALY
FV EDIFICIO DE OFICINAS PARC BIT PARCEL A 9C	600	PALMA DE MALLORCA	SPAIN
FV ALVINESA	600	DAIMIEL	SPAIN
FV LECO-CITÉ PERISCOLAIRE	590	MULHOUSE	FRANCE
FV REHABILITACIÓN CASA DEL MAR	583	SOTO DEL BARCO	SPAIN
FV VOGHERA	573	VOGHERA	ITALY
FV HYTORIC I	571	NEW JERSEY	USA
FV POLICLINICO MAPFRE MALAGA	557	MALAGA	SPAIN
FV SAN JOSE	549	SAN JOSE	USA
FV ESTACION GOYA ZARAGOZA	542	ZARAGOZA	SPAIN
FV AVD TIBIDABO 15	539	BARCELONA	SPAIN
FV AEROPUERTO DE CASTELLON	538	CASTELLON	SPAIN
FV REHABILITACIÓN JUAN DE LA COSA	512	SANTANDER	SPAIN
FV CASAL DE FESTES VILA-REAL	500	VILA-REAL	SPAIN
FV GALMAN RESIDENCE	430	PHILADELPHIA	USA
FV KRION 3M	400	MADRID	SPAIN
FV TAHANTO	375	BOSTON	USA
FV RED BANK	350	NEW JERSEY	USA
FV CRITERION	350	LOS ANGELES	USA
FV FORGE VALLEY	330	PHILADELPHIA	USA
FV RUNAWAY VISTA	300	LOS ANGELES	USA
FV KRION ROMA 18	274	ROME	ITALY
FV KRION ECOLE LE PLESSIS TREVIS	209	PARIS	FRANCE
FV SULLA	200	NEW JERSEY	USA

Project	m <sup>2</sup>	City	Country
FV KRION MAISON SARL LAMO	157	LA BAULE	FRANCE
FV SHOPPERS II	155	VANCOUVER	CANADA
FV KRION BERSHKA PRECIADOS	150	MADRID	SPAIN
FV IMBEAU RESIDENCE	100	CALGARY	CANADA
FV SHOPPERS I	70	CALGARY	CANADA
FV MANHATTAN BEACH	60	LOS ANGELES	USA



## How to get a budget of a butech system?

- Come to one of our stores/ distributors, where you will be attended by our professionals, who will show you the products that best suit your needs.
- To provide you with the best service, you should provide us the plans of the project and fill a study sheet customized to your product.
- Once delivered the plans and the sheet correctly completed, from the Technical Department of butech, a first budget will be done.
- In less than 15 days, the same professional who attended you will deliver the budget.
- In case of acceptance, and if you wish, you will receive the visit of one of our technicians for the preparation of the final budget.

# Spain Showrooms

<b>Álava</b>	JORGE FERNÁNDEZ	Vitoria-Gasteiz	Polygono de Jundiz. Paduleta, 53	+34 945 244 250	+34 945 229 321
	JORGE FERNÁNDEZ	Vitoria-Gasteiz	Los Herrán, 30	+34 945 254 755	+34 945 259 668
<b>Albacete</b>	PORCELANOSA	Albacete	Avda. Gregorio Arcos, 32 (Polygono Campollano)	+34 967 243 658	+34 967 193 465
<b>Alicante</b>	AZULEJOS JAVEA	Javea	Liverpool, 4	+34 965 791 036	
	ELDECO	ALTEA	CTRA. N-332 PARTIDA CAP. BLANCH, 38A	+34 966 874 360	+34 966 873 543
	NOVA RECAL	DENIA	AVDA. ALCOY, 2	+34 965 786 034	
	SANEAMIENTOS COLON	ALCOY	AVDA. DE LA ALAMEDA, 10	+34 965 331 891	+34 965 524 210
	PORCELANOSA	Alicante	Polygono Las Atalayas, Parcela VI. Calle del Franco	+34 965 109 561	+34 965 106 965
	PORCELANOSA	Elche	Avenida Alicante, 105	+34 966 610 676	+34 966 610 700
	PORCELANOSA	San Juan	Carretera Valencia, km 88	+34 965 656 200	+34 965 655 644
<b>Almería</b>	PORCELANOSA	Almería	Avenida Mediterráneo, 2º tramo	+34 950 143 567	+34 950 142 067
	PORCELANOSA	Vicar	Parque Comercial Viapark, parcela 1	+34 950 325 575	+34 950 338 651
<b>Asturias</b>	PORCELANORTE S.L.	Gijón	Menéndez Pelayo 30	+34 984 396 462	
	PORCELANOSA	Oviedo	Polygono Espíritu Santo. Calle Dinamarca, s/n	+34 985 791 526	+34 985 985 963
<b>Avila</b>	PAVIMARSA	Avila	Pol. Ind. Vicozano - Parcela 2	+34 920 259 820	+34 920 259 821
<b>Badajoz</b>	GALLERY CERAMIC	Badajoz	Carretera N-V Madrid-Lisboa, km 399	+34 924 229 144	+34 924 229 143
	MUNDO OBRAS	Zafra	Polig. Industrial Los Caños c/ Bodion, 27	+34 924551264	+34 924551264
	PORCELANOSA	Mérida	Avenida Reina Sofía, 8	+34 924 330 218	+34 924 330 315
<b>Baleares</b>	MACODOR	Cala d'Or - Mallorca	Carretera Calonge - Cala d'Or, km 1,5	+34 971 658 210	
	MAGATZEM SES FORQUES	Llucmajor - Mallorca	Calle Doctor Fleming, 10	+34 971 662 114	+34 971 662 816
	PORCELANOSA	Inca - Mallorca	Pagesos, s/n. Polygono Inca	+34 971 507 650	+34 971 507 656
	PORCELANOSA	Manacor - Mallorca	Carrer Via Palma, 102	+34 971 554 502	
	PORCELANOSA	Palma de Mallorca - Mallorca	Gran Via Asima, 21. Polygono Son Castelló	+34 971 430 667	+34 971 297 094
	PORCELANOSA	Sant Antoni de Portmany - Ibiza	Avd. Llauradors, 7 . Polygono Montecristo	+34 971 317 292	+34 971 317 293
	PORCELANOSA	Sóller - Mallorca	Carrer del Mar, 193	+34 971 630 219	
<b>Barcelona</b>	AMARGANT	Pineda de Mar	Carrer Santiago Rusiñol, 96	+34 937 671 416	+34 937 627 488
	AMARGANT	Sant Pol de Mar	Passeig Parc, 1	+34 937 600 112	+34 937 600 411
	ANTONI PONT	Gironella	Carrer Farguell, 31	+34 938 228 088	+34 938 250 786
	AZULEJOS SAN ANDRES	Barcelona	Plaça Mossen Clapes, 2-3	+34 933 455 102	+34 933 461 015
	COMERCIAL MAESTRO CANET	Canovelles	Polygon Can Castells, nau 7-8	+34 938 466 568	+34 938 409 216
	COMERCIAL SOLSAN	Palau Solita i Plegamans	Cami Reial, 109	+34 938 648 125	+34 938 649 617
	COMERCIAL STC	Sant Sadurní D'Anoia	Rambla Generalitat, 59	+34 931 593 137	+34 931 615 015
	CONSAN	Santpedor	Pol. Ind. Les Verges	+34 938 320 669	+34 938 320 669
	CORRETJA	Vic	Carrer Mas de Bigas, 8-26	+34 938 854 261	+34 938 894 733
	GARRO	Sant Boi de Llobregat	Carretera Sta. Creu de Calafell, km 10,7	+34 936 545 952	+34 938 400 620
	HJO DE FERNANDO ROCA	Molins de Rei	Carrer del Pla, 9	+34 936 681 434	+34 936 801 458
	JOAN DOT	Torelló	Carrer Ter, 50	+34 938 504 646	+34 938 504 286
	JODUL	Taradell	Carretera de Vic, km 5,8	+34 938 800 800	+34 938 126 054
	LOFT CUINA	Cornellà	Carrer La Miranda, 6-8	+34 934 743 793	+34 934 741 305
	MA-CO	Cubelles	Carrer Penedès-Carrer La Selva Pol.Ind Les Salines	+34 938 954 141	+34 938 954 142
	MARESME GRES	Mataró	Carrer Sant Isidor, 78	+34 931 615 015	
	MATERIALS CASSERRES	Casseres	San Rafael	+34 938 213 770	
	ORMAT	Cabrera de Mar	Carretera de Vilassar-Argentona km.1	+34 937 591 139	+34 937 502 076
	PLANELL	Calaf	Carretera Manresa km 31	+34 938 698 750	+34 938 600 181
	PLANELL	Vilanova del Camí	Carretera Vilafranca 108-111	+34 938 060 240	+34 938 060 239
	ROSA JORDANA RABETLLAT	Mataró	Carrer de Montserrat, 7	+34 937 903 089	+34 937 903 089
	SUMCO	St. Pere de Ribes	Carretera de Barcelona, C-246 km. 42,4	+34 938 933 066	+34 938 936 004
	PORCELANOSA	L'Hospitalet de Llobregat	Ciències, 65. Gran Via l'Hospitalet	+34 932 642 500	+34 932 007 036
<b>Burgos</b>	BIGMAT	Burgos	Alcalde Martín Cobos, 15. Nave 5 y 6	+34 947 485 153	+34 947 483 941
	GRUPO DISMAR DUERO	Aranda de Duero	Avenida Portugal, Parcela 17	+34 947 513 281	+34 947 513 349
	JORGE FERNÁNDEZ	Miranda de Ebro	Camino Fuente Basilio, s/n	+34 947 323 351	+34 947 314 589
<b>Cáceres</b>	PORCELANOSA	Cáceres	Avenida Juan Pablo II, 130	+34 927 236 337	+34 927 236 205
	BIGMAT	Moraleja	Avenida Extremadura, 26	+34 927 515 198	+34 927 147 266
	GEMAT	Plasencia	Avda. Ambroz, 5-7	+34 927316828	

# Spain Showrooms

<b>Cádiz</b>	ALMECOR	Olvera	Avda. Julian Besteiro, 29	+34 956 120 776	+34 956 120 776
	AZULGRIF	Villamartín	Calle Rosario, 9	+34 956 730 687	+34 956 730 911
	DOCURRI	Ubrique	Paseo del Prado 38-40	+34 956 462 263	+34 956 462 623
	PORCELANOSA	Algeciras	Carretera de Málaga, km 109	+34 956 635 282	+34 956 635 285
	PORCELANOSA	El Puerto de Santa María	Polígono El Palmar. Carretera Madrid-Cádiz, km 653,2	+34 956 540 084	+34 956 872 464
	PORCELANOSA	Jerez de la Frontera	Parque Empresarial, Av. De la Ilustración , 1	+34 956 187 160	+34 956 302 904
	PORCELANOSA	San Fernando	Polígono Tres Caminos, s/n	+34 956 592 360	+34 956 884 677
<b>Cantabria</b>	PORCELANOSA	Santander	Avenida Parayas, s/n	+34 942 352 510	+34 942 352 638
	PORCELANOSA	Torrelavega	Boulevard Demetrio Herrero, 1	+34 942 835 026	+34 942 881 787
<b>Castellón</b>	PORCELANOSA	Castellón de la Plana	Asensi, 9	+34 964 239 162	+34 964 239 930
	PORCELANOSA	Villarreal	Carretera Vila-real-Puebla de Arenoso (CV-20) km 0,7	+34 964 506 800	+34 964 525 418
	PORCELANOSA	Vinaroz	Carretera N-340, km 1.050,1	+34 964 400 944	+34 964 400 650
<b>Ceuta</b>	BAEZA	Ceuta	Ampliación Muelle de Poniente, 96	+34 956 511 312	+34 956 511 309
<b>Ciudad Real</b>	PORCELANOSA	Ciudad Real	Carretera de Carrion, 11	+34 926 251 730	+34 926 255 741
<b>Córdoba</b>	AUDOS CERÁMICAS,S.L.	Lucena	Ejido Plaza de Toros,35	+34 957 516 572	
	Comercio de Material de Construcción y transportes	Castro del Rio	Ronda de Jesús, 68	+34 957372775	+34 957372775
	PORCELANOSA	Córdoba	Carretera N-IV, km 404. Polígono de Torrecilla	+34 957 760 024	+34 957 760 123
<b>Cuenca</b>	ALMACENES PÁÑOS	Villanueva de la Jara	Camino de Rubielos, 8	+34 967 498 000	+34 967 498 000
	MATERIALES DE CONSTRUCCION MARTINEZ ORTEGA	Casas de Haro	Calle Dos de Mayo, 28	+34 969 380 708	+34 969 380 708
	VICENTE DE LOS RIOS	Tarancón	Avda. del Progreso, 19	+34 969 321 323	+34 969 321 334
	VICOSAZ	Cuenca	Hermanos Becerril, 6 bajo	+34 969 233 200	+34 969 234 475
<b>Gerona</b>	ARC ARBUCIES CERAMIQUES	Arbucies	Pol. Ind. Cal Xic-Parc, 4	+34 972 162 364	+34 972 860 954
	BRECOR SL	Blanes	Carretera Tordera,79. Blanes	+34 972 336 062	+34 972 358 482
	CARMONA	Lloret de Mar	Carretera de Lloret_Vidreres 2,1	+34 972 372 710	+34 972 349 763
	FERRER CERVIA	Carrià de Ter	Avinguda de França, 192	+34 972 173 442	+34 972 173 456
	FRIAS MATERIALS	Vila-sacra	Carrer Castello, 72	+34 972 670 073	+34 972 673 071
	FULCARA BRUGUE XAVIER	Salt	Carrer Rafael Masó, 56	+34 972 234 591	+34 972 402 284
	GINESTA	Sant Feliu de Guixols	Carrer Santa Magdalena, 11	+34 972 320 529	+34 972 321 616
	GIROP	Girona	Carrer Llora, 5	+34 972 393 200	+34 972 393 071
	MATERIALES CREIXELL	Esclanyà Begur	Carrer Palafrugel Regencos. Polígono industrial Riera Esclanya, 1	+34 972 300 628	+34 972 610 772
	MERCAMAT	Mont-ras	Carretera C-31 km. 329,8	+34 972 612 027	+34 972 302 146
	OLIVERAS	Cornellà del Terri	Carretera de Girona a Banyoles km 12,8	+34 972 594 131	+34 972 594 552
	OLIVERAS	Figueres	Carretera N-II km 759	+34 972 672 259	+34 972 672 255
	OLIVERAS	Les Presses	Pol. Ind. Les Presses. Parcel-la 20	+	

# Spain Showrooms

<b>La Rioja</b>	RIOJACER	Logroño	Avenida de Burgos, 43-45	+34 941 286 021	+34 941 202 271
<b>Las Palmas</b>	PORCELANOSA PORCELANAS Y PAVIMENTOS CANARIOS	Las Palmas de Gran Canaria	Avenida Mesa y López, 61	+34 928 472 949	+34 928 472 944
<b>León</b>	Diseñarte Bierzo, S.L.	Ponferrada	Avda/ Galicia 380	+34 987455870	
<b>Lérida</b>	J. FARRÉ	Balaguer	Carrer Urgell, 39	+34 973 445 765	+34 973 445 072
	MATERIALS GERMANS MAURI	Lleida	Carrer Princep de Viana, 36	+34 973 232 139	+34 973 247 943
	MATERIALS JORDI VILAR	Solsona	Carretera Manresa, s/n km.50	+34 973 482 077	+34 973 482 373
	MATERIALS PIRINEU	La Seu d'Urgell	Carretera de Lleida, 28	+34 973 351 850	+34 973 353 410
	PRETENSADOS RIBERA	El Pont de Suert	Carretera N-230 km 124,5	+34 973 690 063	+34 973 690 400
	PRETENSADOS RIBERA	Vielha	Carretera França, 40 (Mig Aran)	+34 973 641 460	+34 973 642 271
	PROMOCION DE PREFABRICADOS SL PMP	Lleida	Ivars d'Urgell, 20. P.lnd Neoparc	+34 973 603 954	+34 973 603 950
	PROMOCION DE PREFABRICADOS SL PMP	Mollerusa	Avgda. Canal, 8, baixos	+34 687 542 944	
	PROMOCION DE PREFABRICADOS SL	Lleida	Ivars d'Urgell, 20. P.lnd Neoparc	+34 973 603 954	+34 973 603 950
	PROMOCION DE PREFABRICADOS SL	Mollerusa	Avgda. Canal, 8, baixos	+34 687 542 944	
	PUJOL ELEMENTS	Lleida	Carrer Tarragona, 40	+34 973 202 350	+34 973 203 113
	TARREGA NOUMAG	Tarrega	Calle Júpiter,7 (Pol. Ind. La Canaleta)	+34 607 497 330	
<b>Lugo</b>	ALMACENES BAHIA, S.L.	Foz	Maestro Lugilde, 6	+34 982 140 957	+34 982 132 065
	ARIAS NADELA, S.L.	Lugo	Tolda de Castilla, s/n	+34 982 245 725	
	ESTABLECIMIENTOS REY, S.L.	Xove	Avda. Diputación, 88	+34 982 592 006	+34 982 592 071
	SONIA GOMEZ GOMEZ	Chantada	Cl Juan XXIII, Bajo 22	+34 982441249	+34 982440331
<b>Madrid</b>	PORCELANOSA	Alcobendas	Parque Rio Norte	+34 916 623 232	+34 916 624 607
	PORCELANOSA	Alcorcón	Carretera N-V, km 15,5. Parque Oeste de Alcorcón	+34 916 890 172	+34 916 890 170
	PORCELANOSA	Leganés	Avenida Recomba, 13. Polígono la Laguna Salida 53 - M50	+34 914 819 200	+34 916 930 292
	PORCELANOSA	Madrid	Alcalá, 514	+34 917 545 161	+34 917 545 555
	PORCELANOSA	Madrid	Ortega y Gasset, 62. Esquina Conde Peñalver	+34 914 448 460	+34 914 025 111
<b>Málaga</b>	MARMOLERA RONDEÑA S.L.U.	Ronda	CL GUADALEVIN 12. POL. EL FUERTE	+34 952 872 225	
	MATERIALES MUÑOZ PEREZ SL	Vélez-Málaga	Calle Ferrocarril, 2	+34 952 507 879	+34 952 504 760
	PORCELANOSA	Málaga	Avenida Velázquez, 77	+34 952 241 375	+34 952 240 092
	PORCELANOSA	Marbella	Ricardo Soriano, 65	+34 952 826 868	+34 952 822 880
<b>Melilla</b>	FERRETERIA MODERNA E HIJOS, S.L.	Melilla	Paseo Marítimo Mir Berlanga, 19	+34 952 671 144	+34 952 691 285
<b>Murcia</b>	AZULEJOS ZAPATA PEÑALVER SL	El Algar	Ctra. La Palma s/n	+34 968 135480	+34 968 135000
	PORCELANOSA	Caravaca de la Cruz	Avenida Carretera Granada, 20	+34 968 705 647	+34 968 705 648
	PORCELANOSA	Lorca	Carretera de Granada, 127. Polígono Los Peñones	+34 968 478 130	+34 968 470 820
	PORCELANOSA	Murcia	Avenida Juan de Borbón, s/n. Parque Comercial Thader	+34 968 879 527	+34 968 831 725
<b>Navarra</b>	CERÁMICAS CECILIO CHIVITE	Cintruénigo	Pol. Ind. s/n. Variante N-113	+34 948 811 973	+34 948 815 249
	MONTEJO CERÁMICAS	Multiva Baja	Polygono Carretera Tajonar, Calle-A, Naves 2- 4	+34 948 239 065	+34 948 230 503
	MONTEJO CERÁMICAS	Pamplona	Navas de Tolosa, s/n	+34 948 224 000	+34 948 226 424
	MONTEJO CERAMICAS	Tudela	Carretera Tudela - Tarazona, Polígono Centro de Servicios de Tudela	+34 948 848 365	+34 948 848 573
<b>Orense</b>	BLANCO QUINTAS	Ourense	Nosa señora da Sainza, 48	+34 988 391 114	+34 988 250 413
	JOSE R. PITEIRA, S.L.	Carballiño	Avenida Julio Rodríguez Soto, 63	+34 988 271 071	+34 988 274 780
<b>Palencia</b>	PORCELANOSA CANTALAPIEDRA	Palencia	Calle La Puebla, nº 2	+34 979 706 421	+34 979 702 652
<b>Pontevedra</b>	ALMACENES CANDA, S.L.	Lalín	Calle Monserrat, 36-39	+34 986 780 184	+34 986 782 301
	ARCOLAR 2000, S.L.	Silleda	Rua de Venezuela, 40	+34 986 580 114	+34 986 592 513
	BLANCO QUINTAS	Mos	Monte Faquira s/n	+34 986 288 041	+34 986 486 316
	PREFABRICADOS DENA, S.L.	Dena - Meaño	Rua de Galicia, 24	+34 986 743 121	+34 986 745 131
	PREFABRICADOS DENA, S.L.	O Grove	Calle Alexandre Boveda, 82	+34 986 702 041	+34 986 733 415
	SANEAMIENTOS ROSALES, S.L.	Seixo, Marín	Avenida Doctor Otero Ulloa, 1	+34 986 702 041	+34 986 702 080
	SANEAMIENTOS ROSALES, S.L.	Vigo	García Barbón, 139 - B	+34 986 228 806	
<b>Salamanca</b>	PORCELANOSA	Villares de la Reina	Polygono Villares. Carretera Salamanca - Valladolid, km 2,2	+34 923 243 811	+34 923 123 414
<b>Segovia</b>	SEGOCER	El Espinar	Carretera Madrid - La Coruña, km 64	+34 921 172 426	+34 921 171 828
	SEGOCER	Segovia	José Zorrilla, 134	+34 921 444 122	
<b>Sevilla</b>	HERNANDEZ CARBALLO	Lora del Rio	Betis s/n	+34 955 800 473	+34 955 801 439
	PORCELANOSA	Sevilla	Calle Tipografía, s/n. Polígono Industrial La Negrilla. (Autovía A-92 dirección Granada)	+34 954 260 540	+34 954 528 681
	PORCELANOSA	Tomares	San Roque, s/n. Polígono El Manchón	+34 954 152 792	+34 954 153 188

# Spain Showrooms

<b>Soria</b>	MC ODORICIO	Soria	Polígono las Casas-II. Calles A y J, Parcela 201	+34 975 233 228	+34 975 232 188
<b>Sta. Cruz Tenerife</b>	AFELSA	Los Llanos de Aridane	Las Rosas, s/n	+34 922 461 112	+34 922 461 166
	AFELSA	Santa Cruz de la Palma	Abenguareme, 3	+34 922 412 143	+34 922 420 012
	PORCELANOSA PORCELANAS Y PAVIMENTOS CANARIOS	San Miguel	Avenida Claudio Delgado Díaz, 59	+34 649298137	
	PORCELANOSA PORCELANAS Y PAVIMENTOS CANARIOS	Santa Cruz de Tenerife	Avenida 3 de Mayo, 18	+34 922 209 595	+34 922 209 596
<b>Tarragona</b>	COMERCIAL LLAURODO	Mora La Nova	Carretera de Tivissa, s/n	+34 977 400 387	+34 977 400 052
	COMERCIAL STC	El Vendrell	Carretera Terrassaires, 1	+34 977 661 951	
	COMERCIAL STC	Reus	Plaça De les Oques, 8	+34 977 312 502	+34 977 317 211
	CONSTRUCCIONS CIURO	Roda de Bara	Acceso a Roda de Bara km 1	+34 977 802 951	+34 977 802 012
	EXPOMAT ALCOVER	Alcover	Carretera Tramuntana, s/n (Polígono Roques Roges)	+34 977 760 476	
	MATERIALS GIBERT	Tarragona	Carrer Francesc Macià, 4	+34 977 242 363	
	MATERIALS GIBERT	Tortosa	Carretera Gandesa km 3,5	+34 977 500 306	+34 977 501 550
	MONSERRATE ESTIL CERAMIC	Cambrils	Polígono industrial Belianes nau 5. Carretera Cambrils-Montbrio	+34 977 364 900	+34 977 364 953
	RAMON MAGRINA BATALLA	Valls	Carrer Montblac, 14	+34 977 600 210	+34 977 603 302
	VIUDA DE ANTONIO FONT	El Vendrell	Carrer de Valls 12	+34 977 660 794	+34 977 662 217
<b>Teruel</b>	GARGON	Teruel	Polígono La Paz, Parcela 143-149	+34 978 609 661	+34 978 607 980
<b>Toledo</b>	BIGMAT	Illescas	Avda de las Naciones, 17	+34 925 532 011	+34 925 513 055
	PORCELANOSA	Toledo	Pol. Ind. Santa María de Benquerencia, Calle del Río Marchés, 123	+34 925 232 402	+34 925 232 406
<b>Valencia</b>	PORCELANOSA	Albuixech	Avenida del Mediterráneo, Parcela 6. Polígono industrial del Mediterráneo	+34 961 417 227	+34 961 402 389
<b>Valencia</b>	PORCELANOSA	Sedavi	Avenida Mediterráneo, s/n. Zona Comercial de Sedaví	+34 963 185 021	+34 963 180 094
	PORCELANOSA	Valencia	Colón, 56	+34 963 530 230	+34 963 531 688
<b>Valladolid</b>	PORCELANOSA CANTALAPIEDRA	Valladolid	Carretera de Soria A-24, km 5,5	+34 983 217 010	+34 983 200 921
<b>Vizcaya</b>	BILBU	Amorebieta	Barrio Boroa, s/n	+34 946 731 158	+34 946 733 265
	BILBU	Bilbao	Iturriaga, 78	+34 944 113 018	+34 944 128 637
	BILBU	Bilbao	Alameda Recalde, 39 - 41	+34 944 218 625	+34 944 218 879
<b>Zamora</b>	GONZALEZ Y GONZALEZ BERMAR S.L.	Benavente	Polígono Industrial Benavente 2	+34 980 633 484	+34 980 637 552
	Pavirema, S.L.	Toro	CR POZO ANTIGUO, KM 0,5	+34 980 690 772	
	PORCELANOSA	Zamora	Avenida Cardenal Cisneros, s/n	+34 980 519 283	+34 980 529 404
<b>Zaragoza</b>	PORCELANOSA	Zaragoza	Parque Comercial Puerto Venecia	+34 976 930 800	+34 976 930 603
	PORCELANOSA	Zaragoza	Autovía de Logroño, km 2	+34 976 403 131	+34 976 300 094
	PORCELANOSA	Zaragoza	Plataforma Logística PLA-ZA, Calle Taormina, 2	+34 876 269 500	+34 876 269 389

# International Showrooms

Albania	ALBA CERAMICA	Tirana	+355 4 830 0084	+355 4 830 0084
	ALBA CERAMICA	Tirana	+355 4 22 33 817	+355 4 22 33 817
Alemania	CERAMICAS OHG	München	+49 (0) 89 318 280 0	+49 (0) 89 318 280 20
	CROONEN FLIESENHANDEL GmbH	Hamburg - Lurup	+49 (0) 40 / 83383 377	+49 (0) 40 / 83383 301
	FLIESEN THOMAS Fliesengroßhandel GmbH	Burgstädt	+49 (0) 3724 / 1856 0	+49 (0) 3724 / 1856 70
	Gö-TZ & MORIZ GmbH	Freiburg	+49 (0) 76 145 180	+49 (0) 76 145 711 2
	J. N. KÖ-BIG GmbH	Frankfurt	+49 069 405 00 36	+49 069 405 00 370
	J. N. KÖ-BIG GmbH	Koblenz	+49 (0) 26 198 169 20	+49 (0) 26 198 169 10
	J. N. KÖ-BIG GmbH	Mainz	+49 061 316 943 10	+49 061 316 942 75
	J. N. KÖ-BIG GmbH	Wiesbaden-Biebrich	+49 (0) 611 27810	+49 (0) 611 25674
	MÜHL 24 - Kranichfeld	Kranichfeld	+49 (0) 36 450 330	+49 (0) 36 450 332 89
	SCHMIDT-RUDERSDORF	Bergisch Gladbach	+49 (0) 2204 / 4007 0 771	+49 (0) 3320 / 854715
	SCHMIDT-RUDERSDORF	Bonn-Busendorf	+49 02 28 - 55 916-0	
	SCHMIDT-RUDERSDORF	Leverkusen	+49 02 14 - 8 68 13 0	+49 02 14 - 8 68 13 13
	SCHMIDT-RUDERSDORF	Würselen	+49 0 24 05 - 41 38 50	+49 0 24 05 - 41 38 55
	TAXIS	Bruchsal	+49 (0) 72 518 005 0	+49 (0) 72 518 005 40
	TAXIS	Crailsheim	+49 (0) 7951 301 0	+49 (0) 7951 301 100
	TAXIS	Kehl / Rhein	+49 (0) 78 519 383 16	+49 (0) 78 519 383 20
	TAXIS	Reutlingen	+49 (0) 71 219 884 0	+49 (0) 71 219 884 40
	TAXIS	Stuttgart	+49 (0) 71 189 003 121	+49 (0) 71 189 003 104
	TAXIS	VS-Schwenningen	+49 (0) 77 206 927 0	+49 (0) 77 206 927 35
	W. LINNENBECKER	Bad Salzuflen	+49 (0) 5222 / 5301 221	+49 (0) 5222 / 5301 209
	W. LINNENBECKER	Berlin	+49 (0) 30 / 756 888	+49 (0) 30 / 756 88756
	W. LINNENBECKER	Bottrop	+49 (0) 2041 / 7958 13	+49 (0) 2041 / 7958 10
	W. LINNENBECKER	Dortmund	+49 (0) 231 / 562 090 22	+49 (0) 231 / 562 090 88
	W. LINNENBECKER	Erkrath	+49 (0) 211 / 92503 19	+49 (0) 211 / 92503 34
	W. LINNENBECKER	Meschede	+49 (0) 291 / 952 82 21	+49 (0) 291 / 952 82 82
	W. LINNENBECKER	Münster	+49 (0) 251 / 979 12 21	+49 (0) 251 / 979 1220
	W. LINNENBECKER	Ronnenberg / Empelde	+49 (0) 511 / 438 90 36	+49 (0) 511 / 438 90 49
Angola	PORCELANOSA ANGOLA	Luanda	+244 928463705	+244 222372374
Arabia Saudi	KHALED ALANSARI	Al ahsa (Al-Sharqiyah)	+966 3 5892888	+966 3 5817043
	MANART AL ANDALOS EST	Jeddah	+966 2 629 3402	+966 2 629 3416
	MANART AL ANDALOS EST	Riyadh	+966 1 282 1500	
Argelia	NOVACASA	Argel	21550737	
	PORCELANOSA ORAN	Oran	555203111	
Argentina	BARUGEL, AZULAY & CIA	Buenos Aires	+54 11 4704 1500	
	BLAISTEN S.A.	Buenos Aires	+54 11 463 620 00	+54 11 463 614 86
Armenia	SACO & ARARAT-SALON BOMOND	Yerevan	+37 410 55 08 99	+37 410 51 75 81
Australia	EARP BROS TILE	Newcastle	+61 2 4925 4555	+61 2 4962 2926
	EARP BROS TILE	Sydney	+61 2 9410 3222	+61 2 9410 2011
	EARP BROS TILE	Melbourne	+61 3 9328 8598	+61 3 9348 9996
	ITALIA CERAMICS	Glynde, Adelaide	+61 8 8336 2366	+61 8 8336 9016
	MIDDLE SWAN TRADING	Osborne Park	+61 8 9445 1777	+61 8 9446 3127
Austria	BEINKOFER	Hall	+43 (0) 5223 5046910	+43 (0) 5223 5046919
	BEINKOFER	Linz	+43 732 776 543 0	+43 732 776 543 60
	BEINKOFER	Linz	+43 (0) 732 6552550	+43 (0) 732 6552550
	BEINKOFER	Salzburg	+43 (0) 662 469096920	+43 (0) 662 469094289
	BEINKOFER	Wels	+43 (0) 7242 25253210	+43 (0) 7242 25253250
	BEINKOFER	Wien	+43 (0) 1 52242200	+43 (0) 1 522422020
	BEINKOFER	Wien	+43 (0) 1 61516006900	+43 (0) 1 61516006909
	FLIESEN CENTER TIROL	Innsbruck	+43 (0) 512 364444	
	FLIESENFÜHRER HANDELS GmbH	Wien	+43 1 5971 533 0	+43 1 5971 533 28
	TENNE	Bruck/Mur	+43 3862 588 44	+43 3862 588 44-22
	TENNE	Graz	+43 316 262 524 0	+43 316 262 524 22

# International Showrooms

Austria	TENNE	Leibnitz	+43 3452 707-65	+43 3452 707-29
	TENNE	Vösendorf	+43 1 699 33 33	+43 1 699 33 22
	TENNE	Wien	+43 1 20 20 520	+43 1 20 20 520-20
Azerbaijan	AKSESUAR INSAAT	Baku	+994 12 546 74 86	+994 12 546 74 86
	AKSESUAR INSAAT	Baku	+994 12 596 25 48 · +994 12 497 31 03	+994 12 447 43 83
Bahrain	AL ABAS GALLERY	Manama	+973 741 919	+973 741 747
Bangladesh	Nupami	Dhaka	8801793567404	
Bélgica	PGB CERAMICA NV	Heist-op-den-Berg	+32 (0) 15 253366	+32 (0) 15 253367
	VAN HOUTVEN TEELS	Heist-op-den-Berg	0032 (0) 15 241433	
	Vangeneugden Plastics nv	Lommel	+32 11 55 33 11	
	Gavra	Geel	+32 14 58 92 62	
	Gavra	Geel	+32 14 58 92 62	
	DE GANCK	Merelbeke	32 092305730	
	DE GANCK	Beveren	32 03/775.31.06	
	DE GANCK	Paal-Beringen	32 011/42.24.44	
	DE GANCK	Eke	32 09/385.63.01	
Bielorrusia	DOMIART	Minsk	+375 17 259 60 33	+375 17 259 6212
	POLCAR IMPEX	Gomel	+375 2327 76919	+375 2327 76757
	POLCAR IMPEX	Minsk	+375 1721 78785	+375 1721 75632
Bolivia	ELEMENTO DISEÑO & ARQUITECTURA	Santa Cruz	+591 3 364 7313	+591 3 347 6226
Bosnia-Herzegovina	BROTIS d.o.o.	Citluk	+387 632 21500	+387 366 50950
	BAGNO, by LUK d.o.o.	Bijeljina	+387 55 228 100	+387 55 228 101
	BAGNO, by LUK d.o.o.	Sarajevo	+387 33 777 888	+387 33 777 889
	TERMO KLIMA d.o.o.	Banja Luka	+387 51 586400	
Brasil	PORCELANOSA BRASIL REVESTIMENTOS LTDA	Campo Largo	+55 (41) 3392 1500	+55 (41) 3392 1400
Bulgaria	NIKMAR	Petrich	359 866 321 111	+359 745 234 64
	NIKMAR	Blagoevgrad	+395 888 143 313	
	NIKMAR	Sofia	+359 2 868 93 95	
	NIKMAR	Sandanski	359 0746 31254	
Canadá	FONTILE DISTRIBUTORS	Vancouver	+604 683 9358	+604 683 6758
	Porcelanosa Calgary	Calgary	(587) 349-2290	
Chile	ATIKA	Santiago de Chile	(56 2) 2488 3000	(56 2) 2488 3001
	BUDNIK HERMANOS S.A.	Santiago de Chile	+562 398 0100	+562 212 3058
	PORCELANOSA	Las Condes	+569 5 653 4306	
China	Porcelanosa Grupo Shanghai	Shanghai	021 54255610	
	Porcelanosa Grupo Tianjin	Tianjin	18622088585	
Chipre	MEPAS LTD	Girne	9039 2815 2964	9039 2815 5651
	THE ENGINEERING AND COMMERCIAL ASSOCIATION (EKA)	Limassol	+357 2585 4444	+357 2585 4545
	MAOURIS OIKOS ET	Egkomi, Nicosia	357 22445555	
Colombia	D.I.M.C.E.	Barranquilla	+57 5 3006208	
	PROSEIN	Bogotá	+57 743 5566	
	PORCELANOSA	Bogotá	+57 310 02 45	
Rep.Checa	LOS KACHLOS	Praha	+420 602 555 444	
	LOS KACHLOS	Brno	+420 545 212 468	
	LOS KACHLOS	Uherské Hradiště	+420 602 565 683	
	DESIGN BATH	Praha		
Croacia	SPINA	Porec	+385 52 451 348	+385 52 434 005
	SPINA	Pula	+385 52 219 002	+385 52 219 118
	SPINA	Rijeka	+385 51 741 300	+385 51 741 298
	SPINA	Dugopolje, Split	+385 21 668 991	+385 21 668 992
	SPINA	Varazdin	+385 42 303 707	+385 42 303 709
	SPINA	Zagreb	+385 13 492 552	+385 13 492 560
	ABC INTERIJEUR	Zagreb	385 01 6055-988	

# International Showrooms

Dinamarca	DANESP FLISEKOMPAGNIET APS	Odense M	+45 661 732 21	+45 661 738 21
	Mosaikhjørnet	Glostrup	45 43 63 39 00	
Ecuador	ARKETIP'S CA	Guayaquil	+593 422 467 52	+593 422 403 96
	ARKETIP'S CA	Quito	+593 422 498 39	+593 225 573 99
	TERRAZOS DE LOS ANDES	Quito	2 241 2284	
EE.UU.	Spanolo Galleria	McAllen	956.905.0244 956.907.5477	9.566.272.522
	PORCELANOSA	Anaheim	+1 714 772 3183	+1 714 772 9851
	PORCELANOSA	San Francisco	+1 415 593 7763	+1 415 593 7664
	PORCELANOSA	San Jose	+1 408 467 9400	+1 408 467 9410
	PORCELANOSA	West Hollywood	+1 310-300-2090	
	PORCELANOSA	Riverside	+1 203 698 7618	+1 203 698 7619
	PORCELANOSA	Miami	+1 305 715 7153	+1 305 592 6999
	PORCELANOSA	Pompano Beach	+1 954 968 7666	+1 954 968 7699
	PORCELANOSA	Atlanta	3057157153	
	PORCELANOSA	Chicago	+1 312 204 6220	+1 312 204 6240
	PORCELANOSA	North Bethesda	+1 301 294 8193	
	PORCELANOSA	Boston	+1 617-963-7666	
	PORCELANOSA	East Brunswick	+1 732 613 1915	+1 732 613 9181
	PORCELANOSA	Paramus	+1 201 712 0556	+1 201 599 1520
	PORCELANOSA	Ramsey	+1 201 995 1310	+1 201 995 1960
	PORCELANOSA	New York	+1 212 252 7370	
	PORCELANOSA	Westbury	+1 516 338 0097	+1 516 338 0098
	PORCELANOSA	Dallas	+1 214 377 2327	+1 214 234 1340
	PORCELANOSA King of Prussia	King Of Prussia	4.847.510.050	4.847.510.047
	PORCELANOSA SEATTLE	Seattle	2.066.738.395	2.066.738.402
Egipto	MAHGOUB TRADING & IMPORTING	El Cairo	+20 2 57 12 565	+20 2 57 39 344
Emiratos Árabes Unidos	GALAXY	Abu Dhabi	+971 2 2222191	+971 2 6354665
	GALAXY	Dubai	+971 42696882	
Eslovaquia	CERSA	Bratislava	421 2 44442833	421244642113
	ELKEM	Kosice	421 055 7281 611	055 7281 617
	VODOARM	Kosice	421 055/6222660	055/6222654
Eslovenia	KEOR d.o.o.	Ljubljana	+386 1 542 14 86	+386 1 542 14 88
	KEOR d.o.o.	Maribor	+386 2 480 54 15	+386 2 471 06 33
	MAVI MARIBOR d.o.o.	Maribor	+386 2 23 50 316	+386 2 23 50 312
	ABC INTERIUR SLOVENIJA	Ljubljana	+386 70 902 248	
	RONZULLO DDO	Ljubljana	386 01 600 30 65	
Estonia	PLAADIPUNKT	Tallinn	+372 650 0720	3726500720
	PLAADIPUNKT	Tartu	3727312444	3727312444
Federacion Rusa	4STYLE	Novosibirsk	+7 (383) 303 15 46	
	ARTISAN	Moscow	+7 (495) 742 40 40	
	ARTISAN	Moscow	+7 (499) 317 13 81	
	BOMOND	Volgograd	+7 (8442) 944 709	
	BOMOND	Grozny	+7 (8712) 224 546	
	DOM APEX	Khabarovsk	(4232) 30 06 88	
	DOM APEX	Vladivostok	+7 (4232) 300 688	
	DOM LAVERNA	St. Petersburg	+7 (812) 329 56 65	
	DOM LAVERNA	St. Petersburg	+7 (812) 327 94 09	
	DOM LAVERNA	St. Petersburg	+7 (812) 7777 030	
	KERAMIIKA & KERAMONGRANIT	Kaliningrad	+7 (4012) 370 460	+7 (4012) 370 460
	MASTER DOM	Moscow	(499) 120 00 77	
	MASTER DOM	Moscow	(499) 120 00 77	
	SALON BOMOND	Rostov Na Donu	+7 (863) 266 50 34	
	SALON BOMOND	Krasnodar	+7 (862) 234 10 75	
	SALON BOMOND	Sochi	+7 (862) 612 317	

# International Showrooms

Federacion Rusa	SALON BOMOND	Pyatigorsk	+7 (873) 975 544
	SALON ELITNOY KERAMIKI NOVUS	St. Petersburg	+7 (812) 325 12 45
	SALON UNDERGROUND	Moscow	+7 (495) 253 69 32
	SALON VALENCIA	Stavropol	+7 (8652) 298 151
	T. D. MODERN	Makhachkala	+7 (8722) 676 569
	ZODIAC	St. Petersburg	+7 812 994 79 49
	ZODIAC	Khimki	+7 (495) 747 31 69
	ZODIAC	Moscow	+7 (495) 984 28 57
	ZODIAC	Moscow	+7 (495) 730 97 97
	ZODIAC	Nizhniy Novgorod	+7 (831) 2160808
	ZODIAC	Moscow	+7 (495) 7214990
	ZODIAC	Mytischi	+7 (495) 221 75 00
	Filipinas	CASA EUROPA INC.	+63 2 519 3515
	Finlandia	LAATTAPISTE	Taguig (Manila)
	LAATTAPISTE	Espoo (Suomenlahti)	+358 (0)207 880 750
	LAATTAPISTE	Hämeenlinna	+358 (0)207 414 770
	LAATTAPISTE	Hyvinkää	+358 (019) 455 830
	LAATTAPISTE	Joensuu	+358 (0)207 880 880
	LAATTAPISTE	Jyväskylä	+358 (0)207 433830
	LAATTAPISTE	Kotka	+358 (0)102 314 100
	LAATTAPISTE	Kouvolan	+358 (0)20 7880 760
	LAATTAPISTE	Kuopio	+358 (0)17-266 3500
	LAATTAPISTE	Lahti	+358 (03) 875 950
	LAATTAPISTE	Lappeenranta	+358 (0)207 880 720
	LAATTAPISTE	Mikkeli	+358 (015) 212 055
	LAATTAPISTE	Oulu	+358 (0)20 7880 780
	LAATTAPISTE	Pori	+358 (0)207 288 320
	LAATTAPISTE	Porvo	+358 (019) 5766767
	LAATTAPISTE	Raisio	+358 0207 288 300
	LAATTAPISTE	Rauma	+358 (0)207 288 310
	LAATTAPISTE	Rovaniemi	+358 (016) 310 403
	LAATTAPISTE	Salo	+358 (02) 733 1494
	LAATTAPISTE	Savonlinna	+358 (015) 522 178
	LAATTAPISTE	Seinäjoki	+358 (0)207 880 700
	LAATTAPISTE	Tampere	+358 (03) 3142 3300
	LAATTAPISTE	Vaasa	+358 (0)207 880 740
	LAATTAPISTE	Vantaa	+358 9 878031
	Francia	ART ET STYLES	+358 9 890832
	ART ET STYLES	Biuglia	+33 (0)495 589 898
	ART ET STYLES	Ajaccio	+33 (0)495 221 999
	PORCELANOSA	Meaux	+33 (0)160 092828
	Porcelanosa Nice	Nice	493041963
	Porcelanosa Perpignan	Cabestany	T:+33677423996
	PORCELANOSA	Mandelieu La Napoule	+33 (0)493 477 360
	PORCELANOSA	Aubagne	+33 (0)442 624 330
	PORCELANOSA	Les Pennes Mirabeau (Plan de Campagne)	+33 (0)442 466 120
	PORCELANOSA	Mondeville	+33 (0)231 820 000
	PORCELANOSA	Chenôve	+33 (0)380 588 701
	PORCELANOSA	Besançon	+33 (0)381 416 363
	PORCELANOSA	Brest	+33 (0)298 025 100
	PORCELANOSA	Nîmes	+33 (0)466 282 780
	PORCELANOSA	Merignac	+33 (0)556 124 848
	PORCELANOSA	Pérols	+33 (0)467 503 600
	PORCELANOSA	Saint Grégoire - Rennes	+33 (0)223 200 808
	PORCELANOSA	Chambray les Tours	+33 (0)247 808 787
	PORCELANOSA	Guerande	+33 (0)240 607 273

# International Showrooms

Francia	PORCELANOSA	Orvault	+33 (0)228 073 950	+33 (0)228 073 957
	PORCELANOSA	Olivet	+33 (0)238 496 961	+33 (0)238 496 969
	PORCELANOSA	Beaucouzé	+33 (0)241 738 100	+33 (0)241 733 721
	PORCELANOSA	Lorient	+33 (0)297 875 000	+33 (0)297 370 607
	PORCELANOSA	Vannes	+33 (0)297 460 292	+33 (0)297 461 210
	PORCELANOSA	Lezennes	+33 (0)320 340 340	+33 (0)320 340 341
	PORCELANOSA	Tigery	01 69 90 90 90	01 49 90 49 01
	PORCELANOSA	Wittenheim	+33 (0)389 570 260	+33 (0)389 570 261
	PORCELANOSA	Vendenheim	+33 (0)388 209 212	+33 (0)388 209 107
	PORCELANOSA	Champagne Au Mont d'Or	+33 (0)478 668 151	+33 (0)478 432 003
	PORCELANOSA	La Chapelle Saint Aubin	+33 (0)243 236 520	+33 (0)243 240 512
	PORCELANOSA	Vert Saint Denis	+33 (0)160 565 747	+33 (0)160 569 080
	PORCELANOSA	Tourville la Rivière	+33 (0)235 650 655	+33 (0)235 650 656
	PORCELANOSA	Montigny - Les Cormeilles	+33 (0)139 311979	+33 (0)139 311492
	PORCELANOSA	Arcueil	+33 (0)149 121 257	+33 (0)149 121 258
	PORCELANOSA	La Roche sur Yon	+33 (0)251 241 217	+33 (0)251 242 399
	PORCELANOSA	Chasseneuil Du Poitou	+33 (0)549 119 787	+33 (0)549 119 788
	PORCELANOSA	Coignières	+33 (0)130 491 280	+33 (0)130 491 328
	PORCELANOSA TOULOUSE SAS	Toulouse	05 34 56 57 60	05 34 56 57 86
	STUDIO PORCELANOSA	Paris	01.42.84.84.00	01.42.84.84.01
Georgia	LUXOR SHOP	Tbilisi	+995 32 2388898	+995 32 2388399
Ghana	ROUGE INTERIORS	Dzorwulu-Accra	+223 302 734752	
Gibraltar	LIFESTYLE DESIGN STUDIO LTD	Gibraltar	35020066390	
Grecia	AURORA BAGNO	Attica	+30 2105 594 520	+30 2105 594 521
	HATZ GROUP	Atenas	+30 2310 752 902	+30 2310 753 564
	PORCELANA	Atenas	210 9607010	210 9607013
	PORCELANA	Atenas	210 5156163	210 5156164
	PORCELANA	Atenas	2299041090	2299041095
	PORCELANA	Ioannina	26510 92735-7	26510 92738
	PORCELANA	Kalamata	2721081900	
	PORCELANA	Kastoria	2467044174	
	PORCELANA	Katerini	2351076941	2351076940
	PORCELANA	Kefalonia	2671068360	26710 68 361
	PORCELANA	Korinthos	2741020080	
	PORCELANA	Larisa	2410 619999	2410 617444
	PORCELANA	Larisa	2410561280	
	PORCELANA	Lefkada	26450 72100	26450 29130
	PORCELANA	Nafplakos	2634038393	26710 68 361
	PORCELANA	Patra	2610524000	2610523532
	PORCELANA	Patra	2610647474	2610242010
	PORCELANA	Rhodes	2241003315	2241003316
	PORCELANA	Serres	2321036157	
	PORCELANA	Thessaloniki	2310474767	2310 474403
	PORCELANA	Thessaloniki	2310700861	2310700861
	PORCELANA	Thessaloniki	2310753003	2310753003
	PORCELANA	Trikala	2351076941	
Guadalupe	GUADELOUPE CERAMIQUE	Baie Mahault	590 266 261	590 266 412
Guayana Francesa	ETS HENRY LE GAC	Cayenne	+594 302 719	+594 300 713
Hong Kong	TAI YICK BUILDING MATERIALS	Kowloon	+852 23 956 670	+852 23 957 831
Hungria	PORCAHUNGARY KFT	Budapest	+36 1 237 08 78	
	APEKER	Budapest	+36 30/678-7390	
Iraq	AKSESUAR INSAAT	Erbil	+964 750 835 0055	+964 66 210 1900
Irlanda	O.B. HEATING, PLUMBING, BATHROOMS & TILES	Cork	+353 0 214 310 000	+353 0 214 310 003
	TILESTYLE LTD	Dublin	+00 353 1 8555200	+00 353 1 8557471

# International Showrooms

Islandia	ALFABORG EH福	Reykjavík - 4	+354 568 6755	+354 568 1277
Israel	AL-KHAYAL (BAYTOUNA)	Bethlehem St. (West Bank)	+972 2 277 7279	+972 2 274 4026
	AMOZI NAGAR IMP.MARK.OGEN LTD	Raanana	+972 9 760 1501	+972 9 711 997
	AS OZ	Jerusalem	+972 2 6483015	+972 2 6781482
	BAR-AMI 1990 LTD	Jerusalem	+972 2 531 3444	+972 2 538 3740
	HEZI BANK	Bney Brak	+972 3 616 6641	+972 4 904 6643
	KAMARIKA	Upper Galily	+972 4 680 1010	+972 4 680 0318
	KIMCHI	Beersheva	+972 8 628 2060	+972 8 623 2369
	TOPOLSKI & CO LTD	Haifa	+972 4 904 0496	+972 4 904 0455
Italia	MIDL-CERAMICHE S.A.S.	Andria	+39 08 835 66466	+39 08 835 49260
	Porcelanosa Bergamo	Bergamo	3903529984	+39 035292085
	Porcelanosa Cassino	Cassino	(+39) 077625142	
	Spazio Libia 3	Milan	T:+39.02.87246767	
	PORCELANOSA	Corsico	+39 02 458 64310	+39 02 458 64415
	PORCELANOSA	Sassuolo	+39 05 368 06677	+39 05 368 02184
	PORCELANOSA	Roma	+39 06 888 9977	+39 06 888 7056
Jersey	PASTELLA GROUP	St. Saviour	01534 870167	01534 723199
Jordania	AYMAN ABDALLAT & PARTNERS CO.	Amman	9619,2277847494	-504523
Kirguizistán	KERAMIN	Bishkek	+996 (312) 51 05 05	
Kosovo	KERASAN	Prishtina	+ 377 45 50 70 99	+381 38 602 667
Kuwait	HASSAN ABUL HASSAN SADIQ	Safat	+965 262 4466	+965 265 1444
Letonia	TORMANIS UN PARTNERI	Riga	+371 784 5361	+371 784 5360
Löbano	GEAHCHAN GROUP	Beirut	+961 1 480520	961 1 496607Â
	PORCELANOSA GROUP BEIRUT	BEIRUT	+961 1 480520	+961 1 496607
Libia	BEN ALI GROUP	Benghazi	612220618	
	MANART AL ANDALOS EST	Berka benhazi	21861229605	218612237328
Lituania	OGRINDA	Vilnius	52136667	52136667
	IRIS LTD	Vilnius	+370 315 55969	+370 315 55968
Malta	ROGER SATARIANO & SONS LTD	Birkirkara	+356 21 442 769	+356 21 497 017
Marruecos	CERAMEX	Casablanca	+212 945 3646166	+212 5223 395363
	FACENOR S.A.	Tanger	+212 39 941 910	+212 39 945 445
	GLOBE CERAMIQUE SA	Casablanca	212522394301	212522394303
	SANITAIRE 2000	Casablanca	+212 22 363 225	+212 22 394 100
Martinica	JOSEPH COTTRELL S.A.	Lamentin	+596 509 810	+596 506 524
Méjico	PORCELANOSA MEXICO - SHOWROOM MASARYK	Interlomas	+ (55) 3605 0064 + (55) 3605 0065	+ (55) 3605 0067
	PORCELANOSA MEXICO - SHOWROOM MASARYK	Méjico DF	(55) 528220 00	(55) 5282 2737
	PORCELANOSA MEXICO - SHOWROOM MASARYK	Valle Dorado	(55) 5831 7340	(55) 2620 0186
Moldavia	PLIMED	Chisinau	+373 2 2501252/54/55/56	+373 2 2716824
Mónaco	Porcelanosa Monaco	Monaco	+33 06 07 93 26 78	
Mongolia	ZUUNNAIMAN SUVRAGA CO.LTD	Ulaanbaatar	976 (11) 341217	976 (11) 341217
Nigeria	PORCELANOSA LAGOS	Victoria Island, Lagos		
Noruega	NORELIS VEST	Bergen	47 55948260	
Omán	ROYAL TILES CO	Muscat	+968 9586 8897	
Holanda	PGN CERAMICA BV	Amsterdam	+32 (0)15 253366	+32 (0)15 253367
	WOUT'S TEGLHANDEL BV	Amsterdam	32 020 684 11 55	
	KOGROS BV	Numansdorp	+31 186 653 350	
	Gebr. Van de Laar BV	Venlo	+31 77 382 6245	
	Tegelgroep Nederland BV	Andelst	+31 488 470 600	
Panamá	EUROCER S.A.	Punta Pacifica, San Francisco, Ciudad de Panamá	+507 21 53660	
Perú	ARQ-STUDIO	Lima	+511 421 7106	
	ARQ-STUDIO	Lima	+51 143 5729	
	ARQ-STUDIO	Lima	+511 372 3462	
	CASSINELLI	Lima	+51 14 513 712	+51 15 612 757
	PORCELANOSA	San Isidro	+519 4600 7828	

# International Showrooms

Polonia	ADARI	Bielsko Biala	+48 33 822 0449	+48 33 822 0449
	ADARI	Gliwice	+48 32 232 2155	+48 32 232 2155
	ADARI	Katowice	+48 32 258 9574	+48 32 258 9574
	AKCESS	Bialystok	+48 85 6643436	+48 85 6643434
	AND-BUD	Lublin	081 469 9617	
	AND-BUD	Rzeszow	017 785 1020	
	AND-BUD	Tarnobrzeg	015 823 0148	
	ANICAR	Warszawa	+48 22 843 70 98	
	ANICAR	Warszawa	022 6 730 371	
	ANICAR	Warszawa	+48 22 658 08 05	
	CERMAG POZNAN	Bydgoszcz	+48 52 348 93 43	+48 52 348 93 54
	CERMAG POZNAN	Gorzow Wlkp.	+48 95 721 41 08	+48 95 721 41 08
	CERMAG POZNAN	Kolobrzeg	+48 94 355 18 88	+48 94 355 18 80
	CERMAG POZNAN	Leszno	+48 65 529 63 63	+48 65 529 63 63
	CERMAG POZNAN	Olsztyn	+48 89 534 41 21	
	CERMAG POZNAN	Ostrów Wielkopolski	+48 62 735 81 12	+48 62 737 28 91
	CERMAG POZNAN	Poznan	+48 61 835 97 50-54	+48 61 830 23 78
	CERMAG POZNAN	Sopot	+48 58 550 4235	+48 58 550 5459
	CERMAG POZNAN	Warszawa	+48 22 252 57 39	+48 22 252 57 39
	CERMAG POZNAN	Rzeszow	+48) 17 857 65 82	
	CERMAG POZNAN	Kalisz	48 62 502 10 15	
	CERMAG POZNAN	Szczecin	48 91 434 00 48	
	CERMAG POZNAN	Koszalin	48 94 343 08 32	
	CERMAG POZNAN	Gdansk	48 58 623 52 86	
	CERMAG SP ZOO	Opole	+48 42 616 55 44	+48 42 611 61 61
	CERMAG SP ZOO	Łódź	+48 77 457 35 09-10	+48 77 474 88 82
	CERMAG SP ZOO	Katowice	+48 698 609 602	
	CERMAG SP ZOO (WROCLAW)	Wroclaw	+48 717 820 021	+48 717 820 031
	EGEN	Lublin	+48 81 441 58 42	+48 81 441 80 74
	EXCLUSIVE ELEGANCKIE ŁAZIENKI	Kielce	48 041 344 28 44	
	EXCLUSIVE ELEGANCKIE ŁAZIENKI	Kielce	+48 41 345 75 49	
	BOZ	Rzeszow	+48 17 850 0315	+48 17 850 0341
	GRES	Lodz	0814 450 301	
	P.H.U. FUGA	Czestochowa	+48 343682944	+48 343682944
	SANIMEX	Gliwice	0322 708 029	
	SANIMEX	Katowice	+48 32 735 27 14	
	SANIMEX	Rybnik	+48 32 424 44 34	
	STEMAR	Gorzow Wlkp.	0957 204 555	
	STEMAR	Poznan	616425802	
	STEMAR	Szczecin	+48 91 453 17 82	
	WOIS SP Z.O.O	Warszawa	+48 22 6127213	+48 22 6127216
	CAMERO DESIGN	Radom	+48 48 385 14 00	Perú
Portugal	DCMT-DECORAÇÃO E MATERIAIS DE CONST.LDA	BRAGANÇA	+351 27333849	+351 27333848
	FLAVIGRES, S.A.	CHAVES	+351 276 341102	+351 276 341736
	FURMAT - MATERIAIS DE CONSTRUÇÃO, LDA	Ponta Delgada	351296629277	
	GERARDO MARTINS MENESES COM.MAT.CONSTRUÇÃO LDA	Praia da Vitória	295579013	295579034
	HEITOR CAMPOS AMOEDO LDA	MONÇÃO	+351 251652474	+351 251652446
	MATA S.A	FUNCHAL	+351 291930110	+351 291936412
	PORCELANOSA	Viseu	+351 232 430440	+351 232 430449
	PORCELANOSA	Lisboa	+351 218 313 020	+351 218 313 029
	PORCELANOSA	Porto	+351 226 166 600	+351 226 161 959
Puerto Rico	THE TILE SHOP	Guaynabo	+1 787 720 2030	+1 787 790 2030
	THE TILE SHOP	San Juan	+1 787 775 2030	+1 787 707 0138
Qatar	UNITED SUPPLIES	Qatar	+974 46 85 164	+974 46 85 165

# International Showrooms

Reino Unido	PORCELANOSA	Reading	08444 818 954	08444 818 964
	PORCELANOSA	Bristol	0117 959 71 51	0117 959 71 55
	PORCELANOSA	Peterborough	08444 818 957	08444 818 967
	PORCELANOSA	Exeter	01392 215 552	01392 215 557
	PORCELANOSA	Watford	08444 818 951	08444 818 961
	PORCELANOSA	Glasgow	0141 533 1000	0141 533 1007
	PORCELANOSA	Manchester	0161 817 33 00	0161 817 33 01
	PORCELANOSA	Warrington	01925 237 807	01925 237 888
	PORCELANOSA	Fulham	08444 818 952	08444 818 962
	PORCELANOSA	London	08444 818 959	08444 818 969
	PORCELANOSA	Edinburgh	0131 335 38 83	0131 335 38 84
	PORCELANOSA	Norwich	08444 818 958	08444 818 968
	PORCELANOSA	Newcastle Upon Tyne	0191 272 5224	0191 272 2986
	PORCELANOSA	Nottingham	0115 983 65 00	0115 983 65 65
	PORCELANOSA	Cardiff	0292 0465 166	0292 0465 156
	PORCELANOSA	Doncaster	01302 30 47 13	01302 30 47 15
	PORCELANOSA	Sheffield	0142 29 01 90	0114 255 22 65
	PORCELANOSA	Cannock	01543 223025	01543 462959
	PORCELANOSA	Southampton	08444 818 956	08444 818 966
	PORCELANOSA	Croydon	08444 818 953	08444 818 963
	PORCELANOSA	Solihull	0121 746 64 64	0121 746 64 65
	PORCELANOSA	Leeds	0113 20 60 90	0113 24 34 024
Rep. Democrática del Congo	SOCIETE PANACHE	Kinshasa	+243 884 1677	+243 983 13893
República Dominicana	CARABELA S.R.L.	Bávaro	+ 1 809 466 0020	+ 1 809 466 2006
	CARABELA S.R.L.	La Romana	+ 1 809 556 3606 809 550 9006	+ 1 809 221 7416
	CARABELA S.R.L.	Santiago	+ 1 809 971 1234	+ 1 809 971 6728
	CARABELA S.R.L.	Santo Domingo	+ 1 809 544 2560	+ 1 809 541 0818
Reunión	L'ESPACE BAIN DOUCHE	Saint Denis	+262 212 100	+262 212 101
	L'ESPACE BAIN DOUCHE	Saint Pierre	+262 353 536	+262 266 394
Rumanía	DELTA STUDIO	Pitesti	0248/222.798	
	DELTA STUDIO	Brasov	0368/402.049	
	DELTA STUDIO	Bucarest	021/411.25.46	
	DELTA STUDIO	Bucarest	031/405.82.17	
	DELTA STUDIO	Constanta	0241/520.707	
	DELTA STUDIO	Iasi	0232/431.963 0730.586.938	
	DELTA STUDIO	Piatra Neamt	0233/234.518	
	DELTA STUDIO	Ploiesti	0244/514.791 0723.541.737	
	DISEÑO GLAMOUR DESIGN	Bucarest	+40 31 22 93 210	
	PORCELINES	Bucarest	+40 756 093 720	
	BAN COM SRL	Oradea	+40 259 152 677	
Serbia	CERAMIC BY PORCEL.	Belgrado	+381 11 3343026	+381 11 3343297
Singapur	FERNANDO MARTIN BENITO	Singapur	+65 97801472	+65 64621620
Sudáfrica	CLASSIC TRADING	Durban	27 031 579 1900	+27 31 577 7056
	CLASSIC TRADING	Johannesburg	+27 11 656 0400	+27 11 656 0403
	CLASSIC TRADING	Cape Town	27 021 465 9277	
	Afrikano Tile & Decor	Johannesburg	+27 11 839 2333	
Suecia	KAKELPALATZET	Bromma	+46(0)8-56 487 831	+46(0)8-988 620
	KAKELPALATZET	Hisingen Backa	+46(0)31-571 478	+46(0)31-571 477
	KAKELPALATZET	Katrineholm	+46(0)150-51 740	+46(0)150-51 775
	KAKELPALATZET	Mölndal	+46(0)31-776 50 51	+46(0)31-86 39 62
	KAKELPALATZET	Uddevalla	+46(0)522-64 54 00	+46(0)0522-64 54 54
Suiza	ARGEON SA	Aubonne	+41(0)21 807 10 10	+41(0)21 808 61 02
	NEW FORM SWISS SAGL	Mendrisio	41919227356	
	Porcelanosa Basel	Basel		

# International Showrooms

Surinam	NV RONANS TRADING	Paramaribo (Tourtonnelaan)	+597 451070	+597 450066
Tailandia	BOONTHAVORN CERAMIC	Bangkok	+66 2275-0029	+66 2275-2057
	BOONTHAVORN CERAMIC	Bangkok	+66 2441-3075	+66 2441-4049
	BOONTHAVORN CERAMIC	Bangkok	+66 2791-2777	+66 2943-9058
	BOONTHAVORN CERAMIC	Bangkok	+66 38 052 222	+66 38 052 221
	BOONTHAVORN CERAMIC	Bangkok	+66 2316-0429	+66 2750-0682
	BOONTHAVORN CERAMIC	Pathumthanee	+66 2902-0171	+66 2902-0184
	BOONTHAVORN CERAMIC	Prachuabkirikun	+66 3252-2555 +66 5488-4144	+66 3252-0141
	BOONTHAVORN CERAMIC	Samutsakon	+66 2896-4471-2	+66 2896-4473
Taiwan	NEW CENTURY CONSTRUCTIONAL	Kaohsiung	+886 7 384 8834	+886 7 387 1043
	NEW CENTURY CONSTRUCTIONAL	Taichung	+886 4 2372 8166	+886 4 2376 2818
	NEW CENTURY CONSTRUCTIONAL	Tainan		-3847955
	NEW CENTURY CONSTRUCTIONAL	Taipei		73845135
Túnez	LIFE STYLE	Les Berges du lac, Tunis		
Turquía	YÜTAŞ YAPI	Istanbul	+90 2 1227 44720	+90 2 1227 20874
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	EUROPA	Dnipropetrovsk		(0562) 31-27-53
	EUROPA	Kharkiv		(572) 23 59 95
	FIRMEINY SALON PORCELANOSA GRUPO	Odessa		(482) 37 85 40
	KERAM MISTO	Lviv		(32) 293 98 89
	NAUTILUS	Donetsk		(062) 387 58 58
	SALON KARMEN	Lviv	+380 32 244 40 55	+380 32 252 70 94
	SALON MILLENNIUM CONCEPT	Kyiv	(044) 279 60 60	
Uzbekistan	PREMIUM CONCEPT	Tashkent	+998(71) 256 29 05	
Venezuela	PROSEIN	Caracas	(+582) 1223 929 11	(+582) 1223 994 60
	PROSEIN	Caracas	(+582) 1276 256 01	
	PROSEIN	Caracas	(+582) 1226 564 19	
Montenegro	ENTEXT d.o.o.	Podgorica	+382 20 260 831	





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