butech

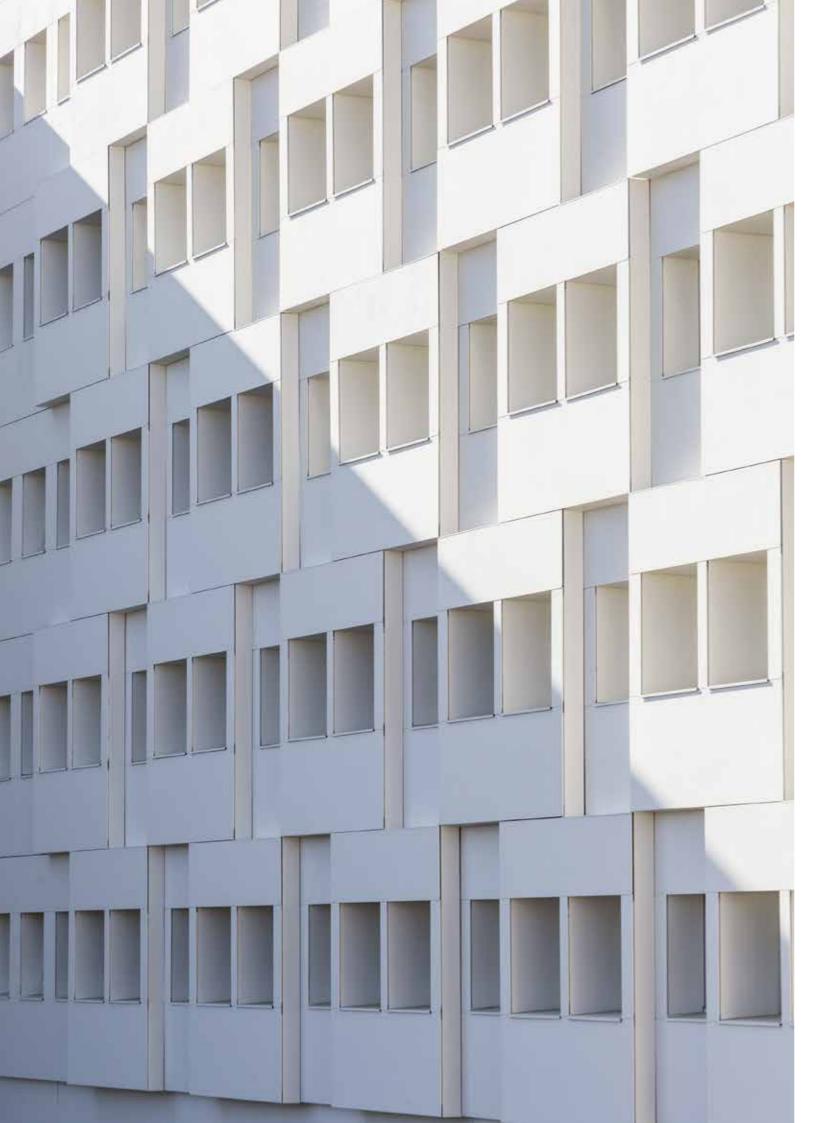
ventilated facades

The facade is one of the most characteristic elements in any type of building since it is virtually the only part that can be seen from the outside. That is why its design and construction are so important.

Butech offers this catalog to architecture professionals, where from a careful selection of materials, mainly Grupo PORCELANOSA ceramics, various facade systems are proposed that adapt to the most demanding needs of any project.







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MODFACADES

Experience, global presence

World leader in the installation of ceramic and solid surface facades.

With over 500 000 m² of VF installed, as the absolute global leader in the installation of ceramics, Butech is synonymous with quality, efficiency, and guarantee of success, with over 5000 employees and logistics centers around the world.

Leading the way in technical solutions, innovating in systems, and a continued commitment to developing new tools that enable today's architects to carry out the projects of the future.

Centralcon Building Shopping Mall and Residential Building, Shenzen, China · KRION VF System · KRION® 1100 Snow White Architect: Peddle Thorp · Photography: Salva Méndez



Architecture at its finest

Technically, the building's envelope contributes decisively to the architectural ensemble's energy efficiency.

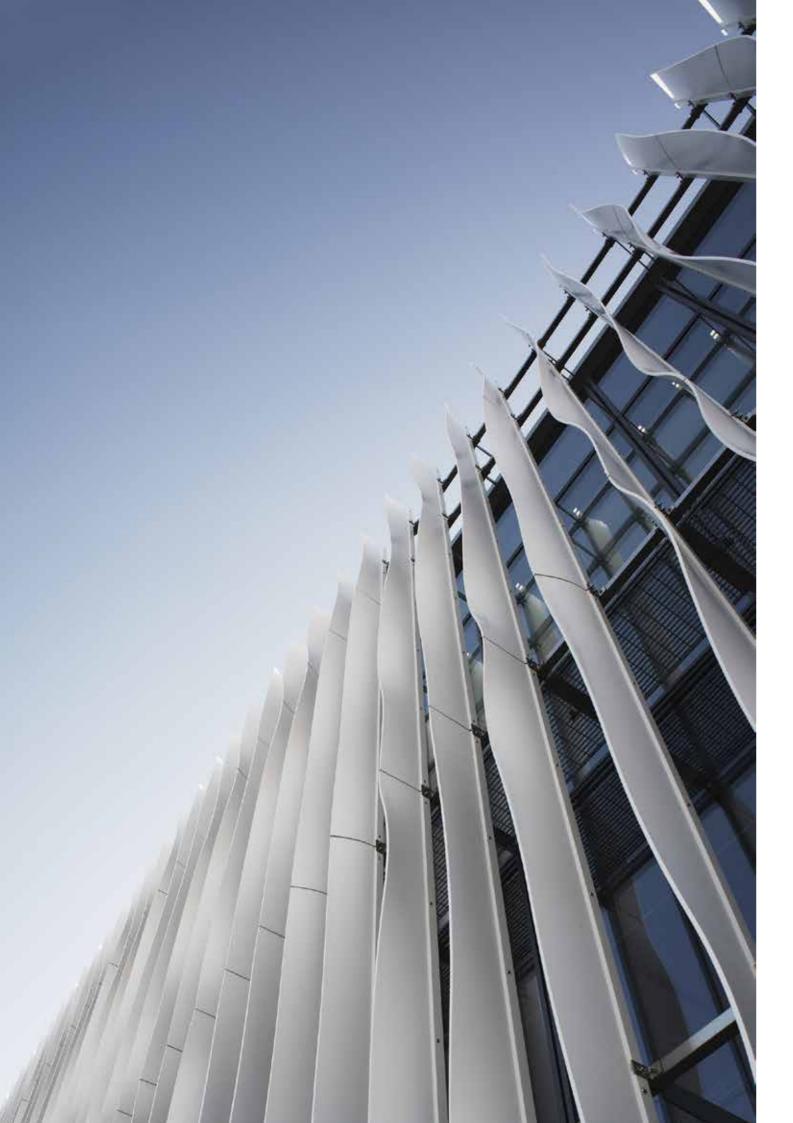
Architecture is in a continuous evolution process. So much so that new trends are constantly emerging, both in project design and in materials and construction solutions, which make architecture look toward new horizons on an ongoing basis. Among the most distinctive aspects of any building, the facade takes on an important role, not just for its aesthetic power and visual impact on any city's skyline. Technically, the building's envelope contributes decisively to the architectural ensemble's energy efficiency.

Technical support

Personalized and permanent technical support to all designers in the development of the best facade solutions for their projects.

Made up of technicians with experience throughout the world in all facade systems, Butech's technical office offers personalized and permanent technical support to all designers in the development of the best facade solutions for their projects.

PORCELANOSA Grupo has an engineering subsidiary for the development of technical solutions and construction of projects in which ceramics or KRION® (PORCELANOSA Grupo's Solid Surface) are the principal elements. The technical office researches new uses of ceramics in Architecture and develops new building systems for ventilated facades.



Quality and sustainability

Butech's ventilated facades provide a significant improvement in the facade's thermal behavior, reducing the incidence of solar radiation on the enclosure by 80%.









WINTECH
BUILDING ENVELOPE TESTING



PORCELANOSA Grupo is at the forefront in terms of production, R&D, and technical innovation in the ceramics industry. Grupo PORCELANOSA offers high technology products, with high-end technical and aesthetic features, with unbeatable quality standards.

The FV STON - KER® ventilated facade system is a reliable system included in the Agence Qualité Construction's C2P green list, and which has obtained positive technical certifications such as the Avis Technique CSTB n° 02/15-1700 issued by the Secretariat of the Commission des Avis Techniques, the Spanish Technical Suitability Document DIT 530 of the Instituto Eduardo Torroja IETcc the BBA Agreement Certificate 10/4775 in the United Kingdom, and the EMI A-758/2006 certificate in Hungary. The installation of this system, present on the market for 16 years, is more frequent every day both in renovations and new buildings. Butech has evaluated the energy efficiency of the STON-KER® ventilated facade through a thermal characterization study carried out by the CIDEMCO Institute.

With potential for using in new construction and renovations, Butech's ventilated facades provide a significant improvement in the facade's thermal behavior, reducing the incidence of solar radiation on the enclosure by 80%, allowing for an easy continuous installation of the thermal insulation, which lets us eliminate thermal bypasses and achieve an energy efficiency improvement in general.

The commitment to the use of recycled materials in our ceramics, combined with the recycling levels in our structures, allow us to collaborate in securing the highest levels of LEED certification.

Zamasport, Manhattan Headquarters, Novara, Italia.
System FV KRION K-Fix · KRION® 1100 Lux
Architect: Frigerio Design Group · Photography: Mario Frusca



VF Porcelain panel

Ventilated facade system with final porcelain panel covering.

It differs from other systems in the use of a dual fixing system: a chemical one using high-performance polyurethane putty and a mechanical one using stainless steel clips that ensure the union of the porcelain panels and the facade's metallic structure.

PORCELANOSA Grupo's rectified porcelain panel panels are characterized by very low water absorption, lower than 0.1% as per UNE-EN ISO 10545-3, manufactured by dry pressing at about 450 kg/cm², production by single firing at maximum temperature of 1220 °C and back-meshed with fiberglass mesh to prevent fragments from falling in case of breakage. In the case of ventilated facades with concealed clips, they are supplied with side slots for their fixing to the facade structure.

The metallic structure of the ventilated facade includes the following elements:

- Facade to enclosure mechanical anchors depending on the type of substrate.
- Aluminum L-shaped spacers, which determine the chamber between the enclosure and the ceramic covering.
- Lacquered aluminum uprights on which the porcelain panels are installed.
- Stainless steel clips for fixing the ceramic piece to the uprights.
- Self-drilling joint screws between vertical uprights and aluminum spacers.

The metal structure of the ventilated facade is made of AW 6005A aluminum, while the mechanical fixing plates are manufactured in AISI 304 stainless steel.

Certifications and technical testing



Spain DIT 530/11 from the Instituto Eduardo Torroja of Madrid.



United Kingdom BBA Agreement Certificate 10/4775 in the United Kingdom



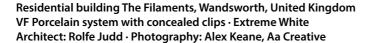
France
Avis Technique CSTB No.
02/15-1700 issued by the
Secrétariat de la Comission des
Avis Techniques

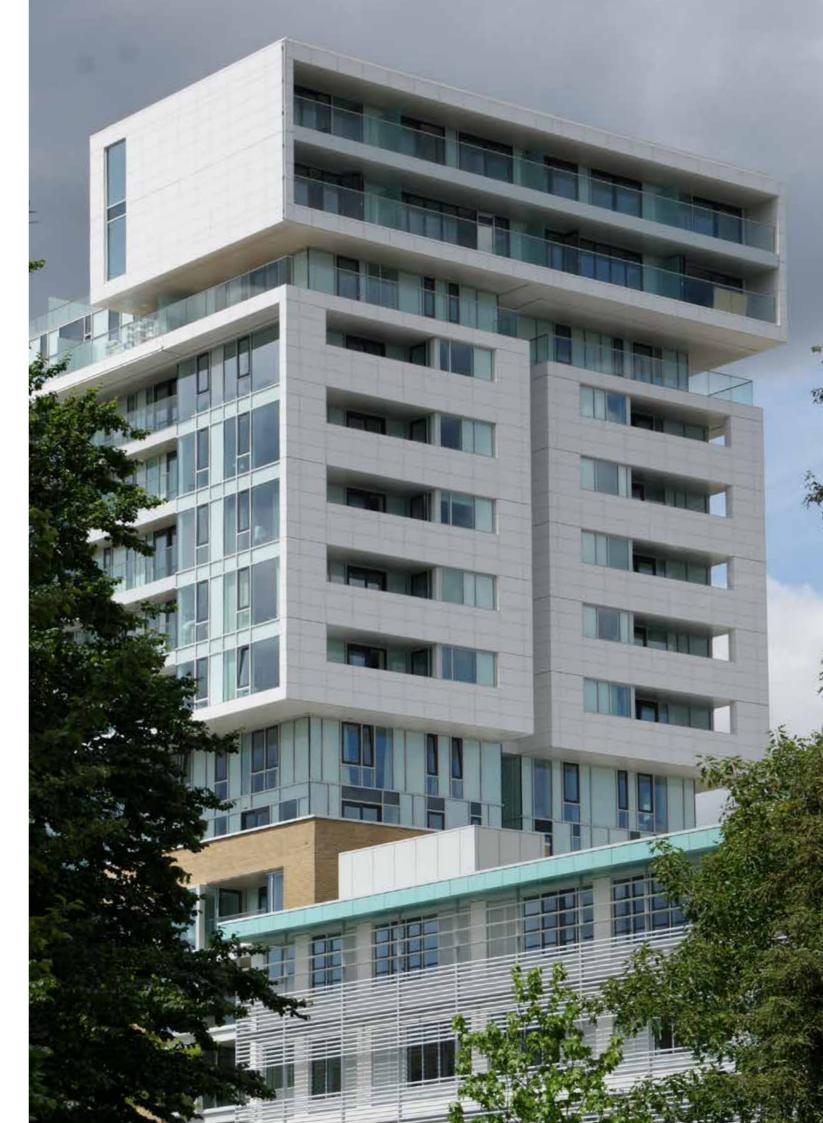


United Kingdom WINTECH Building Envelope Testing Report No R12764

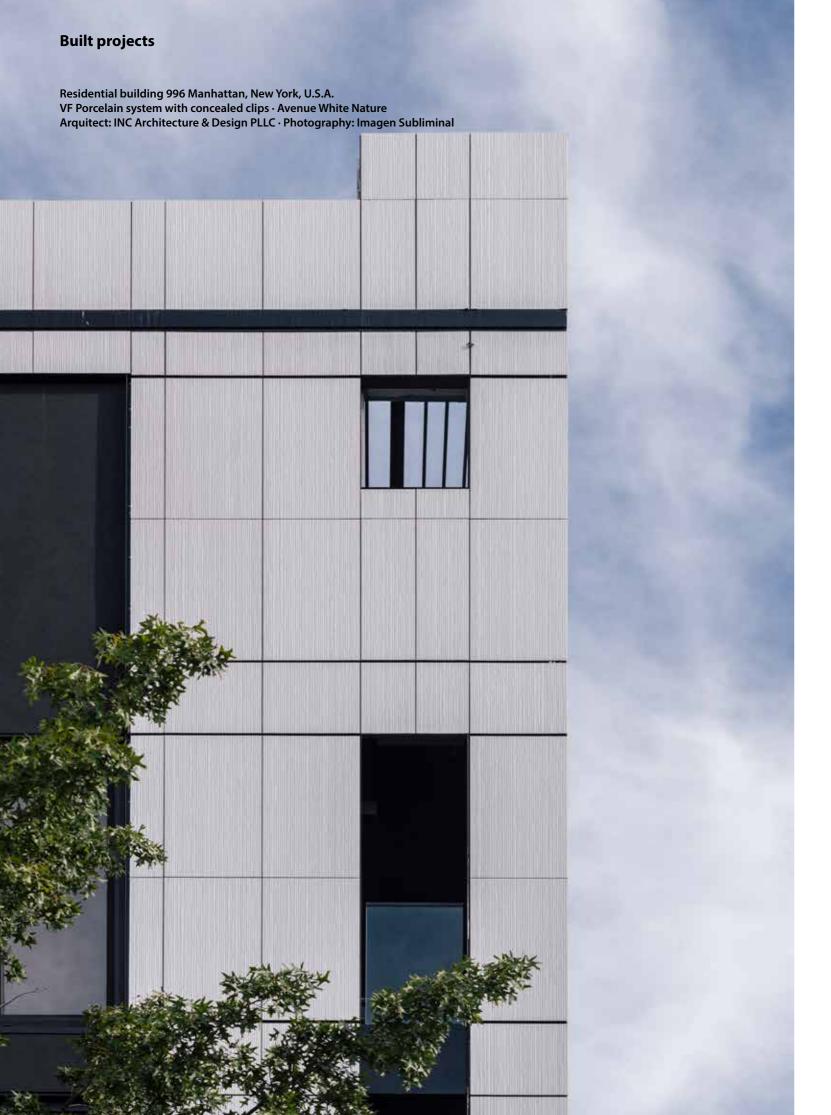


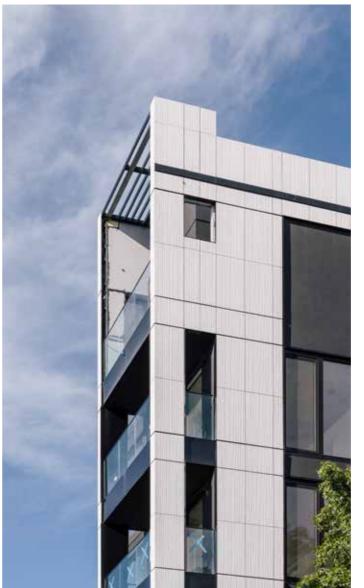
USA ICC (ICC-ES Evaluation Report ESR-3343)





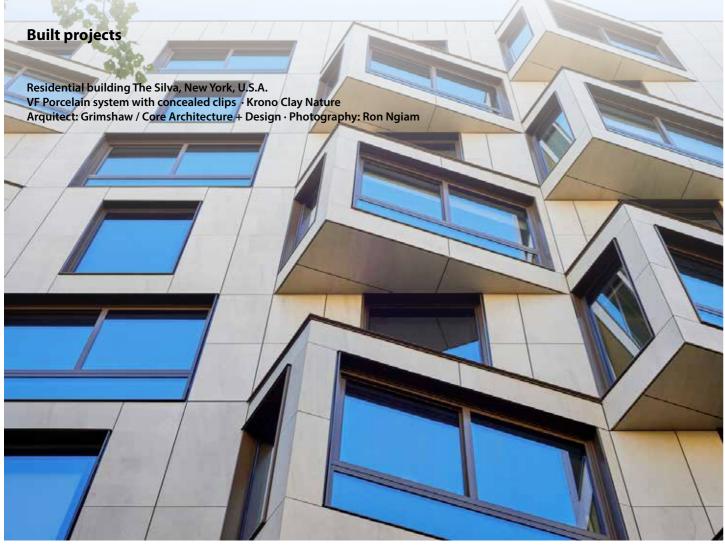
















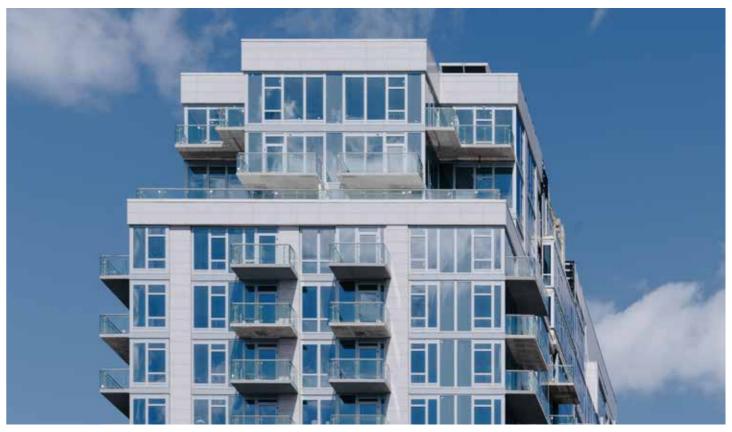


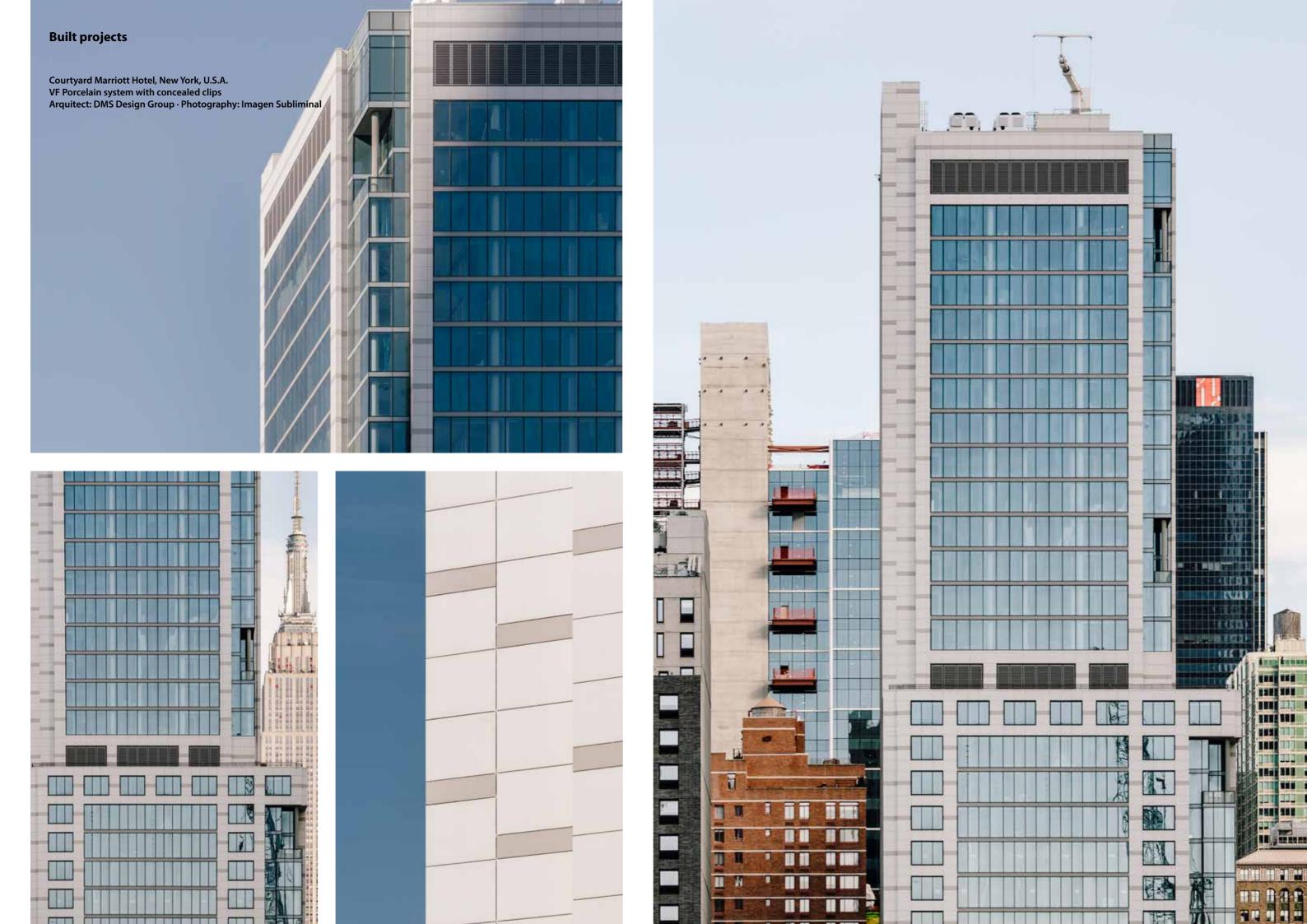


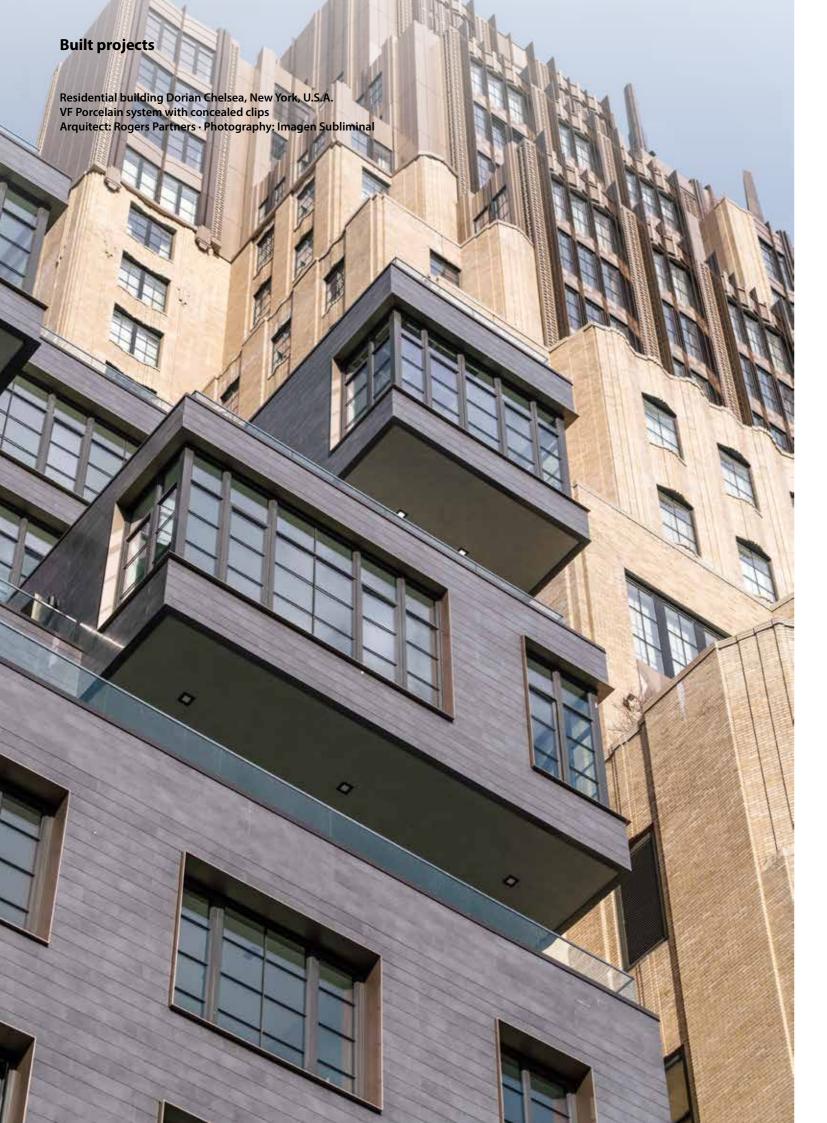








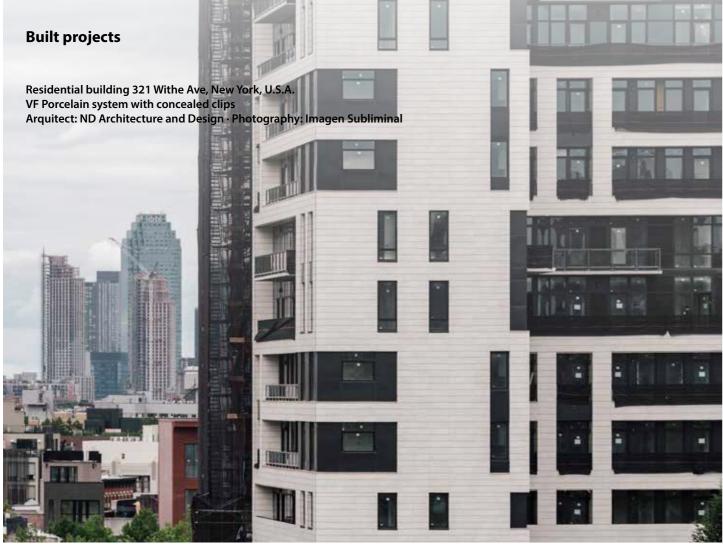


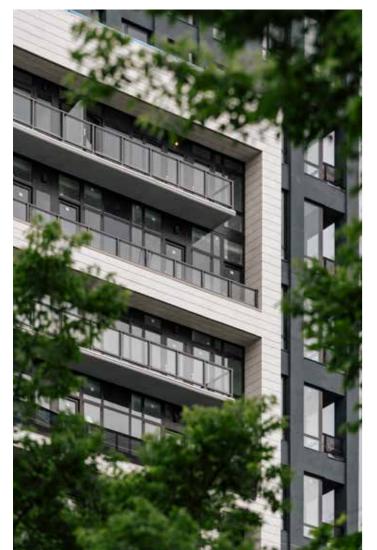




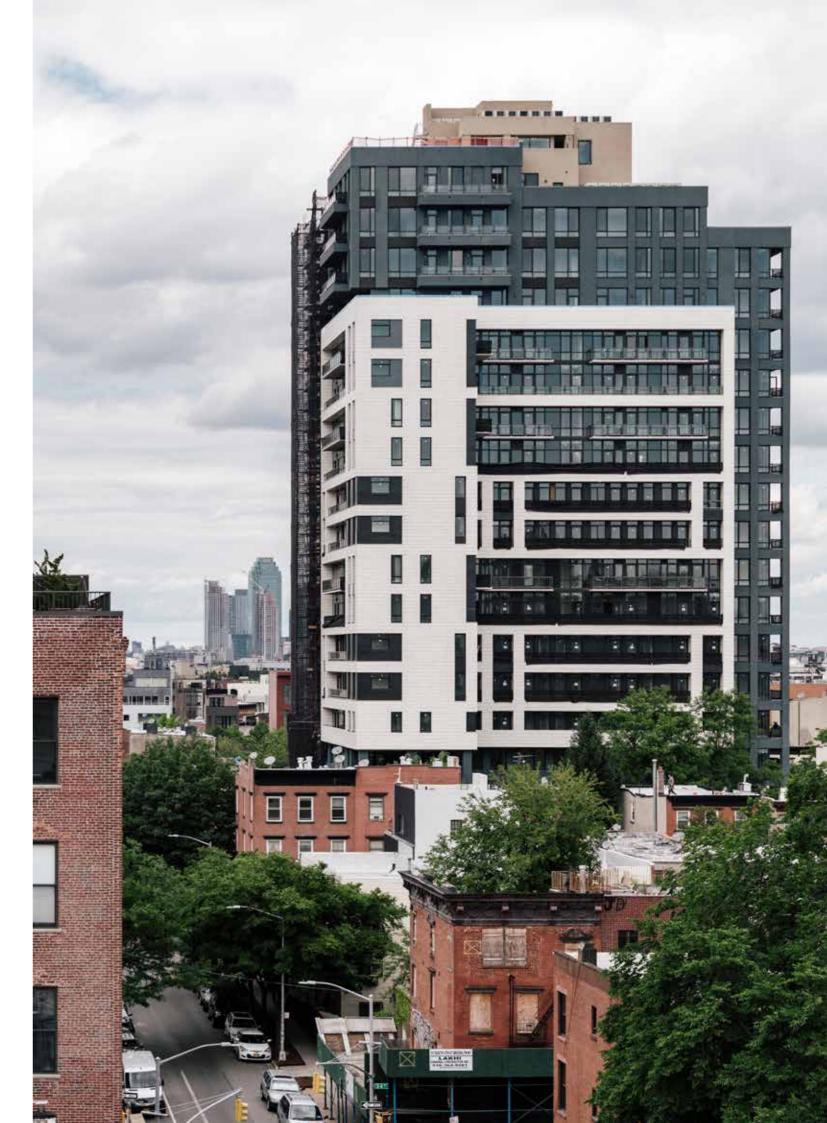




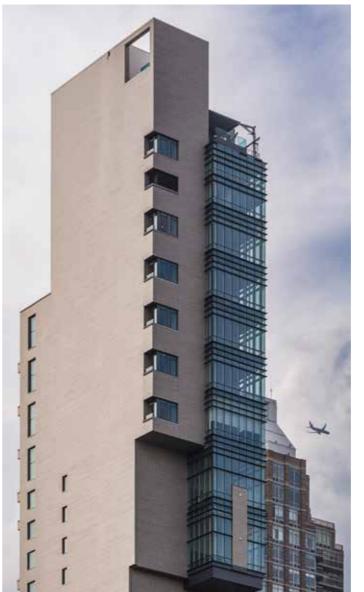














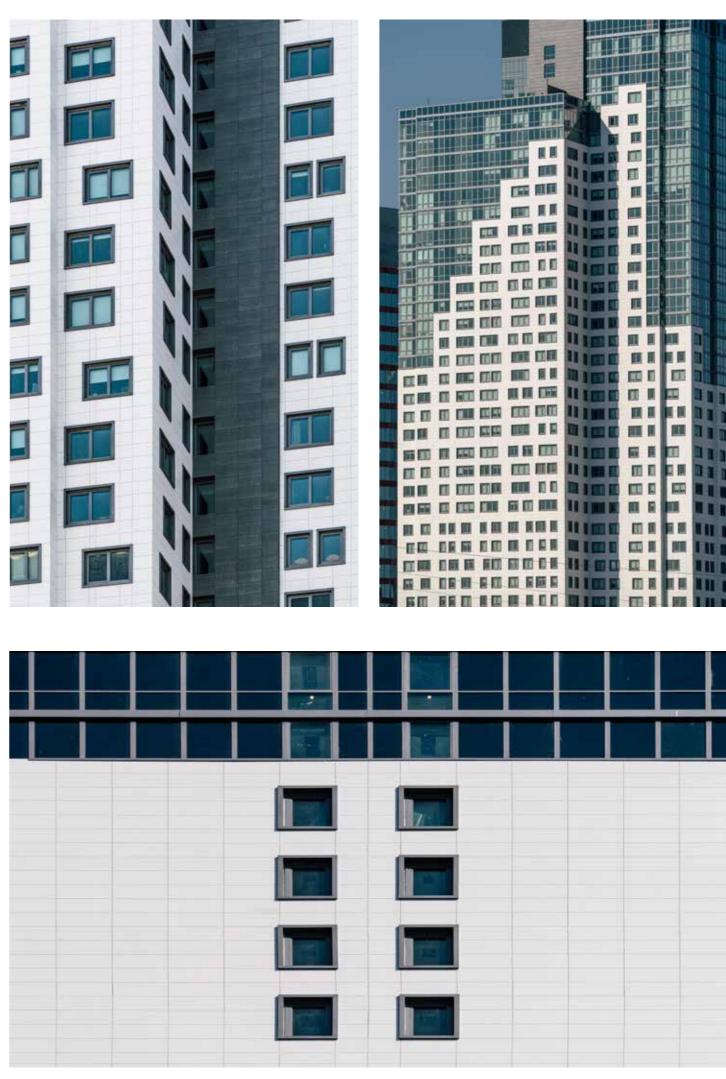














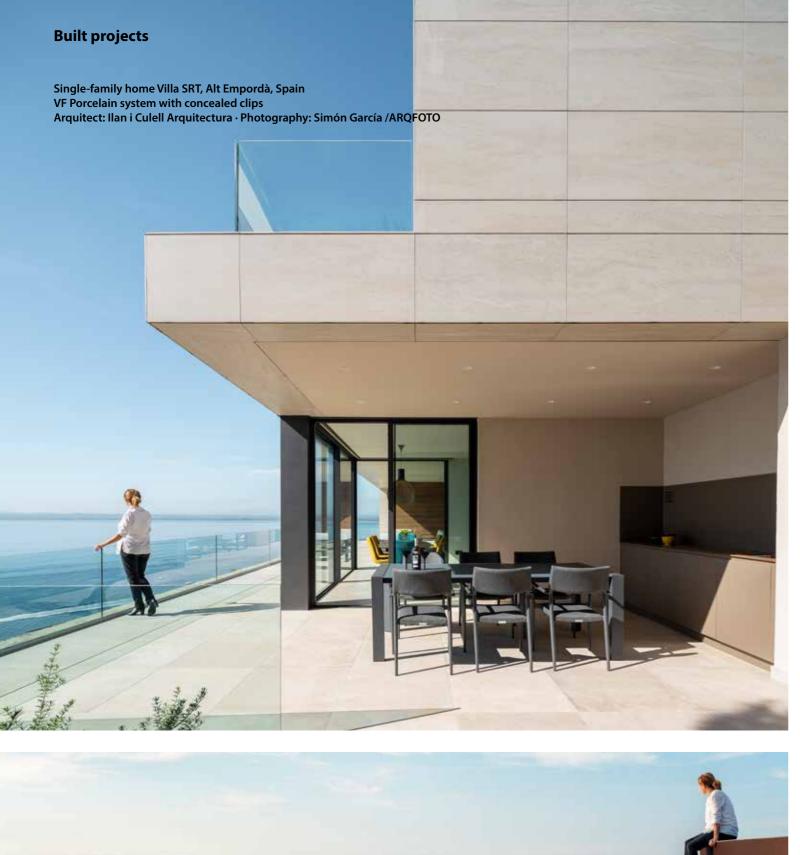


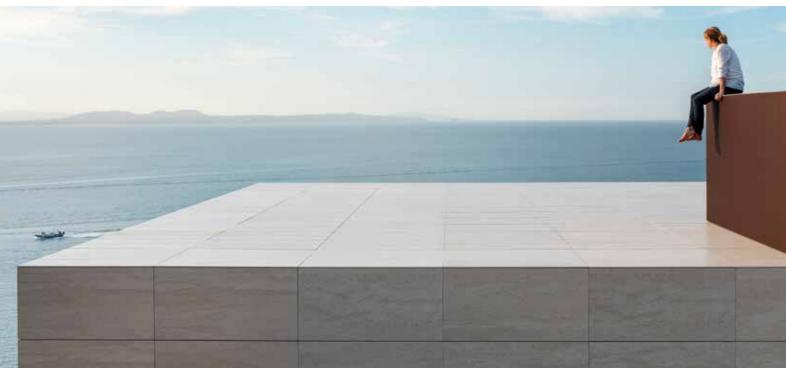


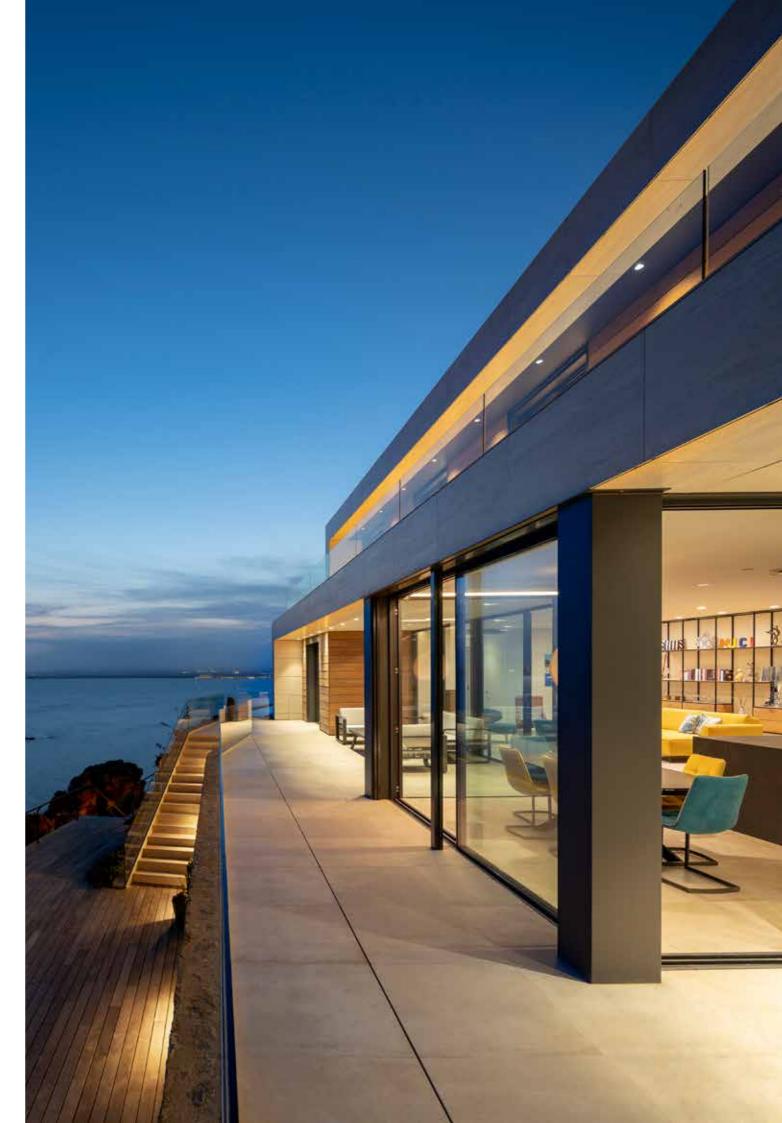


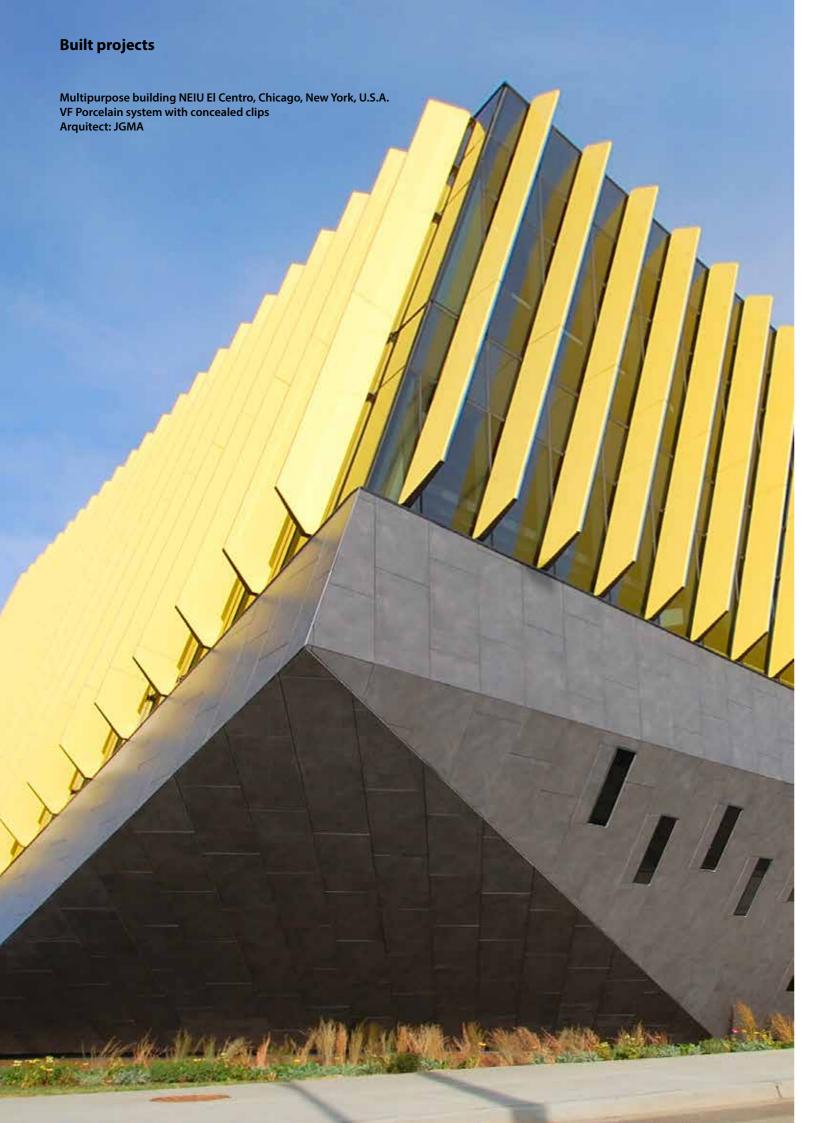


















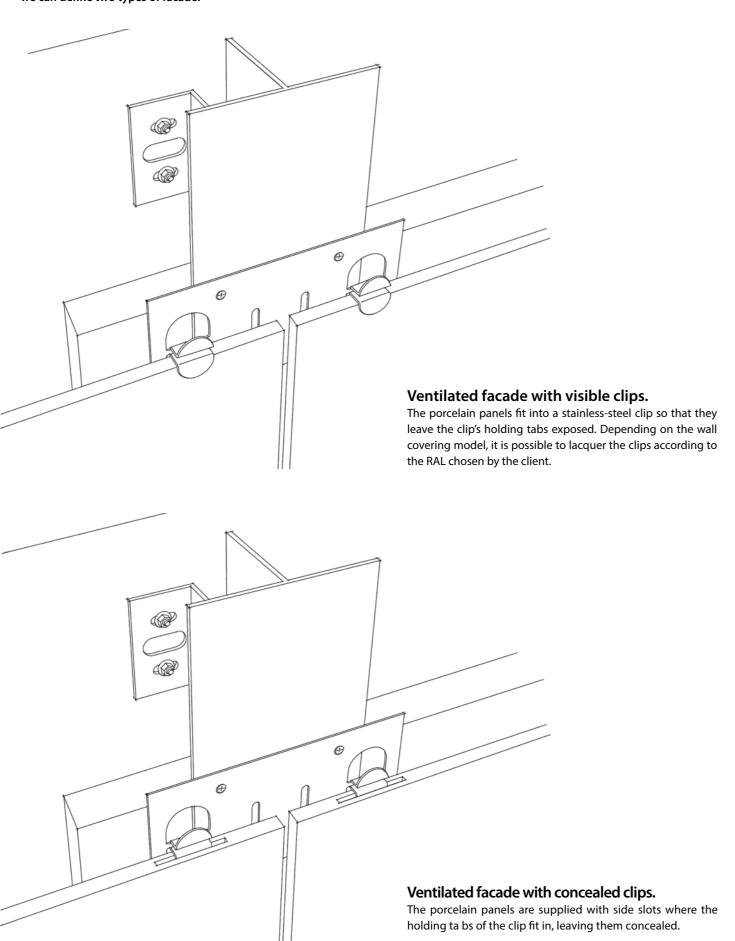


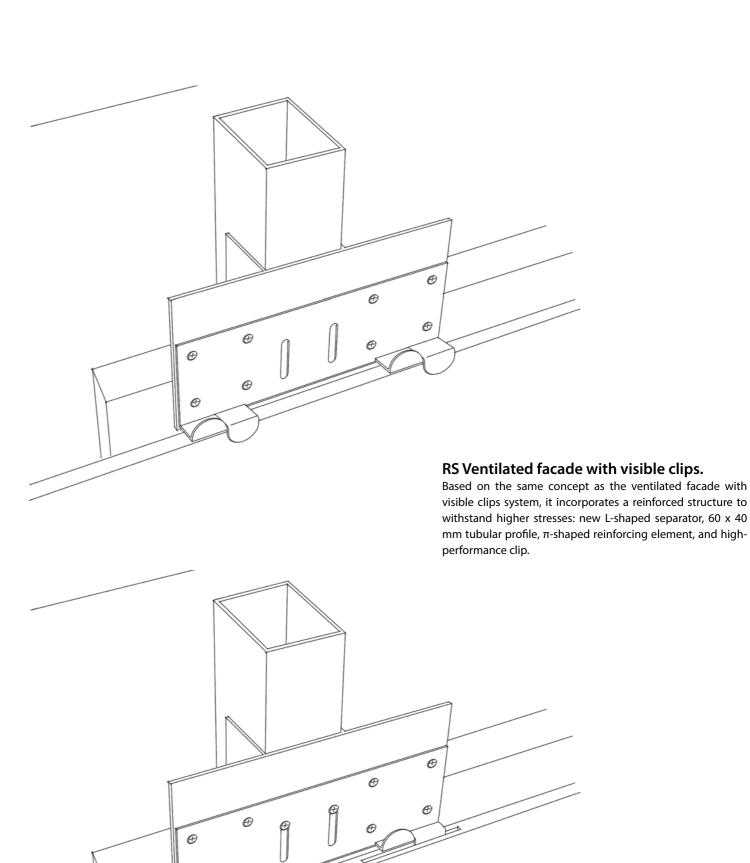




Facade types

Depending on the porcelain panel fixing system to the facade structure, we can define two types of facade:

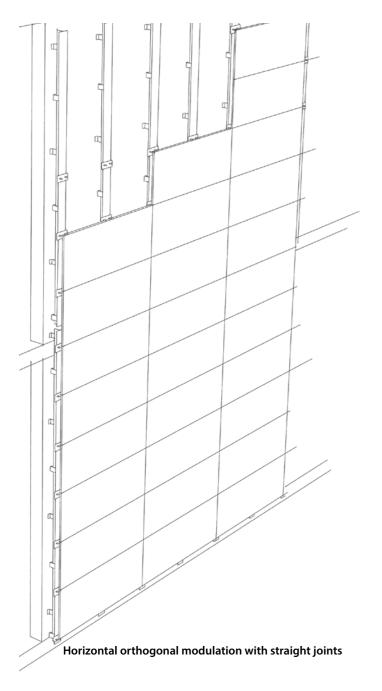


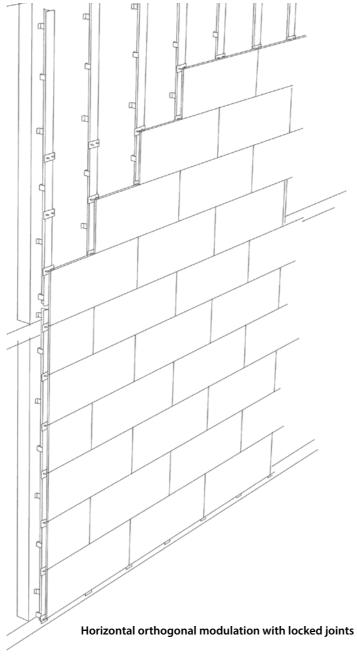


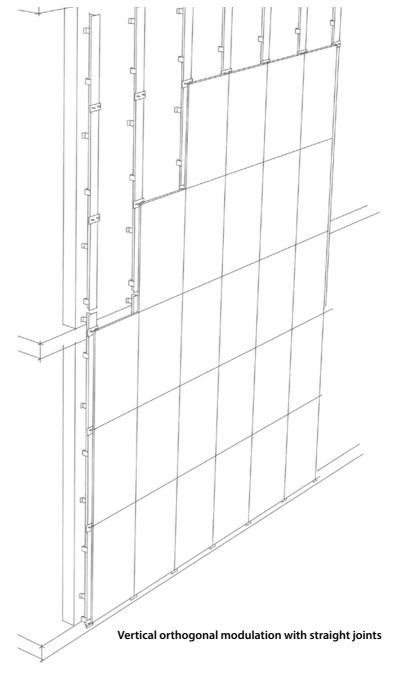
RS Ventilated facade with concealed clips.

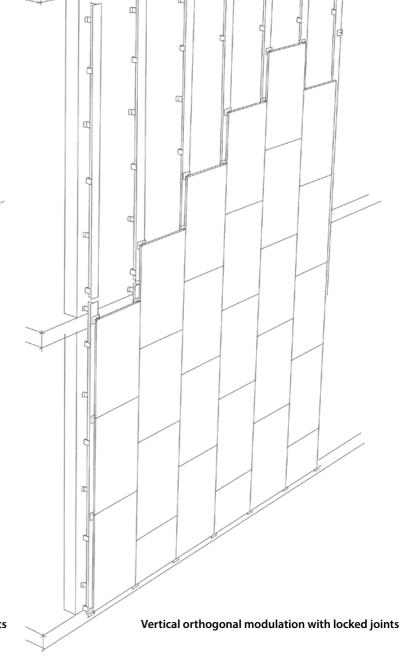
Based on the same concept as the ventilated facade with concealed clips system, it incorporates a reinforced structure to withstand higher stresses: new L-shaped separator, 60×40 mm tubular profile, π -shaped reinforcing element, and highperformance clip.

Characteristics









Facade structure.

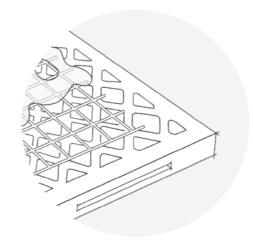
Main characteristics:

- Facade anchoring direct to the building structure.
- Applicable to most structure and enclosure types used in construction.
- Minimum distance between support and facade: 80 mm.
- Structure consisting of only vertical profiles.
- Structure for very light facade: less than 5 kg/m².
- Dual chemical and mechanical fixing system; complete safety.

Modulation of the facade.

Main characteristics:

- Modulation on one plane and leveled with the facade.
- Horizontal or vertical orthogonal modulation.
- Modulation with straight or locked joints.
- Horizontal installation joints between 5 and 8 mm wide.
- Vertical installation joints starting at 1 mm wide.
- Option of installing with "fish scale" pattern.



Porcelain panels.

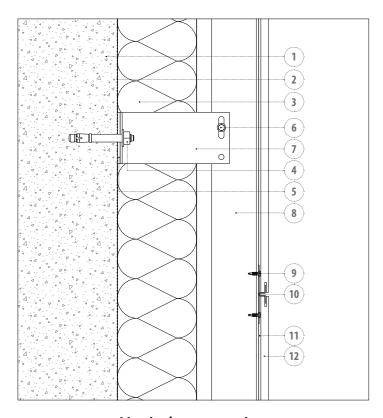
Main characteristics:

- Exclusive design of PORCELANOSA Grupo.
- Wide variety of panel formats: from 297 x 596 mm to 596 x 1800 mm.
- High mechanical resistance: breaking strength greater than 2000 N, as per UNE-EN ISO 10545-5.
- Back -meshed panels to prevent the fall of fragments in case of breakage.
- Weather resistant; the appearance of the panels remains unchanged with the passing of time.
- · Easy to clean in the case of paint stains or graffiti.

These drawings are only sketches of tile modulation examples. For technical details of these façade systems, have a look the construction details at the next pages.

Construction details · Concealed clip system

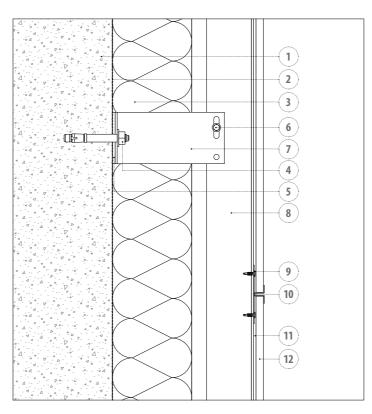
Construction details · **Visible clip system**



Vertical cross-section

Elements of the system:

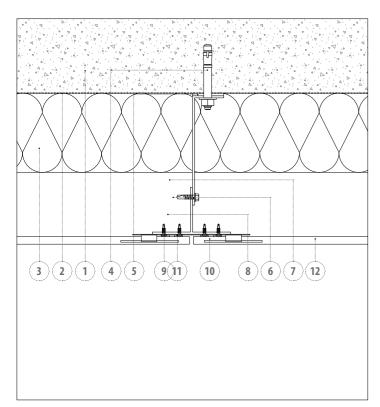
- 1. Concrete support
- 2. Waterproofing sheet 3. Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. Secondary L-shaped aluminum spacer
- 8. Aluminum T-shaped upright
- 9. Self-drilling screw
- 10. Concealed clip
 11. Polyurethane putty
- 12. Porcelain panel

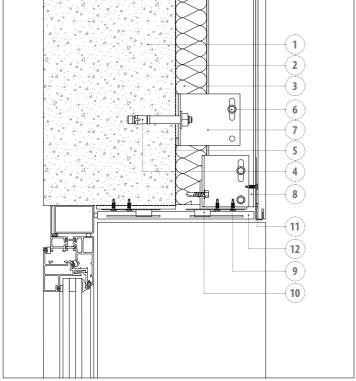


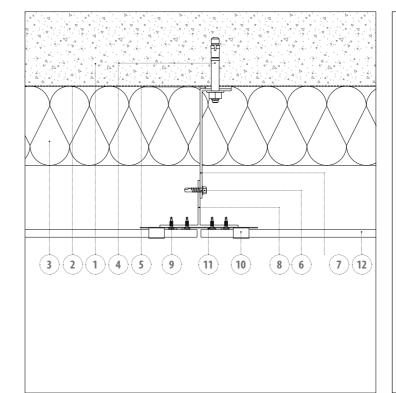
Vertical cross-section

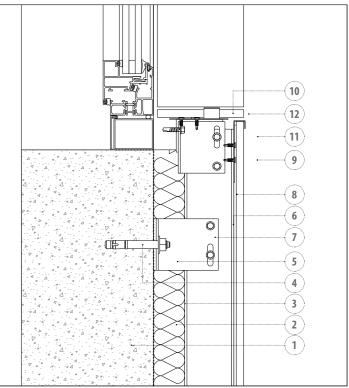
Elements of the system:

- Concrete support
 Waterproofing sheet
 Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. Secondary L-shaped aluminum spacer
- 8. Aluminum T-shaped upright
- 9. Self-drilling screw
- 10. Visible clip
- 11. Polyurethane putty
- 12. Porcelain panel









Lintel Sill **Horizontal cross-section Horizontal cross-section**

Construction details · RS system with concealed clip

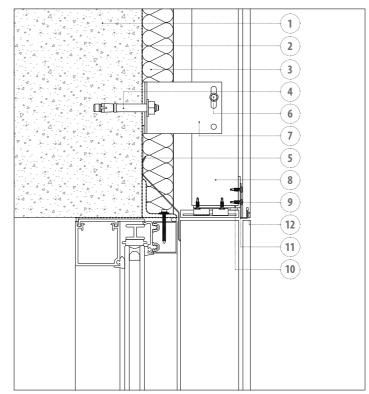
0-0-12 (11) 13

Vertical cross-section

1 2 3 4 5 9 10 12 11 6 7 8 13

Horizontal cross-section

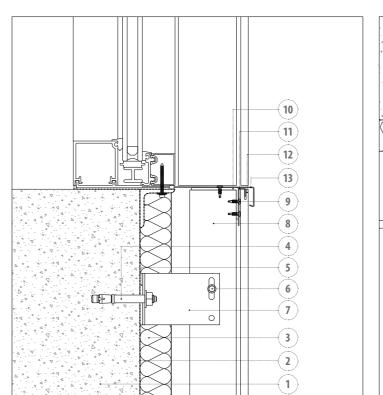
Construction details · RS system with concealed clip

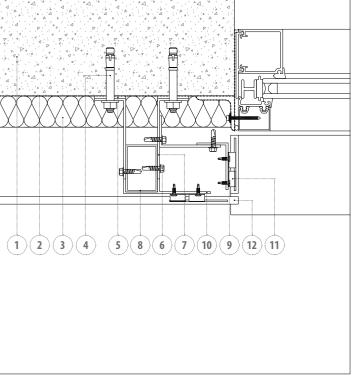


Lintel

Elements of the system:

- Concrete support
 Waterproofing sheet
 Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. Secondary L-shaped aluminum spacer 8. Vertical aluminum tubular profile
- 9. Self-drilling screw
- 10. π-shape reinforcement piece
- 11. High performance concealed clip
- 12. Porcelain panel
- 13. Metal window casings





Elements of the system:

- 1. Concrete support
- Waterproofing sheet
 Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. Secondary L-shaped aluminum spacer8. Vertical aluminum tubular profile
- 9. Self-drilling screw
- 10. π -shape reinforcement piece
- 11. High performance concealed clip
- 12. Polyurethane putty
- 13. Porcelain panel

Sill Jamb

FV-XLIGHT/XTONE

Ventilated facade system using XLIGHT/ XTONE porcelain stoneware.

It differs from other methods due to its double anchorage system: one is chemical, using a high-performance polyurethane filler, and the other is mechanical using stainless steel staples that ensure the bonding of porcelain stoneware to the metallic structure of the facade.

XTONE / XLIGHT porcelain stoneware plates are characterised by their large size, measuring up to 1600 mm x 3200 mm and 6 mm thick; very low water absorption, less than 0.1%, in accordance with UNE-EN ISO 10545-3; and are reinforced at the back with a fibreglass mesh that prevents fragments from falling in the event of breakage. The pieces used in XLIGHT / XTONE ventilated facades with hidden anchorage are supplied fixed to a metal substructure that allows them to be fixed on to the building structure.

Estructura metálica de la fachada ventilada

- Mechanically anchoring the facade to the enclosure, according to the type of support.
- L-shaped aluminium separators determine the cavity between the enclosure and the ceramic coating.
- Vertical aluminium pillars onto which the porcelain stoneware pieces are fitted.
- Stainless steel staples for anchoring the XLIGHT plates to the vertical pillars.
- Self-drilling screws to connect vertical pillars and aluminium separators.

The metallic structure of the ventilated facade is made of AW 6005A aluminium, while the mechanical anchors are AISI 304 stainless steel

- Anchoring the facade directly to the building structure.
- Minimum distance of 80 mm between support and facade
- Very light facade structure: less than 5 kg/m².
- Dual chemical and mechanical anchorage system; full security.
- Plane modulation and level with the facade. Horizontal or vertical angle. With straight or locked joints.
- Horizontal placement joints of between 5 mm and 8 mm in width. Vertical placement joints from 1 mm in width
- Wide variety of plate formats: from 1200 mm x 2700 mm to 1600 mm x 3200 mm.
- Mesh on the back of the pieces to prevent fragments from falling in the event of breakage.
- Resistance to climate agents; the elements' physical appearance remains unchanged with the passage of time.
- · Easy to clean in the event of paint marks or graffiti.

Certifications and technical testing

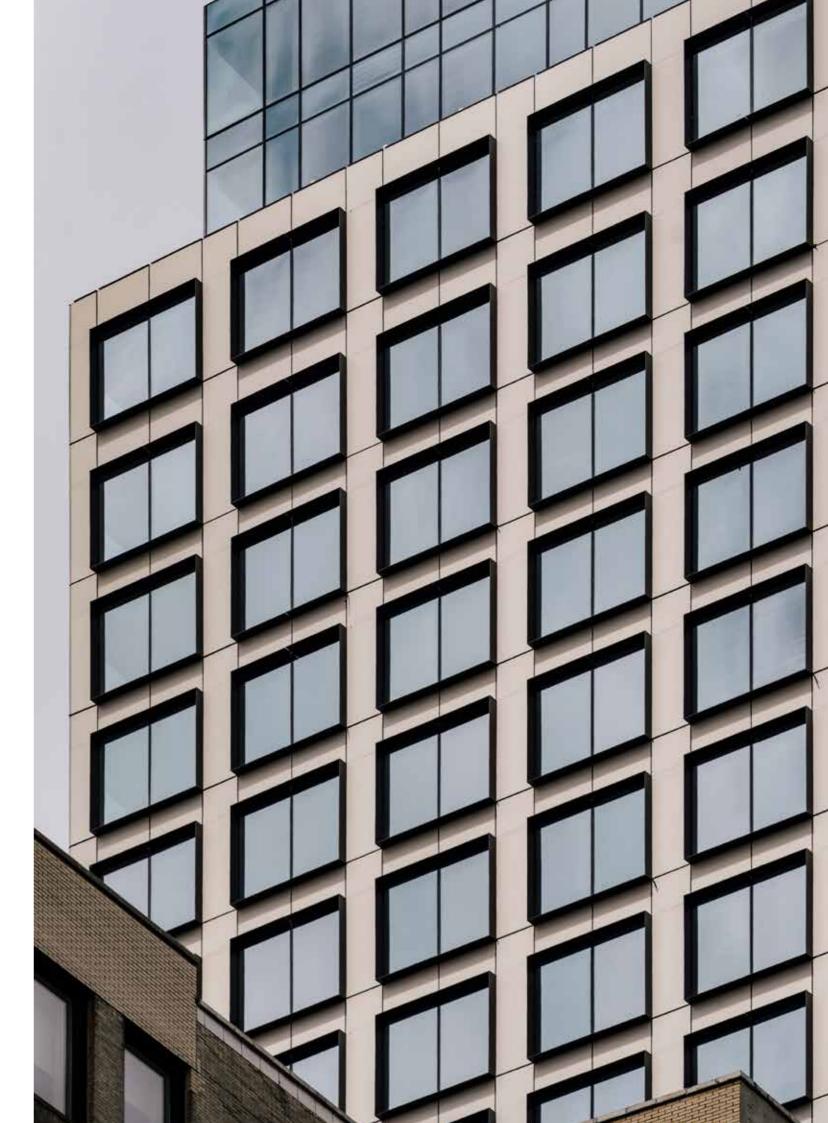
Spain

Resistance to wind pressure and suction 13/7157-2977.

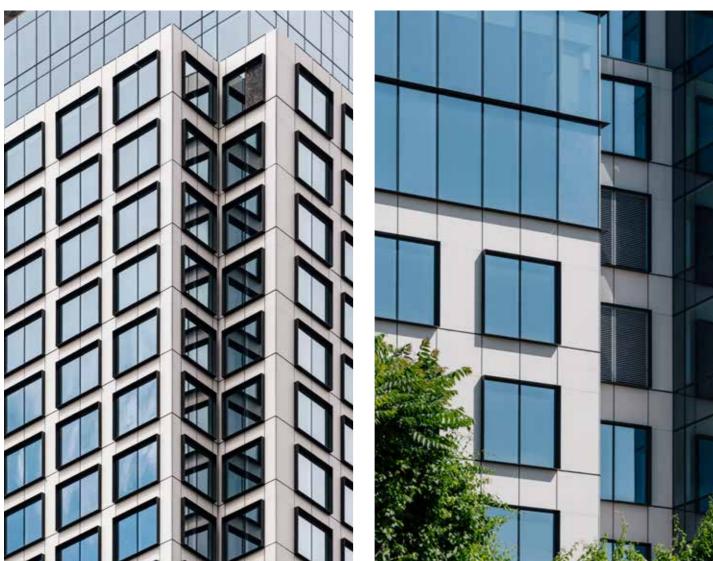
Impact resistance 13/6955-923.

Wind load, impact, and water permeability testing by the Vinci Technology Centre laboratory.

Residential building Hudson 36, New York, U.S.A.
VF XLIGHT system with concealed clips
Architect: Ismael Leyva Architects · Photography: Imagen Subliminal

















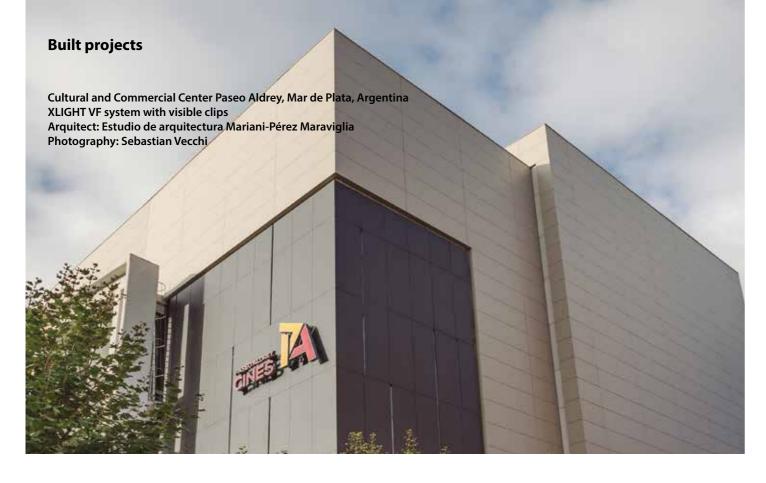
Built projects



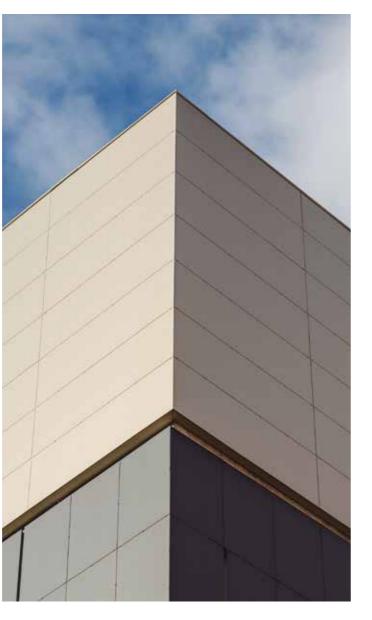










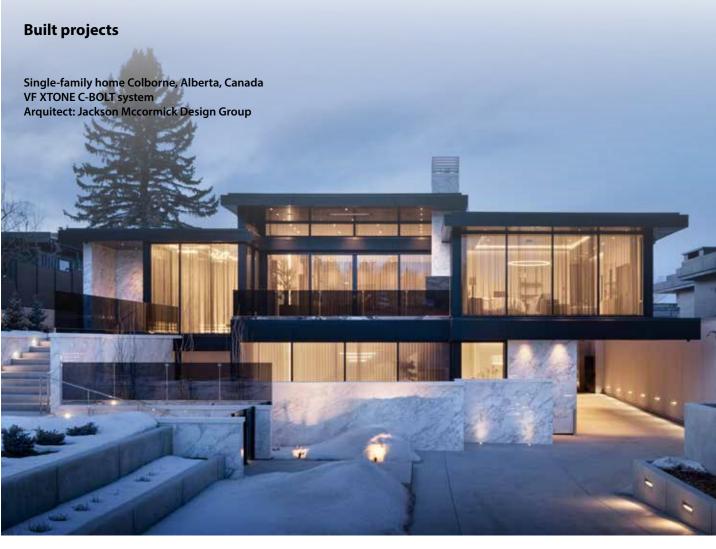






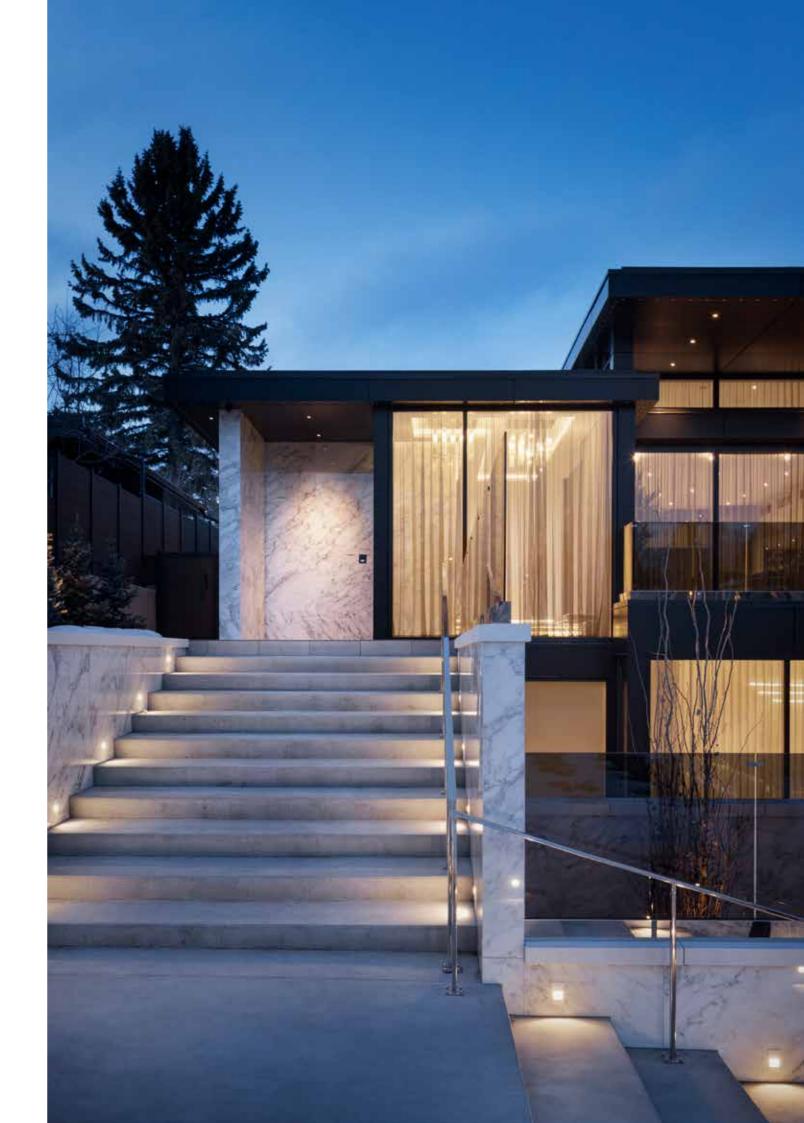






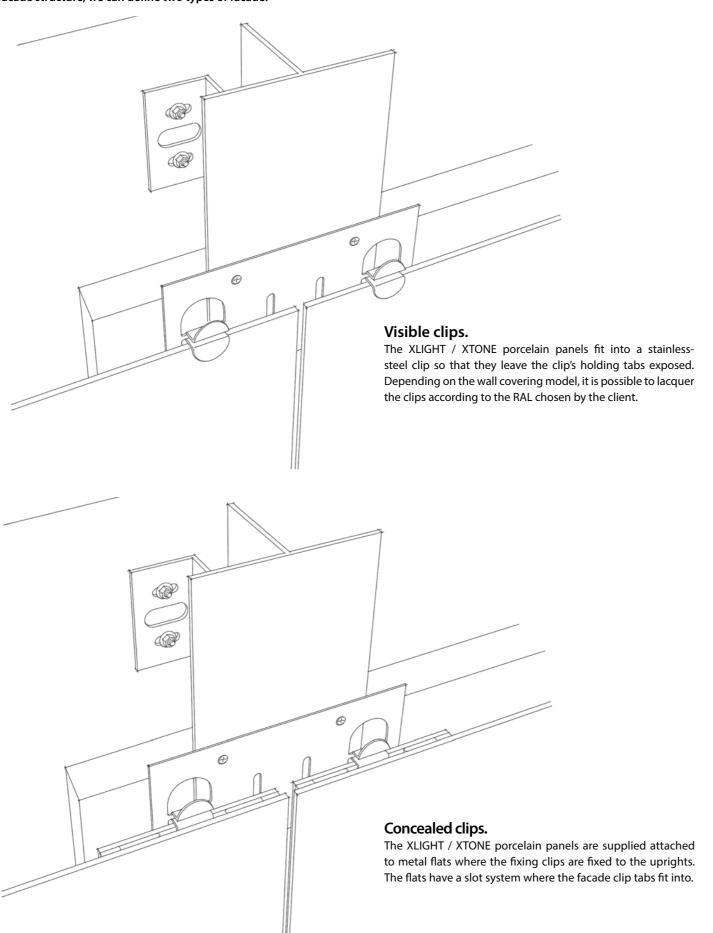


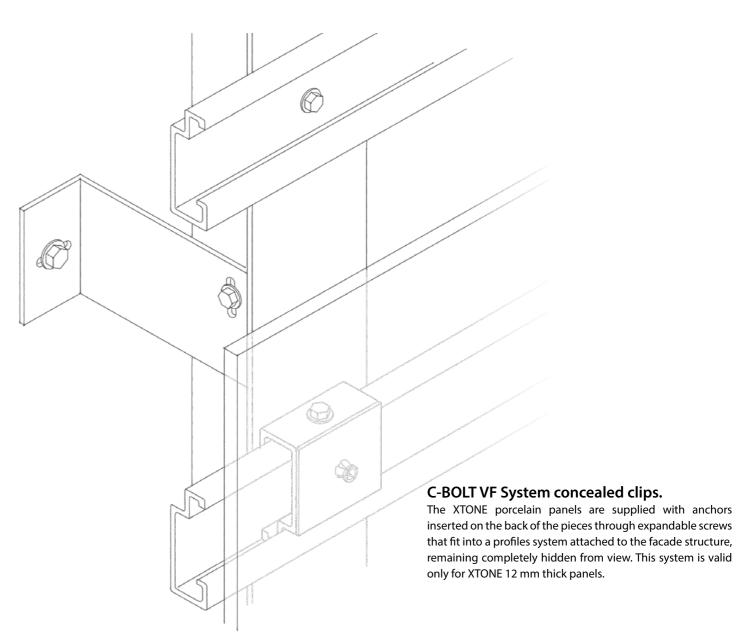




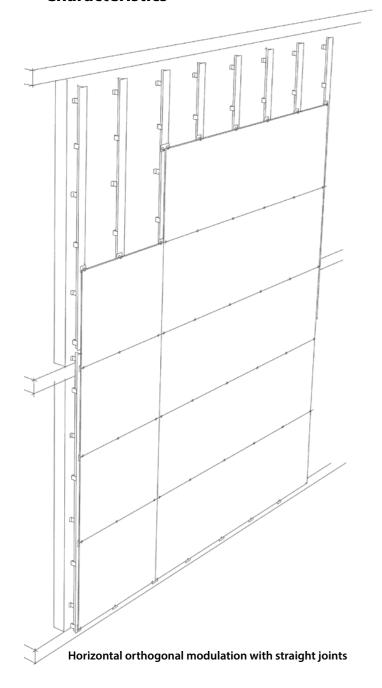
Facade types

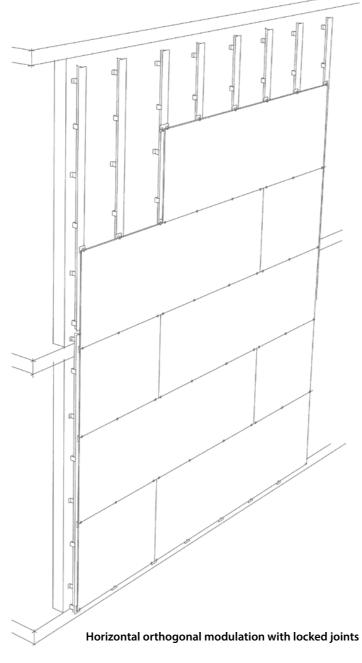
Depending on the XLIGHT / XTONE porcelain panel fixing system to the facade structure, we can define two types of facade:

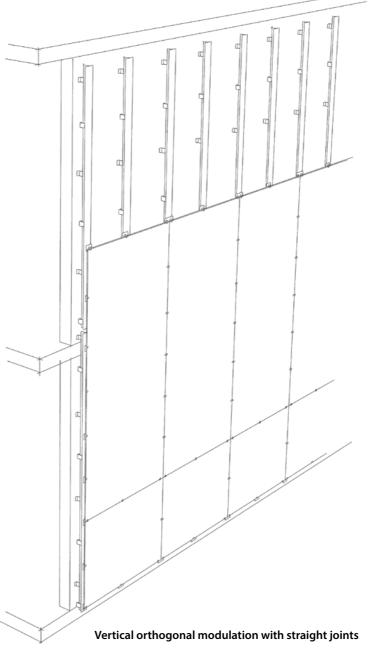


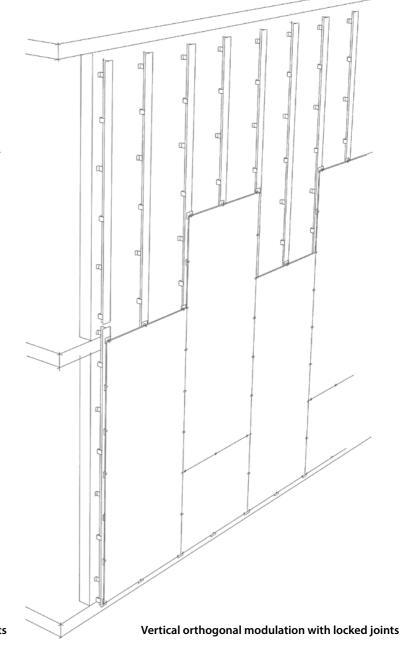


Characteristics









Facade structure.

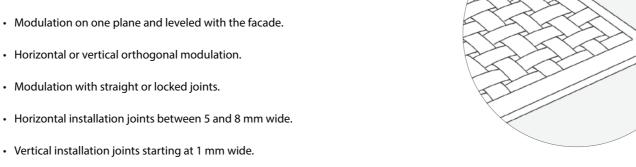
Main characteristics:

- Facade anchoring direct to the building structure.
- · Applicable to most structure and enclosure types used in construction.
- Minimum distance between support and facade: 80 mm.
- Structure consisting of only vertical profiles.
- Structure for very light facade: less than 5 kg/m².
- · Quick assembly.

Modulation of the facade.

Main characteristics:

- · Reduced presence of installation joints.
- Modulation on one plane and leveled with the facade.
- · Modulation with straight or locked joints.
- Vertical installation joints starting at 1 mm wide.



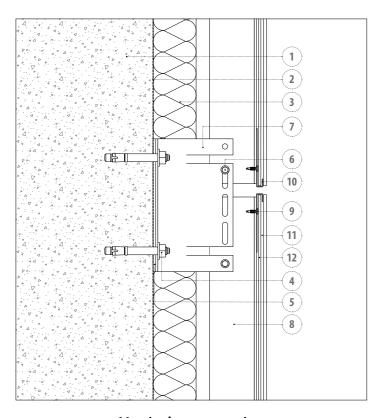
XLIGHT and XTONE panels.

Main characteristics:

- Exclusive design of PORCELANOSA Grupo.
- Large format: XLIGHT and XTONE from 1200 mm x 2700 mm to 1600 mm x 3200 mm.
- Minimum thickness for XLIGHT panels: 3.5 mm.
- In the case of XLIGHT, extremely light panels: 9 12 kg/m².
- Back -meshed panels to prevent the fall of fragments in case of breakage.
- · Weather resistant; the appearance of the panels remains unchanged with the passing of time. Resistant to paint stains or graffiti.
- In the case of XLIGHT facade with exposed clip, excellent price/m²

These drawings are only sketches of tile modulation examples. For technical details of these façade systems, have a look the construction details at the next pages.

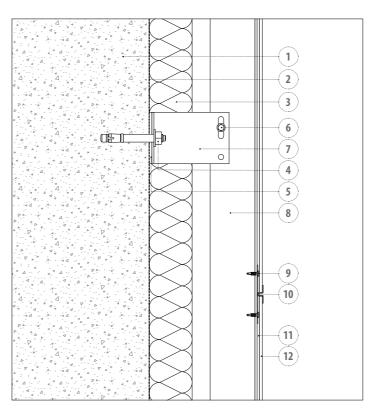
Construction details · Visible clip system



Vertical cross-section

Elements of the system:

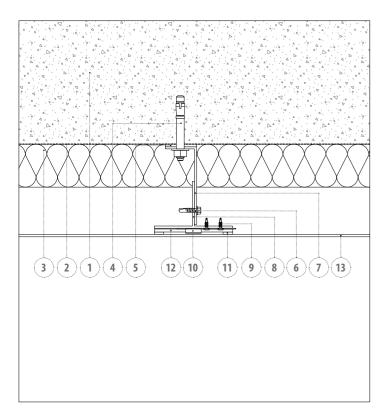
- 1. Concrete support
- 2. Waterproofing sheet 3. Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. L-shaped aluminum spacer
- 8. Aluminum T-shaped upright
- 9. Self-drilling screw
- 10. Concealed clip 11. Polymer adhesive
- 12. Aluminum plate (flat)
- 13. XLIGHT

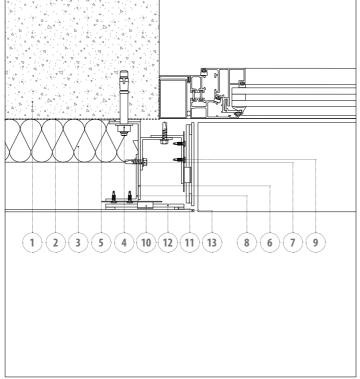


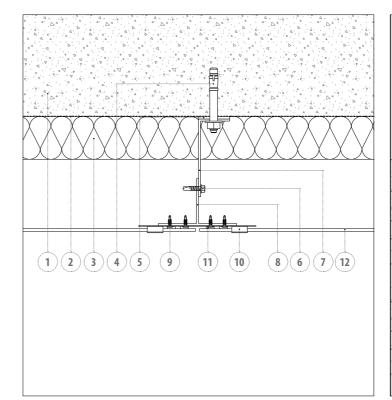
Vertical cross-section

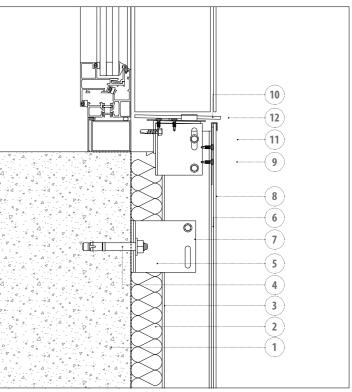
Elements of the system:

- Concrete support
 Waterproofing sheet
 Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. L-shaped aluminum spacer
- 8. Aluminum T-shaped upright
- 9. Self-drilling screw
- 10. Visible clip
- 11. Polymer adhesive
- 12. XLIGHT



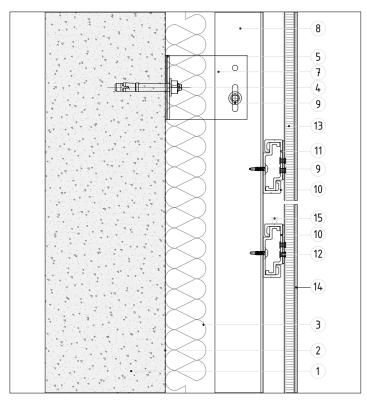






Lintel **Horizontal cross-section** Sill **Horizontal cross-section**

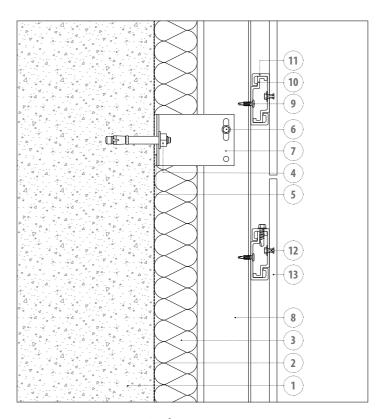
Construction details · C-BOLT concealed clip



Vertical cross-section

Elements of the system:

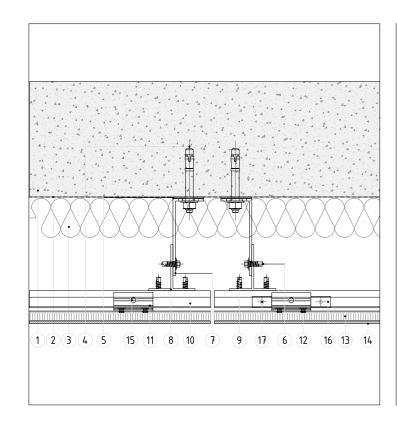
- 1. Concrete support
- 2. Waterproofing sheet
- 3. Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. L-bracket
- 8. Vertical T-profile
- 9. Stainless steel self-drilling screw
- 10. C-BOLT Horizontal Profile
- 11. C-BOLT Clip
- 12. Stainless steel rivet
- 13. PET + aluminum panel
- 14.XLIGHT
- 15. Stainless steel leveling screw
- 16. Blocking plate
- 17. Stainless steel self-drilling screw
- 18. Metal window return

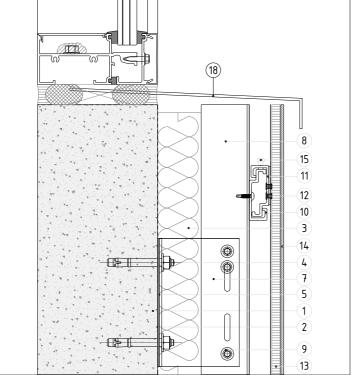


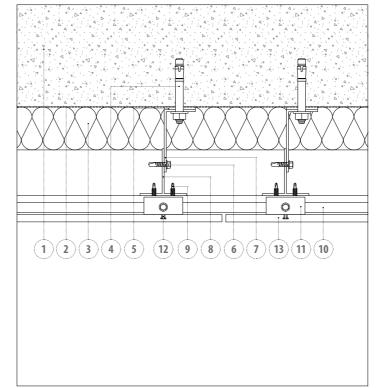
Vertical cross-section

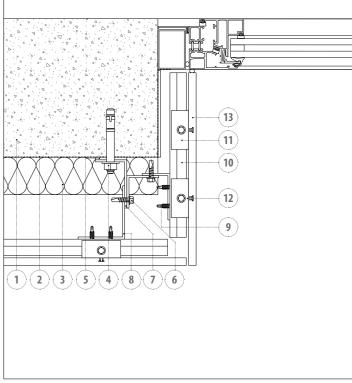
Elements of the system:

- Concrete support
 Waterproofing sheet
 Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. Secondary L-shaped aluminum spacer
- 8. Vertical aluminum tubular profile
- 9. Self-drilling screw
- 10. C-BOLT main fixing clip
 11. C-BOLT secondary fixing clip
- 12. C-BOLT screw
- 13. XTONE









Sill **Horizontal cross-section Horizontal cross-section Jamb**

VF KRION

Ventilated facade system with a final covering consisting of KRION® Solid Surface panels. It is characterized by a dual chemical and mechanical fixing system between the solid surface panel and the aluminum structure.

This cladding of type of facade consists of KRION® panels attached with BUTECH profiles.

This high-performance solid surface, composed by two-thirds of ATH, alumina trihydrate, and a low percentage of acrylic resins, has an excellent performance against fire and UV radiation, which allows its application for uses such as facades.

KRION®'s technical characteristics, such as its compact, uniform, and bright nature, the possibility of transforming it by cutting, pasting, machining, injection, or thermo-curving, along with the possibility of surface polishing, allows for the creation of all kinds of shapes as well as panels up to 6080×3680 mm. It is a perfect material for all types of Contemporary Architectural projects.

KRION® panels are delivered machined for mechanical fixing to the facade structure. Depending on the project they can be can be engraved, back-lit, and combined with signs and lighting.

The metallic structure of the ventilated facade includes the following elements:

- Facade to enclosure mechanical anchors depending on the type of substrate.
- Aluminum L-shaped spacers, which determine the chamber between the enclosure and the ceramic covering.
- Aluminum uprights on which the KRION® panels are installed.
- Stainless steel self-drilling joint screws between vertical uprights and aluminum spacers.
- Stainless steel metal clips for fixing KRION® panel to the uprights.

The metal structure of the ventilated facade is made of AW 6005A aluminum, while the mechanical clips are manufactured in AISI 304 stainless steel.

Certifications



ETA-17/0387 **France**



CENTRE FOR WINDOWS
CLADDING
TECHNOLOGY

France AT-2.2/14-1624_V1

United Kingdom 2018/73 2018/74

Office building Diagonal 525, Barcelona, Spain KIRON K-FIX VF system Arquitect: Sanzpont Arquitectura · Photography: David Cardelús







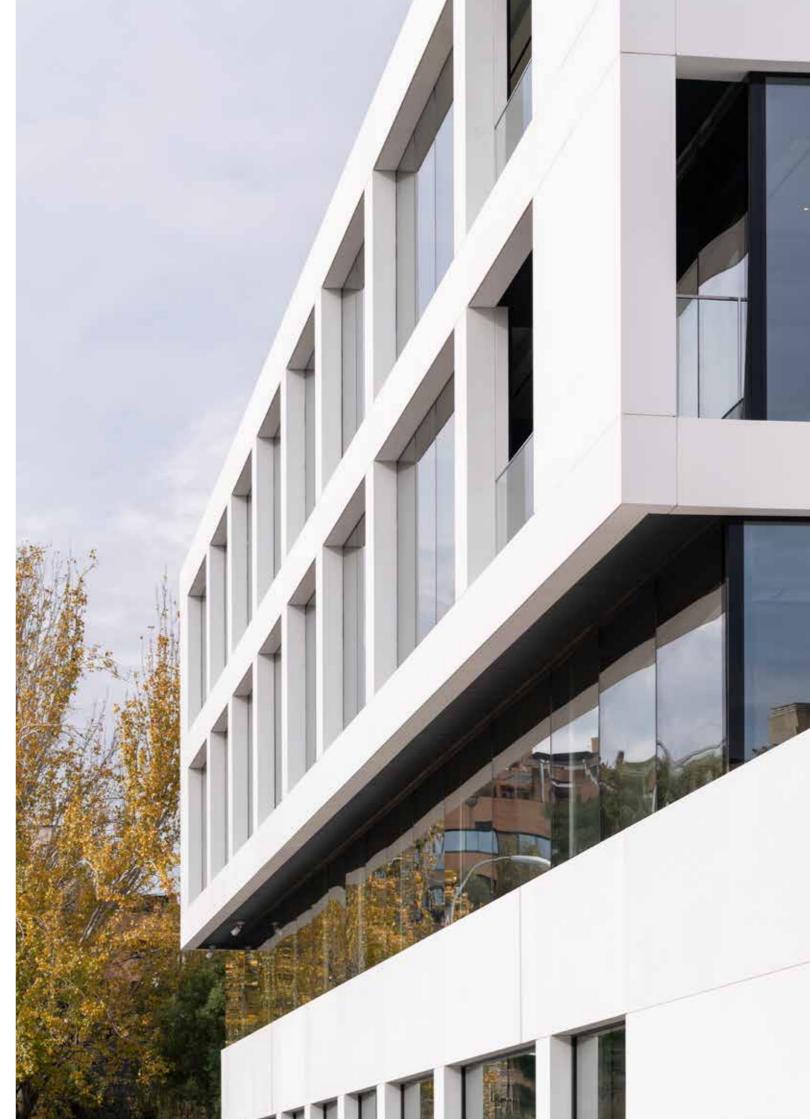


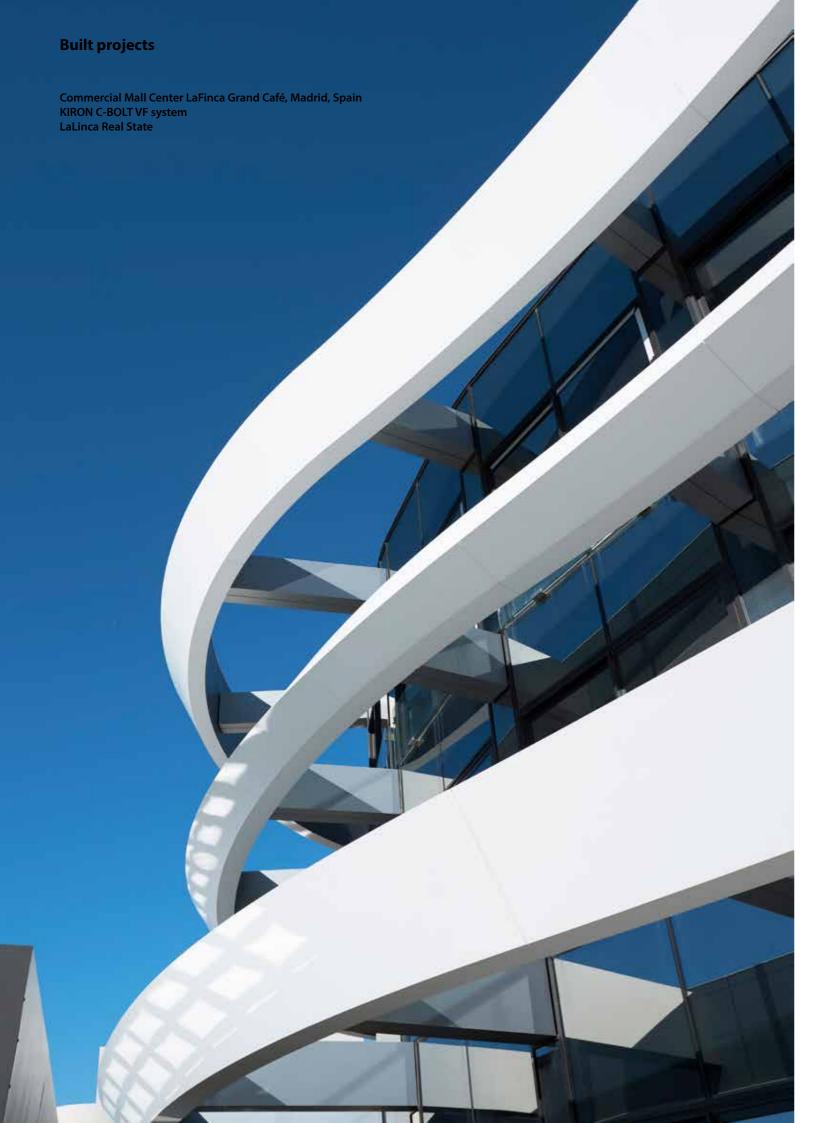








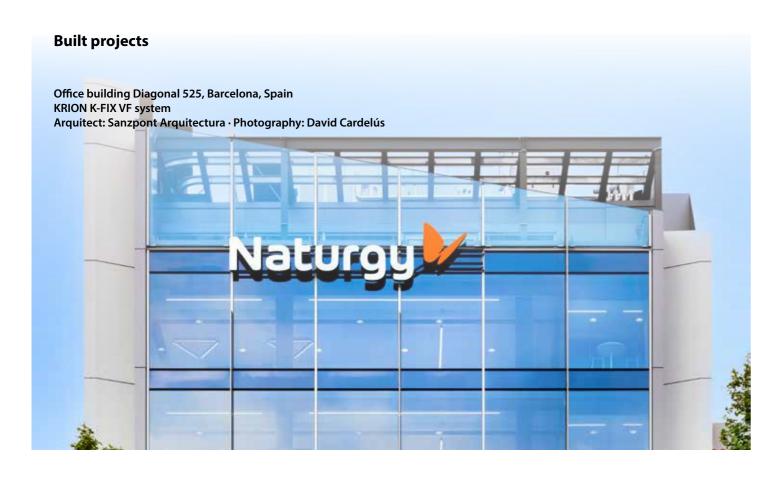




















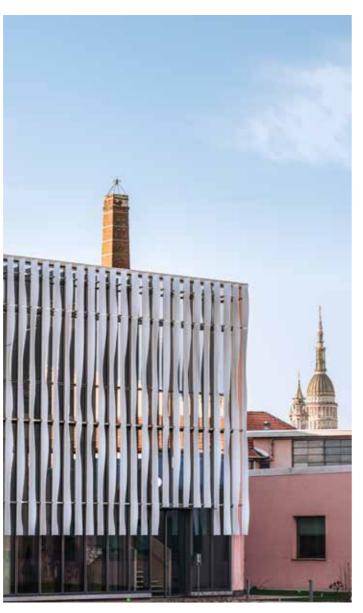












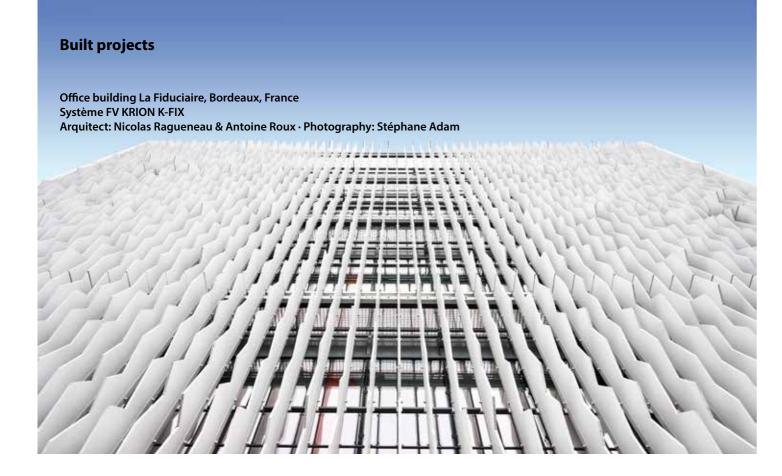




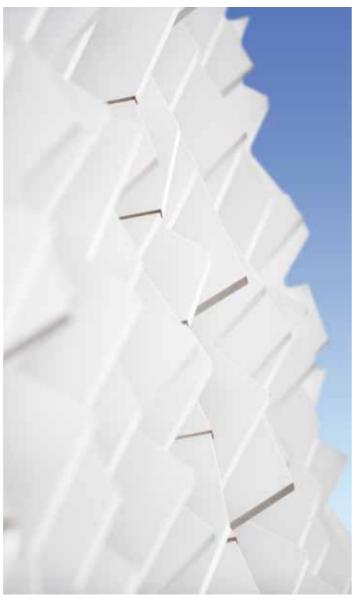


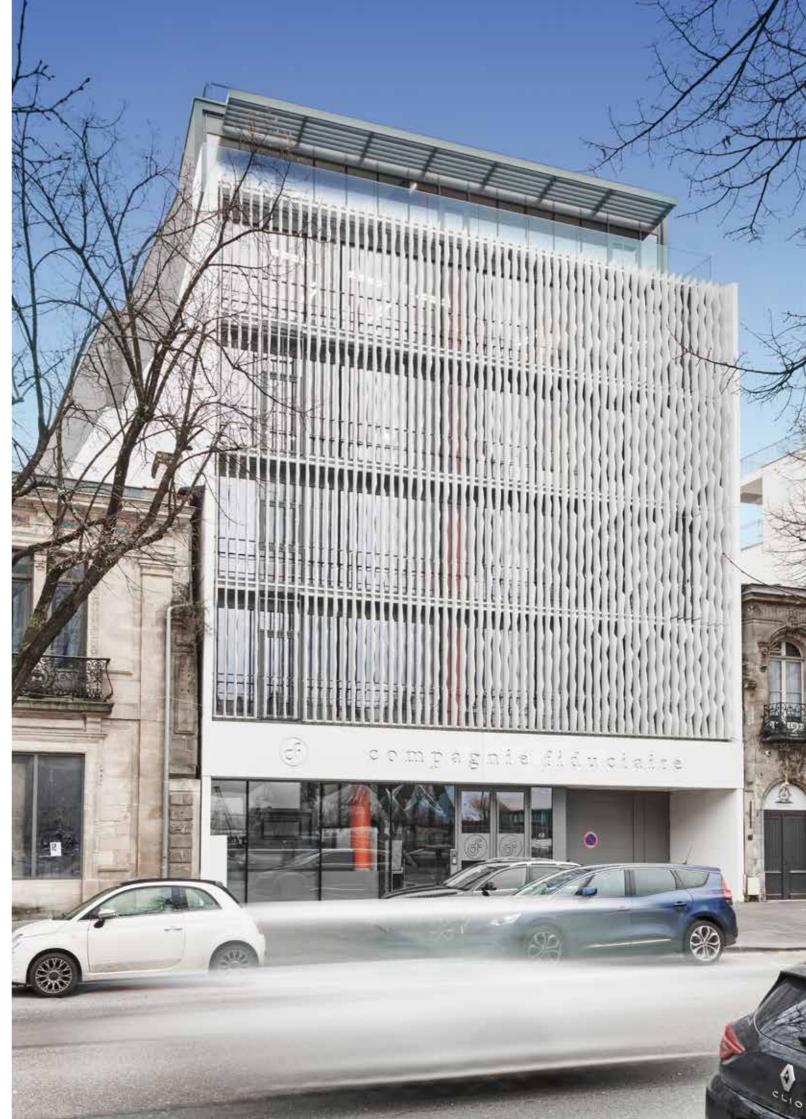










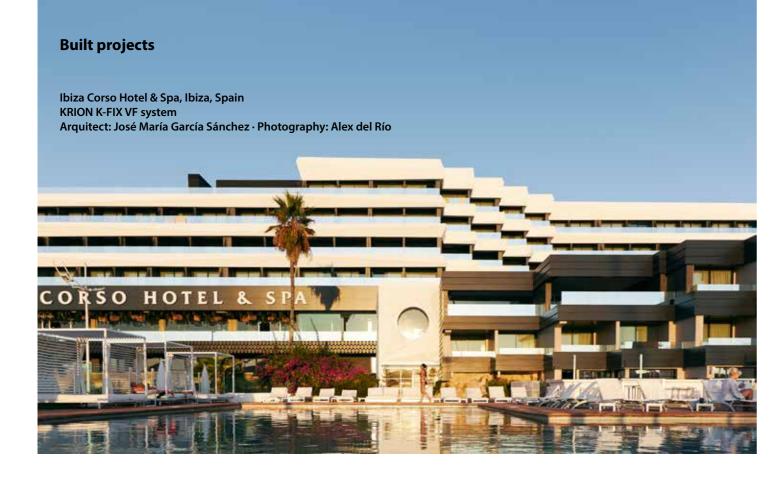


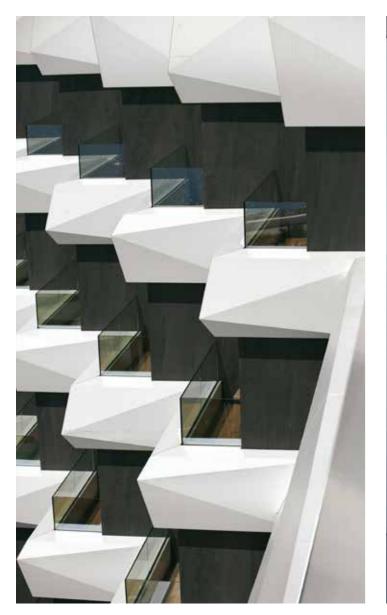
















Built projects Residential building Terrazas del Lago, Madrid, Spain KIRON K-FIX VF system Arquitect: Estudio de Arquitectura Morph · Photography: Luzestudio

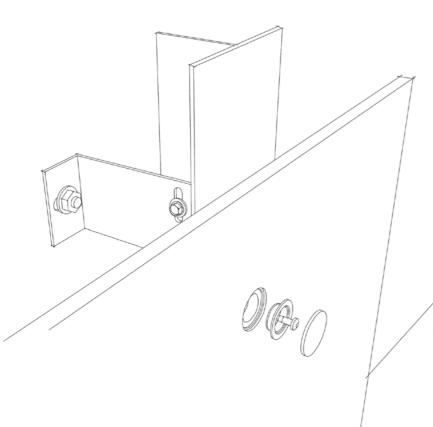






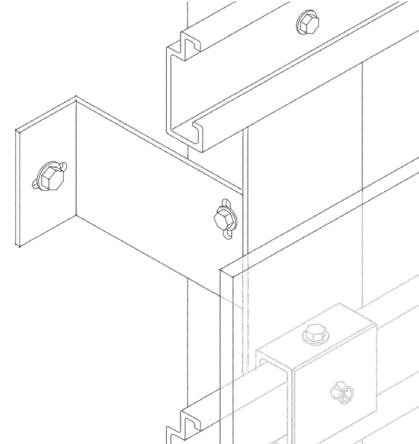
Facade types

Depending on the XLIGHT porcelain panel fixing system to the facade structure, we can define two types of facade:



Visible clips.

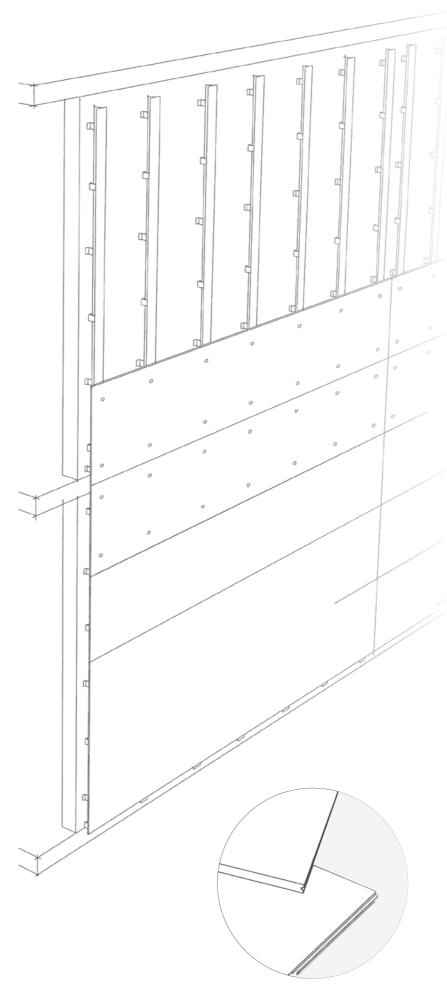
The XLIGHT porcelain panels fit into a stainless-steel clip so that they leave the clip's holding tabs exposed. Depending on the wall covering model, it is possible to lacquer the clips according to the RAL chosen by the client.



Concealed clips.

The XLIGHT porcelain panels are supplied attached to metal flats where the fixing clips are fixed to the uprights. The flats have a slot system where the facade clip tabs fit into.

Characteristics



Facade structure.

Main characteristics:

- Facade anchoring direct to the building structure.
- Applicable to most structure and enclosure types used in construction.
- · Structure consisting of only vertical profiles.
- Structure for very light facade: less than 5 kg/m²
- It allows for 3D facade designs and cantilevered pieces.
- Dual chemical and mechanical fixing system; complete safety.

Modulation of the facade.

Main characteristics:

- Large joint-free areas, depending on the location and the design of the project, up to 6000 x 3670 mm.
- Total freedom in the facade design, including curved shapes.
- Modulation at as many levels as needed. Potential for 3D or cantilevered facades.
- Possibility of engraving, cutting, or perforating panels according to design.
- Excellent material to combine with signage and lighting systems.
- Different types of open joint between panels, reducing the visual impact of the joints.

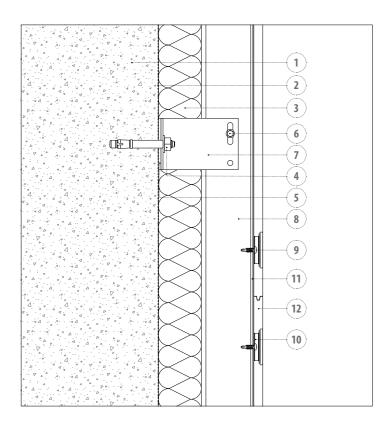
KRION® panels

Main characteristics:

- Acrylic stone, uniform throughout its thickness, compact, pore-free, and with high mechanical resistance.
- · Intense brightness and purity of color.
- Unlike other materials such as ceramics, this material is transformable and machinable following the design and project.
- Weather resistant; the appearance of the panels remains unchanged with the passing of time.
- Fire-resistant.
- Antibacterial.

These drawings are only sketches of tile modulation examples. For technical details of these façade systems, have a look the construction details at the next pages.

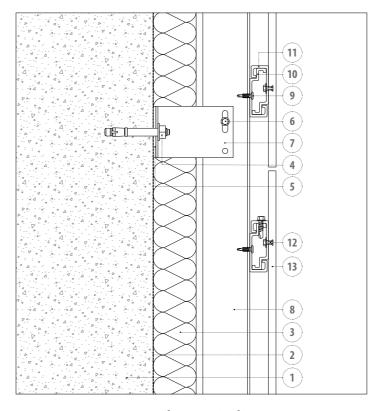
Construction details · K-BOLT Concealed clips



Vertical cross-section

Elements of the system:

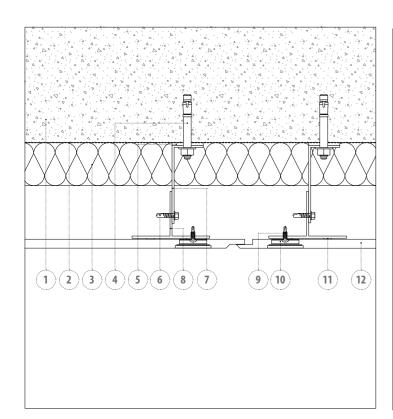
- 1. Concrete support
- 2. Waterproofing sheet3. Thermal insulation
- 4. Anchor for concrete
- 5. Thermal break
- 6. Stainless steel self-drilling screw
- 7. Secondary L-shaped aluminum spacer
- 8. Aluminum T-shaped upright
- 9. Self-drilling screw
- 10. Aluminium fixing clip
- 11. Polyurethane putty
- 12. KRIÓN®

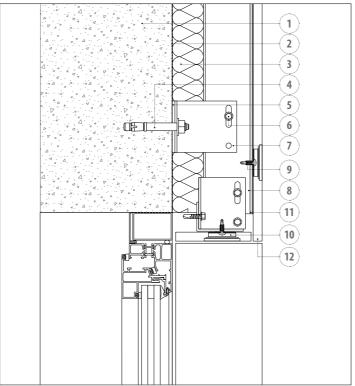


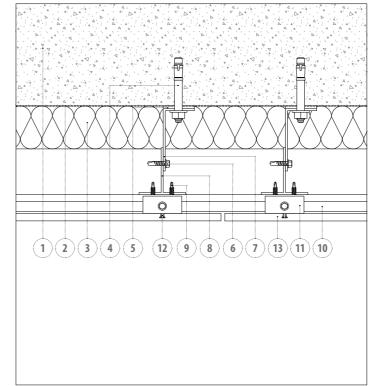
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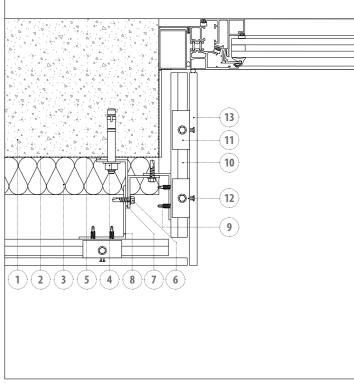
Elements of the system:

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- 4. Anchor for concrete
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- 8. Vertical aluminum tubular profile
- 9. Self-drilling screw
- 10. C-BOLT main fixing clip
 11. C-BOLT secondary fixing clip
- 12. C-BOLT screw
- 13. KRION®









Lintel **Horizontal cross-section Horizontal cross-section Jamb**

MODFACADES

Innovative lightweight facade construction system, which due to 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.

The system is made up of two outer FERMACELL PANEL panels and an inner core consisting of three 4 cm thick insulation layers, thus achieving the highest energy efficiency performance for your building. This facade system lets us build the enclosure and the facade wall covering at the same time, which reduces construction times.

The facade panels are supplied from the factory with built-in XLIGHT or XTONE wall covering, as well as the openings for windows and other facade elements. The modular system panels are supplied ready-to-install, only needing to finish the inner enclosure depending on the needs of the project.

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

Advantages of the system

Quick installation.

The modular system reduces enclosure construction times so that we can obtain a performance of up to 3 m²/hour per worker.

· Auxiliary means are not needed.

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

Reduction in waste production.

As the enclosure panels are supplied ready-to-install there is no need for any machining on-site that would generate waste.

Energy efficiency.

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

100% Recyclable.

The system components are entirely recyclable, ideal for sustainable construction.

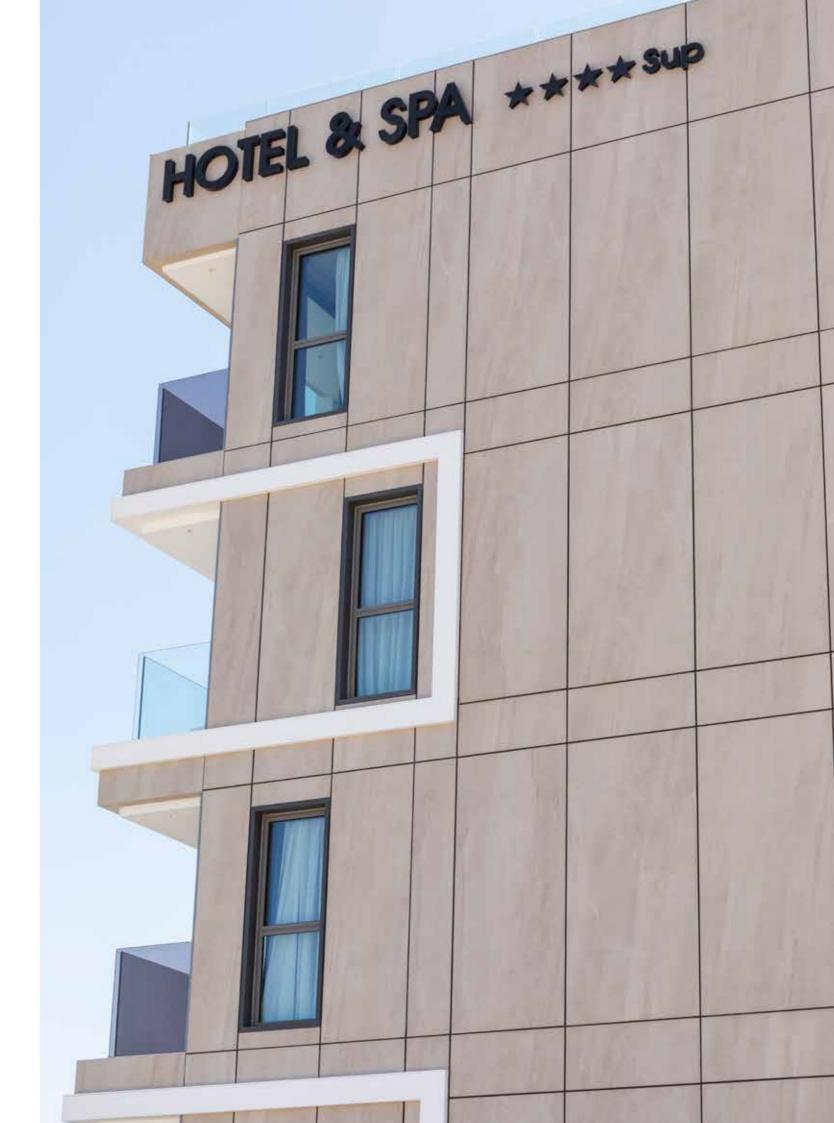
Certifications and technical testing

Spain

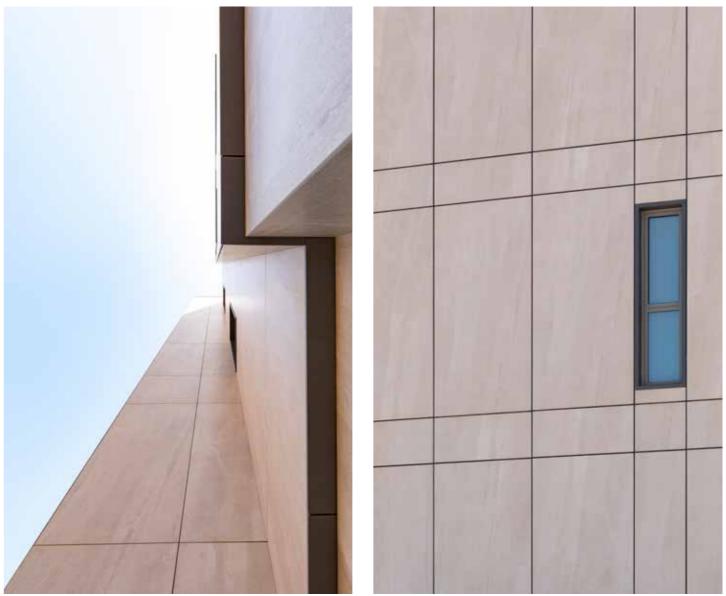
13/7215 Applus testing to determine air permeability, water tightness, and resistance to wind load, by Applus. 13/7213-3138 Part 2 Applus testing to determine **Fire resistance.**

13/7215-3156 Applus testing to determine the level of **acoustic insulation for airborne noise.**

Hotel & Spa Castillo Peñíscola, Peñíscola, Spain MODFACADES system Arquitect: GRY Asociados

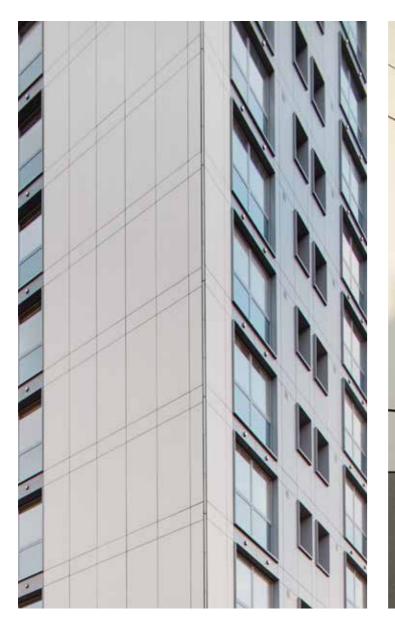
























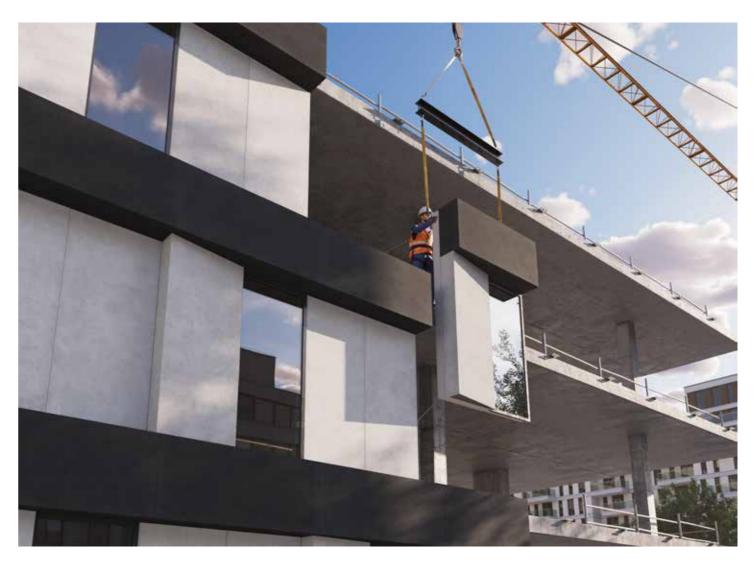




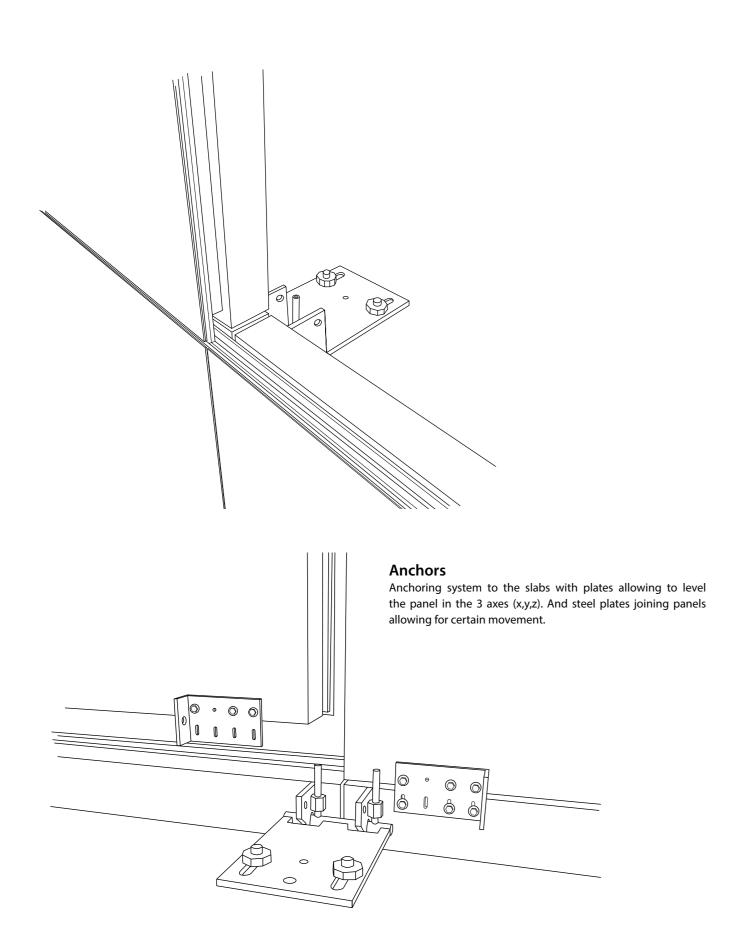


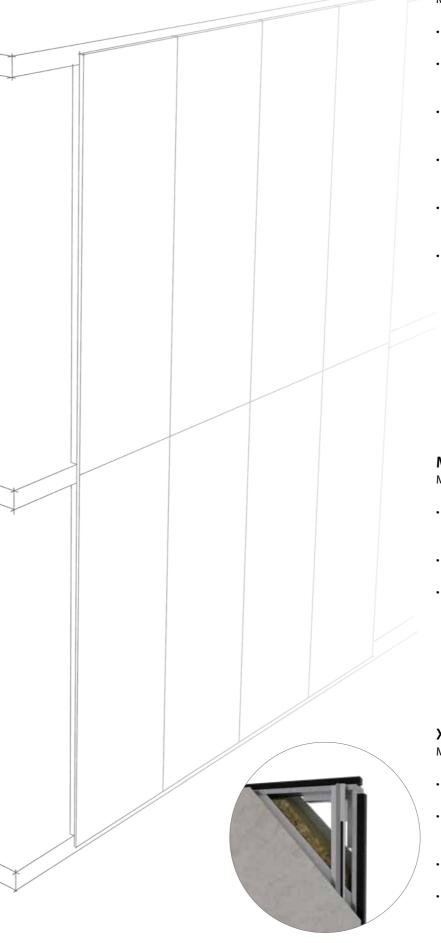






Characteristics Characteristics





Façade structure.

Main characteristics:

- Façade anchored directly to the main structure of the building.
- Adapted to most of the structural systems used in building construction.
- Façade panels delivered from the factory completely finished, saving time and costs of work on site.
- Fast installation allowing to save time and costs during building process compared to traditional systems.
- Installation from the interior of the building without scaffolding reducing costs.
- Excellent thermic and acoustic performance.

Modulation of the facade.

Main characteristics:

- Allows to cover the full span between slabs with just one panel using big format ceramics.
- Reduces the presence of joints in the façade.
- · Joints 8mm width.

XLITGHT or XTONE panels

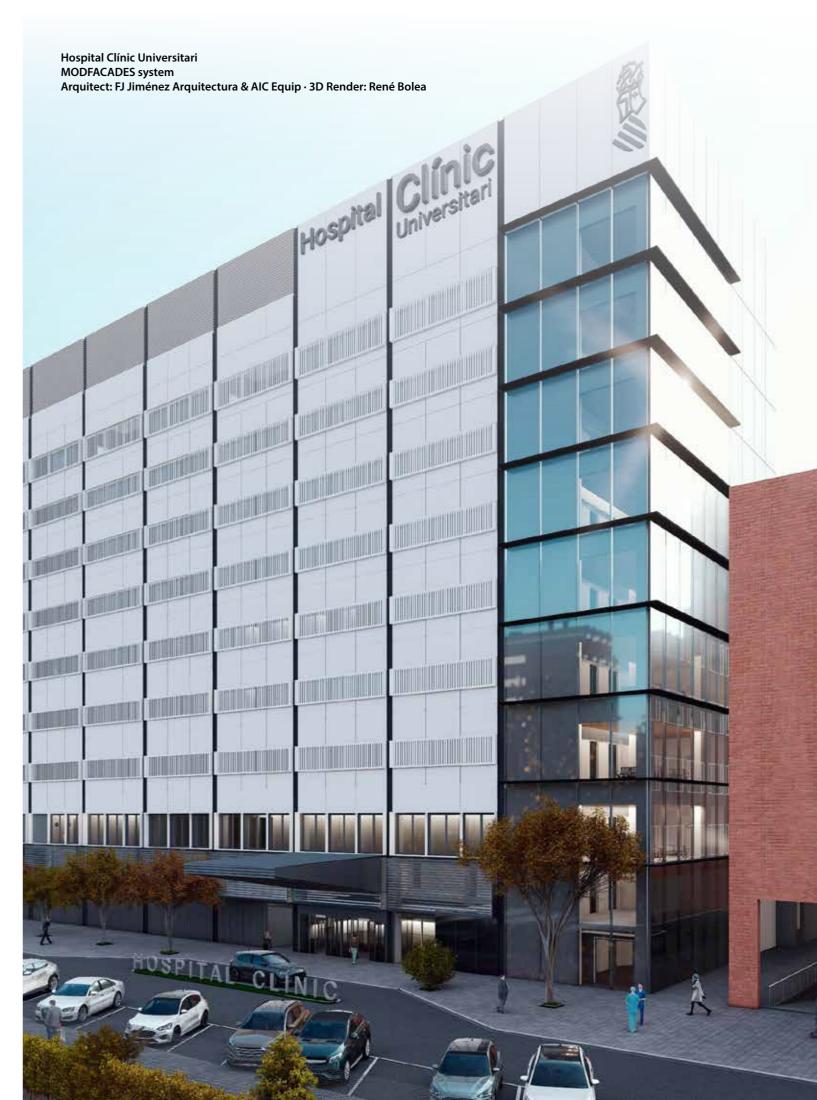
Main Features:

- Exclusive design by PORCELANOSA Grupo.
- Large format: up to 1600 mm x 3200 mm. For other dimensions, please consult Butech.
- Extremely light tiles: 7-15 kg/m2.
- Resistant to atmospheric agents, the appearance of the slabs remains unchanged over time. Resistant to paint stains or graffiti.

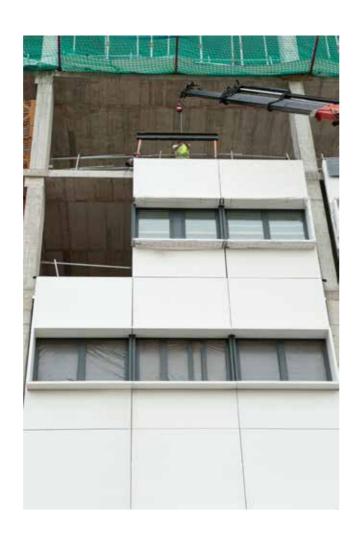
 $These \ drawings \ are \ only \ sketches \ of \ tile \ modulation \ examples. For \ technical \ details \ of \ these \ façade \ systems, have \ a \ look \ the \ construction \ details \ at \ the \ next \ pages.$











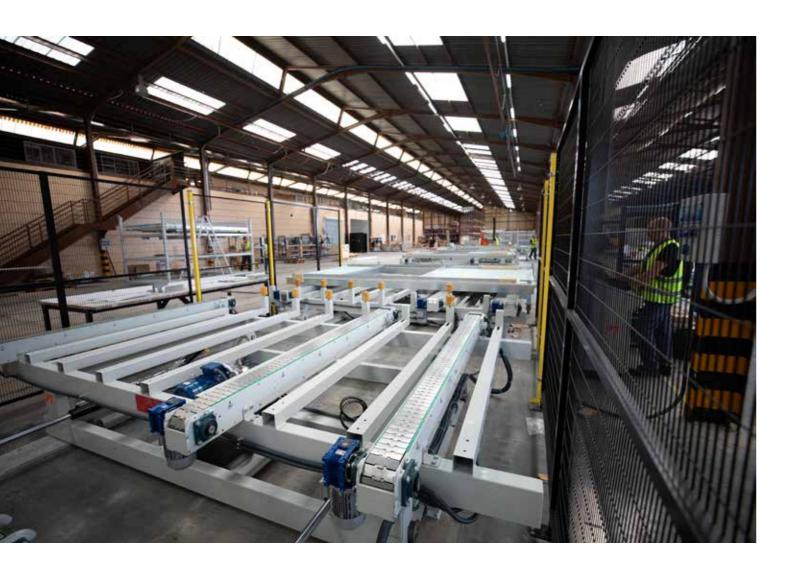


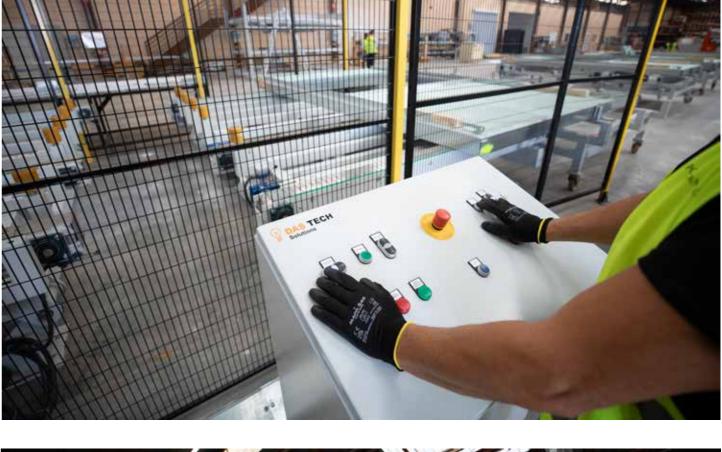




Production · FV MODFACADES

Production · FV MODFACADES





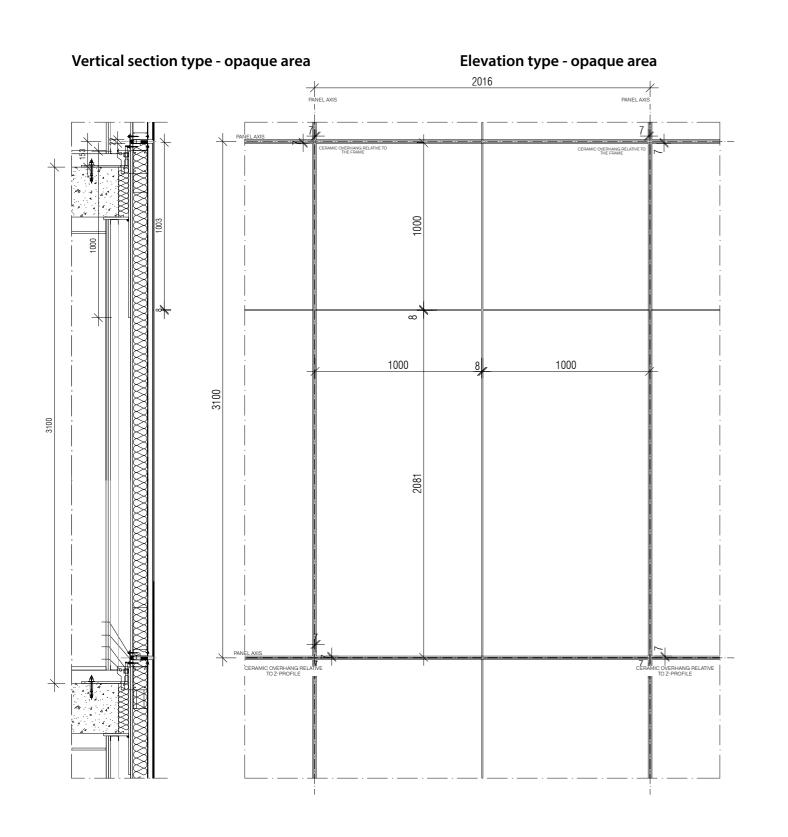
After the collection and prior control of the components, the assembly of the modules is carried out over several phases along the industrialized production line: at preparation tables, one side of the modules is assembled, and through a system of flipping machines, the modules move to the finishing tables completing the placement of the horizontal finishing elements (Ceramics and framing). Through production tables with motorized hinges, the panels are transferred to vertical flipping machines which pass the modules to an overhead rail where the joinery, glass, and the rest of the $% \left\{ 1,2,...,n\right\}$ framing and finishing elements necessary for the completion of the module are placed.

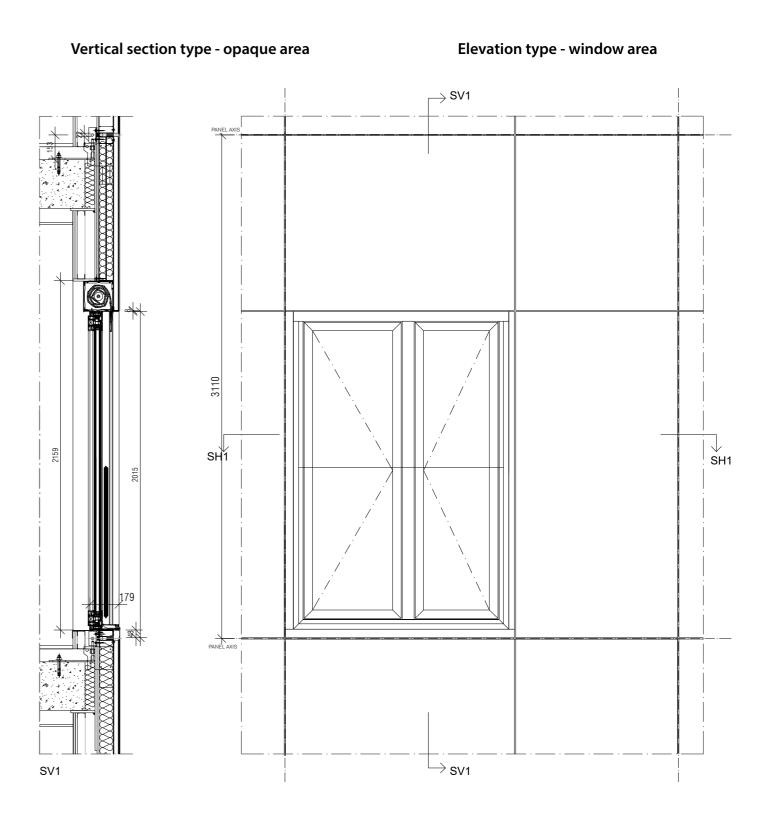
Subsequently, they are rearranged

horizontally on special storage and transport cages, where the protective and packaging elements are placed, to be sent to the construction site. The transport cage system allows for direct unloading and loading of the modules for their lifting and placement on site.

Throughout the entire process, an optimization and quality control of the components and processes is carried out to minimize manufacturing and finishing errors. This leads to production yields of 1000 m2 of facade per day.







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butech

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