



TECHNICAL BOOK

-VENTILATED FAÇADE SYSTEMS-

butech.
PORCELANOSA Grupo



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Ceramic ventilated façade

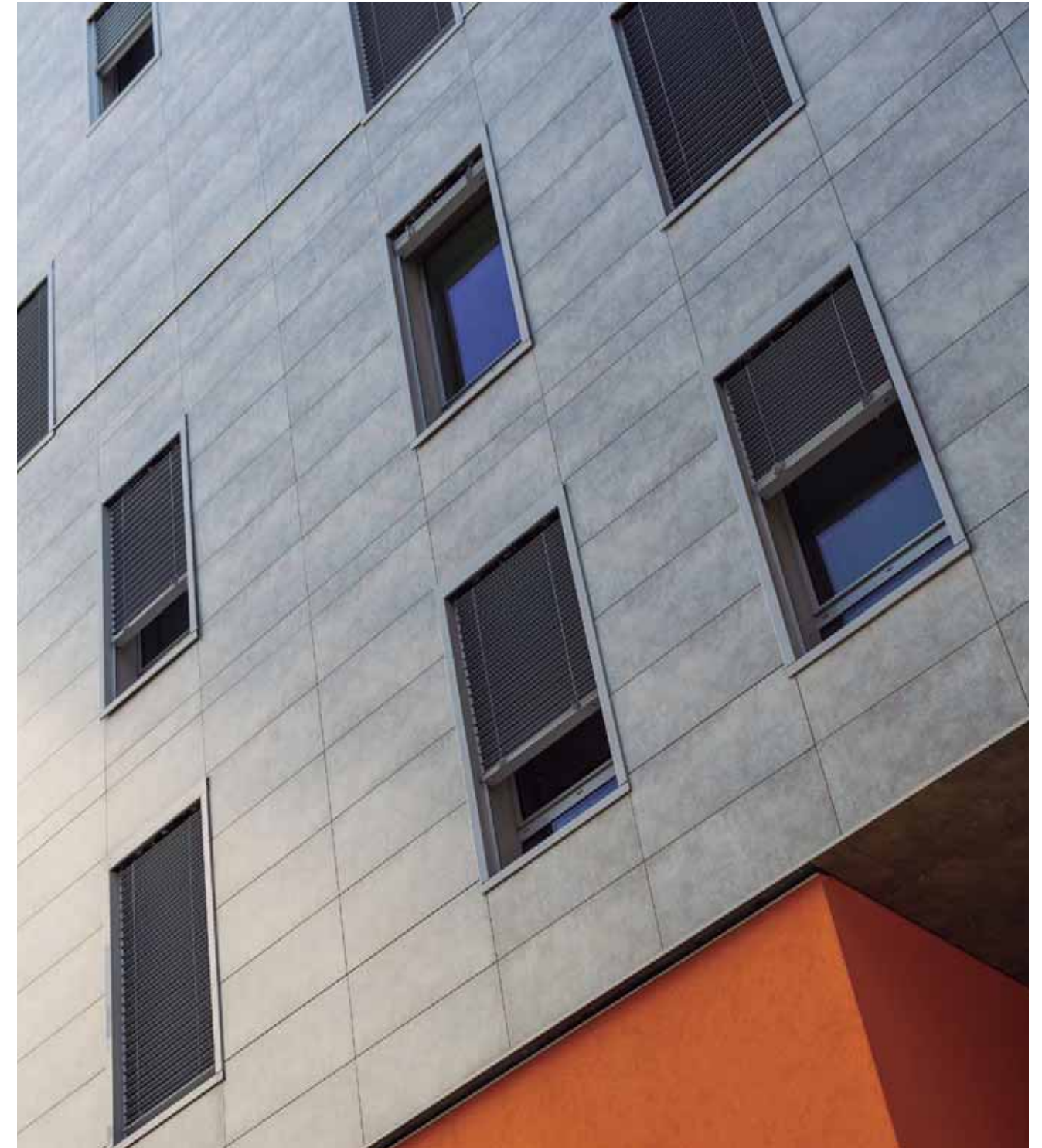


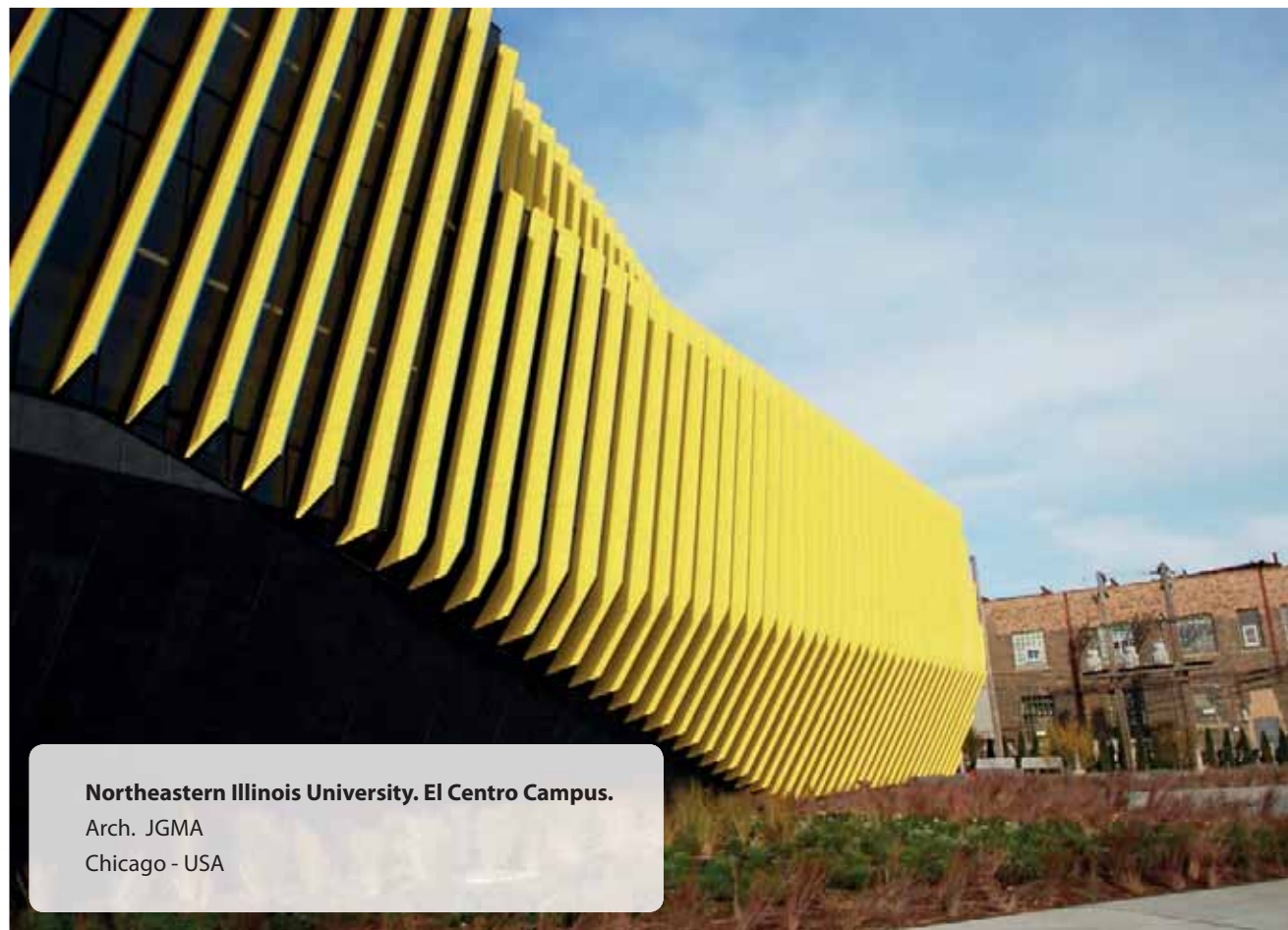
Private House
Madrid - Spain



New Ambroise Pare Hospital

Arch. Ludovic Bisi y Stéphan Bernard. Carta Associes
Marsella - France





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



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



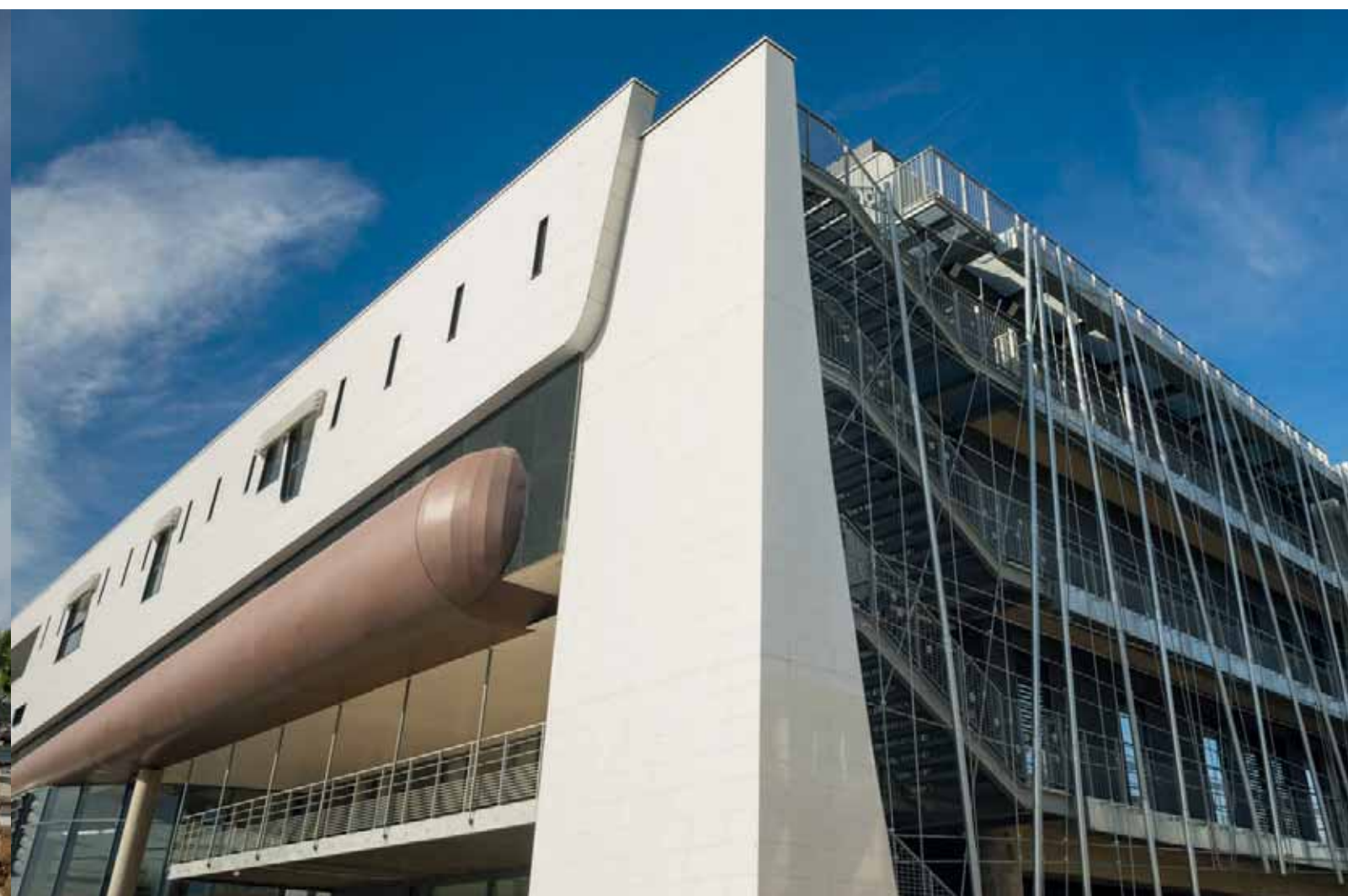


Termas de Monte Real Hotel
Arch. António García
Leiria - Portugal



High School
 450 m² Venis Ferroker cobre - Ironker cobre. 44x66 cm
 Dolyston - USA

Thermal center
Balaruc-les-bains - France







Residential building
Milan - Italy



Exeter University
Exeter - UK



Residential building, The filaments
Wandsworth - United Kingdom



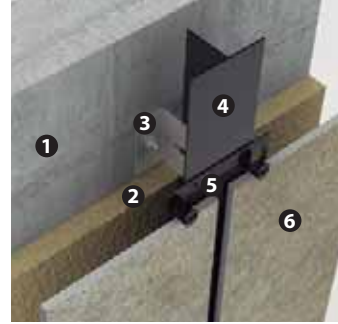




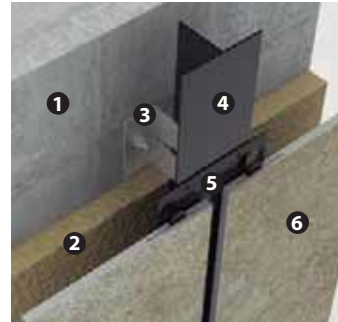
Disabled centre
Madrid - Spain

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.



Ventilated façade system with visible fixing clips



Ventilated façade system with concealed fixing clips

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.

System components:

1. Supporting wall
2. Thermal insulation
3. Angle bracket
4. T profile
5. Fixing clip
6. STON-KER®

- 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 ≤ 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^3 ; 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_2 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

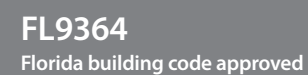
- Mechanical fixing system using visible or concealed clips to prevent the tiles coming loose.
- Structural anchoring system that isolates the façade from movements in the structure of the building, by allowing the two layers to move independently.
- Possibility of creating air gaps of different widths 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/m².
- 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 Certificat 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)



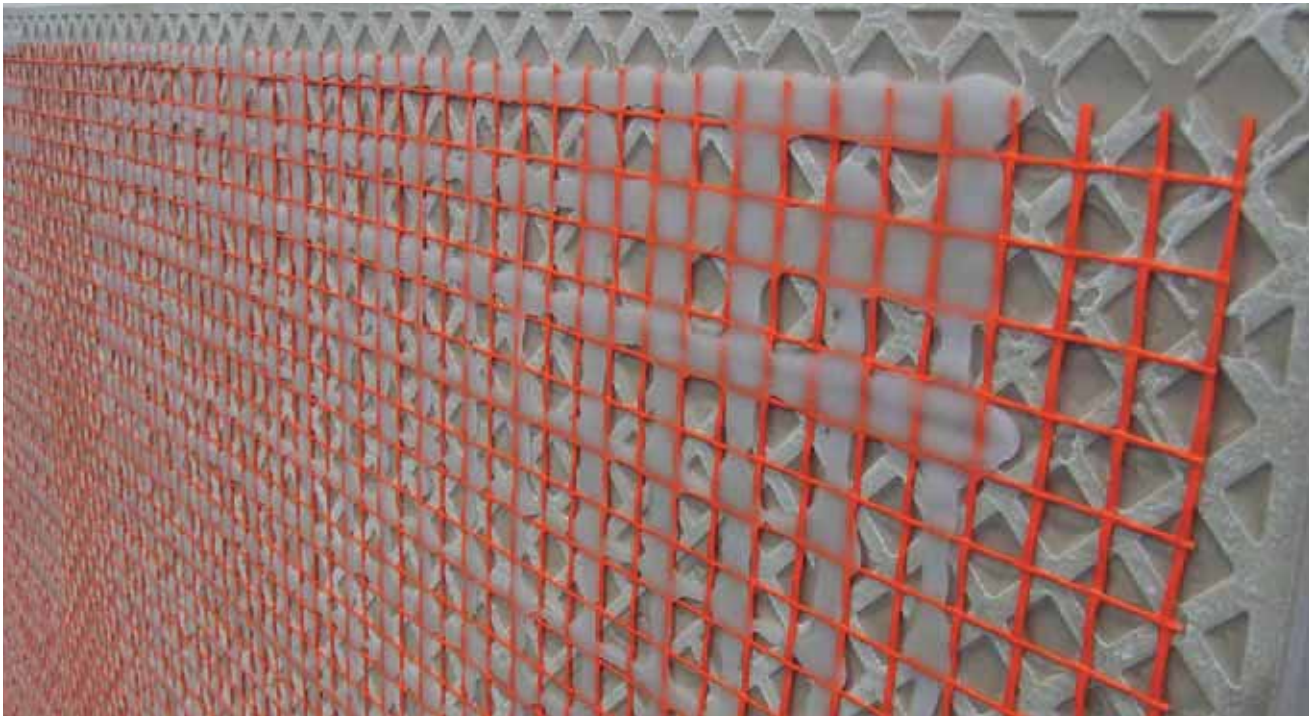
Technical features of ceramic tiles

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 – Bia Group (≤ 0.5 %).

NF-EN ISO	Test	ISO13006:1998 NF-EN 14.411:2006	Values STON-KER	Values URBATEK
10545-2	Length & width	Deviation of ± 0.5 % with respect to manufacturing measurement	Meets requirements	Meets requirements
	Thickness	Deviation of ± 5 % with respect to manufacturing measurement	Meets requirements	Meets requirements
	Straightness of sides	Deviation of ± 0.5 % with respect to manufacturing measurement	Meets requirements	Meets requirements
	Rectangularity	Deviation of ± 0.6 % with respect to manufacturing measurement	Meets requirements	Meets requirements
	Surface flatness	Deviation of ± 0.5 % with respect to manufacturing measurement	Meets requirements	Meets requirements
10545-3	Water absorption	Mean value ≤ 0,5 %	E ≤ 0,1 %	E ≤ 0,1%
10545-4	Modulus of rupture	≥ 32 N/mm² minimum individual value	> 40 N/²	≥ 42 N/²
	Breaking strength	> 1 300 N	> 2 000 N	≥ 2000 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 Facade 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 Facade. 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/m² (711.91 lb/ft²), 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



FFB. French building federation
Arch. Claude Blanchet
Tours - France



Single-family building
Mussonville - France



Cultural center
Castellón - Spain



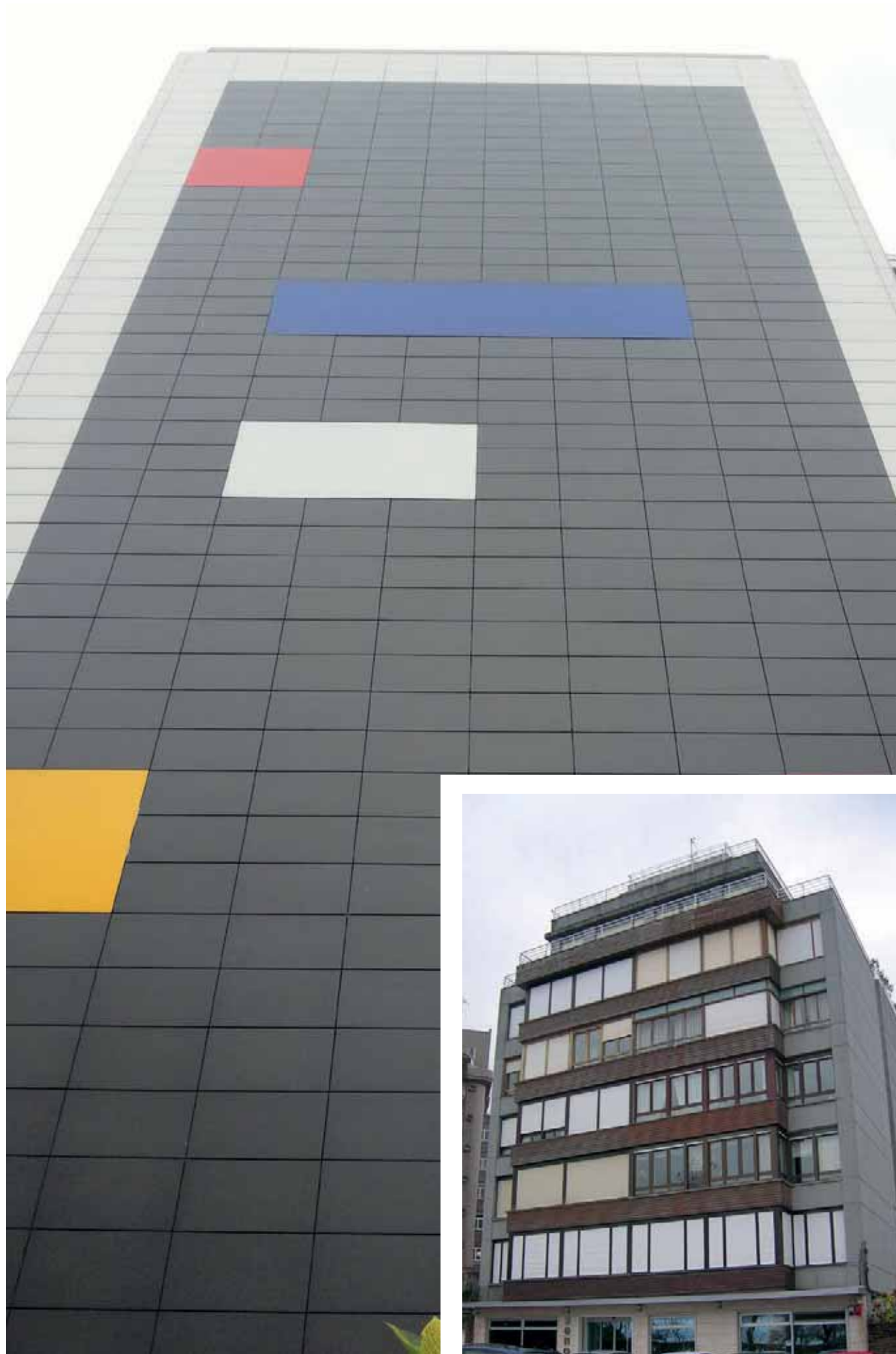
Claridge Hotel
Madrid - Spain



City council of Torreblanca
Torreblanca - Spain



Public building
Utiel - Spain



Single-family building
Santander - Spain



Single-family building
San Sebastián - Spain



GRUPO
gil comes



Offices building
Castellón - Spain

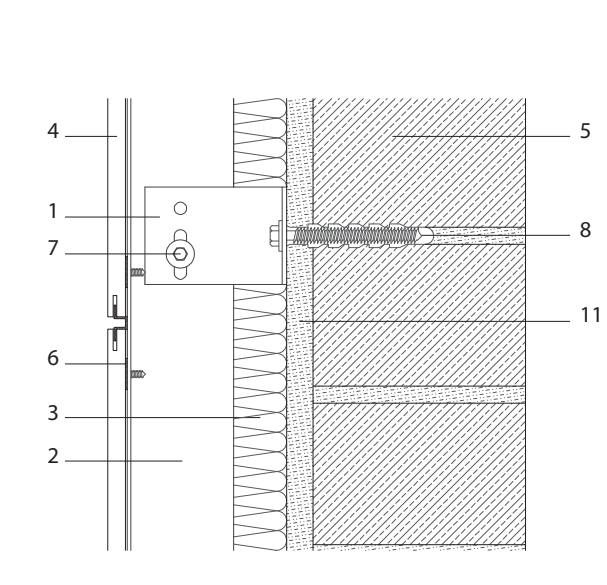


Ventilated façade technical details



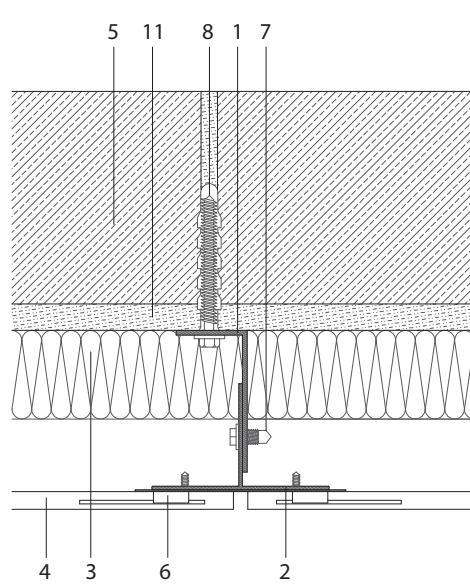
Invisible fixing system

Vertical section



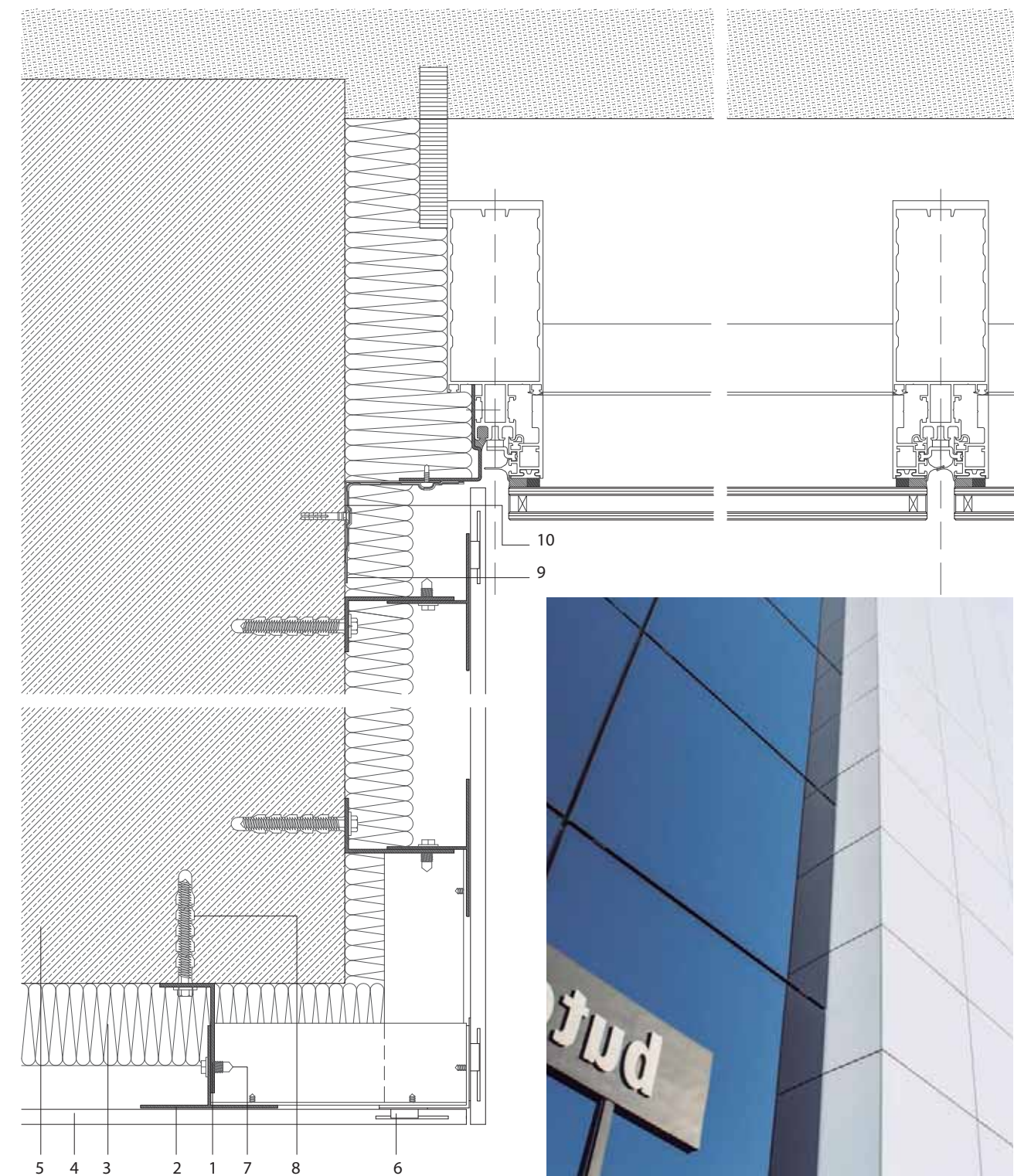
- 1. Secondary aluminum bracket.
- 2. Aluminum vertical "T" profile.
- 3. Thermal insulation.
- 4. STON-KER ceramic tile.
- 5. Brick.
- 6. Stainless steel concealed fixing clip.
- 7. Stainless steel self-drilling screw.
- 8. Mechanical anchor.
- 11. Water-repellent mortar.

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



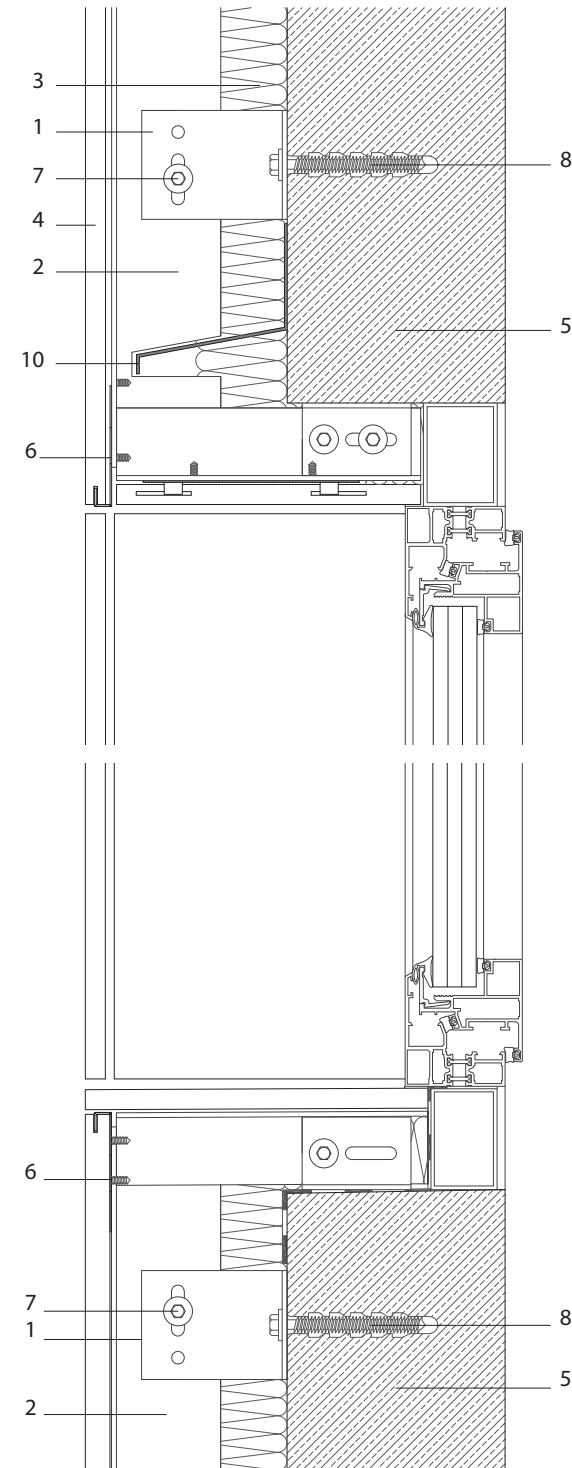
- 1. Secondary aluminum bracket.
- 2. Vertical "T" aluminum profile.
- 3. Thermal insulation.
- 4. STON-KER ceramic tile.
- 5. Wall.
- 6. Stainless steel concealed fixing clip.
- 7. Stainless steel self-drilling screw.
- 8. Mechanical anchor.
- 9. Waterproofing sheet.
- 10. Aluminum angle.





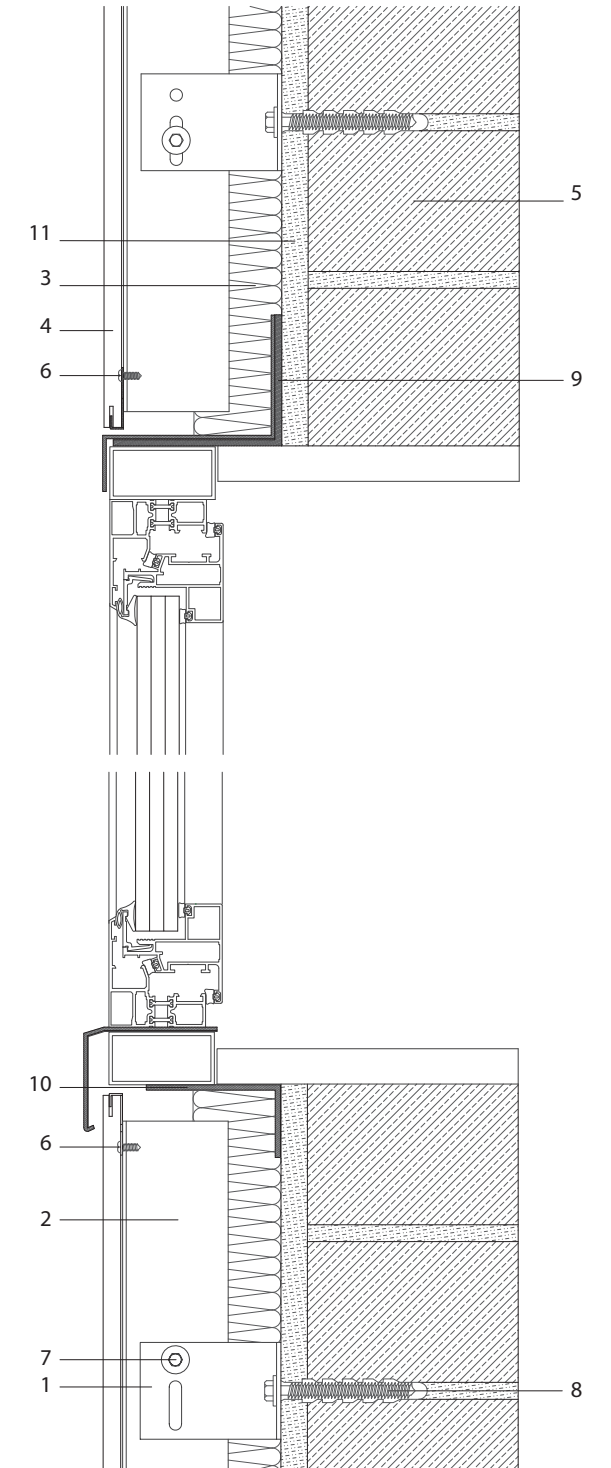
Window with STON-KER frames

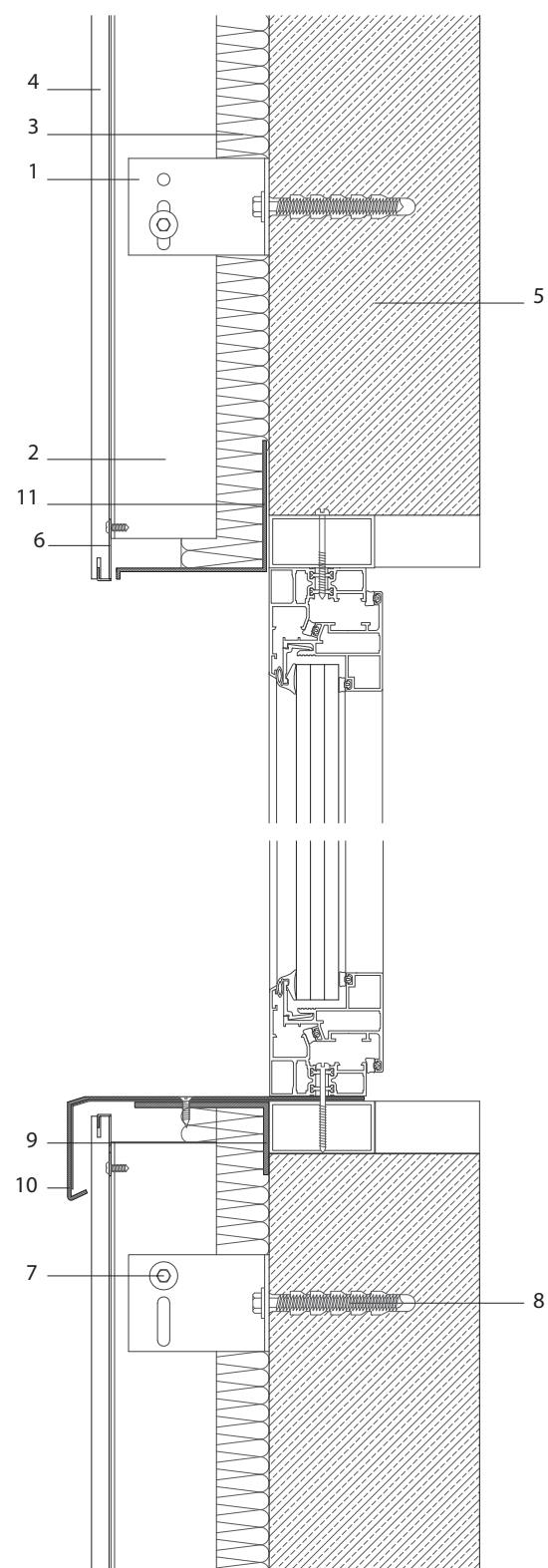
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. STON-KER ceramic tile.
5. Wall.
6. Stainless steel concealed fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
9. Waterproofing sheet.
10. Aluminum gutter.



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.



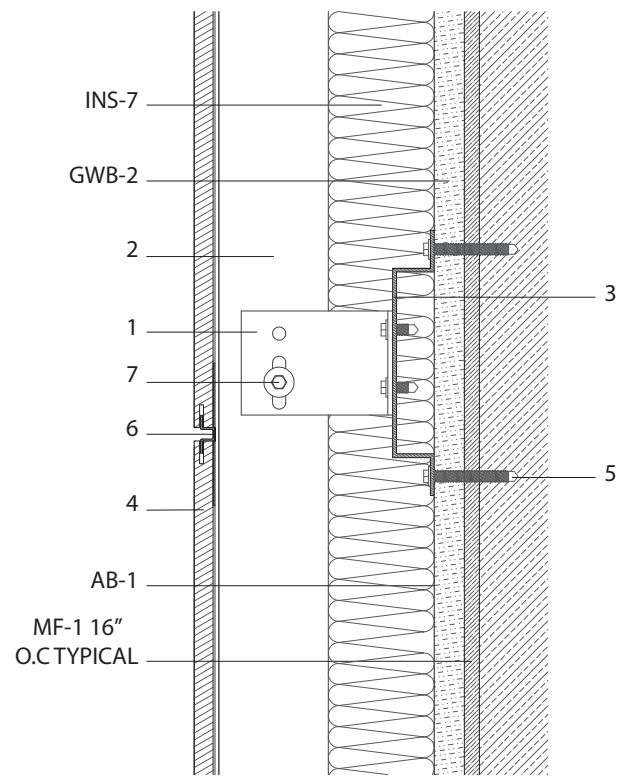


- 1. Secondary aluminum bracket.
- 2. Aluminum vertical "T" profile.
- 3. Thermal insulation.
- 4. STON-KER ceramic tile.
- 5. Wall.
- 6. Stainless steel concealed fixing clip.
- 7. Stainless steel self-drilling screw.
- 8. Mechanical anchor.
- 9. Waterproofing sheet.
- 10. Aluminum angle.
- 11. Aluminum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



System for metal studs / met-sec.

Vertical section

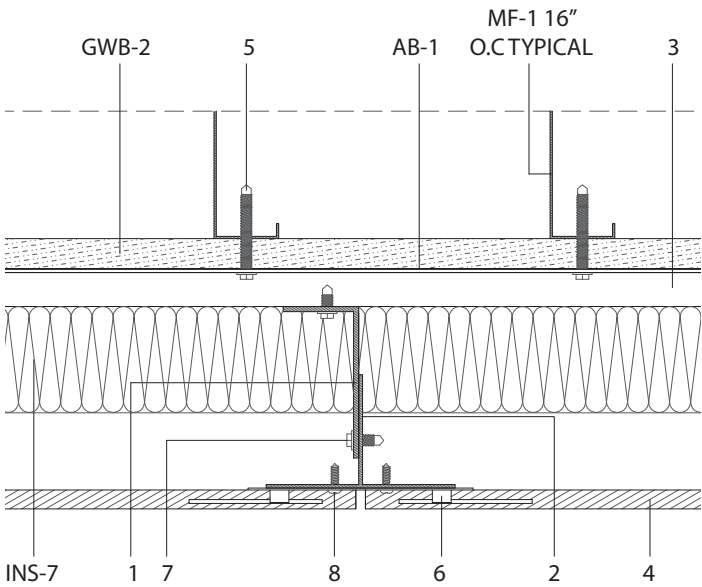


1. Secondary aluminum bracket.
 2. Aluminum vertical "T" profile.
 3. Omega profile.
 4. STON-KER ceramic tile.
 5. Stainless steel self-drilling screw.
 6. Concealed fixing clip.
 7. K5.5 x 22 screw A2 stainless steel.
- GWB-2. Exterior glass mat gypsum sheathing.
AB-1. Fluid-applied membrane vapor-retarded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

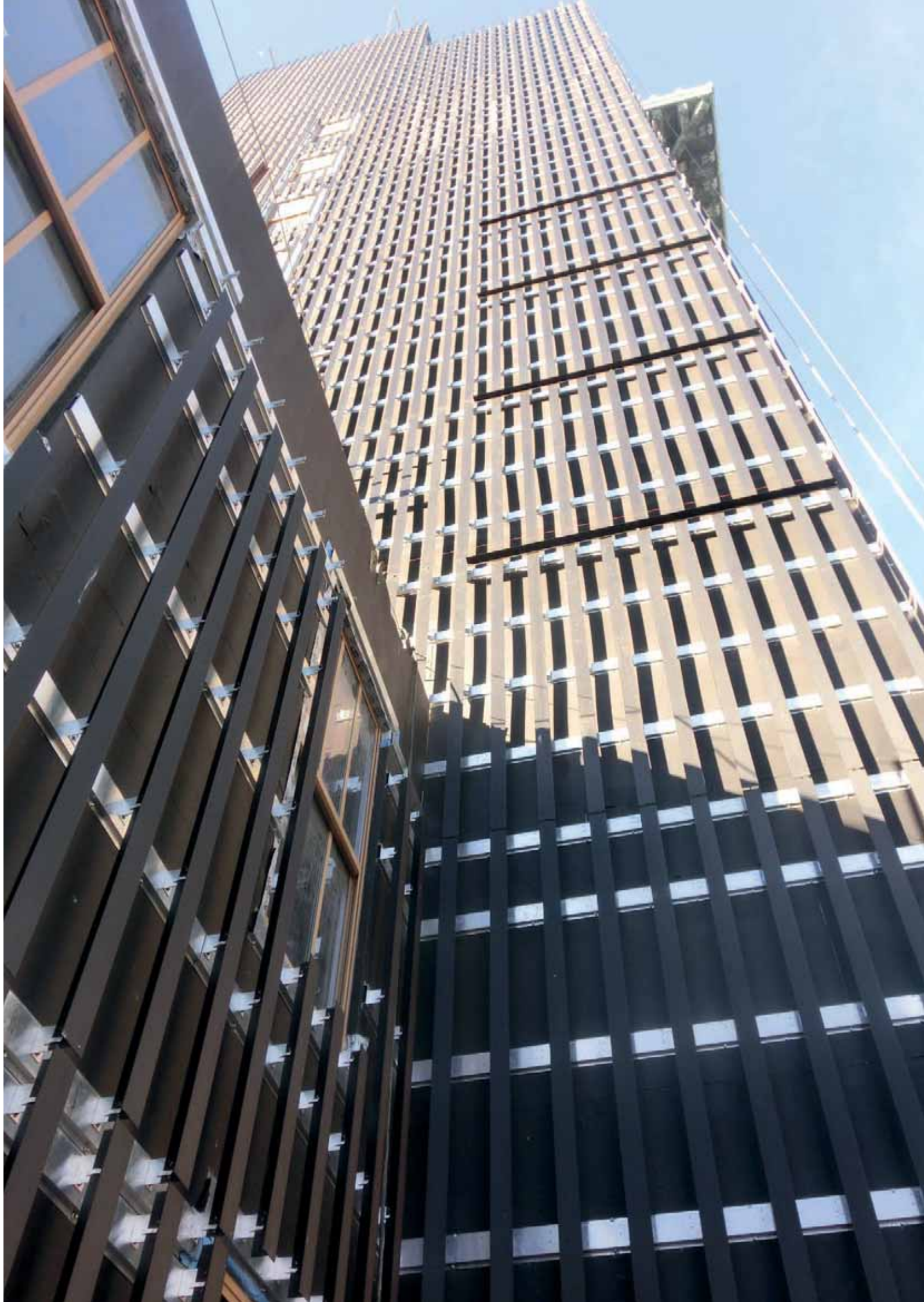


System for metal studs / met-sec.

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
Arch. Javier Ramírez de Arellano Rayo
Ciudad Real - Spain



A modern, multi-story office building with a light beige facade. The building features a large green logo on its upper left side, consisting of a stylized leaf icon and the text "ruralnostra" in a bold, sans-serif font. Below "ruralnostra", the words "Oficines Centrales" are written in a smaller, black, sans-serif font. The building is surrounded by several tall palm trees and other tropical plants. A metal fence runs along the base of the building. To the right, a curved, modern structure with a glass and metal roof is visible. The sky is clear and blue.

ruralnostra
Oficines Centrales

Offices building
Betxi - Spain



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/m²as 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/mm²

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/mm²
Yield strength (Rp 0.2)	≥ 225 N/mm²
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 design11. 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.

Features:

Tensile strength (Rm)	510 - 750 N/mm²
Yield strength (Rp 0.2)	≥ 230 N/mm²
Elongation (A)	< 45%
Brinell Hardness	183

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.

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.





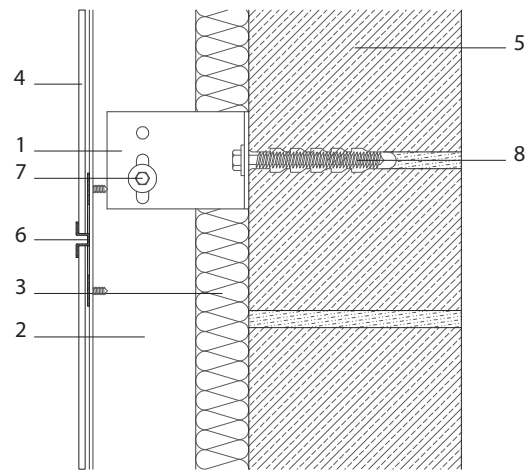
Single-family building
Madrid - Spain



Ventilated façade & XLIGHT technical details

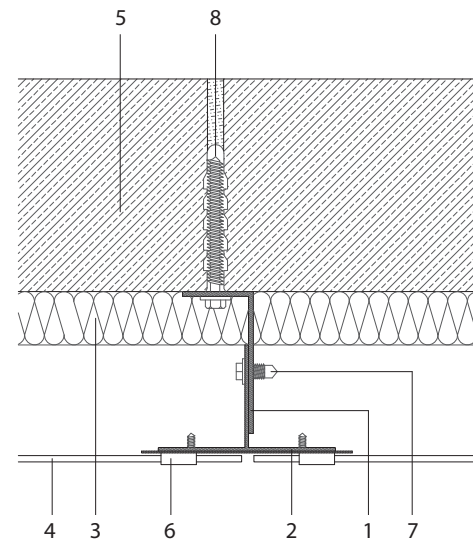
V-Clip system

Vertical section



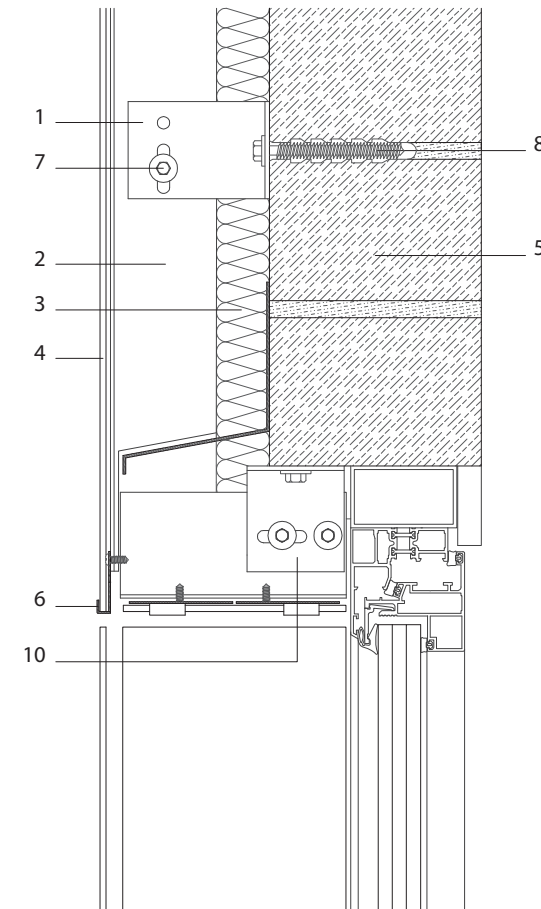
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. XLIGHT ceramic tile.
5. Brick.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.

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.

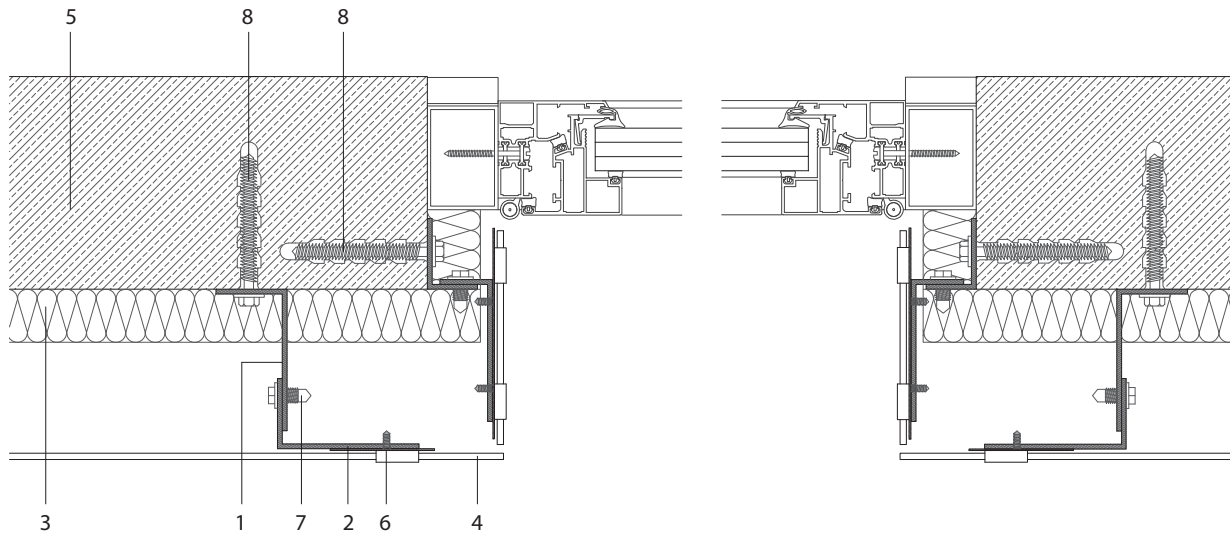
V-Clip system. Window with XLIGHT frames



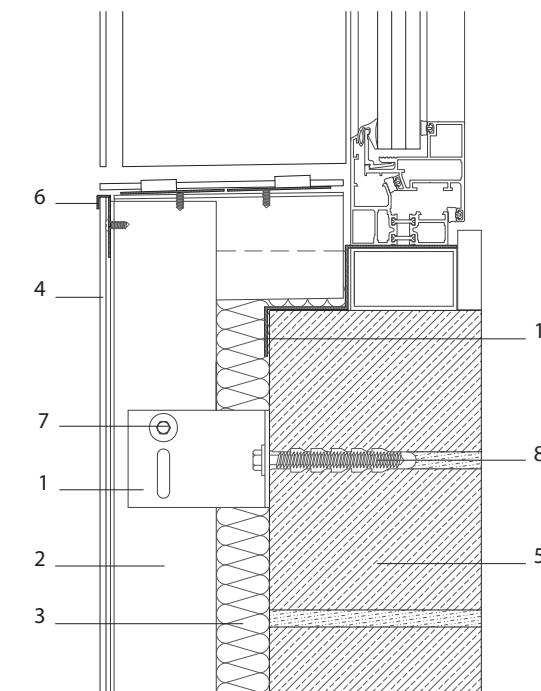
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4. XLIGHT ceramic tile.
5. Wall.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.
10. Secondary aluminum bracket.
11. Waterproofing sheet.

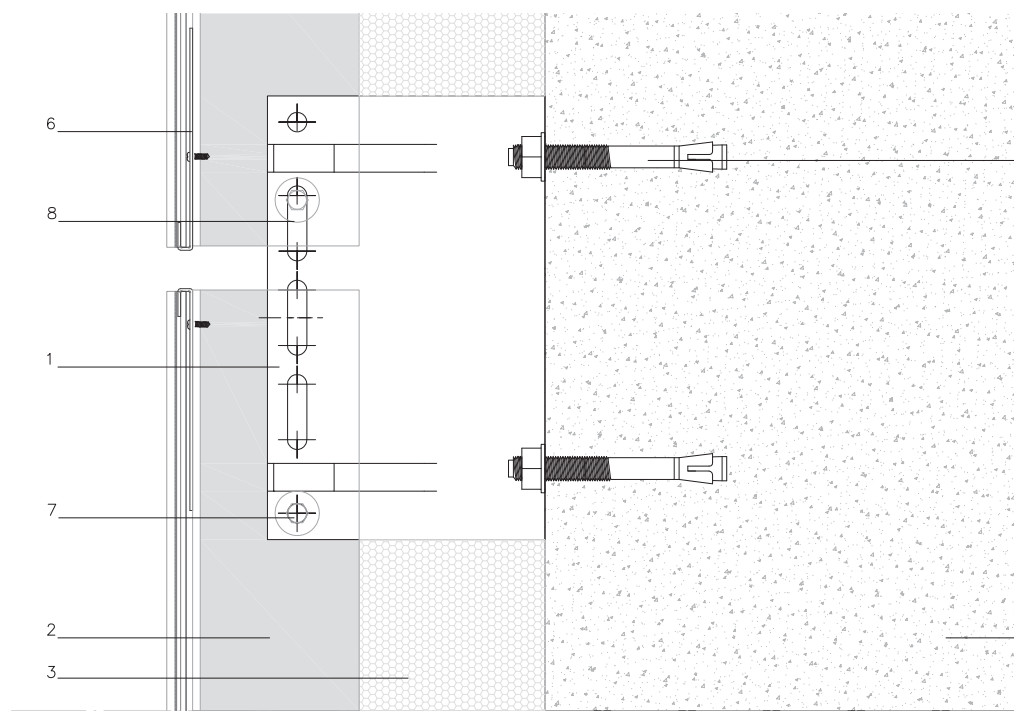
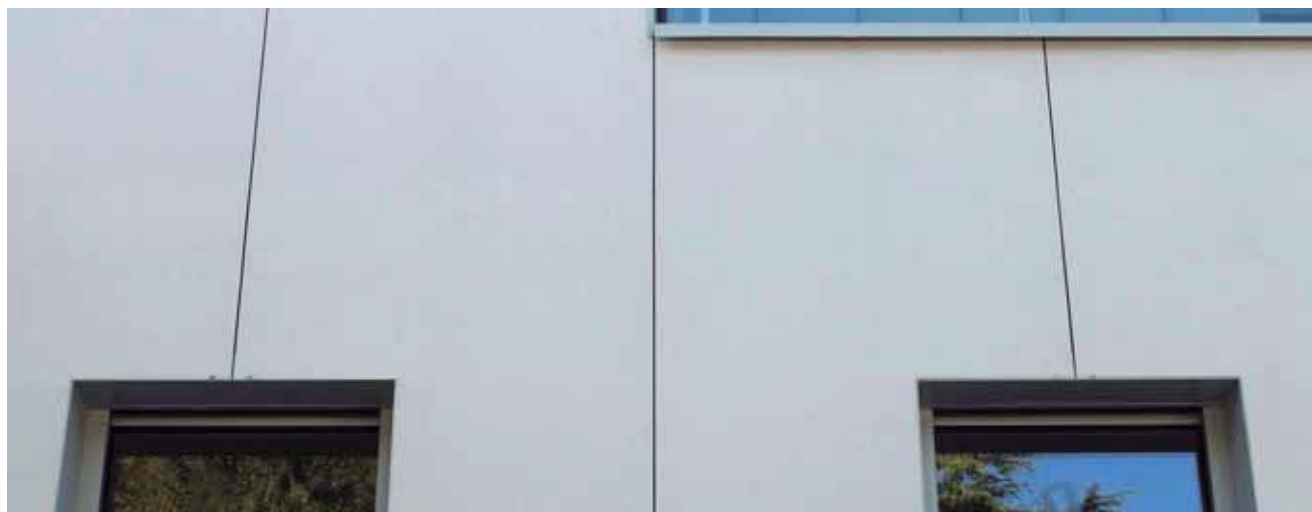
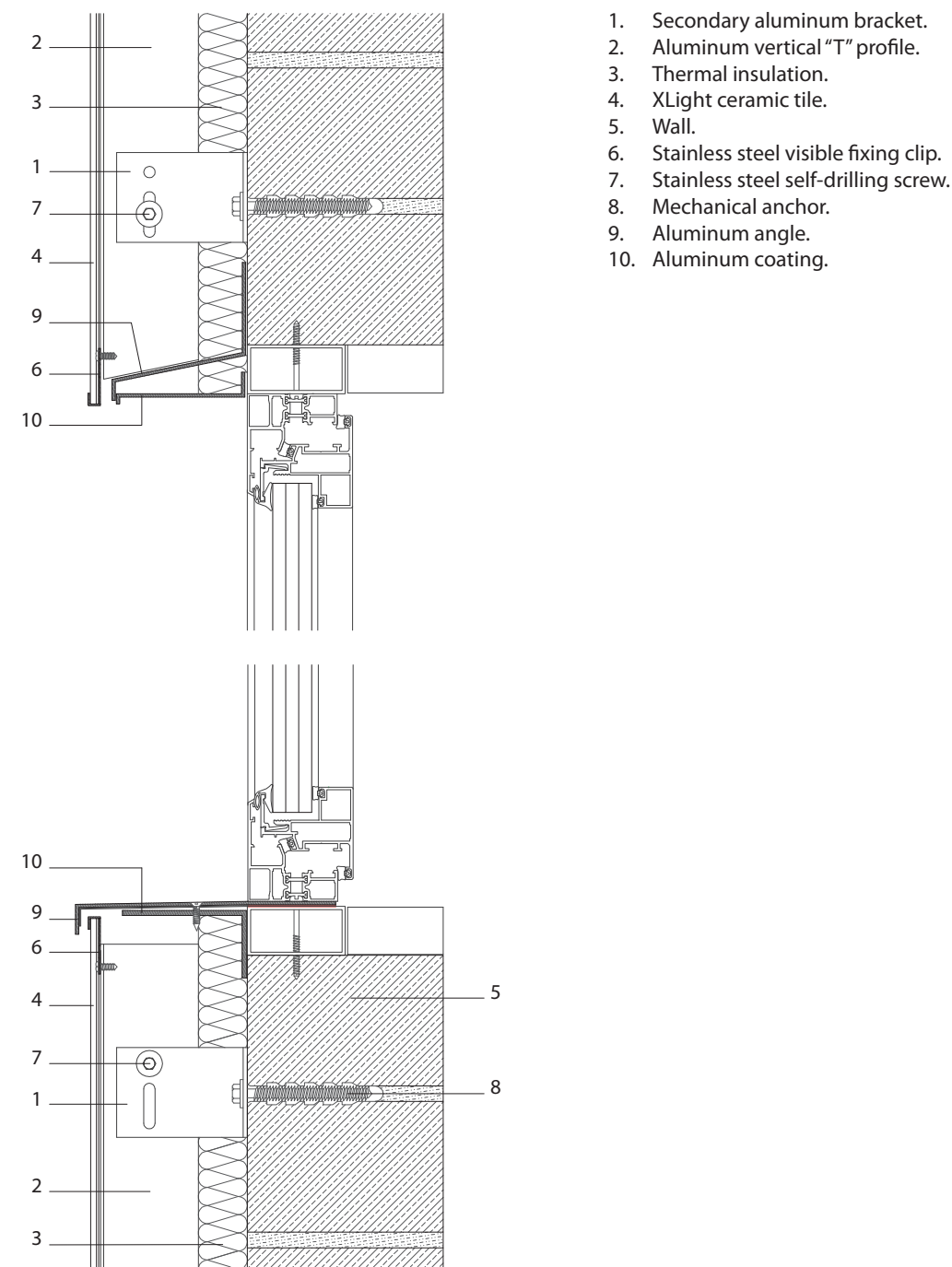


V-Clip system. Window of internal sides with XLIGHT frames

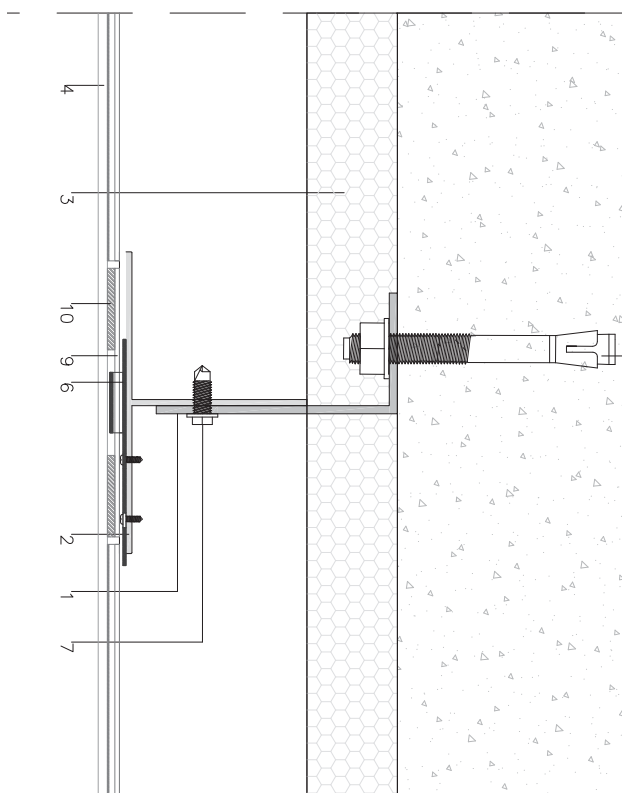


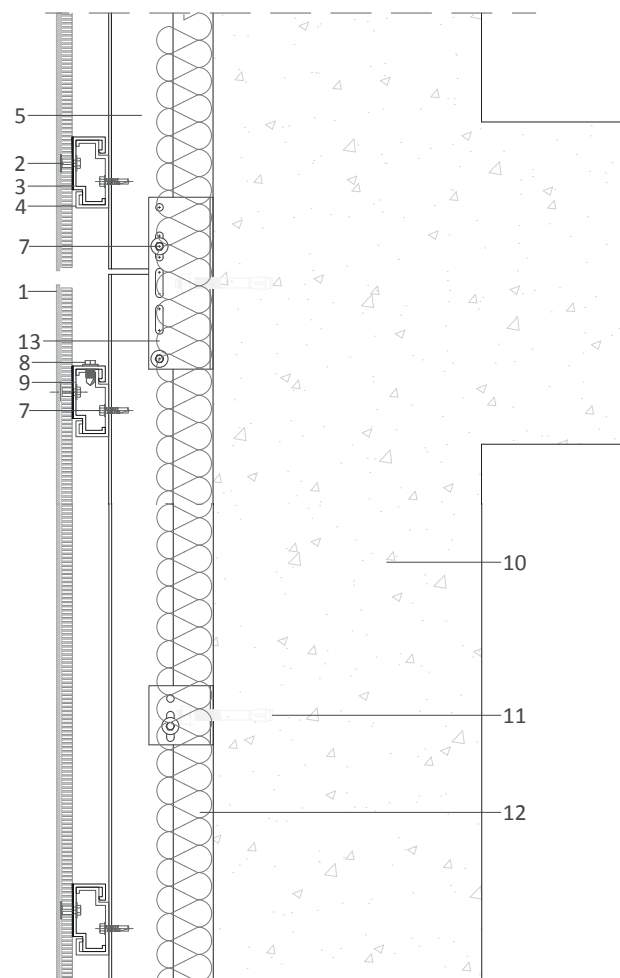
1. Secondary aluminum bracket.
2. Aluminum vertical "T" profile.
3. Thermal insulation.
4. XLIGHT ceramic tile.
5. Wall.
6. Stainless steel visible fixing clip.
7. Stainless steel self-drilling screw.
8. Mechanical anchor.





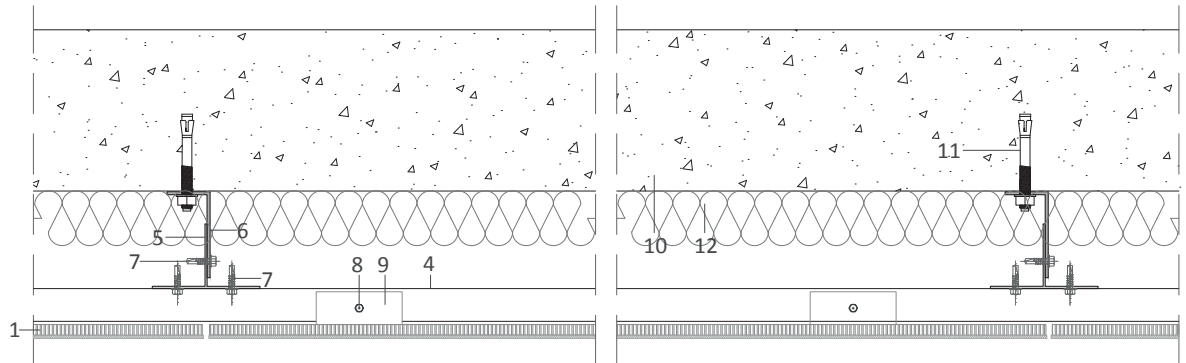
1. "L" Cross-section spacer.
2. "T" Vertical profile.
3. Thermal insulation.
4. Xlight stoneware.
5. Bracket.
6. 5 mm Concealed side anchoring clip.
7. SN5 self-tapping screw.
8. Mechanical anchoring.
9. Metal plate.
10. Double-sided tape.





1. XLight HC-Panel.
2. Concealed insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum "L" spacer.
7. Stainless steel self-drilling screw.
8. Adjusting screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.
13. Primary spacer.
14. Decorative profile.

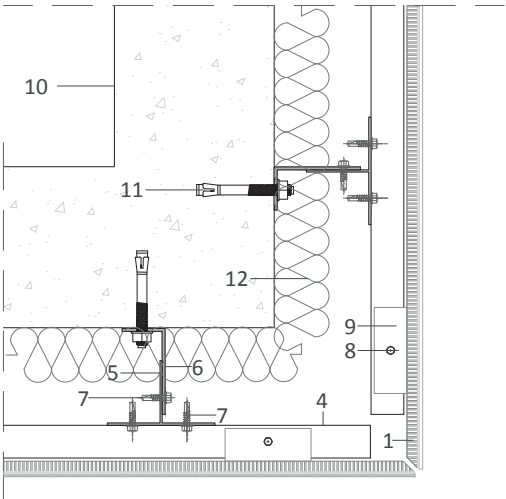
1. 12 mm KRION slab.
2. "K-BOLT" type insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum spacer.
7. Stainless steel self-drilling screw.
8. Adjustable screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12.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



1. XLight HC-Panel.
2. Concealed insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum "L" spacer.
7. Stainless steel self-drilling screw.

8. Adjusting screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.
13. Primary spacer.
14. Decorative profile.

Detail salient angle 45° joint



1. XLight HC-Panel.
2. Concealed insert.
3. "C" type fixed clip.
4. Aluminum horizontal "C" profile.
5. Aluminum vertical "T" profile.
6. Secondary aluminum "L" spacer.
7. Stainless steel self-drilling screw.

8. Adjusting screw.
9. "C" type adjustable clip.
10. Bracket.
11. Mechanical anchoring.
12. Thermal insulation.
13. Primary spacer.
14. Decorative profile.

Modular system

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

Composition

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

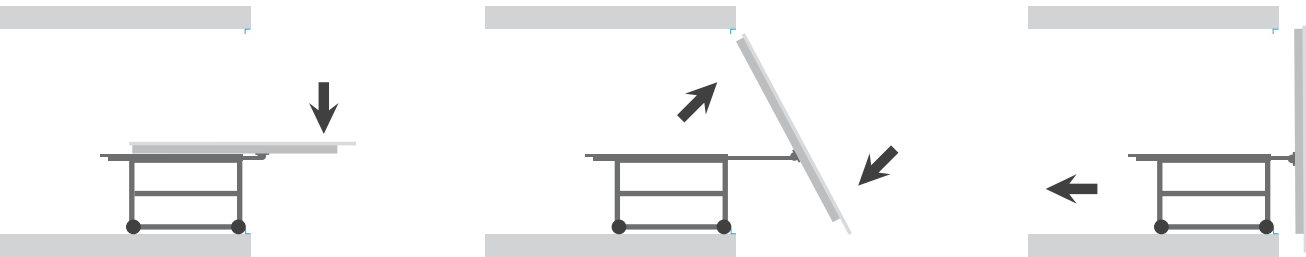
It is supported by a tubular steel structure that anchors the panel to the building structure.

Advantages of the system

Quick installation.

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

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



Auxiliary means are not needed and waste is not produced.

Using a crane or scaffolding is not required as it is assembled from the inside of the building. Being a prefabricated product tailored to your work, it does not need to be machined.

Energy efficiency.

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

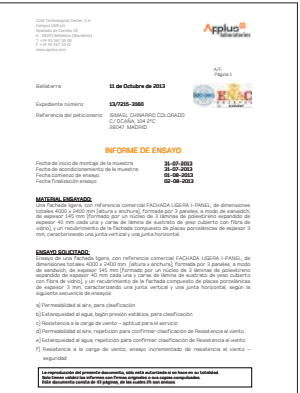


100% Recyclable

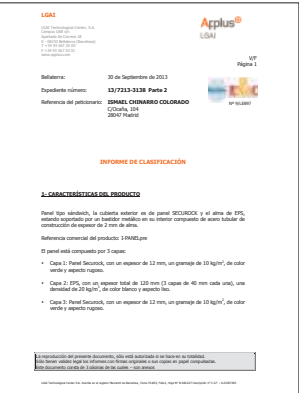
The system components are entirely recyclable, guiding your construction towards sustainable construction.

Certificates

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



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



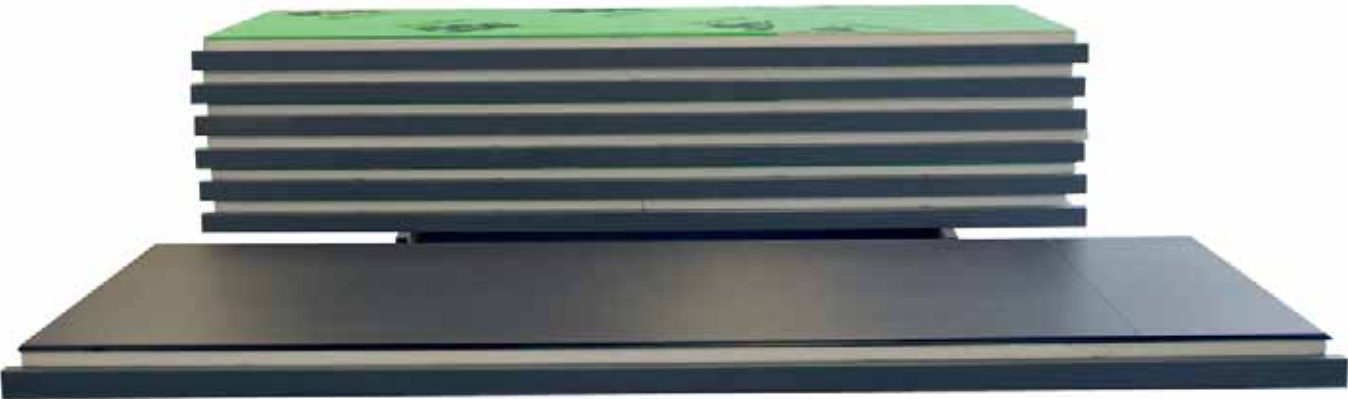
Flammability.



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 RAtr 30.9 dB
Thermal insulation	Rt 4.428 m2k/W U 0.226 W/m2k

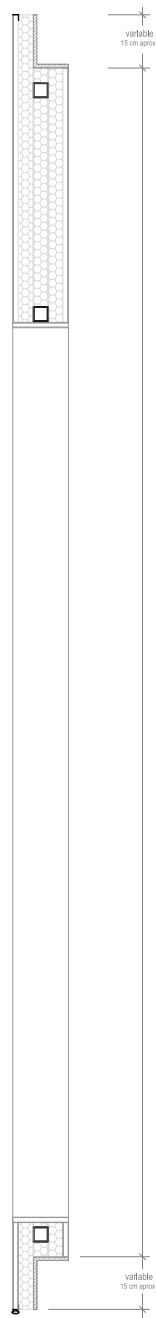




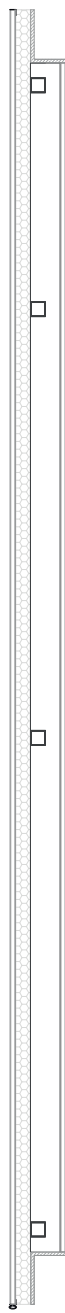


Technical details modular system & XLIGHT

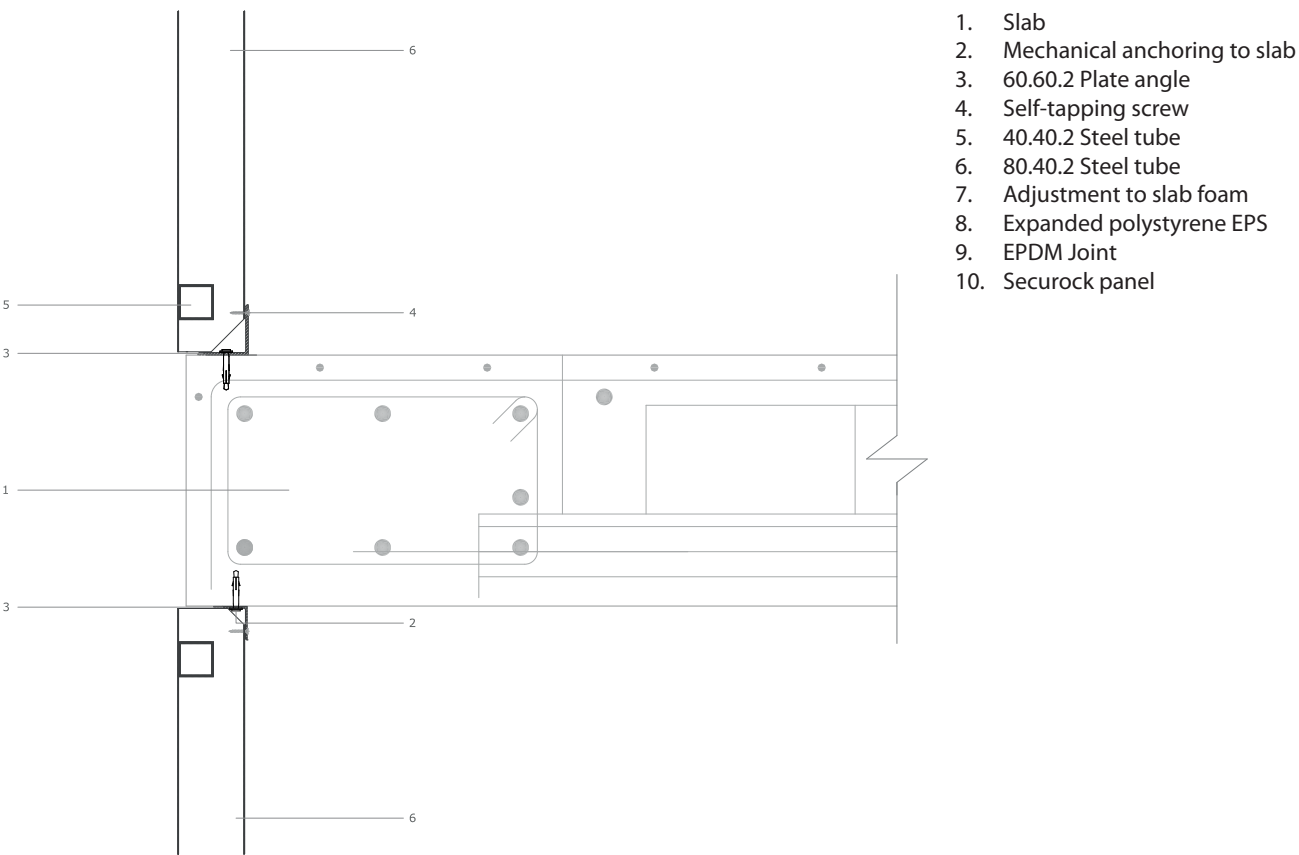
Modular system. Gap vertical cross-section



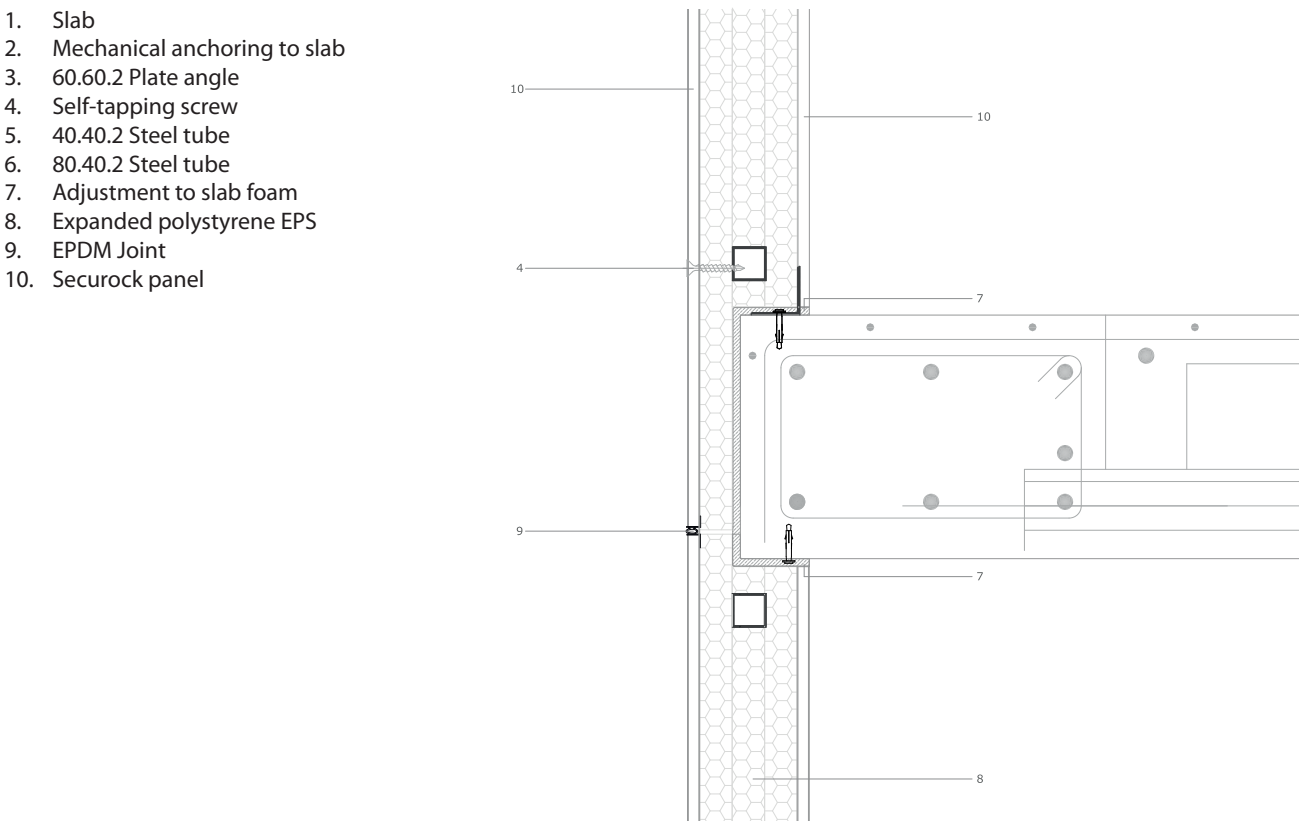
Modular system. Panel vertical cross-section



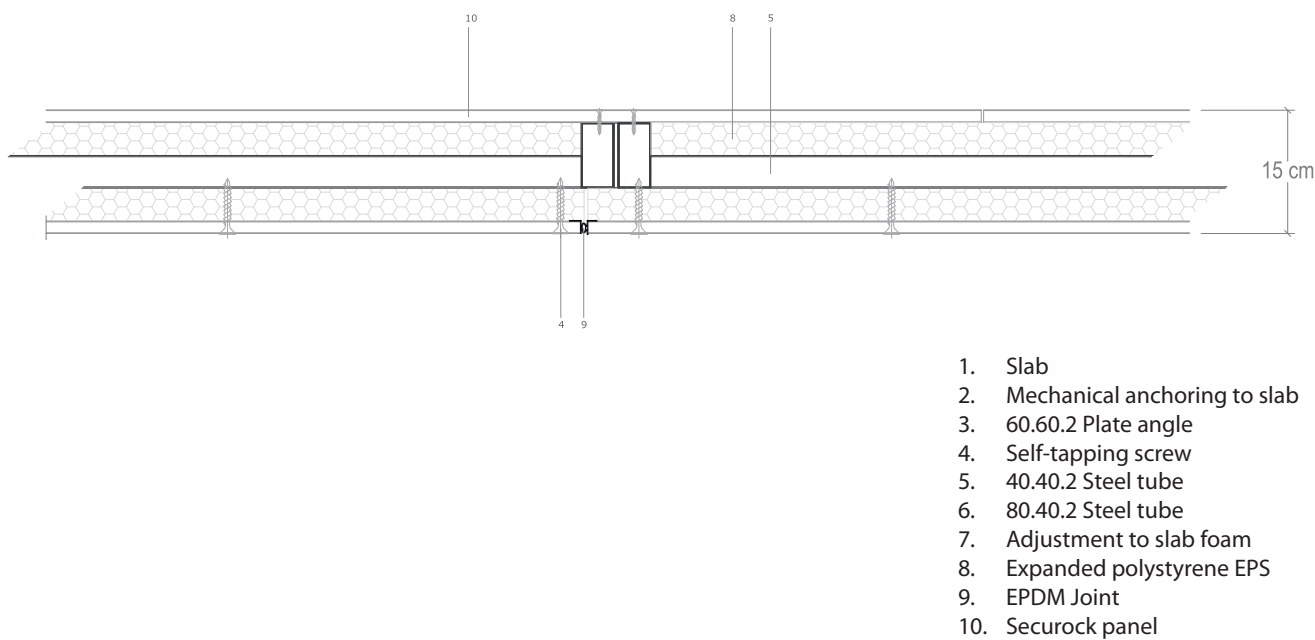
Modular system. Structure vertical cross-section



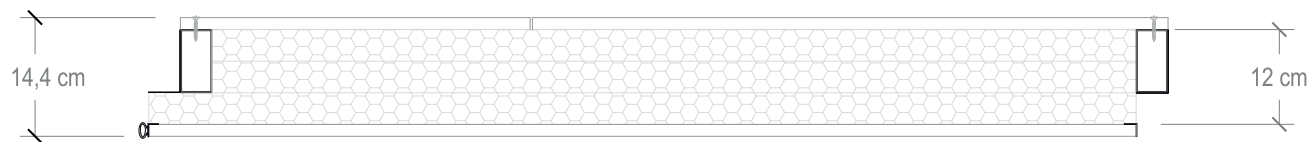
Modular system. Panel vertical cross-section



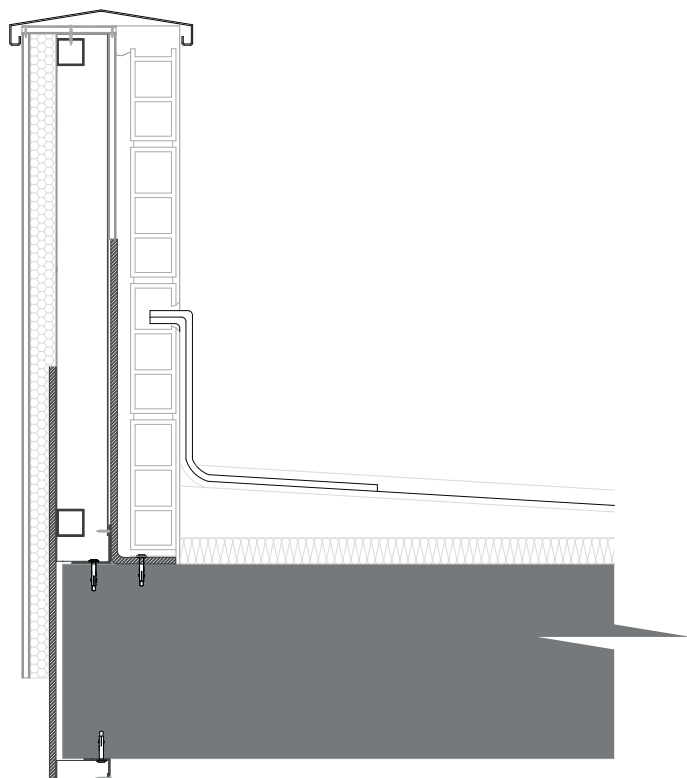
Modular system. Horizontal cross-section. Joint between panels



Modular system. Horizontal cross-section. Panel



Modular system. Crowning trim



SATEc system

The butech SATEc system is an Exterior Thermal Insulation system using exterior wall tiles from the PORCELANOSA Group. The system combines the technical features of the SATE systems with the natural surface quality of AIRSLATE from L'ANTIC COLONIAL.

Structure

The SATEc system consists of the following materials:

Preparation of the support.

Thermocem is a single-component cementitious mortar, modified with polymers for the bonding and plastering of exterior polystyrene thermal insulation systems. Characteristics:

- Compatible with XPS polystyrene panels
- Excellent tensile strength

Thermal insulation

SATEc XPS panels 1250 x 600 extruded polystyrene panels are designed for the thermal insulation of facades. They have a ribbed surface for a better mounting of the protective layer. Available in panels of between 30 to 120 mm thick. Characteristics:

- Low coefficient of thermal conductivity
- Direct placement on the support; without the need for a supporting structure.
- High tensile strength and compression resistant.
- CE designation code: T1-S (10/Y) 300-DLT (2) 5-DS (TH) -WL (T) 0.7-WD (V) 3-FT2

Bonding material

super flex S2 is a high performance powder free adhesive, suitable for the installation of all types of ceramic tiles on the most common supports used in construction. Specially recommended for the installation of large format, thin porcelain tiles such as XLIGHT by URBATEK. Characteristics:

- Maximum adhesion and deformability.
- Lightweight adhesive. Economical in use on site
- High initial adhesion without vertical sagging or slippage. Thixotropic
- Certified to standards (EN 12004): C2 E S2

Accessories

The SATEc installation system involves the use of a large number of profiles and complementary anchors. These include the following important components.

- SATEc panel anchors. Traversing the thickness of the panel they are anchored to the support. They support the weight of the facade.

System characteristics

This system has many advantages.

- PORCELANOSA Group exterior ceramic wall tiles
- Reduce the energy consumption of the building, thereby reducing the consumption of fossil fuels and emissions of CO₂
- Eliminate thermal bridges, particularly the forged type.
- Reduces thermal variations in the structural elements of the building, avoiding thermal shocks.
- Prevents the formation of condensation on the inside of the building.
- Protects the facade against cracks and possible moisture penetration
- A simple and easy to install system.
- Particularly suitable for rehabilitation:
 - Renews the appearance of the building.
 - Reduces building energy consumption by up to 50%, allowing a quick return on investment.
 - Improves the energy rating of the building.
 - Does not reduce the usable area of the building.
 - Does not prevent the use of the building during rehabilitation.

Types of exterior wall tiles

AIR SLATE Panels

THE AIR SLATE from L'ANTIC COLONIAL is a new collection of natural slate sheeting for covering large spaces quickly and easily.

Available in panels of 120 x 240 cm and a thickness of between 2 and 4 mm. This type of natural stone panel, ideal for large spaces, is supplied with a protective film on the back to strengthen its technical characteristics:

- Extremely lightweight: 4 - 4.35 kg / m²
- No water absorption: less than or equal to 1.5%
- Flexural strength: 102.2 MPa
- Reaction to fire: C-S2, d0
- Ease of cutting and handling.

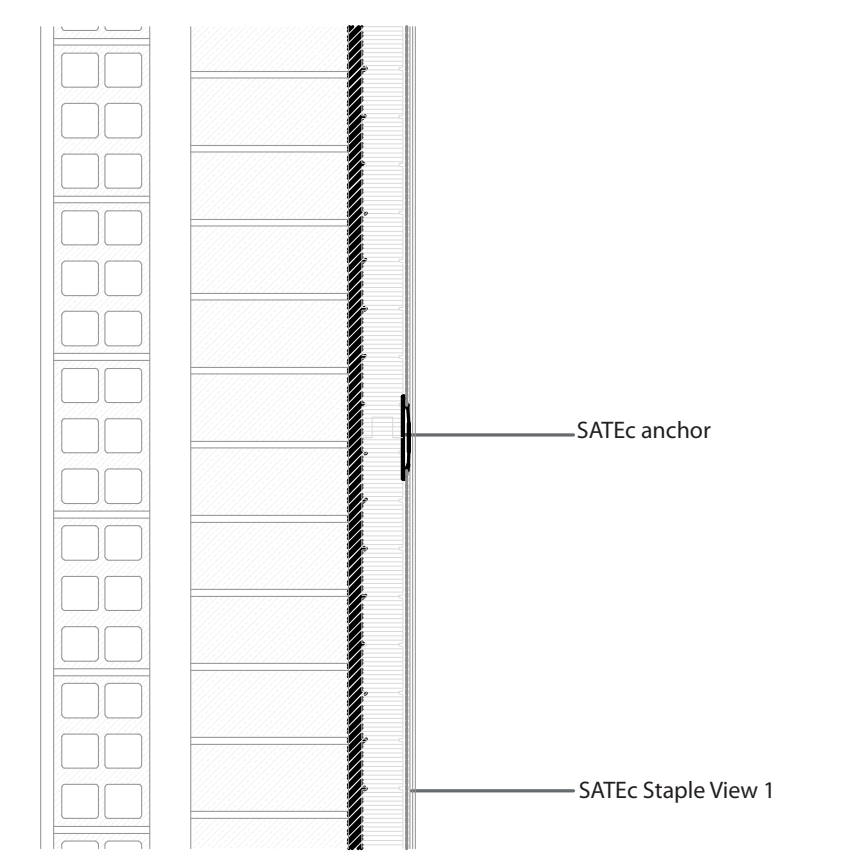
This material is available in various types of finish: Metal, Bombay, Delhi, Kathmandu, Forest, Kashmir and Graphite.

The panels of this natural ultrathin slate are supplied in sheets of 120 x 240 mm

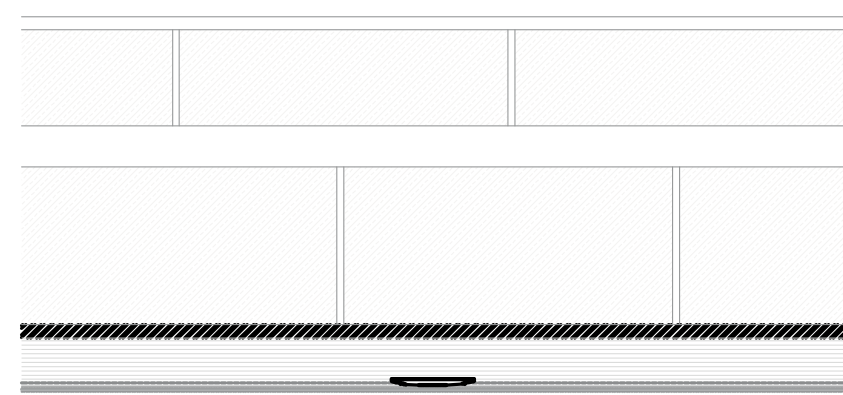


SATEc & Air Slate system technical details

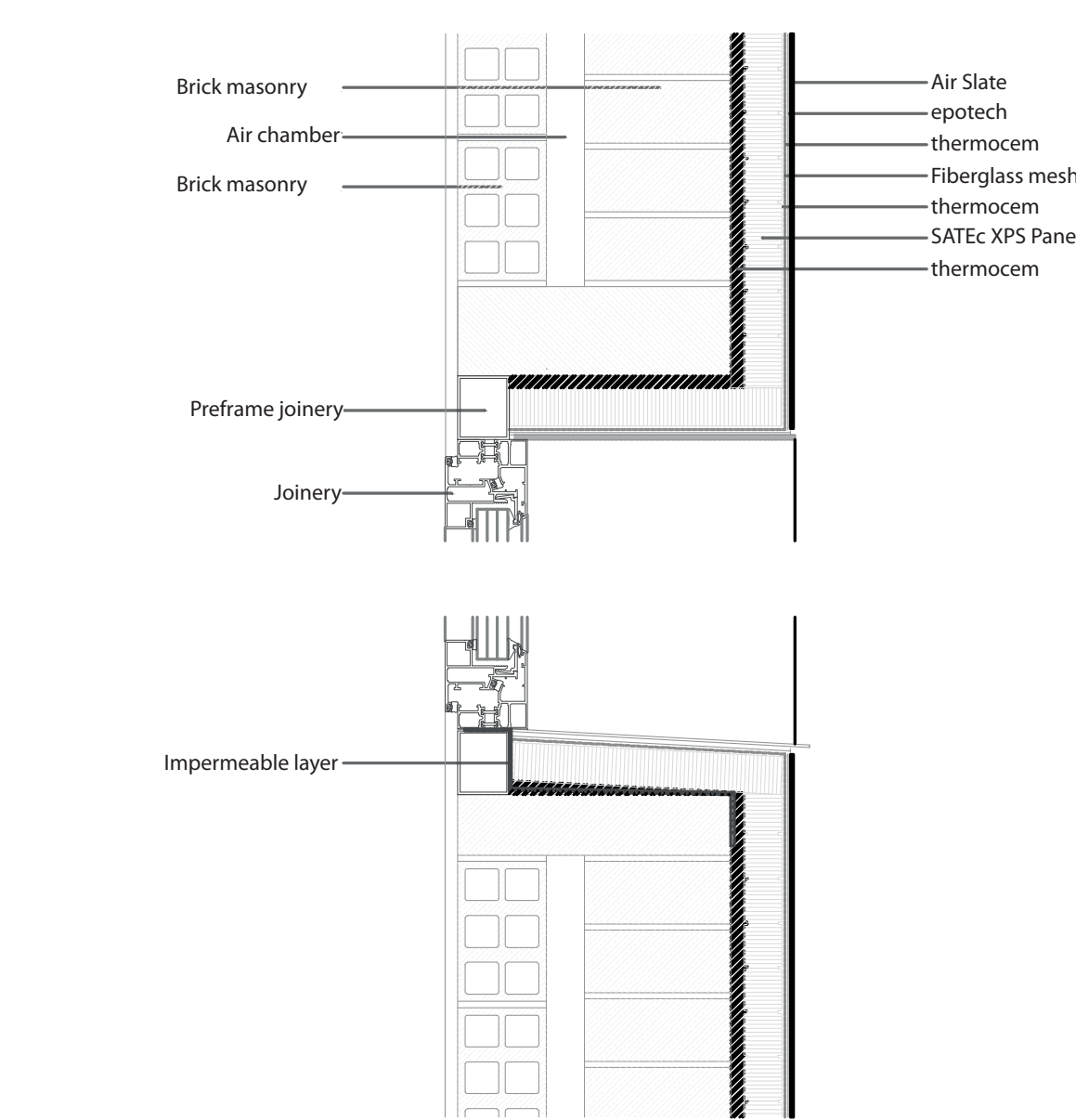
SATEc Air Slate system. Vertical section Wall



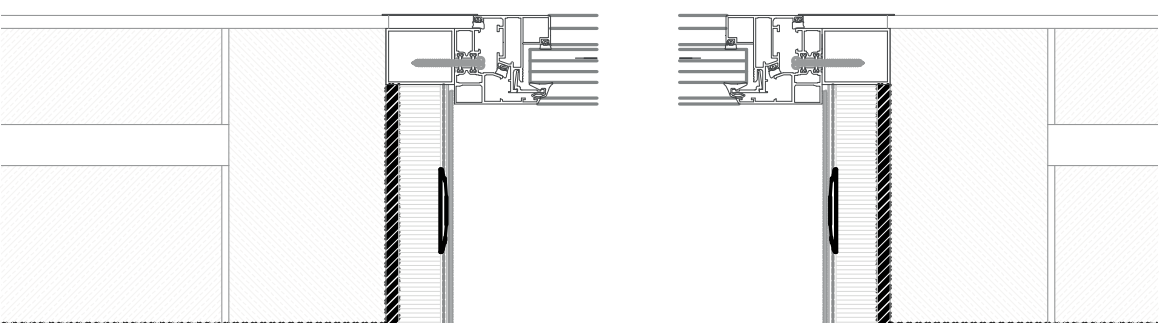
SATEc Air Slate system. Horizontal section. Wall



SATEc Air Slate system. Vertical section Gap / space



SATEc Air Slate system. Horizontal section. Gap / space



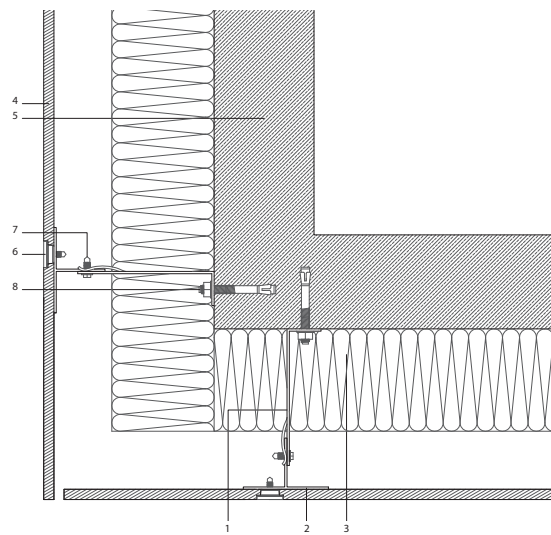


Ventilated façade & KRICN®

Institut d'Optique d'Aquitaine
7.000 m² KRION® Lux Snow White 1100
Talence - France
Arch. Agence Ragueneau & Roux

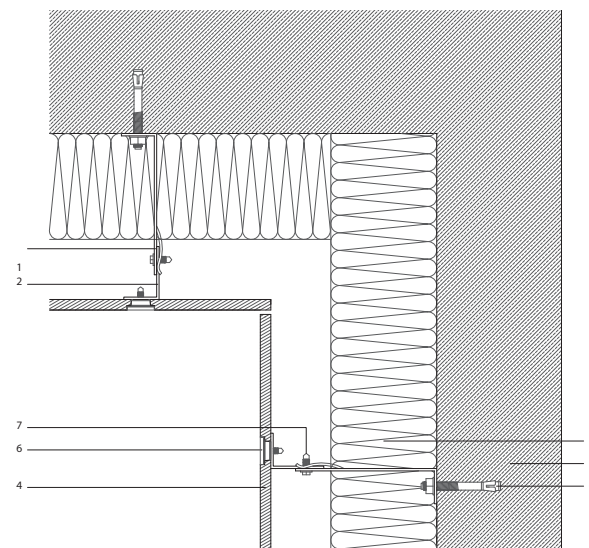


Corner

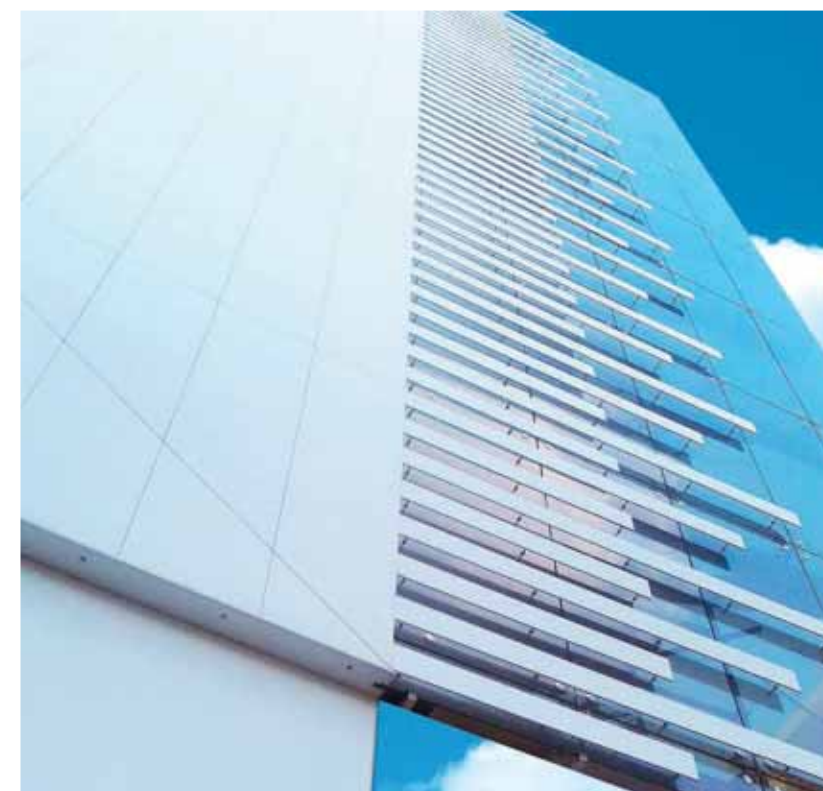


1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SN5 self-drilling screw.
8. Mechanical anchor.

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.



Tour Raffinity
1200 m² KRION® Lux Snow White 1100
Casablanca - Morocco
Arch. Hembert Peñaranda



Showroom Bershka

470 m² KRION® Lux Snow White 1100

Istanbul - Turkey

Arch. Castelvéciana arquitectos



Showroom Bershka
140 m² KRION® Lux Snow White 1100
Madrid - Spain
Arch. Castelviana arquitectos



Totem IN'ESS
600 m² KRION® Lux Snow White 1100
Narbonne - France
Arch. Ivan Tognella



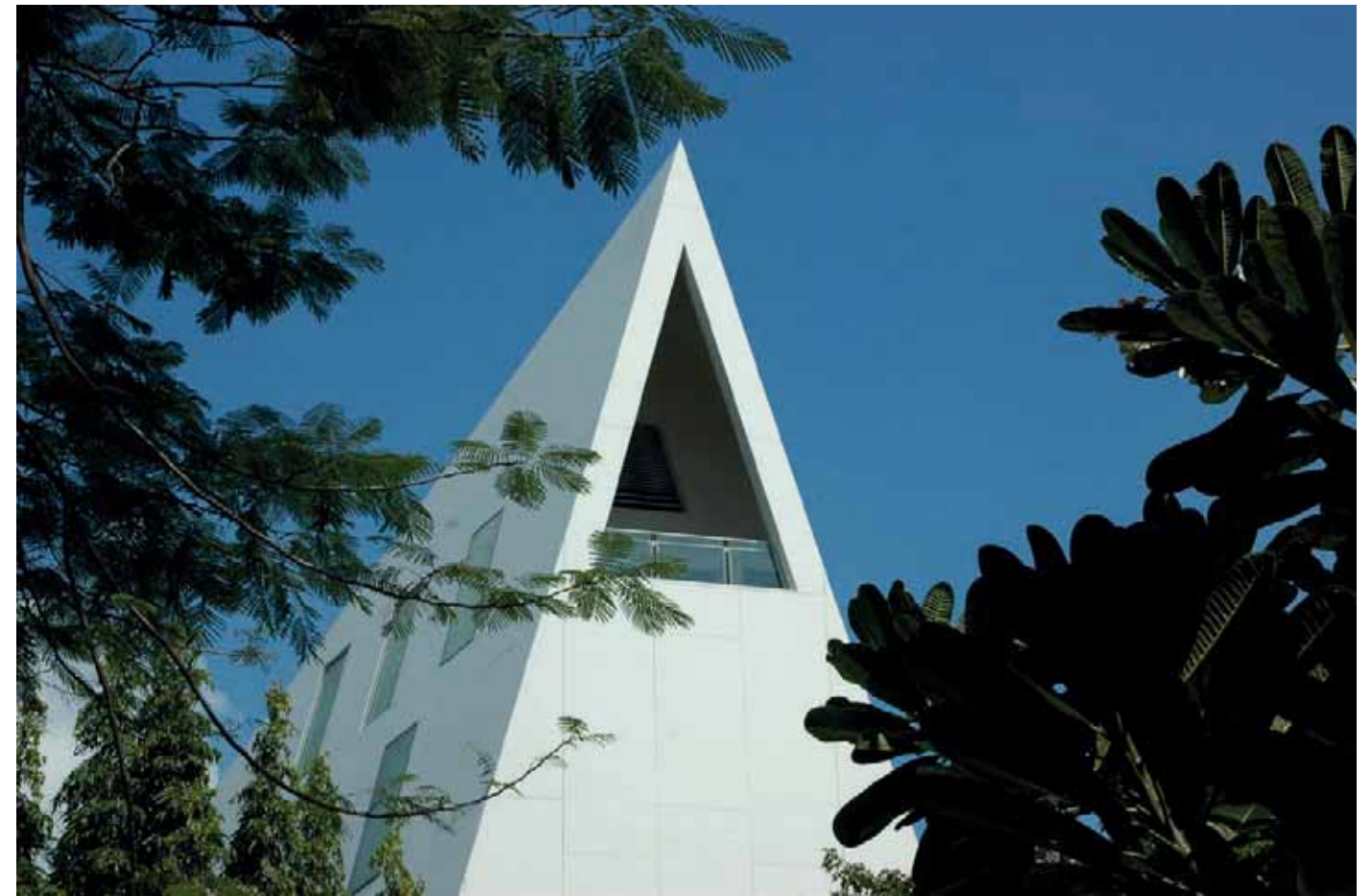
French Embassy

2700 m² KRION® Lux Snow White 1100

Bangkok - Thailand

Arch. Nicolas Moulin, ADPI





Apartment building

2700 m² KRION® Lux Snow White 1100

Meudon - France

Arch. Agence Architecture Lancuit





Photography: Rafael Navarro



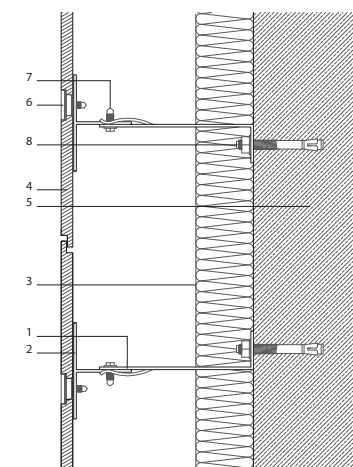
Photography: Rafael Navarro



Photography: Rafael Navarro

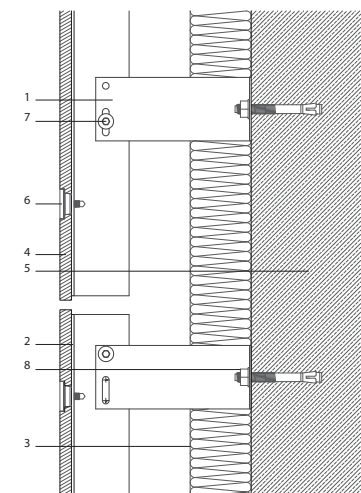
3M offices
400 m² KRION® Lux Snow White 1100
Madrid - Spain

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.

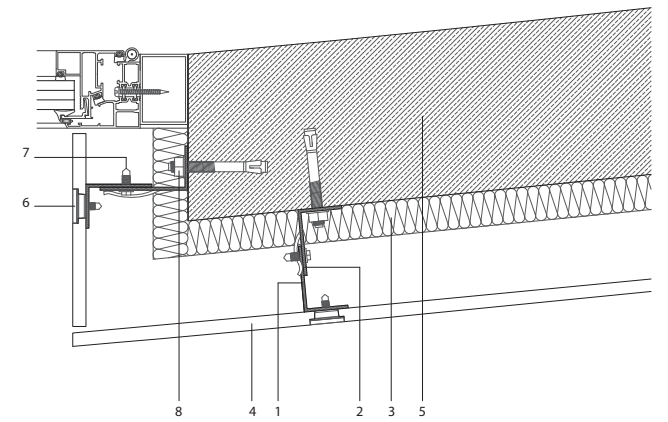


1. Aluminum vertical "T" profile.
2. Secondary aluminum "L" bracket.
3. Thermal insulation
4. KRION.
5. Wall.
6. KRION cap.
7. SN5 self-drilling screw.
8. Mechanical anchor.



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

650 m² KRION® Lux Snow White 1100
Arch. Fran Silvestre
Valencia - Spain





120-330m²
奢装样板
全球盛启
29966666
江新

Offices building
28.000 m² KRION® Lux Snow White 1100
Arch. Peddle Thorp Architects
Shenzhen - China





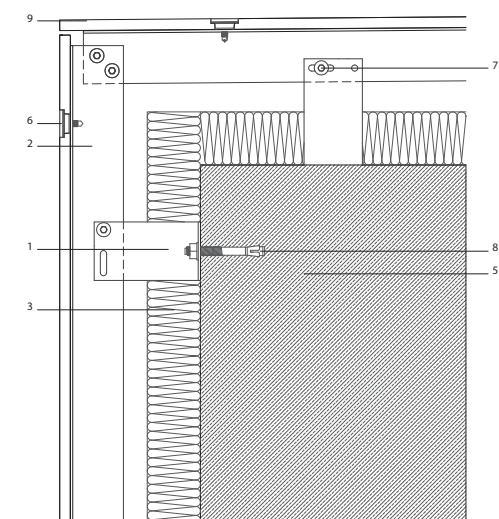
Offices building, Greda

3.000 m² KRION® Lux Snow White 1100

Arq. B+B Associati

Carpi - Italy

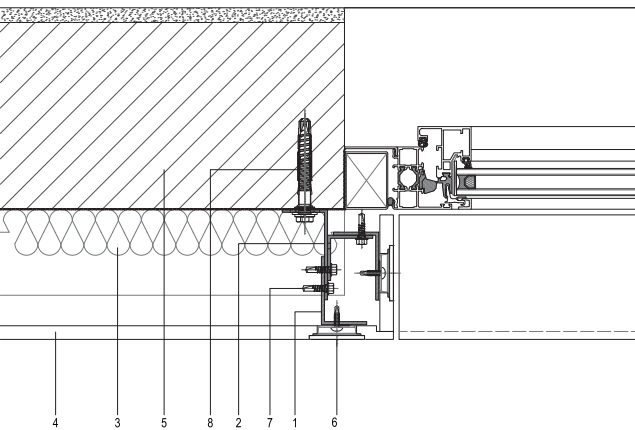
Coping



- 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.

Window of internal sides

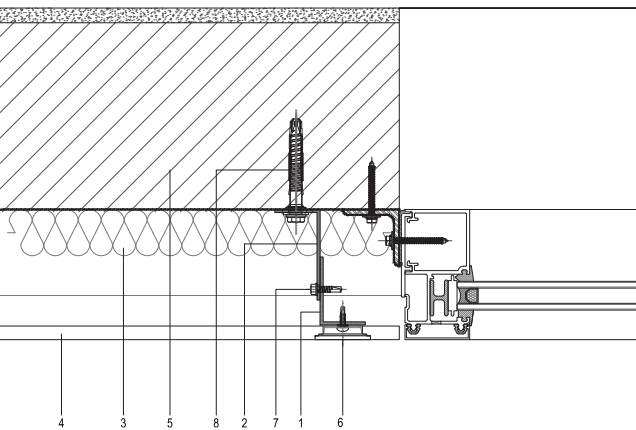
Horizontal cross-section



- 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.

Window of external sides

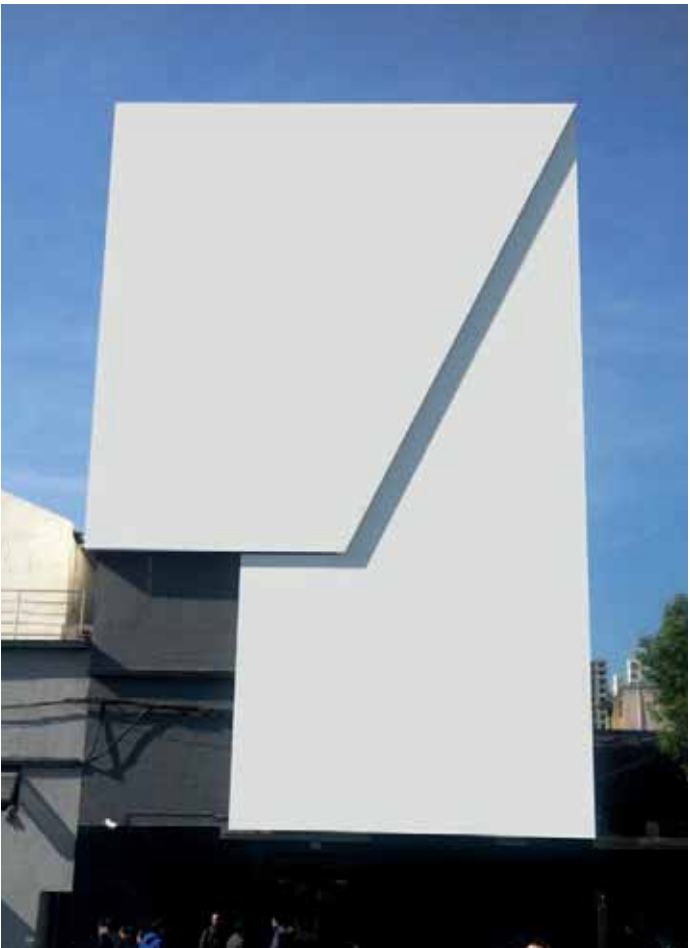
Horizontal cross-section



- 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.



Offices building, Vidal Sassoon
300 m² KRION® Lux Snow White 1100
Shangai - China



PORCELANOSA Showroom
350 m² KRION® Lux Snow White 1100
Houston - USA

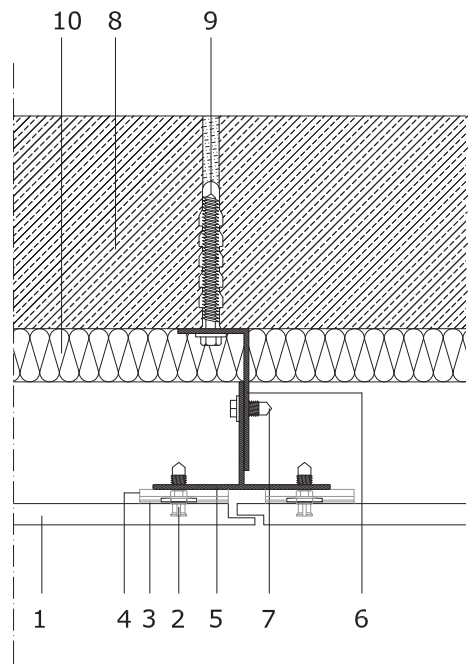
PORCELANOSA
TILE KITCHEN BATH HARDWOOD





Concealed anchoring. K-BOLT system.

Horizontal cross-section



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



Sud de France

700 m² KRION® Lux Snow White 1100

Montpellier - France

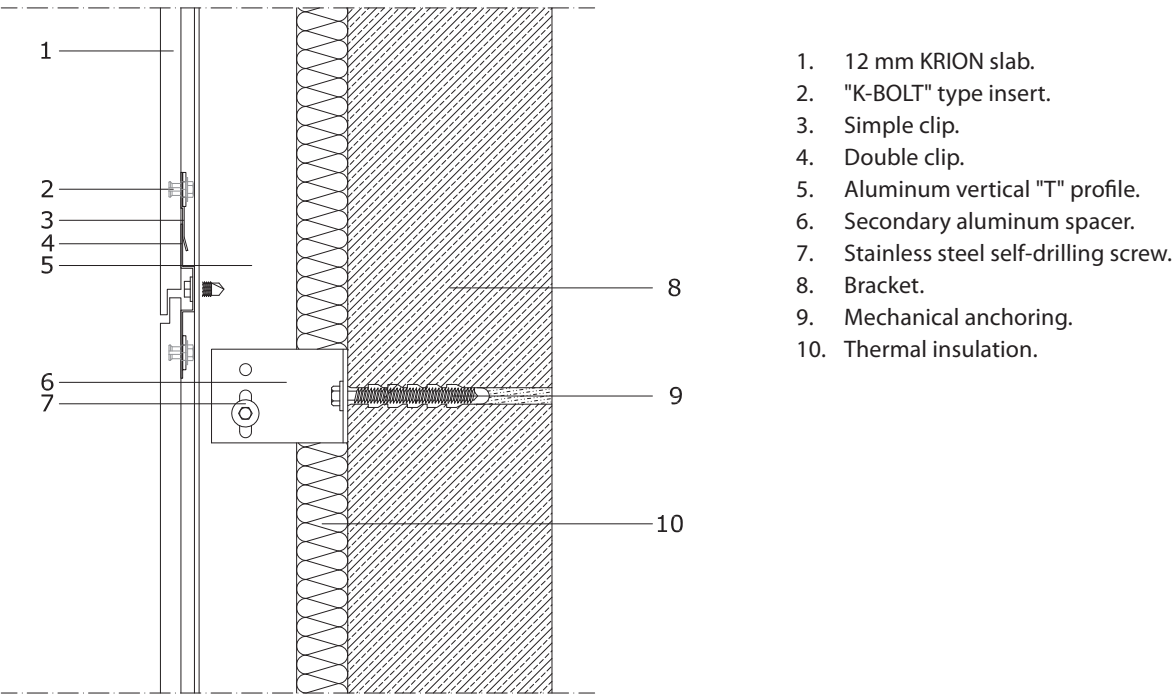
Arch. A+Architecture





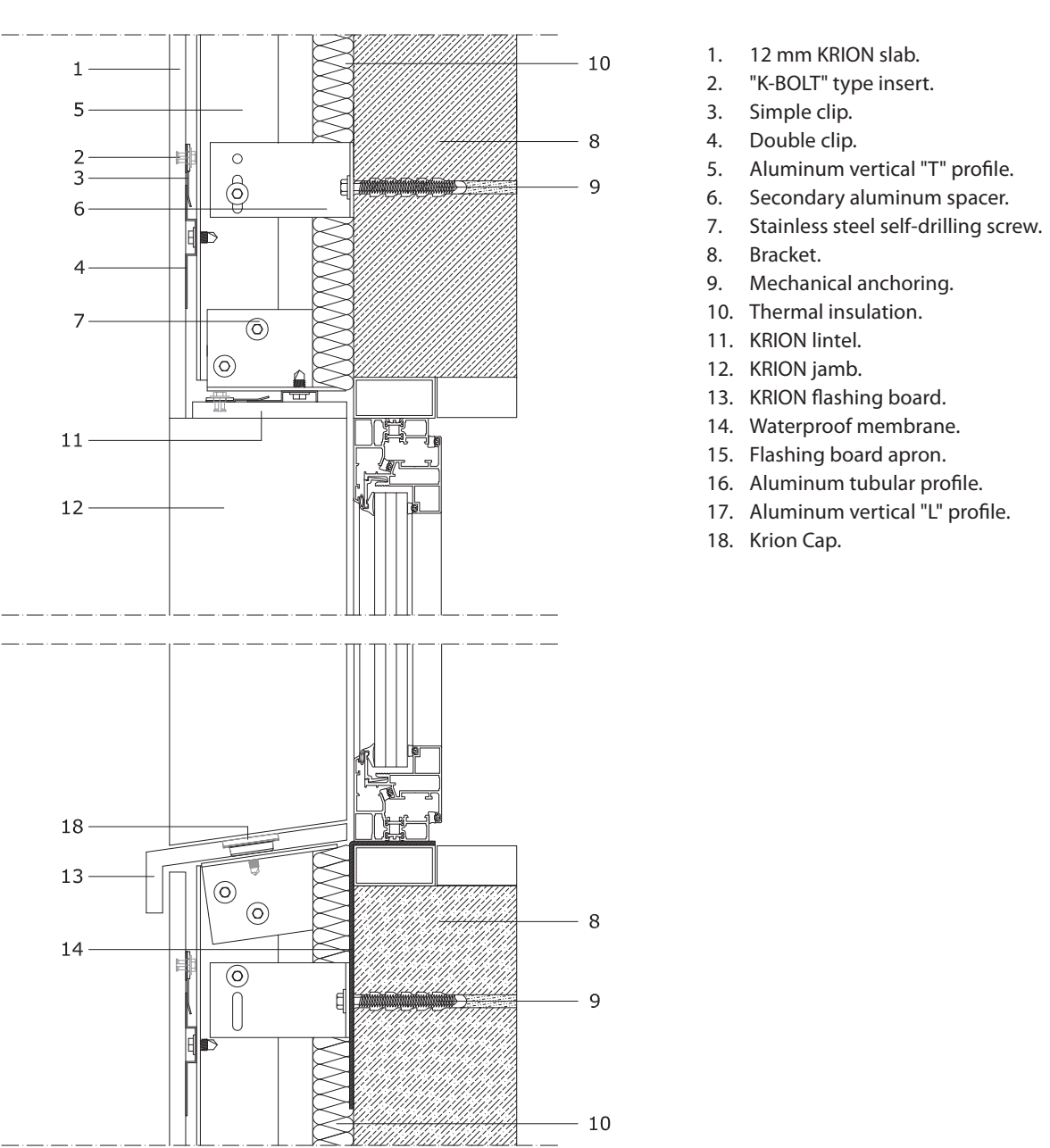
Concealed anchoring. K-BOLT system.

Vertical cross-section



Concealed anchoring. K-BOLT system.

Window with outer shafts with KRION dressings



Zenit Hotels

2.900 m² KRION® Lux Snow White 1100
San Sebastián - Spain



Portal Project
1.200 m² KRION® Lux Snow White 1100
Enschede - Netherlands
Arch. Artelier PRO



Photo: Hans Oude Luttikhuis

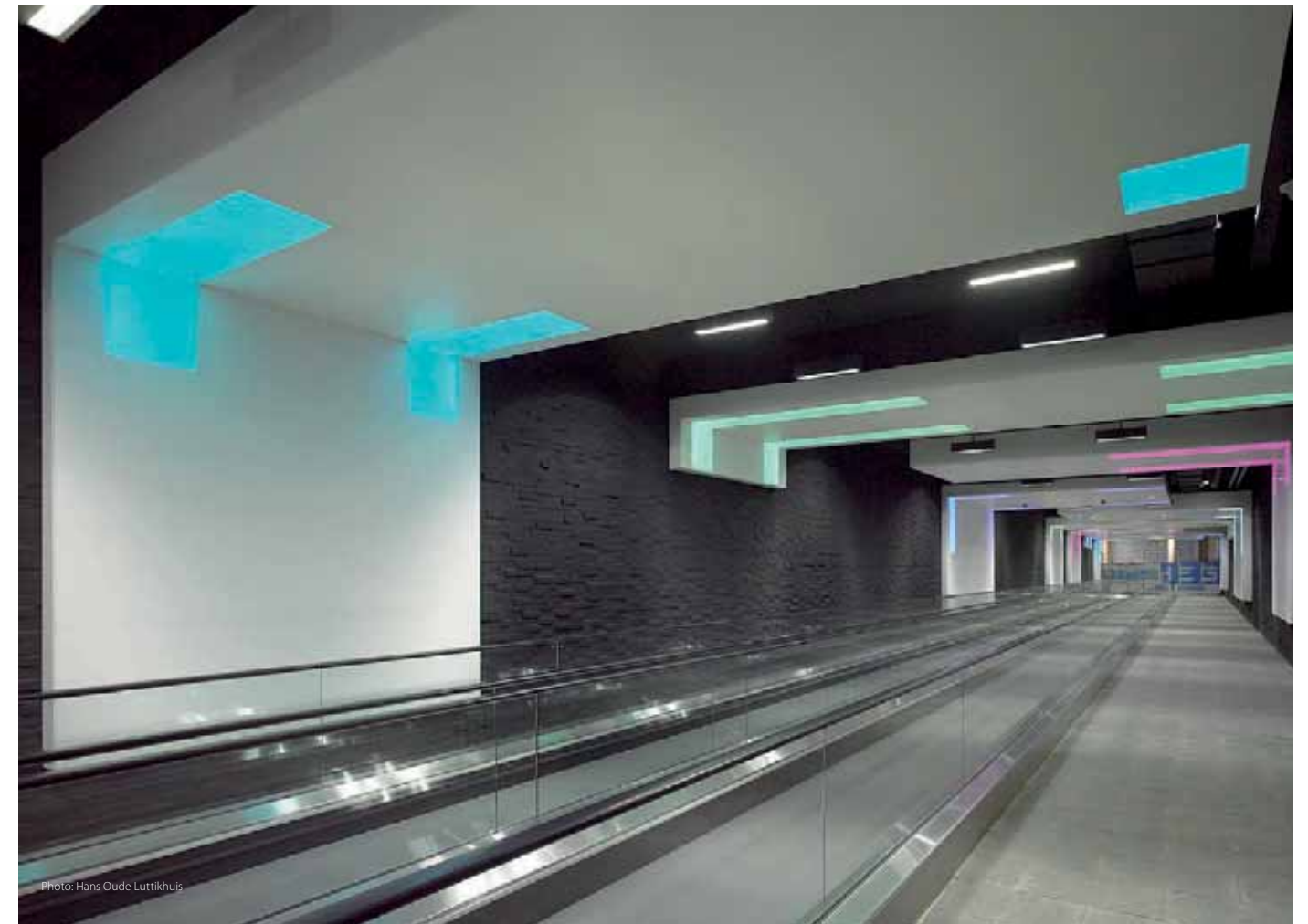


Photo: Hans Oude Luttikhuis

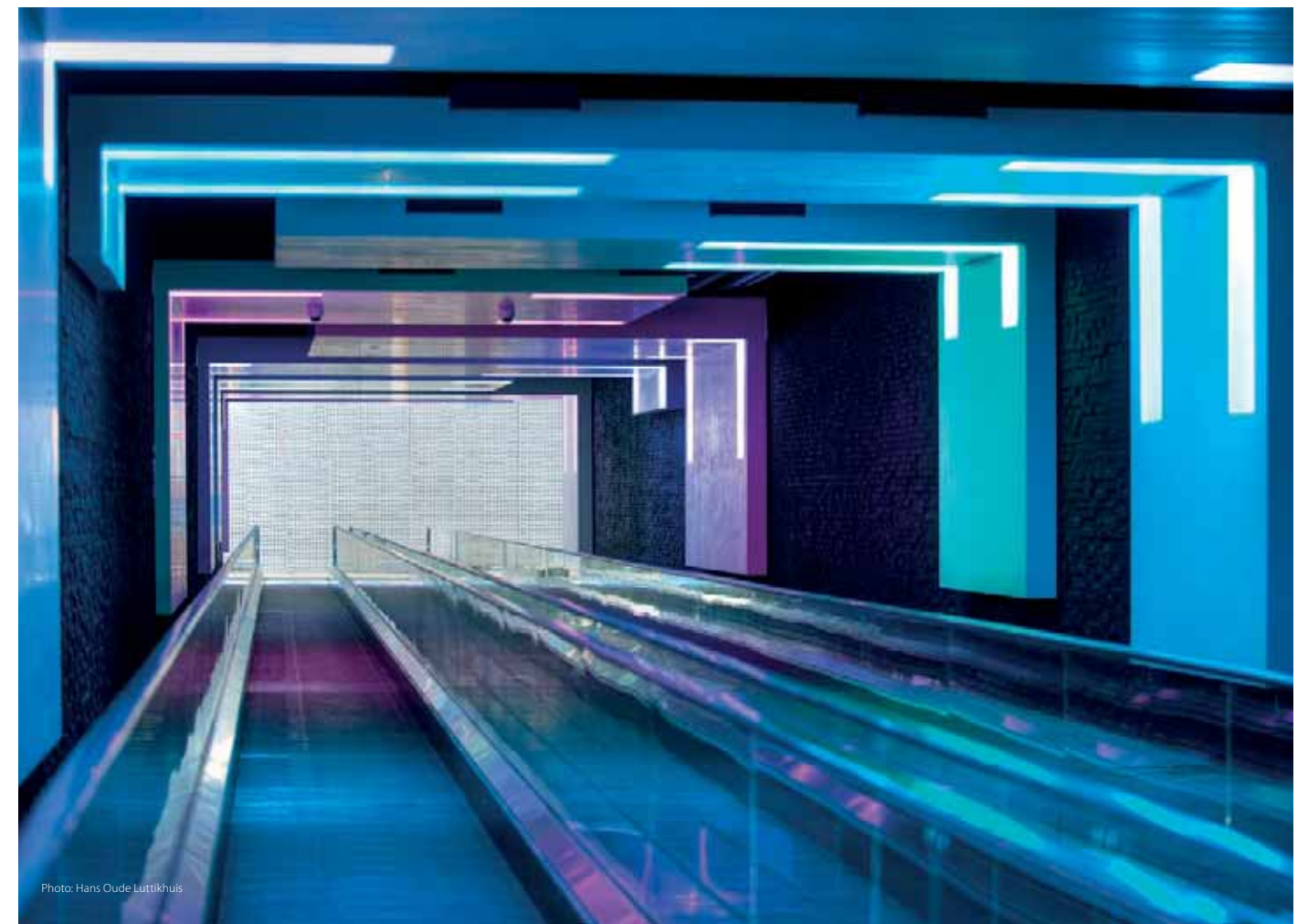
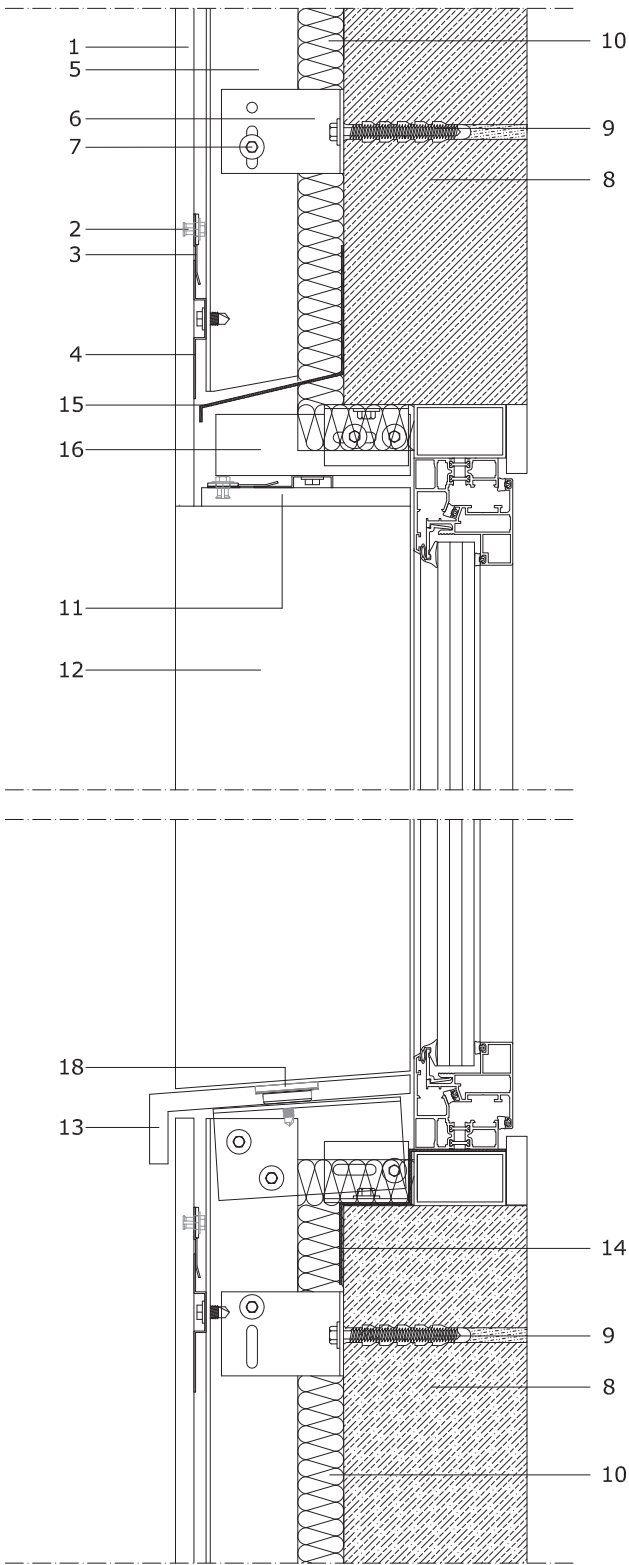


Photo: Hans Oude Luttikhuis

Concealed anchoring. K-BOLT system.

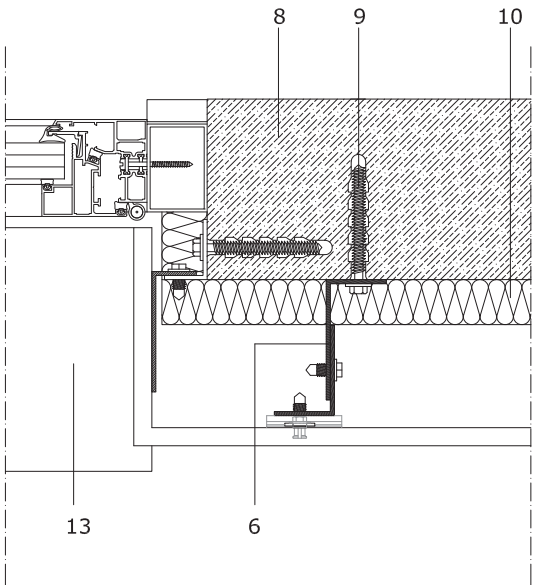
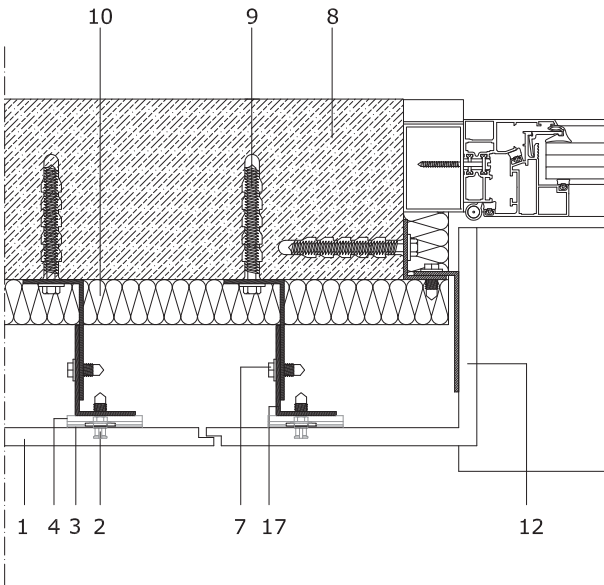
Window with inner shafts with KRION dressings



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

Concealed anchoring. K-BOLT system.

Window with inner shafts with KRION dressings



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

Centre Mondial de Recherche et Développement du Groupe ROULLIER
3000 m² Krion® Lux Light Grey 6902
Arch. Jean-Pierre Meignan
Saint Malo - France



Emporium Mall

2.500 m² KRION® Lux Snow White 1100

Arch. J+H Boiffils Paris

Bangkok - Thailand



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

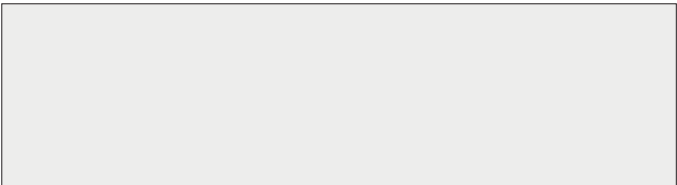
- Anti-graffiti.
- Fire-resistant.
- Resistant to cigarette burns.
- Eco-friendly.
- Antibacterial (no additives).
- Great durability.
- Resistant to high temperature.
- High degree of hardness and mechanical strength.
- Moldable.
- Large surfaces without joints.

Maintenance

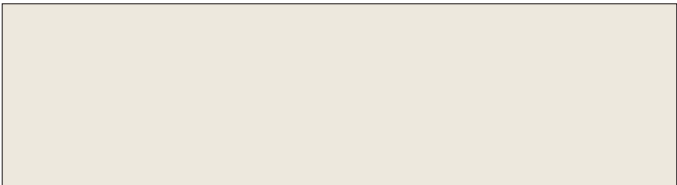
In order for the material to regain its initial state, butech recommends to strictly follow the manufacturer recommendations for cleaning tough stains, which are to rub the surface using a green fiber Scotch-Brite® scouring pad. This way the tough stains will disappear, so that any cleaning team will 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.

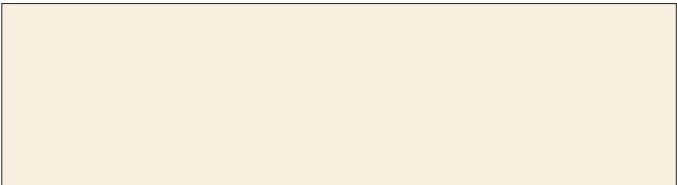
KRION Lux colours



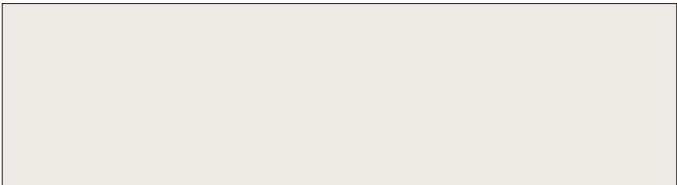
1100 Snow white



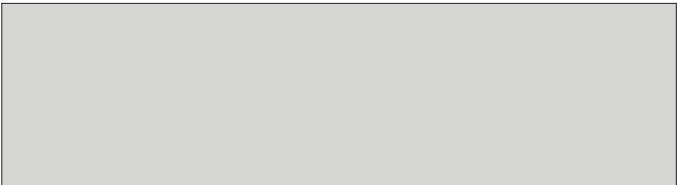
6101 Frost white



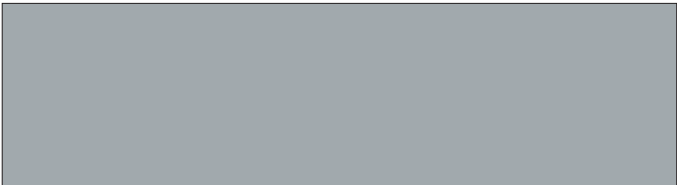
6501 Cream



6502 Pearl



6902 Light Grey



6903 Grey

Properties

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

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

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

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

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

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

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

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

fv KRION® Pure Lux Color variation: ΔE = 0.55

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

fv KRION® Stone Color variation: ΔE = 5.24

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

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

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

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

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

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

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

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

Documentation: AIMPLAS Tests in accordance with ISO 19712.

Resistant to both microbial and fungal attack and proliferation.
KRION vf complies with the most demanding hygienic-sanitary regulations, and is suitable for high requirement applications such as clean rooms or operating rooms.

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

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

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

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.	0.148	0.11
		mm³ / 100 rev.	82	64
Immersion in boiling water	DIN ISO 4586 T7	Weight %	0.2	0.25
Resistance to bacteria and fungi	DIN EN ISO 846		Do NOT thrive	Do NOT thrive
Dimensional stability 20 °C	DIN ISO 4586 T10	% change in length	0.01 (90% HR and 23% HR)	0.02 (90% HR) and 0.08 (23% HR)
Resistance to dry heat 180 °C	ISO 19712-2	4	Slight change brightness/color	Slight change brightness/color
Translucency (xenon arc)	DIN ISO 4586 T16	“Blue wool”	> 6	> 6
Non-slip properties	UNE-ENV 12633:2003 (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 x 10 ¹⁰	>5.1 x 10 ¹⁰
Surface resistivity	UNE 21-303:1983	Ω	579.1 x 10 ⁻⁹	>1 x 10 ⁻⁹
Toxicity of combustion gases	NF F 16-101		Class F0	Class F0
Fire classification	EN 13501-1:2003		Euroclass B, s1, d0	Euroclass B, s1, d0
Thermal conductivity	UNE 1267 (2002)	W / m²	q = 113.1	q = 113.1
	UNE 1267 (2002)	m² . K / W	R < 0.05	R = 0.05
	UNE 1267 (2002)	W / m . K	λ approx. 0.428	λ = 0.396
Resistance to thermal shock (90 - 20 °C)	ISO 19712-2 (Sheet)	250 Cycles	Satisfactory	Satisfactory
Resistance to thermal shock (65 - 10 °C)	ISO 19712-3 (Shape)	500 Cycles	Satisfactory	Satisfactory

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

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.

Ensure that the caps are clean and dry before fixing.



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

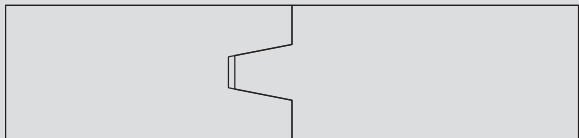
Test list:

- Resistance tests to wind effects: report of CSTB tests no. CLC 12-26037368 of 07/03/0212.
- Resistance tests to wind effects after fatigue: report of CSTB tests no. CLC 12-26037925 of 14/03/0212.
- Impact resistance tests: report of CSTB tests no. CLC 12-26037369 of 19/09/2012.
- Insert pull-out resistance tests, flexural and tensile strength tests on the welded joints, in the initial state and after aging and heat + humidity: report of CSTB tests no. CLC 12-26037398/26037404 of 03/08/2012.
- Insert pull-out resistance tests, flexural and tensile strength tests on the welded joints, after ice / thaw cycles: report of CSTB tests no. CLC 12-26037400/26037404 of 03/08/2012.
- Reaction to fire tests: PV number 1010100-01CL and 1010122-01CL, carried out at the Institute AIDICO Technical Fire Center, in Spain.

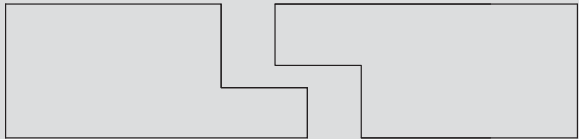
Done at the AIDICO Institute Technical Center Fire in Spain.



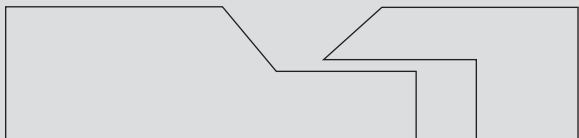
Tongue and Groove for sheet joining



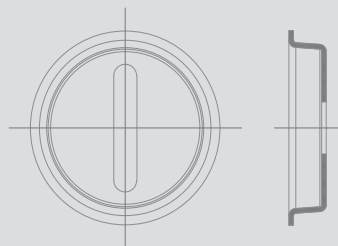
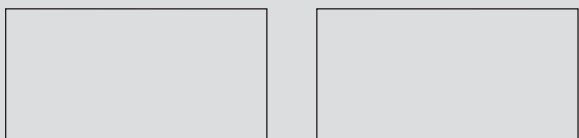
Expansion recessing 1



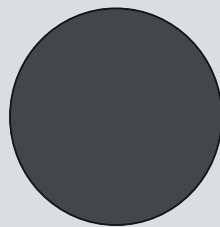
Expansion recessing 2



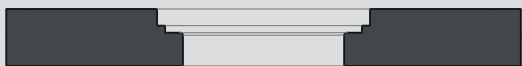
Open joint



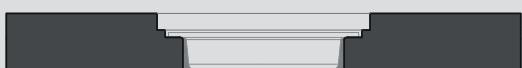
Detail of the anchor sleeve on the KRION tubular profile



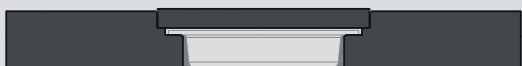
KRION cap



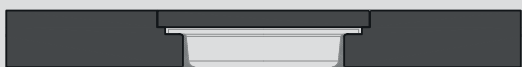
Step 1



Step 2



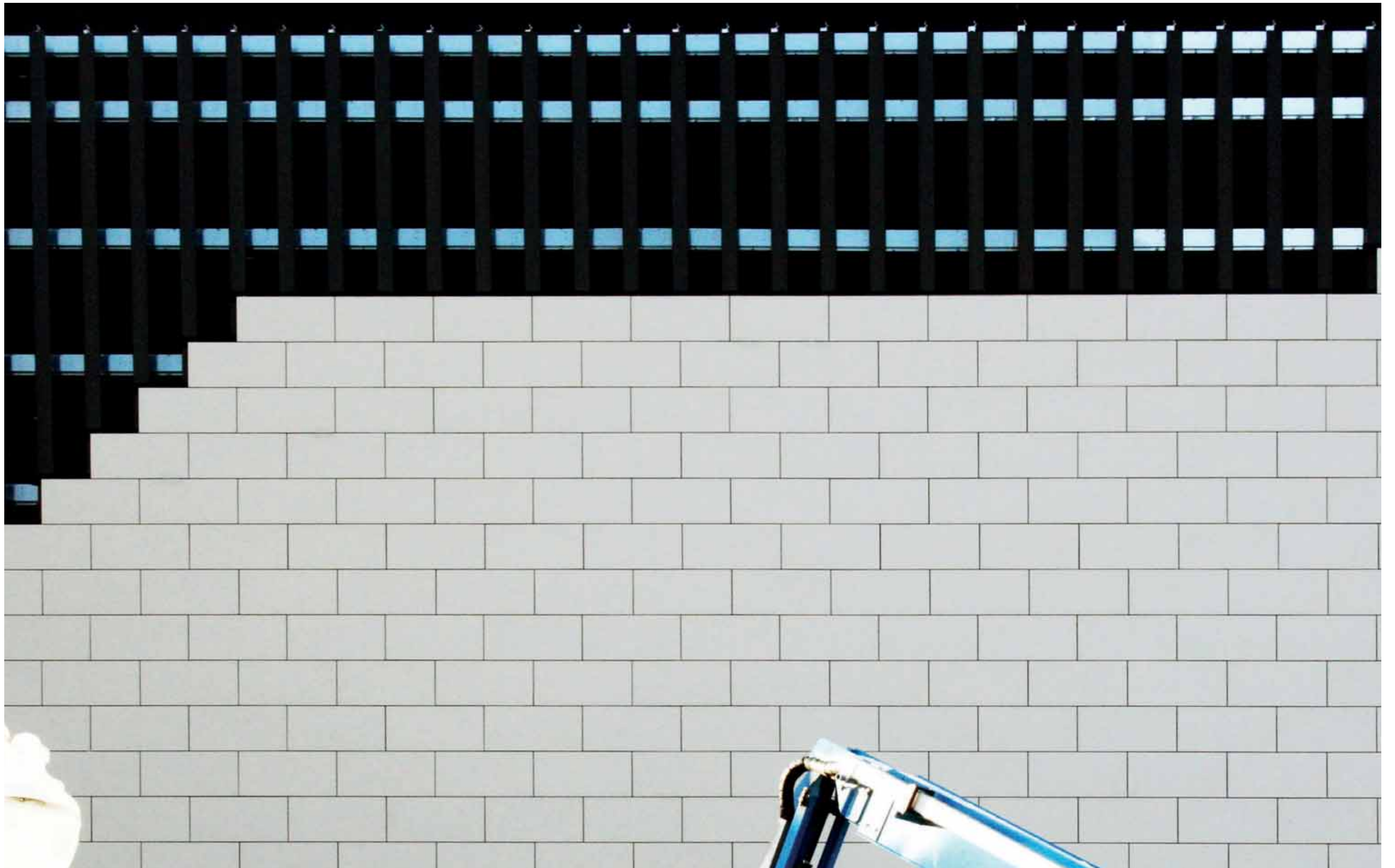
Step 3



Step 4



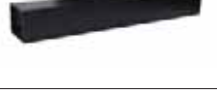
Private House
Krion® Lux Light 1100
Gavà - Spain



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.)
	B80400023	100044395	Aluminium T-profile 100/60/2.7 ml (3 ^{15/16"} / 2 ^{6/16"} / 1/8") black	2.35 (4.4 lb/unit)
	B86001002	100006226	L-profile 40/60/2.73 ml (1 ^{9/16"} / 2 ^{6/16"} / 1/8") black	2.067 (4.409 lb/unit)
	B80400179	100091668	FV 80x20x2mm (3 ^{2/16"} x13/16"x5/64" 118 ^{2/16"}) 3m long aluminum tubular profile	3.12 (6.61 lb/unit)
	B80400370	100104531	FV 80x60x2.5mm (3 ^{2/16"} x26/16"x2/16" 118 ^{2/16"}) 3m long aluminum tubular profile	5.64 (11.02 lb/unit)
	B80400440	100111024	FV omega profile alu. 20X140x3000 mm (25/32"x5 ^{33/64"} x118 ^{7/64"})	2.850 (6.28 lb/unit)
	B80401132	100150582	Single aluminium angle bracket. length 40 mm (1 ^{37/64"})	0,056 (0.12 lb/unit)
	B86001003	100006227	Single aluminium angle bracket. length 60 mm (2 ^{6/16"})	0.081 (0.17 lb/unit)
	B86001005	100006229	Single aluminium angle bracket. length 80 mm (3 ^{2/16"})	0.081 (0.17 lb/unit)
	B86001009	100006233	Single aluminium angle bracket. length 100 mm (3 ^{15/16"})	0.090 (0.19 lb/unit)
	B86001007	100006231	Single aluminium angle bracket. length 120 mm (4 ^{12/16"})	0.095 (0.209 lb/unit)
	B86001011	100006235	Single aluminium angle bracket. length 140 mm (5 ^{8/16"})	0.106 (0.23 lb/unit)
	B86001013	100006237	Single aluminium angle bracket. length 160 mm (6 ^{5/16"})	0.119 (0.26 lb/unit)
	B80400167	100091005	Single aluminium angle bracket. length 175 mm (6 ^{11/16"})	0.195 (0.42 lb/unit)
	B80400157	100089332	Single aluminium angle bracket. length 200 mm (7 ^{14/16"})	0.174 (0.38 lb/unit)
	B80401142	100150855	Single aluminium angle bracket. length 220 mm (8 ^{21/32"})	0,150 (0.33 lb/unit)
	B80401149	100150831	Single aluminium angle bracket. length 240 mm (9 ^{29/64"})	0,160 (0.35 lb/unit)
	B80401148	100150832	Single aluminium angle bracket. length 260 mm (10 ^{15/64"})	0,220 (0.48 lb/unit)
	B86001004	100006228	Double aluminium angle bracket. length 60 mm (2 ^{6/16"})	0.19 (0.41 lb/unit)
	B86001006	100006230	Double aluminium angle bracket. length 80 mm (3 ^{2/16"})	0.19 (0.41 lb/unit)
	B86001010	100006234	Double aluminium angle bracket. length 100 mm (3 ^{15/16"})	0.158 (0.34 lb/unit)
	B86001008	100006232	Double aluminium angle bracket. length 120 mm (4 ^{12/16"})	0.173 (0.38 lb/unit)
	B86001012	100006236	Double aluminium angle bracket. length 140 mm (5 ^{8/16"})	0.196 (0.43 lb/unit)
	B86001014	100006238	Double aluminium angle bracket. length 160 mm (6 ^{5/16"})	0.224 (0.49 lb/unit)
	B80400166	100091004	Double aluminium angle bracket. length 175 mm (6 ^{11/16"})	0.292 (0.64 lb/unit)
	B80400101	100085742	Double aluminium angle bracket. length 200 mm (7 ^{14/16"})	0.200 (0.44 lb/unit)
	B80401143	100150850	Double aluminium angle bracket. length 220 mm (8 ^{21/32"})	0,360 (0.79 lb/unit)
	B80401147	100150851	Double aluminium angle bracket. length 240 mm (9 ^{29/64"})	0,390 (0.85 lb/unit)
	B80400014	100044382	Invisible central stainless steel fixing clip. 5 mm (3/16") of joint	0.08 (0.16 lb/unit)
	B80400015	100044385	Invisible central stainless steel fixing clip. 8 mm (5/16") of joint	0.08 (0.16 lb/unit)
	B80400013	100044383	Invisible side stainless steel fixing clip. 5 mm (3/16") of joint	0.08 (0.16 lb/unit)
	B80400019	100044386	Invisible side stainless steel fixing clip. 8 mm (5/16") of joint	0.08 (0.16 lb/unit)
	B80400016	100044384	Invisible start/end fixing clip	0.08 (0.16 lb/unit)

	KEA	SAP	DESCRIPTION	WEIGHT (kg/ud.)
	B80400017 B80400021	100044387 100044390	Visible central stainless steel fixing clip, 5 mm (3/16") joint	0.08 (0.16 lb/unit)
			Visible central stainless steel fixing clip, 8 mm (5/16") joint	0.08 (0.16 lb/unit)
	B80400020 B80400022	100044388 100044391	Visible side stainless steel fixing clip, 5 mm (3/16") joint	0.08 (0.16 lb/unit)
			Visible side stainless steel fixing clip, 8 mm (5/16") joint	0.08 (0.16 lb/unit)
	B80400018	100044389	Visible stainless steel start/end fixing clip	0.08 (0.16 lb/unit)
	B80400009	100008164	Invisible staggered stainless steel fixing clip, 5 mm (3/16") joint	0.08 (0.16 lb/unit)
	B80400055	100069418	Wall plug with pre-assembled galvanised steel screw	0.030 (0.066 lb/unit)
			Wall plug with pre-assembled stainless steel screw	
	B86003006	100006262	Galvanised steel washer	0.006 (0.013 lb/unit)
			Stainless steel washer	
	B86003004	100006260	M10 galvanised steel expansion plug	0.034 (0.074 lb/unit)
			M10 stainless steel expansion plug	
	B86003001	100006257	Self drilling screw for bracket/profile, 5.5 x 22 mm (7/32"x50/64")	0.004 (0.0088 lb/unit)
	B86003002	100006258	Stainless steel self drilling screw for bracket/screw 4,2x13 mm (27/64"x6/16")	0.001 (0.0022 lb/unit)
	B80400442	100111026	FV union l/t esp 5.5x50 mm (7/32"x1 ^{31/32"}) c/a screw	0.010 (0.022 lb/unit)
	B82401003	100005820	310 ml mastic cartridge, P-404 black	0.31 (0.683 lb/unit)
	B41061003	100061831	FV chemical anchor adhesive	0.540 (1.19 lb/ut)
	B80400029	100061835	FV chemical anchor rod	0.068 (0.149 lb/ut)
	B80400030	100061834	FV chemical anchor plug	0.01 (0.022 lb/ut)



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



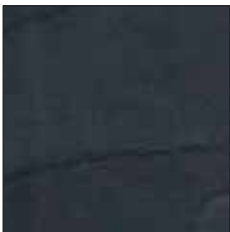
Travertino moka



Tukuman



Pampa



Patagonia



Granito silver



Nepal



Granito coal

Mechanical properties

	Alloy	Rm (N/²)	Rp 0.2 (N/²)	A50%	HRB
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)



Rihat Hotel
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



Single concealed clip



Single concealed start clip



Visible clip



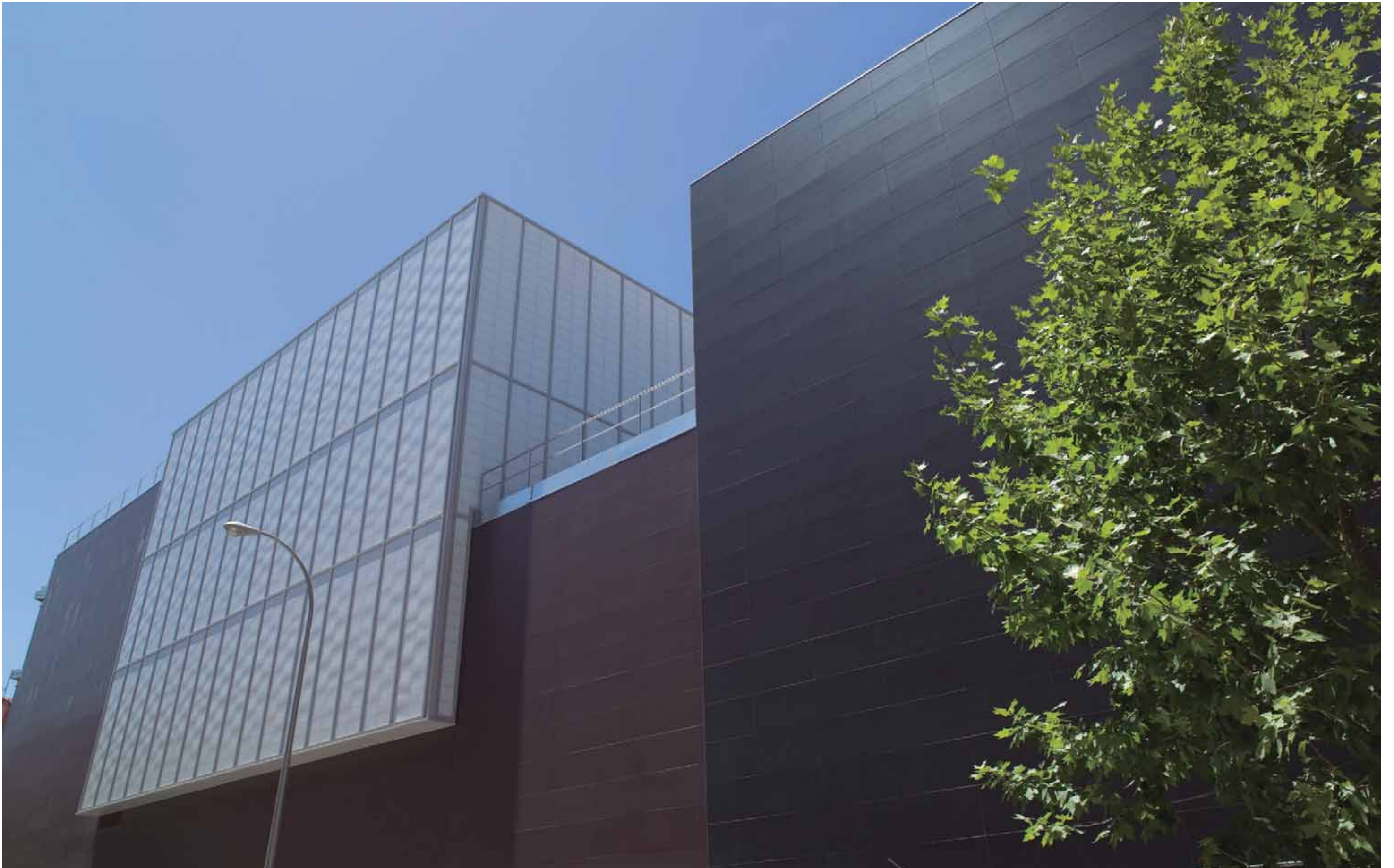
Visible start clip



System



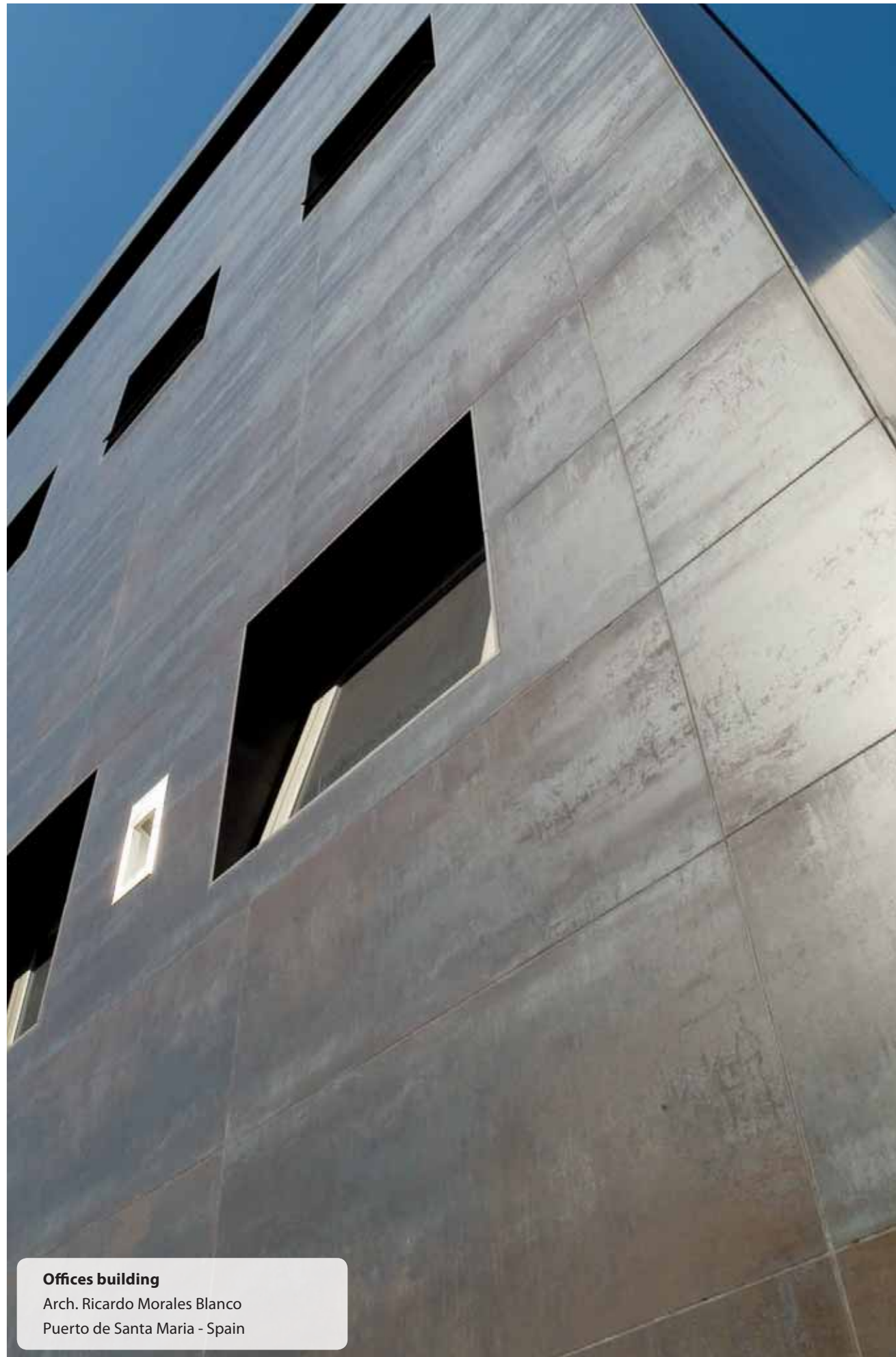
- 1. FV-STONE profile
- 2. Load-bearing bracket
- 3. Square safety washer
- 4. Expansion screw
- 5. DIN 7976 screw
- 6. Double concealed clip
- 7. Lag screw with nylon rawl plug
- 8. Support bracket
- 9. DIN 7976 screw
- 10. Double concealed start clip



Bonded façade

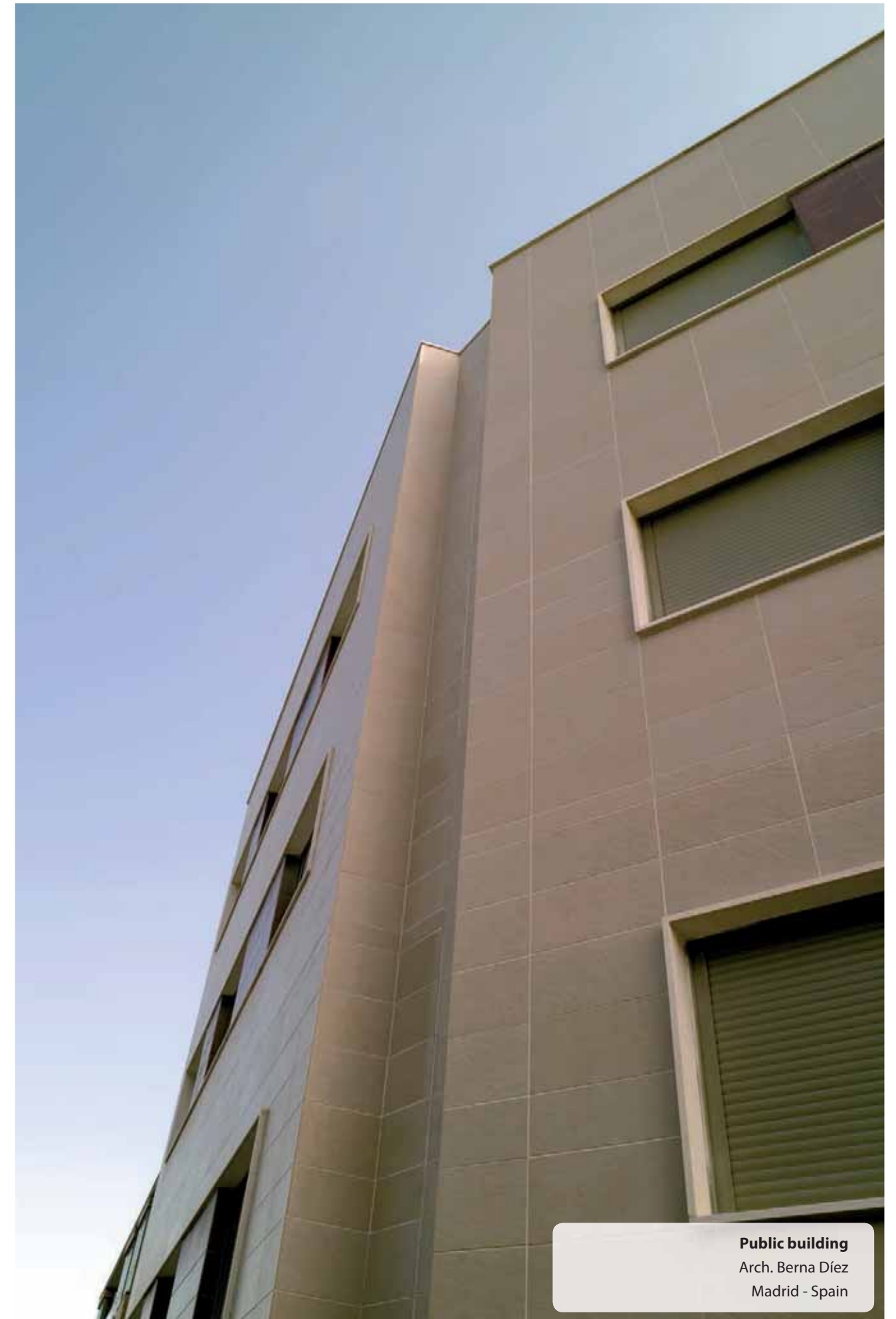


Single-family building
Valencia - Spain



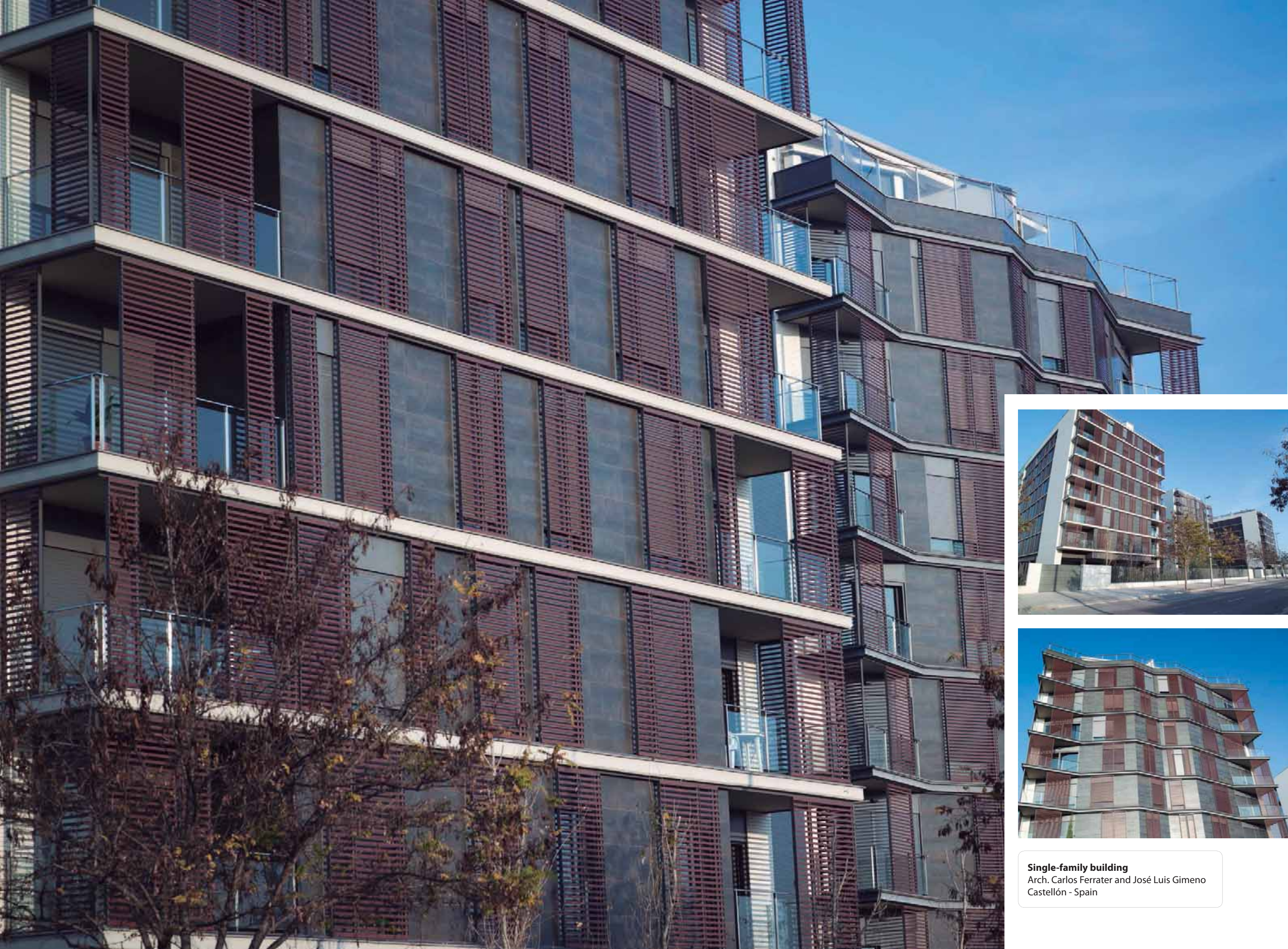
Offices building

Arch. Ricardo Morales Blanco
Puerto de Santa Maria - Spain

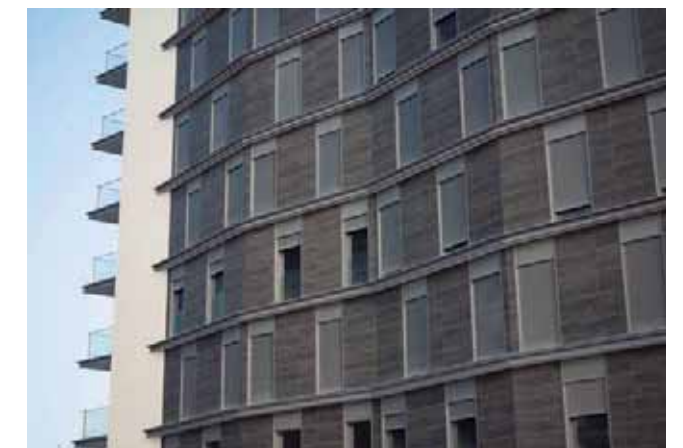
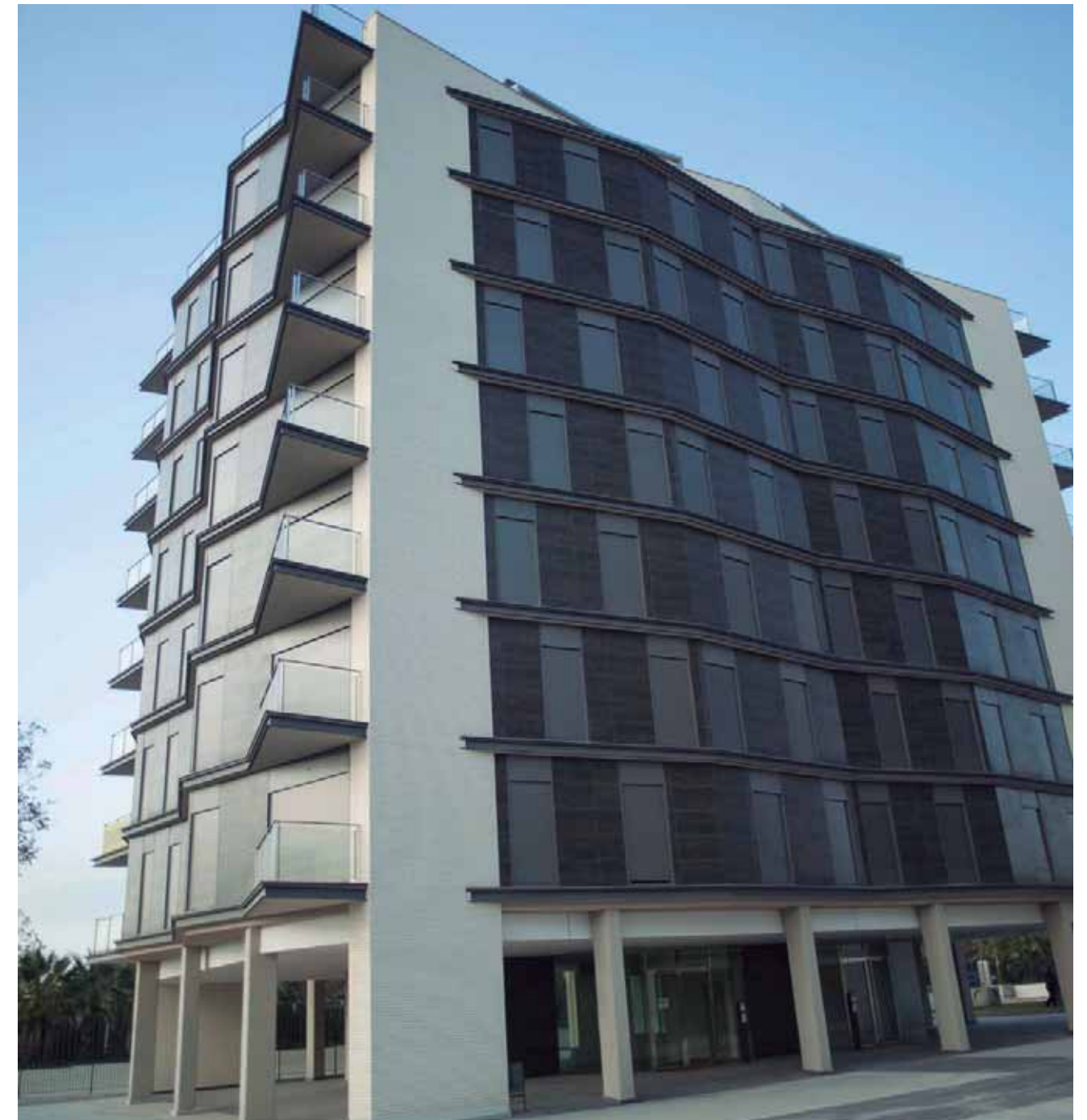


Public building

Arch. Berna Díez
Madrid - Spain



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



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

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



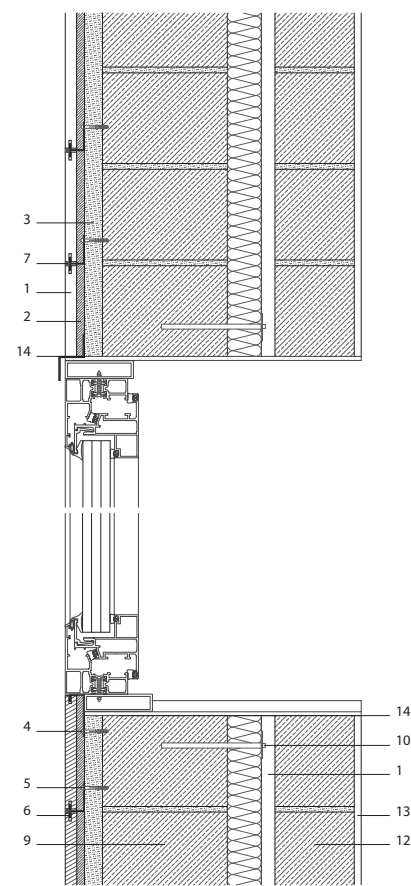
Visible fixing clip for ceramic tiles in bonded facades. Fixings hold the ceramic tiles and are anchored to the support by a stainless steel screw. Once the joints are grouted, the fixings are visible, and a 5 mm clip can be seen.

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.

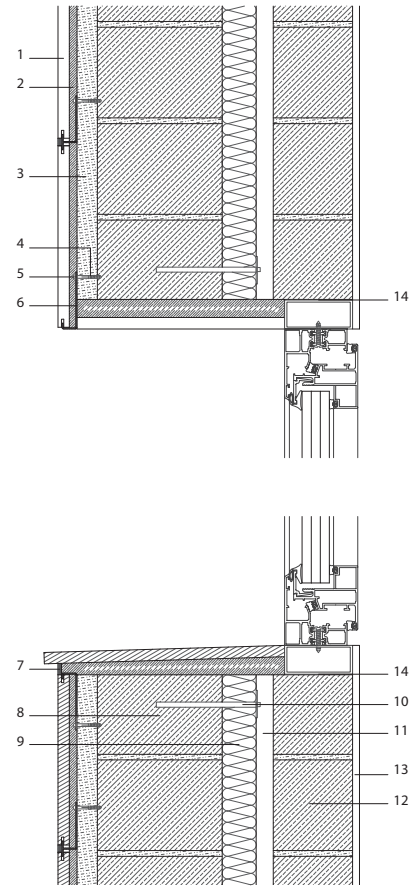


Technical details



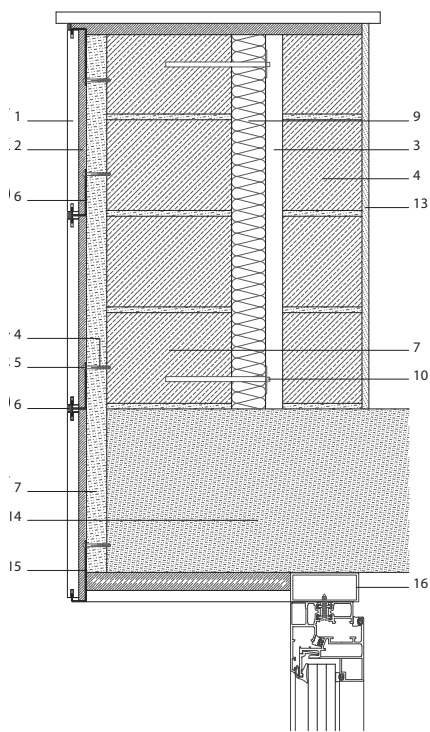
Close-up of finish with flashing

- | | |
|---------------------------------------|-----------------------------------|
| 1. Ston-Ker | 8. 12 cm brick substrate |
| 2. fr-one adhesive | 9. Thermal / acoustic insulation. |
| 2.1. unilax | 10. Plastic fixing. |
| 3. Mortar screed | 11. Air cavity |
| 4. Anchor bolt | 12. 7 cm brick substrate |
| 5. Stainless steel screw | 13. Smooth plaster finish |
| 6. Minimum joint stainless steel clip | 14. p-404 polyurethane |
| 7. Grout (colorstuk) | |



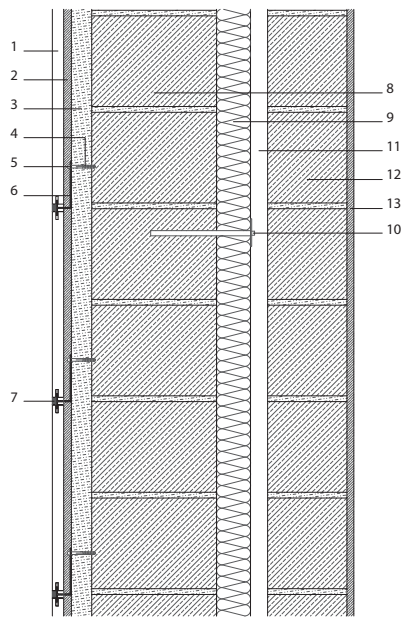
Close-up of ceramic finish

- | | |
|---------------------------------------|--------------------------------|
| 1. Ston-Ker | 8. 12 cm brick substrate |
| 2. fr-one adhesive | 9. Thermal/acoustic insulation |
| 2.1. unilax | 10. Plastic fixing |
| 3. Mortar screed | 11. Air cavity |
| 4. Anchor bolt | 12. 7 cm brick substrate |
| 5. Stainless steel screw | 13. Smooth plaster finish |
| 6. Minimum joint stainless steel clip | 14. p-404 polyurethane |
| 7. Grout (colorstuk) | |



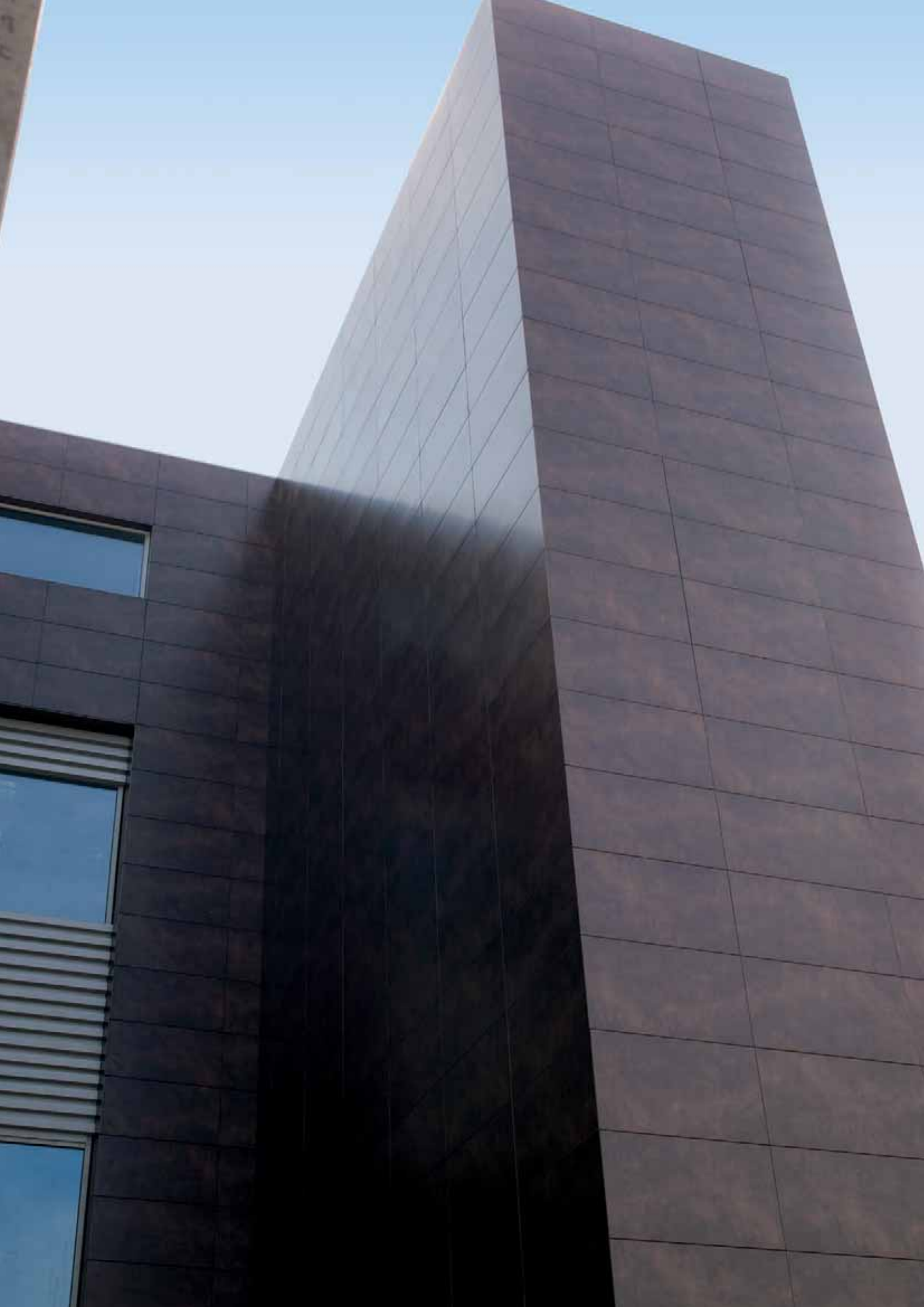
Close-up of top finish

- | | |
|---------------------------------|------------------------------------|
| 1. Ston-Ker | 9. Thermal/acoustic insulation |
| 2. fr-one + unilax adhesive | 10. Plastic fixing |
| 2.1. unilax | 11. Air cavity |
| 3. Central stainless steel clip | 12. 7 cm brick substrate |
| 4. Stainless steel screw | 13. Smooth mortar finish |
| 5. Anchor bolt | 14. Floor slab |
| 6. Grout (colorstuk rapid) | 15. Stainless steel start/end clip |
| 7. Mortar screed | 16. p-404 polyurethane |
| 8. 12 cm brick substrate | |



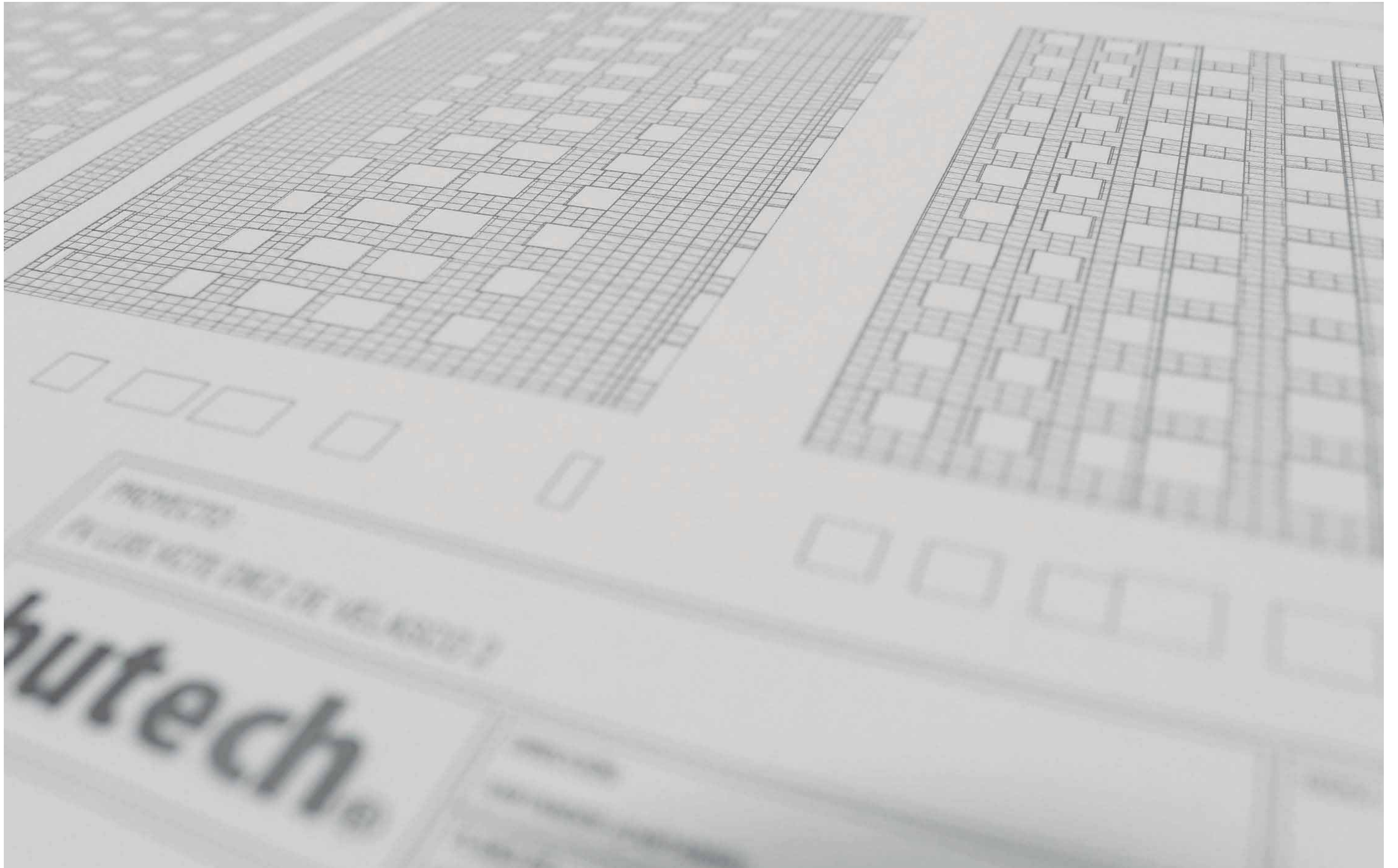
Close-up of vertical cross-section of wall

- | | |
|---------------------------------------|--------------------------------|
| 1. Ston-Ker | 7. Grout (colorstuk) |
| 2. fr-one adhesive | 8. 12 cm brick substrate |
| 2.1. unilax | 9. Thermal/acoustic insulation |
| 3. Mortar screed | 10. Air cavity |
| 4. Anchor bolt | 11. 7 cm brick substrate |
| 5. Stainless steel screw | 12. Smooth plaster finish |
| 6. Minimum joint stainless steel clip | |



System elements

	KEA	SAP	DESCRIPTION	WEIGHT (kg/ud.)
	B80111001	100005743	Concealed fixing. Minimum joint l	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)
	B80400012	100032736	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)



Finished projects

Finished projects

Project	m²	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	MUSSONVILLES BORDEUAX	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
FV MUSEO DEL JADE	5000	SAN JOSE	COSTA RICA
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 CENTRE MONDIAL DE DÉVELOPPEMENT GROUPE ROULLIER	2500	SAINT MALO	FRANCE
FV KRION HOTEL ZENIT	2500	SAN SEBASTIAN	FRANCE
FV CASA CONSISTORIAL	2500	TORREPACHECO	SPAIN



Project	m²	City	Country
FV SEDE JUDICIAL DE VILA-REAL	2500	VILA-REAL	SPAIN
FV CARDENAL HERRERA ORIA	2300	SANTANDER	SPAIN
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 POLINOY	2155	ISRAEL	ISRAEL
FV LES THERMES DE BALARUC	2100	BALARUC LES BAINS	FRANCE
FV FUNDACIÓN DFA	2085	ZARAGOZA	SPAIN
FV EDIFICIO DE HACIENDA	2030	BADAJOS	SPAIN
FV ELT	2030	LUANDA	ANGOLA
FV BERSHKA TURKEY	2000	ISTMABUL	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	GUINEA ECUATORIAL
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 WATFORD FC STADIUM	1500	WATFORD	UK
FV REFORMA Y AMPLIACIÓN DEL ÁREA DE PEDIATRÍA HOSPITAL RAFAEL MENDEZ	1500	LORCA	SPAIN
FV KRION CENTRO COMERCIAL EMPORIUM	1450	BANGKOK	THAILAND
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 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 (2ª 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

Project	m²	City	Country
FV TANATORIO CASTELLON	1100	CASTELLON	SPAIN
FV REHABILITACION HOTEL BS CAPITULACIONES	1099	ALBOLOTE	SPAIN
FV HOTEL MARINEDA PLAZA	1073	LA CORUÑA	SPAIN
FASADE ESPEHAUGEN	1042	BERGEN	NORUEGA
FV KIEV ELENA OFFICINA ARCHITETTI MILANO	1009	KIEV	UCRAINA
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	ARGELIA
FV MOSSOS DESCUADRA 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 MODULAR XL LAS ROZAS	600	MADRID	SPAIN
FV EDIFICIO DE OFICINAS PARC BIT PARCELA 9C	600	PALMA DE MALLORCA	SPAIN
FV ALVINESA	600	DAIMIEL	SPAIN
FV MODULAR OFICINAS LAS ROZAS	600	LAS ROZAS	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 XL NEW HOSPITALITY WATFORD FC	400	WATFROD	UK
FV KRION 3M	400	MADRID	SPAIN
FV TAHANTO	375	BOSTON	USA
FV KRION AREA VIVEIRO	350	OVIEDO	SPAIN
FV CRITERION	350	LOS ANGELES	USA

Project	m²	City	Country
FV KRION WATERSIDE	350	CLONMEL	IRLANDA
FV RED BANK	350	NEW JERSEY	USA
FV FORGE VALLEY	330	PHILADELPHIA	USA
FV KRION CASUSO	300	TORRELAVEGA	SPAIN
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
FV KRION MAISON SARL LAMO	157	LA BAULE	FRANCE
FV SHOPPERS II	155	VANCOUVER	CANADA
FV KRION BERSHKA PRECIADOS	150	MADRID	SPAIN
FV NEWBURY RACECOURSE	150	NEWBURY	UK
FV TUE LARCH	120	ROMSEY	UK
FV IMBEAU RESIDENCE	100	CALGARY	CANADA
FV KRION 100 QUEEN STREET	70	GLASGOW	UK
FV SHOPPERS I	70	CALGARY	CANADA
FV XL CUMINS	60	GLASGOW	UK
FV KRION MANOR HOUSE. INDOOR POOL	20	CRANLEIGH	UK



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- 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.

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CABRERA DE MAR - ORMAT
Ctra. Vilassar-Argentona Km1. T: 937 591 139 - F: 937 502 076
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Passeig Parc, 1. T: 937 600 112 - F: 937 600 411
PINEDA DE MAR - AMARGANT
Santiago Rusiñol, 96. T: 937 671 416 - F: 937 627 488
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GIRONELLA - ANTONI PONT
Farguell, 31. T: 938 228 088 - F: 938 250 786
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SANT BOI DE LLOBREGAT - GARRO
Ctra. Creu de Clafell, Km 10,7. T: 936 545 952 - F: 938 400 620
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Pol. Can Castells, nave 7-8. T: 938 466 568 - F: 938 409 216
TORELLÓ - JOAN DOT
Ter, 50. T: 938 504 646 - F: 938 504 286
TORELLÓ - ARQUIMATT MATERIALS I DECORACIÓ
Sant Jordi, 16. T: 679531877
CALAF - PLANELL
Ctra. Manresa, Km 31. T: 938 698 750 - F: 938 600 181
PALAU SOLITA I PLEGAMANS - COMERCIAL SOLSAN
Cami Reial, 109. T: 938 648 125 - F: 938 649 617
VIC - CORRETAJA
Mas de Bigas, 8-26. T: 938 854 261 - F: 938 894 733
ST. PERE DE RIBES - SUMCO
Ctra. Barcelona C-246, Km 42,4. T: 938 933 066 - F: 938 936 004
CUBELLES - MA-CO
Penedes / La Selva Pol. Ind. Les Salines.
T: 938 954 141 - F: 938 954 142
MATARÓ - MARESME GRES
Sant Isidor, 78. T: 931 615 015
CASSERES - MATERIALS CASSERRÉS
San Rafael. T: 938 213 770
TIANA - BADALONA GRESS
CR B-500, Km 3,2. T: 933 950 311 - F: 934 650 758
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BURGOS - BIGMAT FONTECHA
Alcalde Martín Cobos, naves 5 y 6. T: 947 485 153 - F: 947 483 941
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Avda. Portugal, Parcela 17. T: 947 513 28 - F: 947 513 349

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Ctra. Pozuelo de Zazon, s/n. T: 927 430 597
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Rio salor, 83. T: 927 535 234 - F: 927 535 575

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OLVERA - ALMECOR
Avda. Julian Besteiro, 29. T: 956 120 776 - F: 956 120 776
JEREZ DE LA FRONTERA - PORCELANOSA
Parque Empresarial Avda De la Ilustración, 1.
T: 956 187 160 - F: 956 302 904
UBRIQUE - DOCURRI
Paseo del Prado 38-40. T: 956 462 263 F: 956 462 623
ALGECIRAS - PORCELANOSA
Ctra. Málaga, Km 190. T: 956 635 282 - F: 956 635 285
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Rosario, 9. T: 956 730 687 - F: 956 730 911
PUERTO SANTA MARIA - PORCELANOSA
Pol. El Palmar. Ctra. Madrid-Cádiz, Km 653,2
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SAN FERNANDO - PORCELANOSA
Pol. Tres Caminos, S/N. T: 956 592 360 - F: 956 884 677

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SANTANDER - PORCELANOSA
Avenida Parayas, s/n. T: 942 352 510 - F: 942 352 638
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Boulevard Demetrio Herrero, 1. T: 942 835 026 - F: 942 881 787

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Ctra.Vila-real - Puebla de Arenoso (CV- 20) Km. 0,7
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VINARÓZ - PORCELANOSA
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CEUTA - BAEZA.
Ampliación muelle de Poniente, T: 956 511 312 - F: 956 511 309

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Ctra. de Carrión, Km.11. T: 926 251 730 - F: 926 255 741

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CÓRDOBA - PORCELANOSA
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Ctra. N-II, km 759. T: 972 672 259 - F: 972 672 255
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Pol. Ind Les Prespes, parcel.la 20. T: 972 694 704 - F: 972 693 003
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Avda. França, 192. T: 972 173 442 - F: 972 173 456
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Avenida San Rafael. (Junto Sprinter).
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HUELVA - PORCELANOSA
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Ctra. Calonge-Cala D'or, Km 1,5. T: 971 658 210
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Avenida de la libertad, 88. T: 953 795 168 - F: 953 795 168
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Ferrocarril, 2. T: 952 507 879 - F: 952 504 760

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MELILLA - FERRETERIA MODERNA E HIJOS
Paseo Marítimo Mir Berlanga, 19. T: 952 671 144 - F: 952 671 285

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MURCIA - PORCELANOSA
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MOS - BLANCO QUINTAS, S.L.
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Rua Venezuela, 40. T: 986 580 114 - 986 592 513
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Las Rosas, s/n. T: 922 461 112 - F: 922 461 166
SANTA CRUZ DE LA PALMA - AFELSA
Abenguarreme, 3. T: 922 412 143 - F: 922 420 012
SANTA MIGUEL - PORC. Y PAV. CANARIOS
Avenida Claudio Delgado Diaz, 59. T: 649 298 137

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SEGOVIA - SEGOCER
José Zorrilla, 134. T: 921 444 122

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SEVILLA - PORCELANOSA
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T: +355 42233817 - F: +355 42233817
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T: +355 48300084 - F: +355 48300084

ALEMANIA
ASCHAFFENBURG - KALKWERKE
T: +49 (0) 60 213 601 62 - F: +49 (0) 60 213 602 93
BAD SALZUFLEN - W. LINNENBECKER GmbH
T: +49 (0) 5222 / 5301 221 - F: +49 (0) 5222 / 5301 209
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T: +49 (0) 7221 50020 - F: +49 (0) 722171080
BAUTZEN - FLIESEN LEHMANN GmbH
T: +49 (0) 3591 / 3726 32 - F: +49 (0) 351 / 8931420
BEESKOW - BADER BAUSTOFFE & WERKZEUGE, HANDELSGESELLSCHAFT T:GmbH
+49 (0) 3366 / 417 0 - F: +49 (0) 3366 / 417 90
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T: +49 (0) 2204 / 4007 0 771 - F: +49 (0) 3320 / 854715
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T: +49 (0) 30 326 725 10 - F: +49 (0) 30 326 725 58
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T: +49 (0) 5271 / 955 251 - F: +49 (0) 5271 / 955 200
BONN - SCHMIDT-RUSSERDORF
T: +49 (0) 228 55 916 0
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T: +49 (0) 2041 / 7958 13 - F: +49 (0) 2041 / 7958 10
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T: +49 (0) 3724 / 1856 0 - F: +49 (0) 3724 / 1856 70
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T: +49 (0) 231 / 562 090 22 - F: +49 (0) 231 / 562 090 88
DOSSENHEIM - SENGEWITZ FLIESENGALERIE
T: +49 (0) 6221 874440 - F: +49 (0) 6221874442
DOSSENHEIM - FLIESEN GALERIE SENGEWITZ
T: +49 (0) 6221 874440 - F: +49 (0) 6221 874442
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T: +49 (0) 365 430 701 9 - F: +49 (0) 365 430 701 4
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T: +49 (0) 93 539 731 0 - F: +49 (0) 93 539 731 26
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T: +49 (0) 26 198 169 20 - F: +49 (0) 26 198 169 10
KRANICHFELD - MÜHL 24 - KRANICHFELD
T: +49 (0) 36 450 330 - F: +49 (0) 36 450 332 89
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T: +49 02 14 - 8 68 13 0 - F: +49 02 14 - 8 68 13 13
LÖBNITZ - SACHSENKERAM GBR
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T: +49 (0) 451 896669 - F: +49 (0) 451 8973494
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T: +49 (0) 89 318 280 0 - F: +49 (0) 89 318 280 20
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T: +49 (0) 251 / 979 12 21 - F: +49 (0) 251 / 979 1220
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T: +49 (0) 33208 / 547 0 - F: +49 (0) 3381 7304501
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T: +49 (0) 351 / 89314 10 - F: +49 (0) 351 / 89314 20
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T: +49 (0) 511 / 438 90 36 - F: +49 (0) 511 / 438 90 49
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T: +49 (0) 7422 28008-0 - F: +49 (0) 7422 28008-20
STUTTGART - TAXIS - STUTTGART
T: +49 (0) 71 189 003 121 - F: +49 (0) 71 189 003 104
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T: +49 (0) 71312037480 - F: +49 (0) 71312037489
VÖLKLINGEN - NIEDERER GMBH
T: +49 (0) 68 989 802 21 - F: +49 (0) 68 989 802 30
WAIBLIGEN - KONZ FLIESENHANDEL GmbH
T: +49 (0) 7151149200 - F: +49 (0) 710510149-209

WÜRSSELEN - SCHMIDT-RUDERSDORF
T: +49 (0) 24 05 - 41 38 50 - F: +49 (0) 24 05 - 41 38 55
ZWETHAU - GRAMER GMBH
T: +49 (0) 3421 / 7327 18 - F: +49 (0) 3421 / 7326 73

ANGOLA
LUANDA-PORCELANOSA ANGOLA
T: +244 928463705 - F: +244 222372374

ARABIA SAUDÍ
JEDDAH - MANART AL ANDALOS EST
T: +966 2 629 3402 - F: +966 2 629 3416
RIYADH - MANART AL ANDALOS EST
T: +966 1 282 1500
AL AHSÁ - KHALED AL ANSARI SHOWROOM
T: +966 3 589 2888 - F: +966 3 5817043
DAMMAM - KHALED AL ANSARI VALENCIA SHOWROOM
T: +966 3 8180355 - F: +966 3 8188060
DAMMAM - MOHAMED M. AL DOSSARY STORES
T: 38348681 - F: +38340086

ARGELIA
ORAN - PORCELANOSA ORAN
T: +213 555035414/15
ALGER - NOVACASA
T: +213 21 55 07 37 - F: +213 23 94 74 46

ARGENTINA
BUENOS AIRES - BLAISTEN S.A.
T: +54 11 463 620 00 - F: +54 11 463 614 86
MAR DEL PLATA - IMEPOH S.A.
T: +54 223 481 3827

ARMENIA
YEREVAN - SACO & ARARAT-SALON BOMOND
T: +37 410 55 08 99 - F: +37 410 51 75 81

AUSTRALIA
BRISBANE - ACESTONES & TILES
T: +61 7 5493 3344 - F: +61 7 5493 3117
NEWCASTLE - EARP BROS TILE
T: +61 2 4925 4555 - F: +61 2 4962 2926
SYDNEY - EARP BROS TILE
T: +61 2 9410 3222 - F: +61 2 9410 2011
MELBOURNE - EARP BROS TILE
T: +61 3 9328 8598 - F: +61 3 9348 9996
ADELAIDE - ITALIA CERAMICS
T: +61 8 8336 2366 - F: +61 8 8336 9016
OSBORNE PARK - MIDDLESWAN TRADING
T: +61 8 9445 1777 - F: +61 8 9446 3127
HOBART - ROSSETTO TILING
T: +61 3 6231 2931 - F: +61 3 6231 5783
LAUNCESTON - ROSSETTO TILING
T: +61 3 6326 4955 - F: +61 3 6326 6003
BRISBANE - TILES COE IMPORTS
T: +61 7 3371 5777 - F: +61 7 3371 5133

AUSTRIA
INNSBRUCK – FLIESEN CENTER TIROL
T: +43 512 364444
GRAZ – TENNE
T: +43 316 262 524 0 - F: +43 316 262 524 22
LEIBNITZ – TENNE
T: +43 3452 707 65 – F: +43 3452 707 29
BRUCK – TENNE
T: +43 3862 588 44 – F: +43 3862 588 44-22
WIEN – TENNE
T: +43 1 2020 520 – F: +43 1 2020 520-20
WIEN – BEINKOFER BEI BÄDERPARADIES
T: +43 1 52242200 – F: +43 1 522422020
WIEN – BEINKOFER BEI HOLTNER
T: +43 1 61516006900 – F: +43 1 61516006909
WIEN – FLIESENFÜHRER HANDELS GmbH
T: +43 1 5971 533 0 – F: +43 1 5971 533 28
LINZ – BEINKOFER
T: +43 (0) 732 655 2550 – F: +43 (0) 732 655 25520
LINZ – BEINKOFER
T: +43 732 776 543 0 – F: +43 732 776 543 60
SALZBURG – BEINKOFER
T: +43 6624 69 09 69 20 – F: +43 6624 69 09 42 89
VÖSENDORF – TENNE VÖSENDORF
T: +43 1 699 33 33 – F: +43 1 699 33 33-22
WELS – BEINKOFER
T: +43 (0) 7242 25253210 – F: +43 (0) 7242 25253250
HALL – BEINKOFER BEI HOLTNER
T: +43 (0) 5223 5046910 – F: +43 (0) 5223 5046919

AZERBAIYÁN
BAKU - AKSESUAR PORCELANOSA GRUPO
T: +994 12 5962548/+994 12 4973103 - F: +994 12 447 4383
BAKU - AKSESUAR INSAT
T: +994 12 546 74 86 - F: +994 12 546 74 86

BAHRÁIN
MANAMA - AL ABBAS GALLERY
T: +973 741 919 - F: +973 741 747

BANGLADESH
DHAKA - NUPAMI TRADING
T: +880 17837 01416
DHAKA - NUPAMI
T: +880 1793567404

BÉLGICA
HEIST-OP-DEN-BERG - PGB CERAMICA NV
T: +32 (0) 15 253366 - F: +32 (0) 15 253367

BERMUDAS
PEMBROKE - PEMBROKE TILE & STONE CO. LTD
T: +441 292 8453 - F: +441 295 8453

BIELORRÚSIA
GOMEL - UNDERGROUND
T: +375 2327 76919 - F: +375 2327 76757
MINSK - UNDERGROUND
T: +375 1721 78785 - F: +375 1721 75632
MINSK - DOMIART
T: +375 17 259 60 33 - F: +375 17 259 6212

BOLIVIA
SANTA CRUZ - ELEMENTO DISEÑO & ARQUITECTURA
T: +591 3 364 7313 - F: +591 3 347 6226

BOSNIA Y HERZEGOVINA
CITLUK - BROTIS d.o.o.
T: +387 633 21500 - F: +387 366 50950
SARAJEVO - LUK d.o.o.
T: +387 33 777 888 - F: +387 33 777 889

BANJA LUKA - LUK d.o.o.
T: +387 51 379 261/262 - F: +387 51 370 877
BIJELJINA - LUK d.o.o.
T: +387 55 228 100 - F: +387 55 228 101

BRASIL
CAMPO LARGO - PORCELANOSA BRASIL REVESTIMENTOS LTDA
T: +55 (41) 3392 1500 - F: +55 (41) 3392 1400

BULGARIA
PETRICH - NIKMAR
T: +359 866 321 111 - F: +359 745 234 64
SOFIA - NIKMAR
T: +359 2 868 93 95
SOFIA - NIKMAR
T: +359 888 143 313
SOFIA - ELE CERAMICA
T: +359 2 860 60 60
VARNA - ELE CERAMICA
T: +395 52 500 555

CAMBOYA
PHNOM PENH - HOME LIVING
T: 855092434264

CANADÁ
VANCOUVER - FONTILE DISTRIBUTORS
T: +604 683 9358 - F: +604 683 6758
MONCTON - DOMINION TILE & SUPPLIES
T: +506 857 8906 - F: +506 857 4149
CALGARY - PORCELANOSA CALGARY
T: + (587) 349-2290

CHILE
SANTIAGO DE CHILE - BUDNIK HERMANOS S.A.
T: +562 398 0100 - F: +562 212 3058
LAS CONDES - PORCELANOSA GRUPO CHILE SPA
T: +569 5 653 4306

CHINA
BEIJING – PO YICK DECORATION DESIGN CO LTD
T: +861085271313 - F: +861064229976
CHANGSHA - TAOTAO LE BUILDING MATERIALS CO LTD
T: +8673189931787 - F: +8673189931786
CHENGDU - DEHUA SANTARY EQUIPMENT
T: +86 28 8775100181 - F: +86 28 8774721681
CHONGQING - JIANGBEI YAO CHENG BUILDING MATERIALS
T: +86 23 86358360 - F: +86 23 86357182
DALIAN - PO YICK BUILDING MATERIALS Co. Ltd.
T: +86 41182301911 - F: +86 41182301911
FOSHAN – GUANGZHOU PO YICK DECORATION DESIGN CO LTD
T: +86 757 8278 2507 - F: +86 757 8278 5795
FUZHOU – PO YICK BUILDING MATERIALS
T: +86 591 8805 5823 - F: +86 591 8805 5823
GUANGZHOU – PO YICK BUILDING MATERIALS Co. Ltd. (FAFA)
T: +86 20 2200 8228 - F: +86 20 2200 8230
GUANGZHOU – PO YICK BUILDING MATERIALS Co. Ltd. (MAFO)
T: +86 20 8701 8223 - F: +86 20 8701 8226
HAIKOU - HAIKOU QIONGSHAN HUAXIN SANTARY BUILDING MATERIALS BUSINESSES
T: +86 898 6532 2417 - F: +86 898 6533 4893
HANGZHOU - DA DOU BUILDING MATERIAL BUSINESS
T: +86 139 5814 9905
HANGZHOU - MING OU BUILDING MATERIALS Co. Ltd.
T: +86 571 8658 2691 - F: +86 571 8608 5893

HARBIN - MING JIALIVING SPACE BUILDING MATERIAL BUSINESS
T: +86 139 0450 4791
JIANGYIN - PORCELANOSA BUILDING MATERIALS Co. Ltd.
T: +86 510 8169 3999 - F: +86 510 8169 3999
JIAXING - JIAXING FEIFAN BUILDING MATERIALS
T: +86 573 8277 0662 - F: +86 573 8277 0662
NANJING - XINGLANG BUILDING MATERIALS Co. Ltd.
T: +86 255 8823 208 - F: +86 255 8823 208
QINGDAO – TUOLI SPACE BUILDING MATERIALS Co. Ltd.
T: +86 532 8099 5657 - F: +86 532 8099 5657
SHANGHAI - PO YICK DECORATION DESIGN Co. Ltd.
T: +86 21 6438 3735 - F: +86 216 4281 607
SHANGHAI - GUANGZHOU PO YICK DECORATION DESIGN Co. Ltd.
T: +86 216 4411 484 - F: +86 216 4281 607
SHENYANG - BAO LUSHA PO YICK BUILDING MATERIALS Co. Ltd
T: +86 24 8563 7137 - F: +86 24 8563 7137
SHENZHEN - PO YICK BUILDING MATERIALS Co. Ltd. (BAILIMA)
T: +86 755 8240 7728 - F: +86 755 8240 7738
SHENZHEN - PO YICK BUILDING MATERIALS Co. Ltd. (HONGHU LU)
T: +86 755 2562 0359 - F: +86 755 2562 0344
TIANJIN – OU LIN BUILDING MATERIALS Co. Ltd.
T: +86 22 2352 8765 - F: +86 22 8827 7023
WENZHOU - MINGJIAN INTERNATIONAL BUILDING MATERIALS Co. Ltd.
T: +86 577 8971 2011 - F: +86 577 8971 2066
XIAMEN - PO YICK BUILDING MATERIALS SHOP
T: +86 952 3755123 - F: +86 591 88055823

CHIPRE
LIMASSOL - THEENGINEERINGANDCOMMERCIALASSOCIATION(ENKA)
T: +357 2585 4444 - F: +357 2585 4545
GIRNE - MEPAS LTD
T: +9039 2815 2964 - F: +9039 2815 5651
NICOSIA - N. M. MARKOU BROS LTD
T: +357 2261 0740 - F: +357 2261 2162

COLOMBIA
BOGOTÁ - PORCELANOSA GRUPO COLOMBIA
T: +571 310 02 45
BOGOTÁ - PROSEIN
T: +57 743 5566
BARRANQUILLA - D.I.M.C.E.
T: +57 5 300 6208

COREA DEL SUR
SEOUL - T&S TRADING CO. LTD
T: +82 234 438 600 - F: +82 234 438 822
SEO-GU - COTTO CERAMIC CO LTD
T: +82 325 840 770 - F: +82 325 840 660
BUSAN - COTTO CERAMIC CO LTD
T: +82 512 080 022 - F: +82 512 088558

COSTA RICA
SAN JOSE - FERNANDEZ AGUILAR S.A.
T: +506 2222 5674 - F: +506 221 9952

COSTA DE MARFIL
ABIDJAN - FADCO COMPANY
T: +225 21757355 - F: +225 21757358

CROACIA
DUBROVNIK - OTP DUBROVNIK
T: +385 20 412478 - F: +385 20 311521
POREC - SPINA
T: +385 52 451 348 - F: +385 52 434 005
PULA - SPINA
T: +385 52 219 002 - F: +385 52 219 118
RIJEKA - SPINA
T: +385 51 741 300 - F: +385 51 741 298
SPLIT - SPINA
T: +385 21 668 991 - F: +385 21 668 992
VARAZDIN - SPINA
T: +385 42 303 707 - F: +385 42 303 709
ZAGREB - SPINA
T: +385 13 492 552 - F: +385 13 492 560
ZAGREB - ABC INTERIUR
T: +385 16 393 164 - F: +385 16 055 985

DINAMARCA
GLOSTRUP - MOSAIKHJORNET
T: +45 43 633 900 - F: +45 43 663 857
ODENSE M - DANESP FLISE COMPAGNIET APS
T: +45 66 173 221 - F: +45 66 173 821

ECUADOR
GUAYAQUIL - ARKETIP'S CA
T: +593 422 467 52 - F: +593 422 403 96
QUITO - ARKETIP'S CA
T: +593 422 498 39 - F: +593 225 573 99

EGIPTO
EL CAIRO - MAHGOUB TRADING & IMPORTING
T: +20 2 57 12 565 - F: +20 2 57 39 344

EMIRATOS ÁRABES UNIDOS
DUBAI - GALAXY TRADING
T: +971 42696882

ESLOVAQUIA
BRATISLAVA - CERSA
T: +421244442833 - F: 421244642113
KOSICE - VODOARM
T: +055/6222660 - F: 055/6222654
ESLOVENIA
LIJUBLJANA - KEOR d.o.o.
T: +386 1 542 14 86 - F: +386 1 542 14 88
MARIBOR - KEOR d.o.o.
T: +386 2 480 54 15 - F: +386 2 471 06 33
MARIBOR - MAVI d.o.o.
T: +386 2 23 50 316 - F: +386 2 23 50 312

ESTADOS UNIDOS
CALIFORNIA:
ANAHEIM - PORCELANOSA ANAHEIM
T: +1 714 772 3183 - F: +1 714 772 9851
SAN FRANCISCO - PORCELANOSA SAN FRANCISCO
T: +1 415 593 7763 - F: +1 415 593 7664
SAN JOSE - PORCELANOSA SAN JOSE
T: +1 408 467 9400 - F: +1 408 467 9410
BEVERLY HILLS - PORCELANOSA WEST HOLLYWOOD
T: +1 310-300-2090
CONNECTICUT:
RIVERSIDE - PORCELANOSA RIVERSIDE
T: +1 203 698 7618 - F: +1 203 698 7619
FLORIDA:
MIAMI - PORCELANOSA MIAMI
T: +1 305 715 7153 - F: +1 305 715 9635
POMPANO BEACH - PORCELANOSA POMPANO BEACH
T: +1 954 968 7666 - F: +1 954 968 7699

GEORGIA:
ATLANTA - PORCELANOSA ATLANTA
T: +1 305 715 7153
ILLINOIS:
CHICAGO - PORCELANOSA CHICAGO
T: +1 312 204 6220 - F: +1 312 204 6240
MARYLAND:
NORTH BETHESA - PORCELANOSA ROCKVILLE
T: +1 301 294 8193
MASACHUSETS:
BOSTON - PORCELANOSA BOSTON
T: +1 617-963-7666
NEW JERSEY:
EAST BRUNSWICK - PORCELANOSA EAST BRUNSWICK
T: +1 732 613 1915 - F: +1 732 613 9181
PARAMUS - PORCELANOSA PARAMUS
T: +1 201 712 0556 - F: +1 201 599 1520
RAMSEY - PORCELANOSA RAMSEY
T: +1 201 995 1310 - F: +1 201 995 1960
NEW YORK:
NEW YORK - PORCELANOSA NYDC
T: +1 212 252 7370
WESTBURY - PORCELANOSA WESTBURY
T: +1 516 338 0097 - F: +1 516 338 0098
TEXAS:
DALLAS - PORCELANOSA DALLAS
T: +1 214 377 2327 - F: +1 214 234 1340
SEATTLE - PORCELANOSA SEATTLE
T: 206 673 8395 - F: 206 673 8402
KING OF PRUSSIA - PORCELANOSA KING OF PRUSSIA
T: 484 751 0050 - F: 484 751 0047
MC ALLEN - SPANOLO GALLERY
T: 956 905 0244 / 956 907 5477 - F: 956 627 2522

EL SALVADOR
SAIS SALVADOR-FERRERIA DE LA CONSTRUCCIÓN FERCO
T: 503 2510 8888 - F: 503 2510 8810

ESTONIA
TALLINN - PLAADIPUNKT
T: +372 650 0720 - F: +372 650 0723

ETIOPIA
ADDIS ABABA - I SALE TRADING
T: +251 (0)911 20 53 91 / +251 (0)930 03 45 51

FILIPINAS
MANILA - CASA EUROPA
T: +63 2 519 3515

FINLANDIA
VANTAA - LAATTAPISTE OY
T: +358 9 878031 - F: +358 9 890832
ESPOO - LAATTAPISTE ESPOO
T: +358 (0)207 880 750
HYVINKÄÄ - LAATTAPISTE HYVINKÄÄ
T: +358 (019)455 830
HÄMEELINNA - LAATTAPISTE HÄMEELINNA
T: +358 (0) 207 414 770
JOENSUU - LAATTAPISTE JOENSUU
T: +358 (0) 207 880 880
JYVÄSKYLÄ - LAATTAPISTE JYVÄSKYLÄ
T: +358 (0) 207 433 830
KOTKA - LAATTAPISTE KOTKA
T: +358 (0) 102 314 100
KOUVOLA - LAATTAPISTE KOUVOLA
T: +358 (0) 20 7880 760

KUOPIO - LAATTAPISTE KUOPIO
T: +358 (0) 17-266 3500
LAHTI - LAATTAPISTE LAHTI
T: +358 (03) 875 950
LAPPEENRANTA - LAATTAPISTE LAPPEENRANTA
T: +358 (0) 207 880 720
MIKKELI - LAATTAPISTE MIKKELI
T: +358 (015) 212 055
OULU - LAATTAPISTE OULU
T: +358 (0)20 7880 780
PORI - LAATTAPISTE PORI
T: +358 (0)207 288 320
PORVOO - LAATTAPISTE PORVOO
T: +358 (019) 5766767
RAISIO - LAATTAPISTE TURKU
T: +358 (0) 207 288 300
RAUMA - LAATTAPISTE RAUMA
T: +358 (0)207 288 310
ROVANIEMI - LAATTAPISTE ROVANIEMI
T: +358 (016) 310 403
SALO - LAATTAPISTE SALO
T: +358 (02) 733 1494
SAVONLINNA - LAATTAPISTE SAVONLINNA
T: +358 (015) 522 178
SEINÄJOKI - LAATTAPISTE SEINÄJOKI
T: +358 (0)207 880 700
TAMPERE - LAATTAPISTE TAMPERE
T: +358 (03) 3142 3300
VAASA - LAATTAPISTE VAASA
T: +358 (0)207 880 740

FRANCIA
ALSACE ET LORRAINE:
VEND

International Showrooms

MIDI-PYRÉNÉES:
TOULOUSE - PORCELANOSA TOULOUSE SAS
T: 05 34 56 57 60 - F: 05 34 56 57 86
NORD - PAS - DE - CALAIS:
LEZENNES - PORCELANOSA LILLE
T: +33 (0)320 340 340 - F: +33 (0)320 340 341
PAYS DE LA LOIRE:
BEAUCOUZE - PORCELANOSA ANGERS
T: +33 (0)241 738 100 - F: +33 (0)241 733 721
GUERANDE - PORCELANOSA LA BAULE
T: +33 (0)240 607 273 - F: +33 (0)240 110 659
LA CHAPELLE SAINT AUBIN - PORCELANOSA LE MANS
T: +33 (0)243 236 520 - F: +33 (0)243 240 512
LA ROCHE SUR YON - PORCELANOSA LA ROCHE S/YON
T: +33 (0)251 241 217 - F: +33 (0)251 242 399
ORVAULT - PORCELANOSA NANTES
T: +33 (0)228 073 950 - F: +33 (0)228 073 957
POITOU - CHARENTES:
CHASSENEUIL DU POITOU - PORCELANOSA POITIERS
T: +33 (0)549 119 787 - F: +33 (0)549 119 788
PROVENCE - ALPES - CÔTE D'AZUR:
AUBAGNE - PORCELANOSA MARSEILLE
T: +33 (0)442 624 330 - F: +33 (0)442 624 339
NICE - PORCELANOSA Associatée NICE
T: 493041963
MANDELIEU LA NAPOULE - PORCELANOSA CANNES
T: +33 (0)493 477 360 - F: +33 (0)493 477 402
LES PENNES MIRABEAU (PLAN DE CAMPAGNE) -
PORCELANOSA PLAN DE CAMPAGNE
T: +33 (0)442 466 120 - F: +33 (0)442 466 129
RHÔNE ALPES ET AUVERGNE:
CHAMPAGNE AU MONT D'OR - PORCELANOSA LYON
T: +33 (0)478 668 151 - F: +33 (0)478 432 003
SAINT-ÉTIENNE- PORCELANOSA Associate SAINT-ÉTIENNE
T: +33 (0) 477 305 676

GEORGIA
TBILISI - LUXOR SHOP
T: +995 32 2388898 - F: +995 32 2388399

GHANA
DZORWULU-ACCRA - ROUGE INTERIORS
T: +223 302 734752

GRECIA
ATTICA - AURORA BAGNO
T: +30 2105 594 520 - F: +30 2105 594 521
HATZ GROUP - PORCELANA:
ATHENS
T: 210 96 07 010 - F: 210 9607013
ATHENS
T: 210 5156 163 - F: 210 5156164
ATHENS
T: 2299041090 - F: 2299041095
GLIFADA
T: +30 2310 752 902 - F: +30 2310 753 564
KASTORIA
T: 2467044174
KATERINI
T: 2351076941 - F: 2351076940
KEFALONIA
T: 2671068360 - F: 26710 68 361
LARISA
T: 2410 619 999 - F: 2410 617444
LARISA
T: 2410561280
LEFKADA
T: 2645 0 72100 - F: 26450 29130
LOANNINA
T: 26510 92735 - F: 26510 92738
NAFFAKTOS
T: 2634038393 - F: 26710 68 361
PATRA
T: 2610524000 - F: 2610523532
PATRA
T: 2610647474 - F: 2610242010
RHODES
T: 2241003315 - F: 2241003316
SERRES
T: 23210 36157
THESSALONIKI
T: 2310474767 - F: 2310 474403
THESSALONIKI
T: 2310700861 - F: 2310700861
THESSALONIKI
T: 2310753003 - F: 2310753003
TRILAKA
T: 2351076941

GUADALUPE (ANTILLAS FRANCESAS)
BAIE MAHAULT - GUADELOUPE CERAMIQUE
T: 590 266 261 - F: 590 266 412
SAINT BARTHELEMY - ALMA QUINCAILLERIE
T: +590 276 494 - F: +590 276 738

GUATEMALA
GUATEMALA-FERRERIA DE LA CONSTRUCCION FERCO
T: 502 2421 9000 - F: 502 2421 9009

GUAYANA FRANCESA
CAYENNE - ETS HENRY LE GAC
T: +594 302 719 - F: +594 300 713

HAÏTÍ
PUERTO PRINCIPE - EUROCEAM
T: +509 250 57 14 - F: +509 250 57 15

HONG KONG
HONG KONG - YAI TACK BUILDING MATERIALS CO LTD
T: +852 23 956 670 - F: +852 23 957 831

HUNGRÍA
BUDAPEST - PORCAHUNGARY KFT
T: +36 1 237 08 78
BUDAPEST - PALATINUS FURDOSZOBASZALONOK
T: +36 61 430 04 17 - F: +36 1 387 91 36
DEBRECEN - PALATINUS FURDOSZOBASZALONOK
T: +36 52 531 476 - F: +36 52 536 822

EGER - PALATINUS FURDOSZOBASZALONOK
T: +36 0636 312 013 - F: +36 0636 313 270
MISKOLC - PALATINUS FURDOSZOBASZALONOK
T: +36 46 412 741 - F: +36 46 416 256
BEKESCSABA - PALATINUS FURDOSZOBASZALONOK
T: +36 66 328 432 - F: +36 66 328 432
GYÖNGYÖS - PALATINUS FURDOSZOBASZALONOK
T: +36 37 500 162 - F: +36 37 500 163
KECSKEMÉT - PALATINUS FURDOSZOBASZALONOK
T: +36 76 412 272 - F: +36 76 509 204

INDIA
NEW DELHI - MARMO HOME PVT. LTD.
T: +91 11 47128800 - F: +91 11 2321 8728

INDONESIA
BANDUNG - WISMA SEHATI (BANDUNG BRANCH)
T: +62227238515 - F: +62227238516
JAKARTA - WISMA SEHATI (MANGGA DUA BRANCH)
T: +62216013303 - F: +62216251221
JAKARTA - WISMA SEHATI (POLIM BRANCH)
T: +622172787711
JAKARTA - WISMA SEHATI (BSD)
T: +62215377278 - F: +62215377880
SEMARANG - WISMA SEHATI (SEMARANG BRANCH)
T: +62243562233 - F: +62243562222
SURABAYA - WISMA SEHATI (SURABAYA BRANCH)
T: +62315462868 - F: +62315462868
SOUTH JAKARTA - VIVERE
T: +62 21 290 56889

IRÁN
TEHRAN - FARBAR CO. LTD.
T: +98 21 88 03 6364 - F: +98 21 88 03 8283

IRAQ
ERBIL - AKSESUAR INSAAT ERBIL
T: +964 750 835 0055 - F: +964 66 210 1900

IRLANDA
CORK - O.B. HEATING, PLUMBING, BATHROOMS & TILES
T: +353 0 214 310 0000 - F: +353 0 214 310 003
DUBLIN - TILESTYLE LTD
T: +00 353 1 8555200 - F: +00 353 1 8557471

ISLANDIA
REYKJAVIK - ALFABORG EHF
T: +354 568 6755 - F: +354 568 1277

ISLA REUNIÓN
SAINT DENIS - RAVATE PROFESSIONNEL SAS
T: +262 904 024 - F: +262 904 057

ISRAEL
BNEY BRAK - VIA ARCADIA
T: +972 3 614 2000 - F: +972 3 614 2020
RAANANA - AMOZI NAGAR IMP. MARK. OGEN LTD.
T: +972 9 760 1501 - F: +972 9 741 1997
RISHON LE ZION - NEGEV CERAMICS
T: +972 9 943 6676 - F: +972 9 6661
JERUSALEM - BAR-AMI 1990 LTD.
T: +972 2 531 3444 - F: +972 2 538 3740
BNEY BRAK - HEZI BANK
T: +972 3 616 6641 - F: +972 4 904 6643
BEERSHEVA - KIMCHI
T: +972 8 628 2060 - F: +972 8 623 2369
BETHLEHEM - AL-KHAYAL (BAYTOUNA)
T: +972 2 277 7279 - F: +972 2 274 4026
UPPER GALILY - KAMARIKA
T: +972 4 680 1010 - F: +972 4 680 0318
BEER SHEVA - NEGEV CERAMICS
T: +972 86280107
ELIAT - NEGEV CERAMICS
T: +972 8633638
HADEERA - NEGEV CERAMICS
T: +972 46186868
JERUSALEM - NEGEV CERAMICS
T: +972 26714455
NAZARETH - NEGEV CERAMICS
T: +972 46462046

RAMAT GAN - NEGEV CERAMICS
T: +972 36155333
HAIFA - TOPOLSKI & CO LTD
T: +972 4 904 0496 - F: +972 4 904 0455
HAIFA - NEGEV CERAMICS
T: +972 48 466 444

ITALIA
BARI:
ANDRIA - MIDIL-CERAMICHE S.A.S
T: +39 08 835 66466 - F: +39 08 835 49260
MILANO:
CORSICO - PORCELANOSA LOMBARDIA S.P.A
T: +39 02 458 64310 - F: +39 02 458 64415
MODENA:
SASSUOLO - PORCELANOSA S.P.A
T: +39 05 368 06677 - F: +39 05 368 02184
ROMA:
ROMA - PORCELANOSA ROMA S.P.A
T: +39 06 888 9977 - F: +39 06 888 7056
CASSINO - CERAMICHE DUEP S.R.L.
T: (+39) 077625142
BERGAMO - PORCELANOSA BERGAMO
T: (+39) 035299984 - F: (+39) 0352922085
MILAN - SPAZIO LUBIA 3
T: (+39) 0287246767

JERSEY
ST. SAVIOUR - PASTELLA GROUP
T: 01534 870167 - F: 01534 723199

JAPÓN
OSAKA - HIRATA TILES
T: 816 65321280

JORDANIA
AMMAN - AYMAN ABDALLAT & PARTNERS CO.
T: +9626 5504592 / 93 / 95 - F: +9626 5514149

KAZAJISTÁN
ALMATY - PALATIN
T: +7 (727) 395 78 78 - F: +7 (727) 351 98 98
ALTAMY - STOCK
T: +7 (727) 2758 50 36
ASTANA - PORCELANOSA Associate ASTANA
T: +7 (7172) 28 83 37

KOSOVO
PRISHTINA - N P KERASAN
T: +381 38 602 667 - F: +381 38 602 667

KUWAIT
SAFAT - HASSAN ABUL HASSAN SADIO
T: +965 2262 4466 - F: +965 2266 3376

KYRGYZ REPUBLIC
BISHKEK - KERAMIN KYRGYZYA
T: +996 (312) 51 05 05

LETONIA
RIGA - TORMANIS UN PARTNERI
T: +371 784 5361 - F: +371 784 5360

LIBANO
BEIRUT - GEAHCHAN GROUP
T: +961 1480520 - F: +961 1496607
BEIRUT - PORCELANOSA GROUP
T: +961 1480520 - F: +961 1496607

LIBIA
BENGHAZI - EL RAGUOBI
T: 218 61 4704533 - F: 218 61 2237328
TRIPOLI - EL RAGUOBI
T: 218 91 3274885
BERKA BENHAZI - MANART AL ANDALOS EST
T: 21861229605 - F: 218612237328

LITUANIA
ALYTUS - IRIS LTD
T: +370 315 55969 - F: +370 315 55968

MACEDONIA
SKOPIE - TE LINDI D.O.O.
T: +389 2 2 602 628 - F: +389 2 2 602 638

MALTA
BIRKIRKARA - ROGER SATARIANO & SONS LTD
T: +356 21 442 769 - F: +356 21 497 017

MALASIA
KUALA LUMPUR - APEX BOUTIQUE
T: +603 4043 8333 - F: +603 4044 3338
PENANG - APEX BOUTIQUE
T: +604 659 3322 - F: +604 659 3339
SEBERANG PRAI TENGAH - APEX BOUTIQUE
T: +604 3988 333 - F: +604 3988 987
KOLOMBONG - APEX BOUTIQUE
T: +6088 388 150 - F: +6088 389 150
PETALING JAYA - APEX BOUTIQUE
T: +603 7875 7833 - F: +603 7876 7833

International Showrooms

MARRUECOS
CASABLANCA - CERAMEX
T: +00212 945 3646166 - F: +00212 522 395363
CASABLANCA - SANITAIRE 2000
T: +212 22 363 225 - F: +212 22 394 100
TANGER - FACEHOR S.A.
T: +212 39 941 910 - F: +212 39 945 445

MARTINICA (ANTILLAS FRANCESAS)
LAMENTIN - JOSEPH COTTRELL S.A.
T: +596 509 810 - F: +596 506 524

MÉXICO
INTERLOMAS - PORCELANOSA MÉXICO
T: (+55) 36 05 00 84 - (+55) 36 05 00 65 - (+55) 36 05 00 67
MÉXICO DF - PORCELANOSA MÉXICO
T: + (55) 528220 00, + (55) 5282 2737
VALLE DORADO - PORCELANOSA MÉXICO
T: + (55) 2620 0186, + (55) 5831 7340

MOLDAVIA
CHISINAU - PLIMED (CASAMODERNA)
T: +373 2 2501252/54/55/56 - F: +373 2 2716824
CHISINAU - CASAMODERNA
T: +373 22 810 260/810 201/810 202/810 207
F: +373 22 810221
CHISINAU - DALIA
T: 223 82 93

MÓNACO
MÓNACO - PORCELANOSA Associate MÓNACO
T: +33 06 07 93 26 78

MONGOLIA
ULAAABAATAR - ZUUNJIMZYN SUVRAGA CO.LTD
T: +976 (11) 341 217

MONTENEGRO
PODGORICA - ENTEXT
T: 3822060833

NEPAL
KATMANDU - RUKMANI INTERNATIONAL PVT LTD
T: +97714420281 - F: + 97714428295

NICARAGUA
MANAGUA - DECO CENTER-GRUPO IBERICA NICARAGUA
T: +505 270 2121 - F: +505 277 0834

NIGERIA
LAGOS - PORCELANOSA Associate LAGOS
T: +234 8090371913

NORUEGA
OSLO - FAGFLIS
T: +47 22 80 85 60
OSLO - FAGFLIS OSLO
T: +47 22 80 18 00 - F: +47 22 80 18 01
DRØBAK - FAGFLIS DRØBAK
T: +47 64 93 96 76
ELVERUM - FAGFLIS ELVERUM
T: +47 62 41 67 60 - F: +47 62 41 71 50
FAGERNES - FAGFLIS FAGERNES
T: +47 61 36 66 66 - F: +47 61 36 66 52
FREDRIKSTAD - FAGFLIS FREDRIKSTAD
T: +47 69 31 70 00 - F: +47 69 39 22 95
GJØVIK - FAGFLIS GJØVIK
T: +47 61 18 80 86 - F: +47 61 18 80 87
HAMAR - FAGFLIS HAMAR
T: +47 62 53 33 50 - F: +47 62 53 37 66
KLØFTA - FAGFLIS KLØFTA
T: +47 63 98 29 20 - F: +47 63 98 11 31
LIERSKOGEN - FAGFLIS LIERTOPPEN
T: +47 31 00 02 80 - F: +47 31 00 02 81
MOLDE - FAGFLIS MOLDE
T: +47 70 10 22 74 - F: +47 70 10 22 71
MOSS - FAGFLIS MOSS
T: +47 69 24 15 70 - F: +47 69 24 15 71
NARVIK - FAGFLIS NARVIK
T: +47 76 95 04 90 - F: +47 76 95 04 99
OPPDAL - FAGFLIS OPPDAL
T: +47 72 42 23 50
SANDEFJORD - FAGFLIS SANDEFJORD
T: +47 47 24 62 00 - F: +47 33 47 77 78
SANDNES - FAGFLIS SANDNES
T: +47 51 63 15 36 - F: +47 51 63 15 37
TØNSBERG - FAGFLIS TØNSBERG
T: +47 33 35 71 60 - F: +47 33 35 81 51
TRONDHEIM - FAGFLIS TRONDHEIM
T: +47 406 92 877
ÅLESUND - FAGFLIS ÅLESUND
T: +47 70 10 22 64 - F: +47 70 10 22 71
GURSKØY - FAGFLIS SØRE SUNNMØRE
T: +47 70 10 22 77
KOPERVIK - FAGFLIS HAUGALAND
T: +47 52 84 55 90 - F: +47 52 84 55 91
LYSAKER - FAGFLIS BAERUM
T: +47 67 10 34 90 - F: +47 67 10 34 91
NESTTUN - FAGFLIS BERGEN
T: +47 55 11 77 40 - F: +47 55 11 77 49
SKIEN - FAGFLIS GRENLAND
T: +47 35 58 70 00 - F: +47 35 58 70 01
TILLER - FAGFLIS TRONDHEIM
T: +47 72 89 68 60 - F: +47 72 89 68 70

NUEVA ZELANDA
PENROSE - TILE WAREHOUSE
T: 649349550 - F: 646222112
CHRISTCHURCH - NEXT DORE
T: 6433669400 - F: 6433654406

OMÁN
MUSCAT - ROYAL TILES CO
T: +968 9586 8897

PAÍSES BAJOS
AMSTERDAM - PGN CERAMICA B.V.
T: 0031 20 737 2845

PAKISTÁN
LAHORE - 4 WALLS (PVT.) Ltd.
T: 0092 321 403 60 91

PANAMÁ
CIUDAD DE PANAMÁ - EUROCEOR S.A.
T: (+507) 21 53660

PERÚ
SAN ISIDRO - PORCELANOSA GRUPO PERÚ
T: +519 4600 7828
LIMA - CASSINELLI
T: +51 14 513 712 - F: +51 15 612 757

POLONIA
BIALYSTOK - AKCESS
T: +48 85 6643436 - F: +48 85 6643434
BIELSKO BIALA - P.H.U. CERAMED
T: +48 33 829 8770 - F: +48 33 829 8773
BYDGOSZCZ - CERMAG POZNAN
T: +48 52 348 93 43 - F: +48 52 348 93 54
CZESTOCHOWA - P.H.U. FUGA
T: +48 343682944 - F: +48 343682944
GLIWICE - ART CERAMIKA
T: +48 32 339 8200 - F: +48 32 339 8209
GORZÓW - STREFA ARCHITEKTA
T: +48 95 721 41 08 - F: +48 95 721 41 08
KALISZ - STREFA ARCHITEKTA
T: +48 60 502 10 15 - F: +48 62 502 20 66
KATOWICE - MAX FLIZ
T: +48 32 720 92 00 - F: +48 32 720 92 00
KIELCE - EXCLUSIVE
T: +48 41 345 75 49
KOŁOBRZEG - CERMAG POZNAN
T: +48 94 355 18 88 - F: +48 94 355 18 80
KONIN - STREFA ARCHITEKTA
T: +48 63 243 31 14 - F: +48 63 243 30 97
KRAKÓW - MAX FLIZ
T: +48 01 229 07060 - F: +48 01 229 07060
KOSZALIN - STREFA ARCHITEKTA
T: +48 94 343 08 32
LODZ - FUMINO
T: +48 426373767
LODZ - CERMAG SP.200
T: +48 77 457 35 09 / 10 - F: +48 77 474 88 62
LESZNO - CERMAG POZMAN
T: +48 65 529 63 63 - F: +48 65 529 63 63
LUBLIN - EGEN
T: +48 81 441 58 42 - F: +48 81 441 80 74
OLSZTYN - CERMAG POZNAN
T: +48 89 534 41 21
OSTRÓW-WIELKOPOLSKI - CERMAG POZNAN
T: +48 62 735 81 12 - F: +48 62 737 28 91
OPÓLE - CERMAG SP 200
T: +48 42 616 55 44 - F: +48 42 611 61 61
POZNAN - CERMAG POZNAN
T: +48 61 835 97 50 54 - F: +48 61 830 23 78
RADOM - CERAMIKA PRIMUS
T: +48 48 381 0287 - F: +48 48 381 0290
RZESZÓW - F.H. BOZ S.A.
T: +48 17 850 0315 - F: +48 17 850 0341
SOPÓT - CERMAG POZNAN
T: +48 58 550 42 35 - F: +48 58 550 54 59
SZCZECIN - STREFA ARCHITEKTA
T: +48 91 434 00 48 - F: +48 91 434 07 35
ŚLUPSK - GRESMAX
T: +48 59 843 41 53 - F: +48 59 843 4153
WARSZAWA - WOIS SP Z.O.O
T: +48 22 6127213 - F: +48 22 6127216
WARSZAWA - GRESTON
T: +48 022 720 5525 - F: +48 022 720 5524
WARSZAWA - ANBAR
T: +48 22 721 11 20 - F: +48 22 721 11 20
WARSZAWA - CERMAG POZNAN
T: +48 22 252 57 39 - F: +48 22 252 57 39
WROCLAW - CERMAG WROCLAW
T: +48 717 820 021 - F: +48 717 820 031

PUERTO RICO
SAN JUAN - THE TILE SHOP
T: +1787 775 2030 - F: +1787 707 0138
GUAYNABO - THE TILE SHOP
T: +1787 720 2030 - F: +1787 287 2030

QATAR
QATAR - UNITED SUPPLIES
T: +974 46 85 164 - F: +974 46 85 165

REINO UNIDO
PORCELANOSA SHOWROOMS
NORWICH - PORCELANOSA SOUTH EAST

T: 08444 818 958 - F: 08444 818 968
PETERBOROUGH - PORCELANOSA SOUTH EAST
T: 08444 818 957 - F: 08444 818 967
NOTTINGHAM - PORCELANOSA MIDLANDS
T: +44 0115 983 65 00 - F: +44 0115 983 65 65
SOLIHULL - PORCELANOSA MIDLANDS
T: +44 0121 746 64 64 - F: +44 0121 746 64 65
NEWCASTLE - PORCELANOSA SCOTLAND
T: +44 0191 272 5224 - F: +44 0191 272 29 86
MANCHESTER - PORCELANOSA NORTH WEST
T: +44 0161 817 33 00 - F: +44 0161 817 33 01
WARRINGTON - PORCELANOSA NORTH WEST
T: +44 01925 237 807 - F: +44 0192 523 78 88
EDINBURGH - PORCELANOSA SCOTLAND
T: +44 0131 335 38 83 - F: +44 0131 335 38 84
GLASGOW - PORCELANOSA SCOTLAND
SHOWROOM & HEAD QUARTERS
T: +44 0141 533 1000 - F: +44 0141 533 1007
CROYDON - PORCELANOSA SOUTH EAST
T: +44 02086 670 994 - F: +44 08444 818 963
FULHAM - PORCELANOSA SOUTH EAST
T: +44 0207 751 2150 - F: +44 08444 818 962
WATFORD - PORCELANOSA SOUTH EAST
T: +44 01923 815 393 - F: +44 0192 691 600
READING - PORCELANOSA SOUTH EAST
T: +44 01189 035 142 - F: +44 0844 481 8964
SOUTHAMPTON - PORCELANOSA SOUTH EAST
T: +44 0844 481 8956 - F: +44 0844 481 8966
BRISTOL - PORCELANOSA WESTERN
T: +44 0117 959 71 51 - F: +44 0117 959 71 55
CARDIFF - PORCELANOSA WESTERN
T: +44 0292 0465 166 - F: +44 0292 0465 156
EXETER - PORCELANOSA WESTERN
T: +44 01392 215 552 - F: +44 01392 215 557
DONCASTER - PORCELANOSA YORKSHIRE
T: +44 01302 30 47 13 - F: +44 01302 30 47 15
LEEDS - PORCELANOSA YORKSHIRE
T: +44 01 132 60 60 90 - F: +44 0113 24 34 024
SHEFFIELD - PORCELANOSA YORKSHIRE
T: +44 01 142 29 01 90 - F: +44 0114 255 22 65
LONDON - PORCELANOSA SOUTH EAST
T: +44 0207 253 1227 - F: +44 08444 818 969
CANNOCK - PORCELANOSA MIDDLEANS
T: +44 01543 232025 - F: +44 01543 462959

REPÚBLICA CHECA
BRNO - DESIGN BATH SE.
T: +420 547 216 621
PRAGUE - DESIGN BATH SE.
T: +420 22 984 951

REPÚBLICA DOMINICANA
SANTO DOMINGO - CARABELA S.R.L.
T: + 1 809 544 2560 - F: + 1 809 541 0818
SANTIAGO - CARABELA S.R.L. PORCELANOSA
T: + 1 809 971 1234 - F: + 1 809 971 6728
LA ROMANA - CARABELA S.R.L.
T: + 1 809 556 3606/ 1 809 550 9006 - F: + 1 809 221 7416
BÁVARO - CARABELA S.R.L.
T: + 1 809 466 0020 - F: + 1 809 466 2006
KINSHASA - SOCIÉTÉ PANACHE
T: + 243 884 1677 - F: + 243 983 13893

RUMANIA
CRAIOVA - SC MYDWAY IMPEX SRL
T: +0040 722 285 029 - F: +0040 251 427 946
ORADEA - MAISON DESING
T: +40 743 507 811 F: +40 259 410 170
BUCAREST - DELTA STUDIO
T: 031/405 82 17
BUCAREST - GLAMOUR
T: 0321 22932101
BUCAREST - PORCELINES
T: +40 756 093 720

RUSIA
EKATERIMBURGO - SALON BOMOND
T: +7 (922) 135 35 92
GROZNY - BOMOND
T: +7 (8712) 224 546
KALININGRAD - KERAMIKA & KERAMONGRANIT
T: +7 (4012) 370 460
KHABAROVSK - DOM APEX
T: +7 (4232) 30 06 88
KHIIMKI - ZODIAC
T: +7 (495) 747 31 69
KRASNODAR - SALON BOMOND
T: +7 (862) 234 10 75
KRASNOYARSK - ELITSTROY
T: +7 (391) 206 99 99
MAKHACHKALA - T. D. MODERN
T: +7 (8722) 676 569
MOSCOW - ARTISAN
T: +7 (495) 742 40 40
MOSCOW - MASTER DOM
T: +7 (499) 120 00 77
MOSCOW - SALON UNDERGROUND
T: +7 (495) 253 69 32
MOSCOW - ZODIAC
T: +7 (495) 975 27 97
MOSCOW - ZODIAC
T: +7 (495) 721 49 90

International Showrooms

MOSCOW - ZODIAC
T: +7 (495) 984 28 57
MOSCOW - ZODIAC
T: +7 (495) 223 40 44
MYTISCHI - ZODIAC
T: +7 (495) 221 75 00
MYTISCHI - ZODIAC
T: +7 (495) 975 27 97
NIZHNY NOVGOROD - ZODIAC
T: +7 (831) 216 08 08
NOVOROSIYSK - AGORA
T: +7 (8617) 615 999
NOVOROSIYSK - MOY DOM
T: +7 (383) 223 24 87
PYATIGORSK - SALON BOMOND
T: +7 (8793) 975 544
ROSTOV NA DONU - SALON BOMOND
T: +7 (863) 266 50 34
RYAZAN - SINTI
T: +7 (4912) 46 00 46
ST. PETERSBURG - DOM LAVERNA
T: +7 (812) 329 56 65
ST. PETERSBURG - DOM LAVERNA
T: +7 (812) 327 94 09
ST. PETERSBURG - DOM LAVERNA
T: +7 (812) 7777 030
ST. PETERSBURG - SALON ELITNOY KERAMIKI NOVUS
T: +7 (812) 325 12 45
ST. PETERSBURG - ZODIAC
T: +7 812 994 79 49
STAVROPOL - SALON VALENCIA
T: +7 (8652) 298 151
VLADIVOSTOK - DOM APEX
T: +7 (4232) 300 688
VOLGOGRAD - BOMOND
T: +7 (8442) 944 709

SENEGAL
DAKAR - C.C.S.
T: +221 33 849 04 04 - F: +221 33 823 13 10

SERBIA
BELGRADO - CERAMIC BY PORCEL.
T: +381 11 3343026 - F: +381 11 3343297
NOVI SAD - RACA COMPLETE
T: +381 21 451 534 - F: +381 21 472 0668

SINGAPUR
SINGAPUR - FERNANDO MARTIN BENITO
T: +65 97801472 - F: +65 64621620
SINGAPUR - HAFARY PRIVATE LIMITED
T: +6566047702 - F: +6562534496

SRI LANKA
COLOMBO 13 - RANJANAS CERAMIC
T: +94 11 2543255 - F: +94 11 2381386

SUDAFRICA
DURBAN - CLASSIC TRADING
T: +27 31 577 8382 - F: +27 31 577 7056
JOHANNESBURGO - CLASSIC TRADING
T: +27 11 656 0400 - F: +27 11 656 0403

SUECIA
MÖLNDAL - KAKELPALATZET I MÖLNDAL Headquarters
T: +46 (0)31 776 50 51 - F: +46 (0)31 86 39 62
BROMMA - KAKELPALATZET I BROMA AB
T: +46 (0)8 56 487 831 - F: +46 (0)8-988 620
GÖTEBORG - KAKELPALATZET I BÄCKEBOL AB
T: +46 (0)31 571 478 - F: +46 (0)31-571 477
KATRINEHOLM - KAKELPALATZET I KATRINEHOLM AB
T: +46 (0)8150-51 740 - F: +46 (0)150-51 775
NYKÖPING - KAKELPALATZET I NYKÖPING AB
T: +46 (0)155 200 999 - F: +46 (0)155-211 244
UDDEVALLA - KAKELPALATZET I UDDEVALLA AB
T: +46 (0)522 64 54 00 - F: +46 (0)0522-64 54
MALMÖ - KERMA KAKEL AB
T: +46 403 122 40 - F: +46 403 122 59
ENKÖPING - LHADOS KAKEL AB
T: +46 171 478 090 - F: +46 171 478 099
HÄSSLEHOLM - STENMONTÖREN AB
T: +46 451 381 970 - F: +46 451 381 979

SUIZA
AUBONNE – ARGECON SA
T: +41 (0) 21 807 10 10 - F: +41 (0) 21 808 61 02
ARBON – HAMA KERAMIKDESIGN
T: +41 71 446 61 66 - F: +41 71 446 61 65
BASEL – SABAG SA
T: +41 61 337 83 83 - F: +41 61 337 83 88
BASEL – PORCELANOSA BÄLE
T: +4161 693 00 00
BIEL – SABAG SA
T: +41 32 328 28 28 – F: +41 32 328 28 80
CRISSIER - SABAG SA
T: +41 21 633 06 84 - F: +41 21 633 06 85
GENEVE - SABAG SA
T: +41 22 908 06 90 - F: +41 22 908 06 95
YVERDON-LES-BAINS – SABAG SA
T: +41 24 423 44 30 – F: +41 24 423 44 45
SEVELEN – KAISER AG BAD & PLÄTTLI
T: +41 81 785 2242 – F: +41 81 785 2204

VOLKETSWIL – MPV HANDELS AG
T: +41 (0)43 399 53 00 – F: +41 (0)43 399 53 20
DELEMONT – SABAG SA
T: +41 32 4 216 216 – F: +41 32 4 216 214
HÄGENDORF – SABAG SA
T: +41 62 209 09 09 – F: +41 62 209 09 00
ROTHENBURG – SABAG SA
T: +41 41 289 72 72 – F: +41 41 289 72 73
ZÜRICH – SABAG SA
T: +41 44 446 17 17 – F: +41 44 446 17 50
RÜTI B. BÜREN – STEIN & KERAMIK
T: +41 32 351 22 44 – F: +41 32 351 25 90
MENDRISO – NEW FORM SWISS SAGL
T: +41 91 922 7356

SURINAME
PARAMARIBO - NV RONANS TRADING
T: +597 451070 - F: +597 450066

TAILANDIA
BANGKOK - BOONTHAVORN CERAMIC (RATCHADAPISEK)
T: +66 2 275 0029 - F: +66 2 275 2057
BANGKOK - BOONTHAVORN CERAMIC CO. LTD (PINKLAO)
T: +66 2 441 3075 - F: +66 2 441 4049
BANGKOK-BOONTHAVORNCERAMICCO.LTD (SUARNABHUMI)
T: +66 2 316 0429 - F: + 6627500682
BANGKOK - BOONTHAVORN CERAMIC CO. LTD (KASET NAVAMIN)
T: +66 2 791 2777 - F: +66 2 943 9058
BANGKOK - BOONTHAVORN CERAMIC CO. LTD (PATTAYA)
T: +66 38 052 222 - F: +66 38 052 221
CHIANGMAI-BOONTHAVORNCERAMIC CO. LTD. (CHIANGMAI)
T: +66 53 105 099 - F: +66 53 105 107
PRACHUABKRIKUN-BOONTHAVORN CERAMIC CO. LTD (HUAHIN)
T: +66 3252-2555// +668-5488-4144 - F: +66 3252 0141
PATHUMTHANEE-BOONTHAVORN CERAMIC CO. LTD (RANGSIT)
T: +66 2 902 0171 - F: +66 2 902 0184
SAMUTSAKKON - BOONTHAVORN CERAMIC CO. LTD
(THONBUREE-PAKTHOR)
T: +66 2 896 4471-2 - F: +66 2 896 4473

TAIWÁN
KAOHSIUNG - NEW CENTURY CONSTRUCTIONAL CORP
T: +886 7 384 8834 - F: +886 7 387 1043
TAINAN - NEW CENTURY CONSTRUCTIONAL CORP
T: +886-7-3848834
TAIPEI - NEW CENTURY CONSTRUCTIONAL CORP
T: 73845135
TAICHUNG- NEW CENTURY CONSTRUCTIONAL CORP
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