

ventilated facade

technology, systems, formats, and finishes

butech[®]
PORCELANOSA Grupo

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.



butech[®]

Building Technology

Butech, born in 2001 within Grupo PORCELANOSA, has had the clear objective since its creation of maintaining the balance between the constant evolution of the design in Grupo PORCELANOSA's ceramics and installation techniques. Its role is focused on the development of tools and products that let us obtain the maximum aesthetic and functional performance in the installation of ceramics.



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, Shenzhen, China · KRION VF System · KRION® 1100 Snow White · Architect: Peddle Thorp



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.

Schemerhorn Building, Brooklyn, New York, USA.

VF Porcelain panel system with concealed clips · FV-KER Dover Arena 29.7 x 120 cm

Architect: Issac & Stern Architects



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.

Le Crysto, Rennes, France
FV KRION K-Fix System · KRION® 1100 Lux
Architect: Atelier Loyer Architectes







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, the Florida Product Approval FL9364, 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.

Guarantee, success, support

Related to the undisputed quality of PORCELANOSA products, with the confidence of working alongside Grupo PORCELANOSA. Guarantee of success.

PORCELANOSA Showroom, New York, USA.





FV-KER

Butech has selected PORCELANOSA Grupo's best outdoor ceramic models and presents them under the new concept: FV-KER; high-performance porcelain for facade designs.

Porcelain panel, in its various types, presents excellent characteristics for its use in facades: absorption lower than 0.1%, high mechanical strength, frost resistance, and resistance to chemicals. If to these physical and chemical characteristics, we add the decorative potential of PORCELANOSA Grupo ceramic coverings, we can understand why this type of facade is an increasingly common option in Contemporary Architecture.

Formats

596 x 1800 x 12 mm

450 x 900 x 11 mm

294 x 1800 x 12 mm
193 x 1800 x 12 mm

220 x 900 x 11 mm

143 x 900 x 11 mm

250 x 1500 x 11.5 mm

400 x 800 x 11 mm

165 x 1500 x 11.5 mm

800 x 800 x 11 mm

596 x 1200 x 11.5 mm

596 x 596 x 10.5 mm

294 x 1200 x 11.5 mm

440 x 660 x 10 mm
435 x 659 x 10.5 mm



Saint Gratien, Épinay-sur-Seine, France
VF Porcelain panel system with concealed clips · FV-KER Pure Brown 59.6 x 120 cm · Architect: Mr. Miguel Martin / Cabinet Apostrophe

FV-KER · Concrete



NEWPORT BEIGE

Page 22 · Formats (cm)

59,6x59,6 80x80 40x80
59,6x120



BOTTEGA WHITE

Page 25 · Formats (cm)

59,6x59,6 80x80 59,6x180



BOTTEGA CALIZA

Page 24 · Formats (cm)

59,6x59,6 80x80 59,6x180



NEWPORT NATURAL

Page 22 · Formats (cm)

59,6x59,6 80x80 40x80
59,6x120



NEWPORT GRAY

Page 23 · Formats (cm)

59,6x59,6 80x80 40x80
59,6x120



BOTTEGA ACERO

Page 24 · Formats (cm)

59,6x59,6 80x80 59,6x180



BOTTEGA TOPO

Page 25 · Formats (cm)

59,6x59,6 80x80 59,6x180



NEWPORT DARK GRAY

Page 23 · Formats (cm)

59,6x59,6 80x80 40x80
59,6x120

FV-KER · Stone



MADAGASCAR BLANCO

Page 26 · Formats (cm)

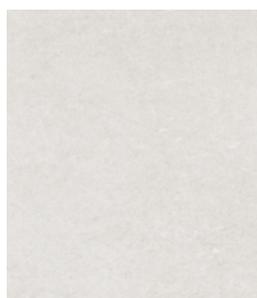
44x66 59,6x59,6 45x90
59,6x120



CARRARA BLANCO NATURAL

Page 35 · Formats (cm)

43,5x65,9 59,6x59,6 45x90
59,6x120



BOSTON BONE

Page 33 · Formats (cm)

43,5x65,9 59,6x59,6 80x80
45x90 59,6x120 59,6x180



CEILÁN MARFIL

Page 38 · Formats (cm)

43,5x65,9 59,6x59,6 45x90
59,6x120



URBAN CALIZA

Page 36 · Formats (cm)

59,6x59,6 40x80 80x80

FV-KER · Stone



MIRAGE WHITE

Page 29 · Formats (cm)

59,6x59,6 40x80 59,6x120



GLASGOW SILVER LAPADO

Page 34 · Formats (cm)

43,5x65,9 59,6x59,6 45x90
59,6x120



MADAGASCAR NATURAL

Page 27 · Formats (cm)

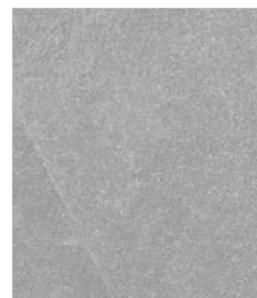
44x66 59,6x59,6 45x90
59,6x120



TEIDE STONE

Page 37 · Formats (cm)

45x90 80x80



BOSTON STONE

Page 32 · Formats (cm)

43,5x65,9 59,6x59,6 59,6x180



URBAN NATURAL

Page 37 · Formats (cm)

59,6x59,6 40x80 80x80



MADAGASCAR BEIGE

Page 26 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



COLISEUM

Page 34 · Formats (cm)

45x90 59,6x120 29,4x120
59,6x180



MIRAGE CREAM

Page 29 · Formats (cm)

59,6x59,6 40x80 59,6x120



URBAN ACERO

Page 36 · Formats (cm)

59,6x59,6 40x80 80x80



MIRAGE SILVER

Page 28 · Formats (cm)

59,6x59,6 40x80 59,6x120



BOSTON TOPO

Page 32 · Formats (cm)

43,5x65,9 59,6x59,6 59,6x180



MOSA-RIVER CALIZA

Page 30 · Formats (cm)

43,5x65,9 80x80 59,6x180



MOSA-RIVER TOPO

Page 31 · Formats (cm)

43,5x65,9 80x80 59,6x180



MOSA-RIVER ACERO

Page 30 · Formats (cm)

43,5x65,9 80x80 59,6x180



MOSA-RIVER GREY

Page 31 · Formats (cm)

43,5x65,9 80x80 59,6x180



MADAGASCAR NEGRO

Page 27 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



MIRAGE DARK

Page 28 · Formats (cm)

59,6x59,6 40x80 59,6x120



BOSTON GRAFITO

Page 33 · Formats (cm)

43,5x65,9 59,6x59,6 59,6x180



SAMOA ANTRACITA

Page 35 · Formats (cm)

43,5x65,9 59,6x59,6 45x90
59,6x120

FV-KER · Metal



FERROKER PLATINO

Page 39 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



FERROKER TITANIO

Page 39 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



FERROKER NÍQUEL

Page 40 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



FERROKER ALUMINIO

Page 40 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



FERROKER CALDERA

Page 41 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



IRONKER COBRE

Page 38 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120



FERROKER

Page 41 · Formats (cm)

44x66 59,6x59,6 45x90
59,6x120

FV-KER · Wood



NOBU ARCE

Page 42 · Formats (cm)

59,6x120 19,3x180 29,4x180
59,6x180



NOBU NATURAL

Page 42 · Formats (cm)

59,6x120 19,3x180 29,4x180
59,6x180



NOBU ROBLE

Page 43 · Formats (cm)

59,6x120 19,3x180 29,4x180
59,6x180



MINNESOTA ASH

Page 43 · Formats (cm)

14,3x90 22x90 16,5x150 25x150



MINNESOTA CREAM

Page 44 · Formats (cm)

14,3x90 22x90 16,5x150 25x150



MINNESOTA CAMEL

Page 44 · Formats (cm)

14,3x90 22x90 16,5x150 25x150



MINNESOTA HONEY

Page 45 · Formats (cm)

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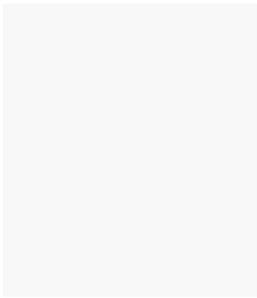


MINNESOTA MOKA

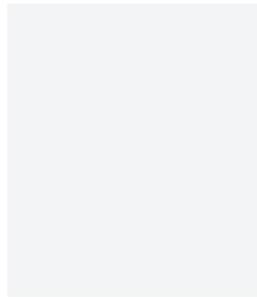
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FV-KER • Technics



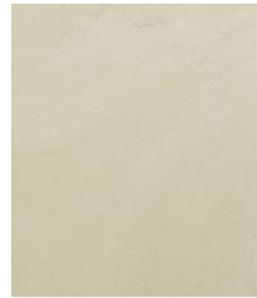
EXTREME WHITE
Page 52 · Formats (cm)
59,6x59,6 59,6x120



TECHNIC NIEVE
Page 51 · Formats (cm)
45x90 59,6x120



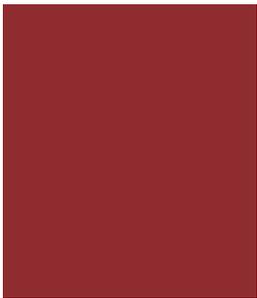
AVENUE WHITE NATURE
Page 48 · Formats (cm)
59,6x59,6 59,6x120



TECHNIC SAND
Page 49 · Formats (cm)
45x90 59,6x120



TECHNIC GREY
Page 50 · Formats (cm)
45x90 59,6x120



TECHNIC RED
Page 50 · Formats (cm)
45x90 59,6x120



AVENUE GREY NATURE
Page 48 · Formats (cm)
59,6x59,6 59,6x120



AVENUE BLACK NATURE
Page 49 · Formats (cm)
59,6x59,6 59,6x120

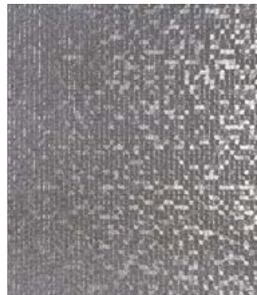


EXTREME BLACK
Page 51 · Formats (cm)
59,6x59,6 45x90 59,6x120

FV-KER • Design



AVENUE NATURAL
Page 46 · Formats (cm)
45x90 59,6x120



CUBICA
Page 46 · Formats (cm)
45x90 59,6x120



AVENUE GREY
Page 47 · Formats (cm)
45x90 59,6x120



AVENUE DARK MATT
Page 47 · Formats (cm)
45x90 59,6x120 59,6x180

FV-KER • Concrete



NEWPORT BEIGE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100226290	●
80 x 80	11.5	100226291	●
40 x 80	10.5	100216163	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



NEWPORT NATURAL

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100155175	●
80 x 80	12.0	100172693	●
40 x 80	10.5	100216201	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



NEWPORT GRAY

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100155940	●
80 x 80	11.5	100165481	●
40 x 80	10.5	100216194	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



NEWPORT DARK GRAY

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100155919	●
80 x 80	11.5	100165480	●
40 x 80	10.5	100216176	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation

FV-KER • Concrete



BOTTEGA ACERO

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	11.0	100214641	●
80 x 80	11.0	100214633	●
59.6 x 180	12.0	100245332	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



BOTTEGA CALIZA

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	11.0	100214648	●
80 x 80	11.0	100214608	●
59.6 x 180	12.0	100245307	●

● Format without minimum production ○ Special production, check availability



matte



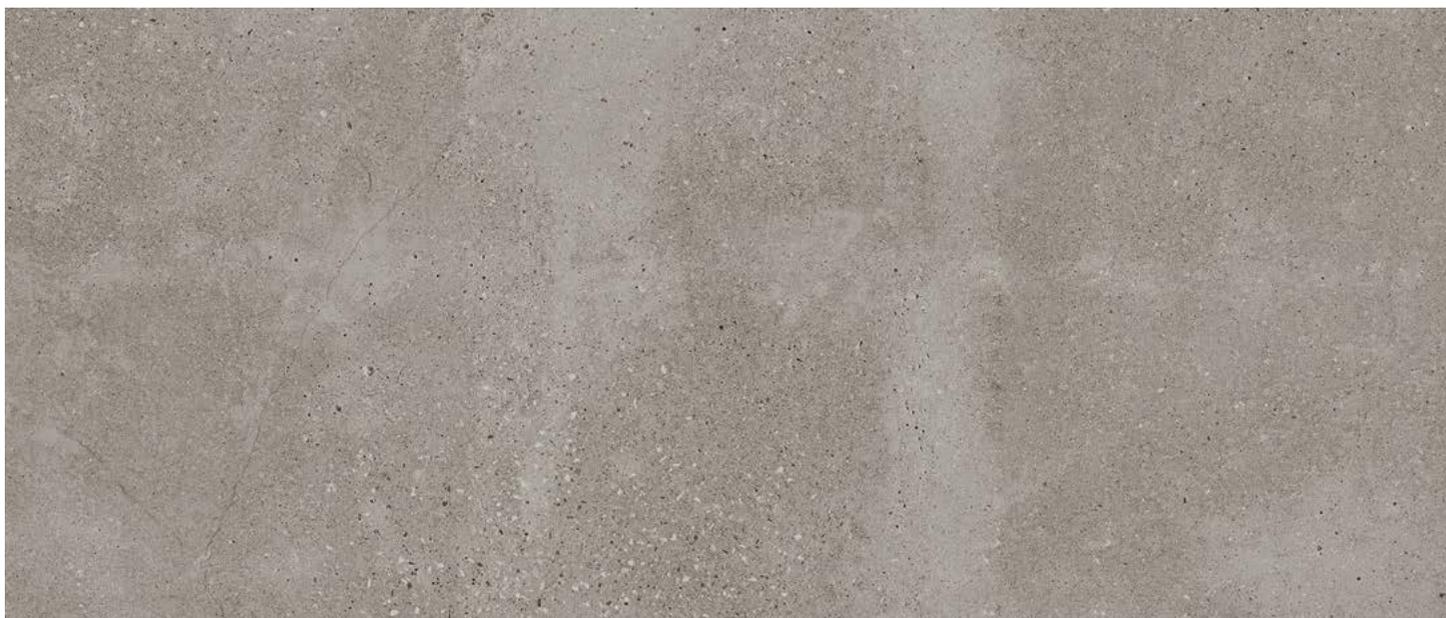
vf porcelain panel



shade variation



textured



BOTTEGA TOPO

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	11.0	100214662	●
80 x 80	11.0	100214622	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



BOTTEGA WHITE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	11.0	100239864	●
80 x 80	11.0	100239885	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured

FV-KER • Stone



MADAGASCAR BLANCO

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100162327	●
59.6 x 59.6	10.5	100215659	●
45 x 90	10.5		○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vif porcelain panel



shade variation



MADAGASCAR BEIGE

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100164882	●
59.6 x 59.6	10.5	100216132	●
45 x 90	10.5	100108579	○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vif porcelain panel



shade variation



MADAGASCAR NATURAL

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100162346	●
59.6 x 59.6	10.5	100216137	●
45 x 90	10.5	100105298	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vf porcelain panel



shade variation



MADAGASCAR NEGRO

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5		○
59.6 x 59.6	10.5		○
45 x 90	10.5		○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vf porcelain panel



shade variation

FV-KER • Stone



MIRAGE SILVER

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5		○
40 x 80	10.0	100202111	●
59.6 x 120	11.5	100202669	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



MIRAGE DARK

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5		○
40 x 80	10.0	100202102	●
59.6 x 120	11.5	100202673	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



MIRAGE WHITE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5		○
40 x 80	10.0	100202103	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



MIRAGE CREAM

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5		○
40 x 80	10.0	100202078	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation

FV-KER • Stone



MOSA-RIVER ACERO

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	11.0	100245347	●
80 x 80	11.0	100245626	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



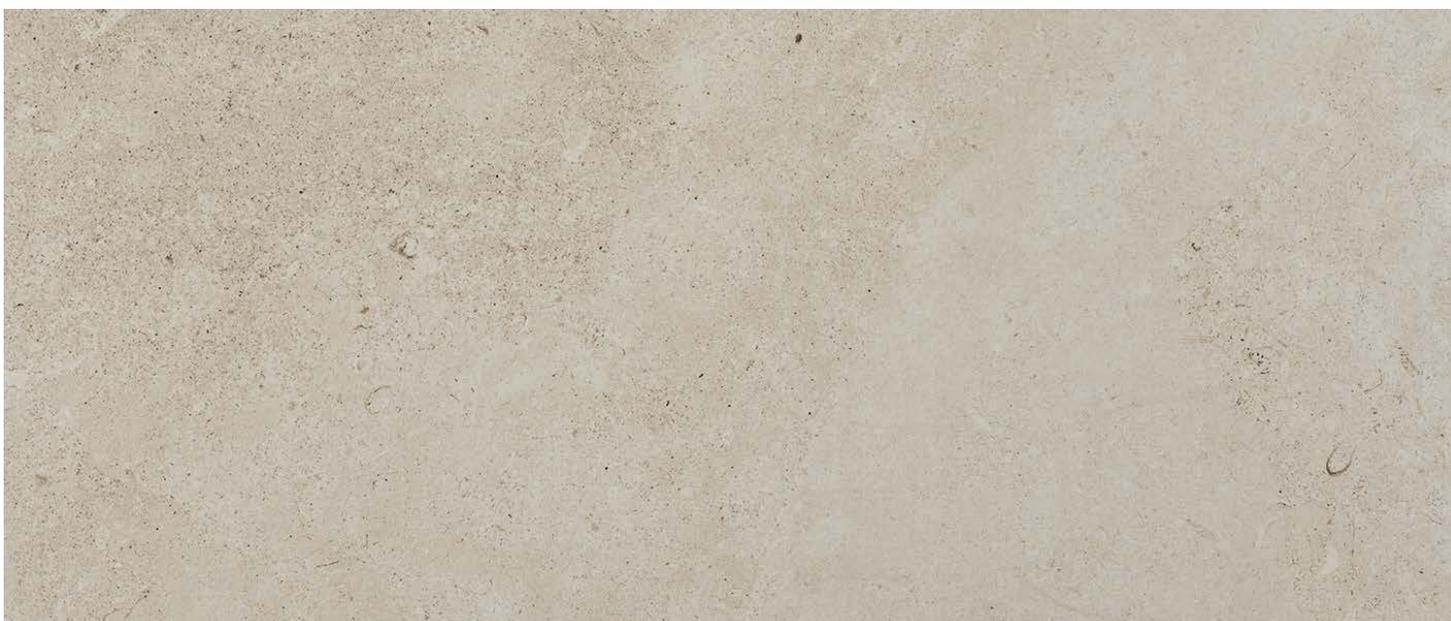
P vf porcelain panel



shade variation



textured



MOSA-RIVER CALIZA

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	11.0	100245379	●
80 x 80	11.0	100245606	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



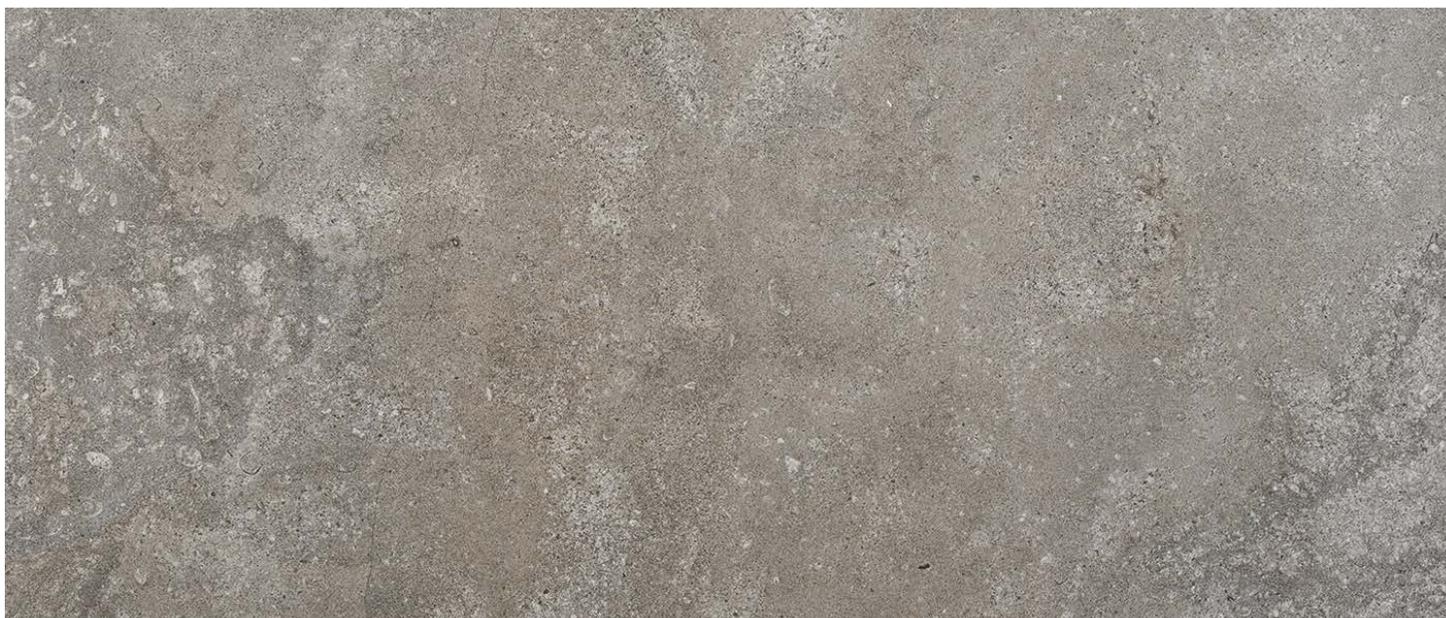
P vf porcelain panel



shade variation



textured



MOSA-RIVER GREY

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	11.0		○
80 x 80	11.0	100245634	●
59.6 x 180	12.0	100245383	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



MOSA-RIVER TOPO

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	11.0	100245401	●
80 x 80	11.0	100245608	●
59.6 x 180	12.0	100245384	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel

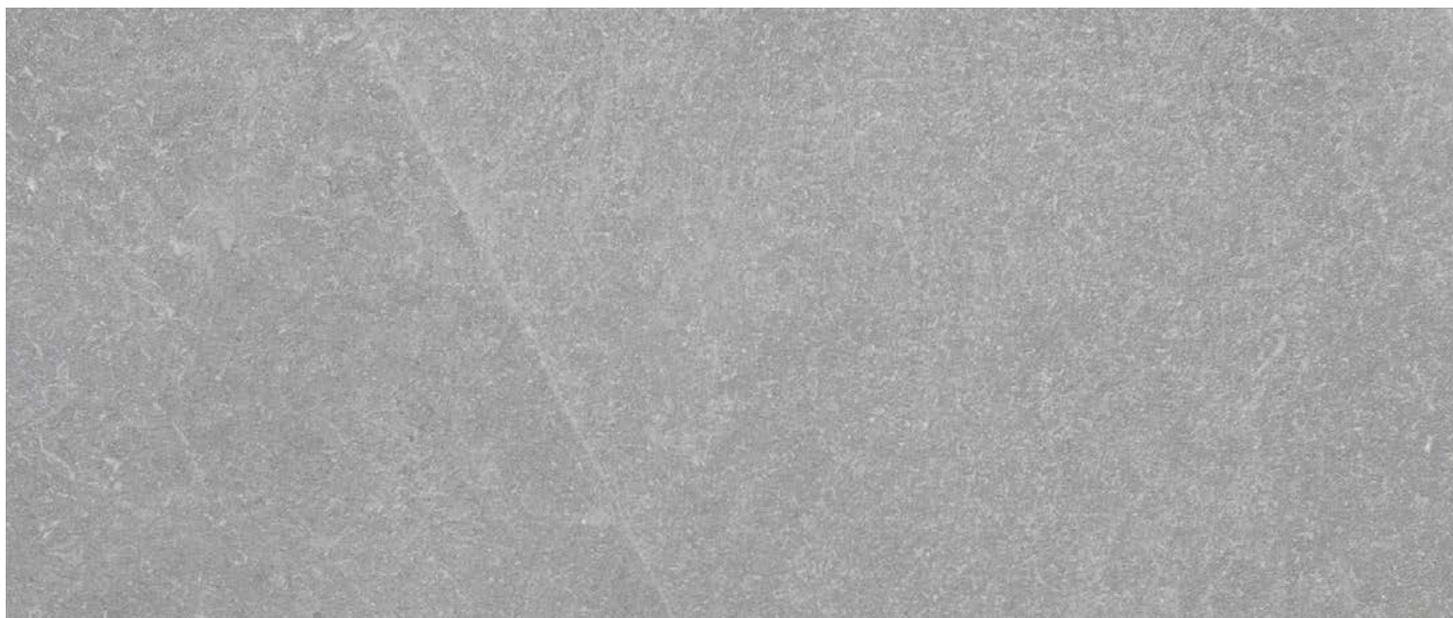


shade variation



textured

FV-KER • Stone



BOSTON STONE

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	10.5	100179183	●
59.6 x 59.6	10.5		○
59.6 x 180	11.5	100179318	●

● Format without minimum production ○ Special production, check availability



matte



P vf porcelain panel



shade variation



BOSTON TOPO

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	10.5	100179203	●
59.6 x 59.6	10.5	100179350	●
59.6 x 180	11.5	100179326	●

● Format without minimum production ○ Special production, check availability



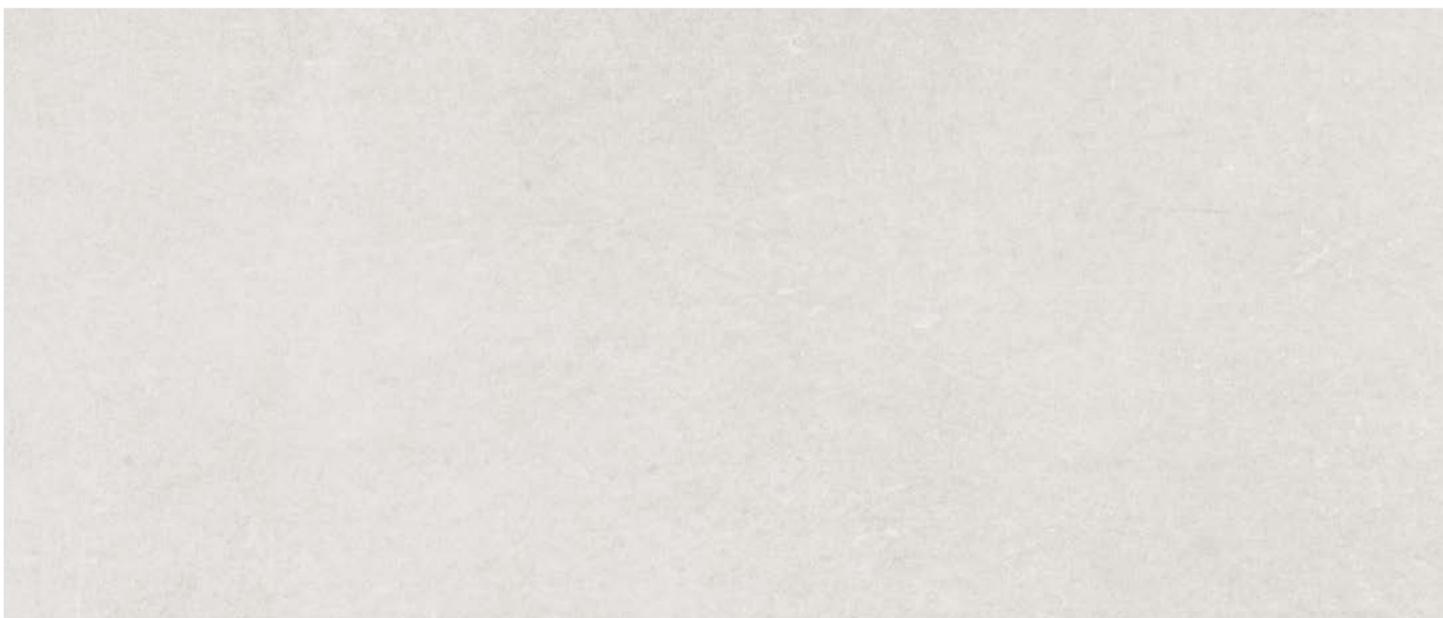
matte



P vf porcelain panel



shade variation



BOSTON BONE

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	10.5	100179098	●
59.6 x 59.6	10.5		○
59.6 x 180	11.5	100179347	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



BOSTON GRAFITO

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	10.5	100179191	●
59.6 x 59.6	10.5		○
59.6 x 180	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation

FV-KER • Stone



GLASGOW SILVER LAPADO

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	10.5	100104995	●
59.6 x 59.6	10.5		○
45 x 90	10,8		○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



lapatto



vf porcelain panel



shade variation



COLISEUM

Formats cm	Thickness mm	Codes	Availability
45 x 90	10.5		○
29.4 x 120	10.5	100160854	●
59.6 x 120	11.5	100161638	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



CARRARA BLANCO NATURAL

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	10.5		○
59.6 x 59.6	10.5	100137737	●
45 x 90	10.5		○
59.6 x 120	11.5	100153703	●

● Format without minimum production ○ Special production, check availability



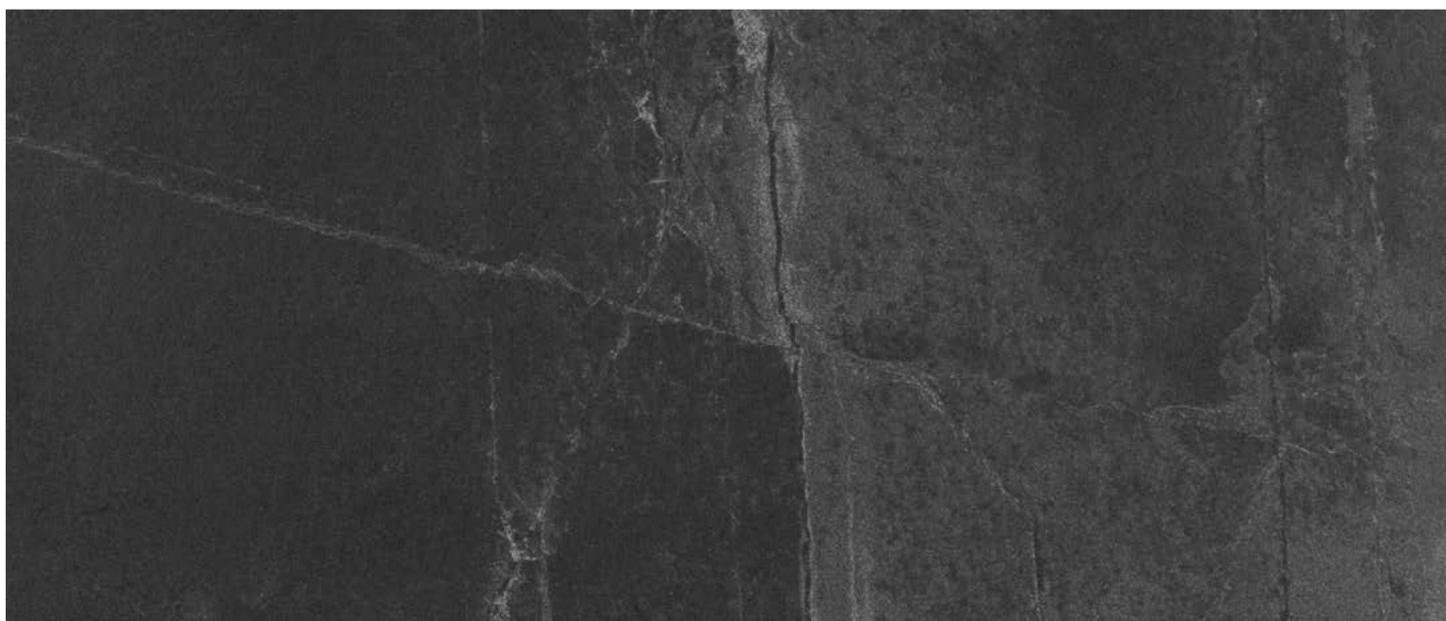
matte



vf porcelain panel



shade variation



SAMOA ANTRACITA

Formats cm	Thickness mm	Codes	Availability
43.5 x 65.9	11,3	100145463	●
59.6 x 59.6	10.5		○
45 x 90	10.5		○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation

FV-KER • Stone



URBAN ACERO

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	11.0	100244494	●
80 x 80	11.0	100244788	●
40 x 80	11.0		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vrf porcelain panel



shade variation



URBAN CALIZA

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	11.0	100244499	●
80 x 80	11.0	100244484	●
40 x 80	11.0		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vrf porcelain panel



shade variation



URBAN NATURAL

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	11.0	100240520	●
80 x 80	11.0	100244820	●
40 x 80	11.0		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vf porcelain panel



shade variation



TEIDE STONE

Formats cm	Thickness mm	Codes	Availability
80 x 80	11.0		○
45 x 90	12.0	100226586	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured

FV-KER • Stone



CEILÁN MARFIL

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100137603	●
80 x 80	11,2	100153704	●
45 x 90	10.5		○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



P vf porcelain panel



shade variation

FV-KER • Metal



IRONKER COBRE

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100166387	●
59.6 x 59.6	10.5		○
45 x 90	10.5		○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



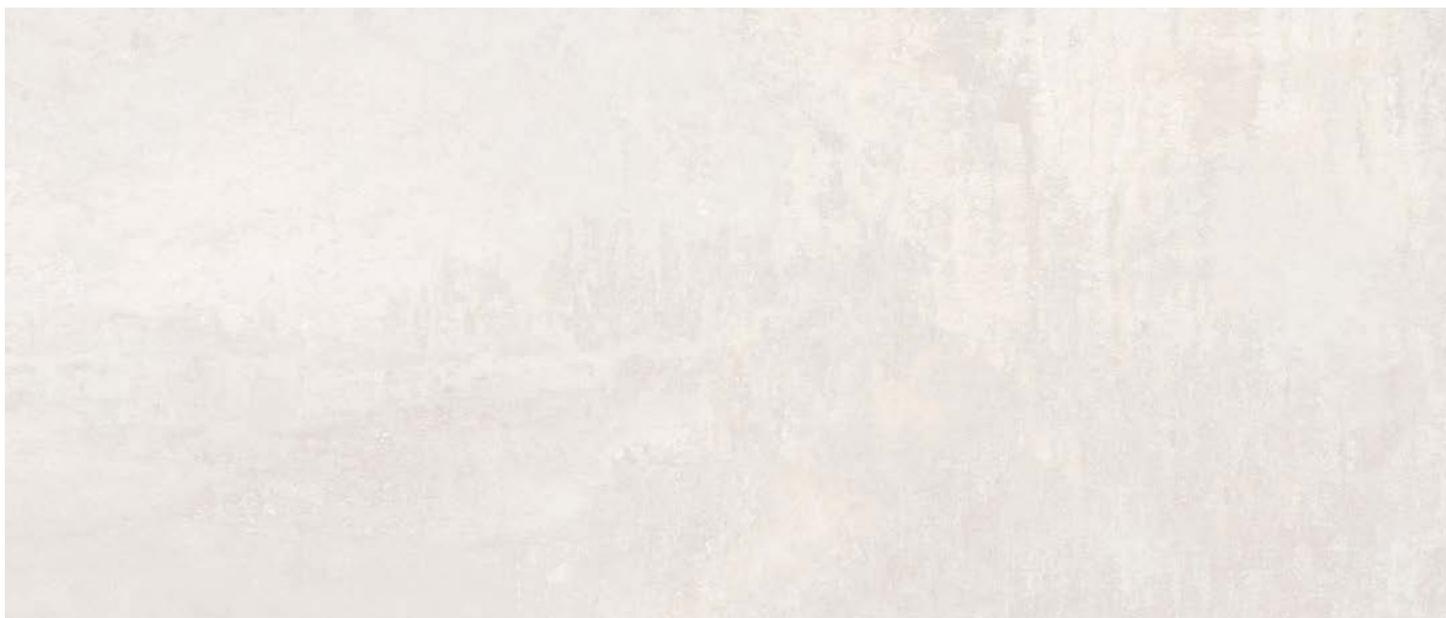
metallic



P vf porcelain panel



shade variation



FERROKER PLATINO

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100164909	●
59.6 x 59.6	10.5	100148909	●
45 x 90	10.5	100105297	●
59.6 x 120	11.5	100165100	●

● Format without minimum production ○ Special production, check availability



matt-gloss



vf porcelain panel



shade variation



FERROKER TITANIO

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100162129	●
59.6 x 59.6	10.5	100153213	●
45 x 90	10.5		○
59.6 x 120	11.5	100166400	●

● Format without minimum production ○ Special production, check availability



matt-gloss



vf porcelain panel



shade variation

FV-KER • Metal



FERROKER NIQUEL

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100162907	●
59.6 x 59.6	10.5	100149093	●
45 x 90	10.5	100106346	●
59.6 x 120	11.5	100165091	●

● Format without minimum production ○ Special production, check availability



matt-gloss



P vf porcelain panel



shade variation



FERROKER ALUMINIO

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100162882	●
59.6 x 59.6	10.5	100162427	●
45 x 90	10.5		○
59.6 x 120	11.5	100162427	●

● Format without minimum production ○ Special production, check availability



matt-gloss



P vf porcelain panel



shade variation



FERROKER

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100164908	●
59.6 x 59.6	10.5	100149092	●
45 x 90	10.5	100103298	●
59.6 x 120	11.5	100162426	●

● Format without minimum production ○ Special production, check availability



matt-gloss



vf porcelain panel



shade variation



FERROKER CALDERA

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5	100164913	●
59.6 x 59.6	10.5		○
45 x 90	10.5		○
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matt-gloss



vf porcelain panel



shade variation

FV-KER • Wood



NOBU ARCE

Formats cm	Thickness mm	Codes	Availability
59.6 x 120	11.5		○
19.3 x 180	12.0	100240770	●
29.4 x 180	12.0	100240011	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



NOBU NATURAL

Formats cm	Thickness mm	Codes	Availability
59.6 x 120	11.5		○
19.3 x 180	12.0	100243347	●
29.4 x 180	12.0	100240012	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured

FV-KER · Wood



NOBU ROBLE

Formats cm	Thickness mm	Codes	Availability
59.6 x 120	11.5		○
19.3 x 180	12.0	100240781	●
29.4 x 180	12.0	100240004	●
59.6 x 180	12.0		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



MINNESOTA ASH

Formats cm	Thickness mm	Codes	Availability
14.3 x 90	10.5	100216218	●
22 x 90	10.5	100216270	●
16.5 x 150	10.5	100216219	●
25 x 150	10.5	100202811	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured

FV-KER • Wood



MINNESOTA CAMEL

Formats cm	Thickness mm	Codes	Availability
14.3 x 90	10.5	100216275	●
22 x 90	10.5	100216239	●
16.5 x 150	10.5	100216254	●
25 x 150	10.5	100202812	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



MINNESOTA CREAM

Formats cm	Thickness mm	Codes	Availability
14.3 x 90	10.5	100216255	●
22 x 90	10.5	100216256	●
16.5 x 150	10.5	100216229	●
25 x 150	10.5	100202813	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



MINNESOTA HONEY

Formats cm	Thickness mm	Codes	Availability
14.3 x 90	10.5	100216280	●
22 x 90	10.5	100216245	●
16.5 x 150	10.5	100216290	●
25 x 150	10.5	100202871	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



MINNESOTA MOKA

Formats cm	Thickness mm	Codes	Availability
14.3 x 90	10.5	100216291	●
22 x 90	10.5	100216258	●
16.5 x 150	10.5	100216271	●
25 x 150	10.5	100202942	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel

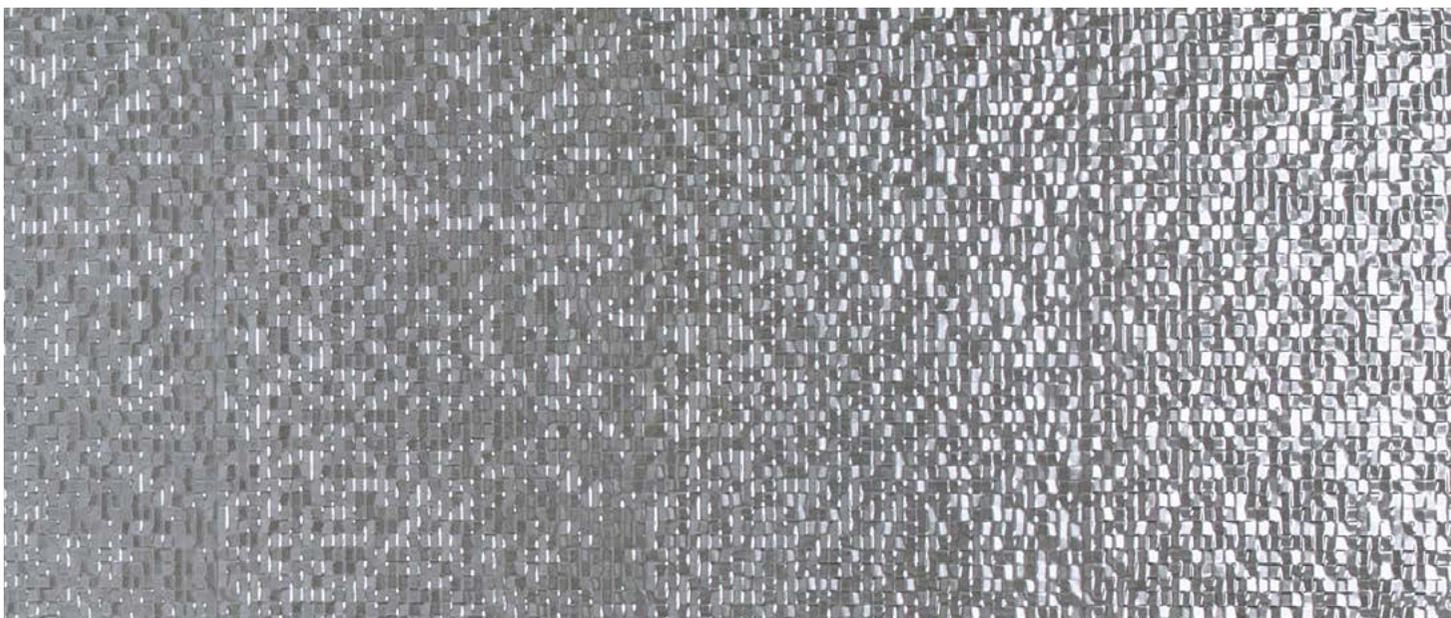


shade variation



textured

FV-KER • Design



CUBICA

Formats cm	Thickness mm	Codes	Availability
45 x 90	10.5		<input type="radio"/>
59.6 x 120	11.5	100032558	<input type="radio"/>

● Format without minimum production ○ Special production, check availability



metallic



P vf porcelain panel



shade variation



AVENUE NATURAL

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5		<input type="radio"/>
59.6 x 120	11.5	100159732	<input type="radio"/>

● Format without minimum production ○ Special production, check availability



matte



P vf porcelain panel



shade variation



textured



AVENUE GRAY

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5		<input type="radio"/>
59.6 x 120	11.5		<input type="radio"/>

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



textured



AVENUE DARK MATT

Formats cm	Thickness mm	Codes	Availability
44 x 66	10.5		<input type="radio"/>
59.6 x 120	11.5	100156054	<input type="radio"/>
59.6 x 180	12.0		<input type="radio"/>

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel

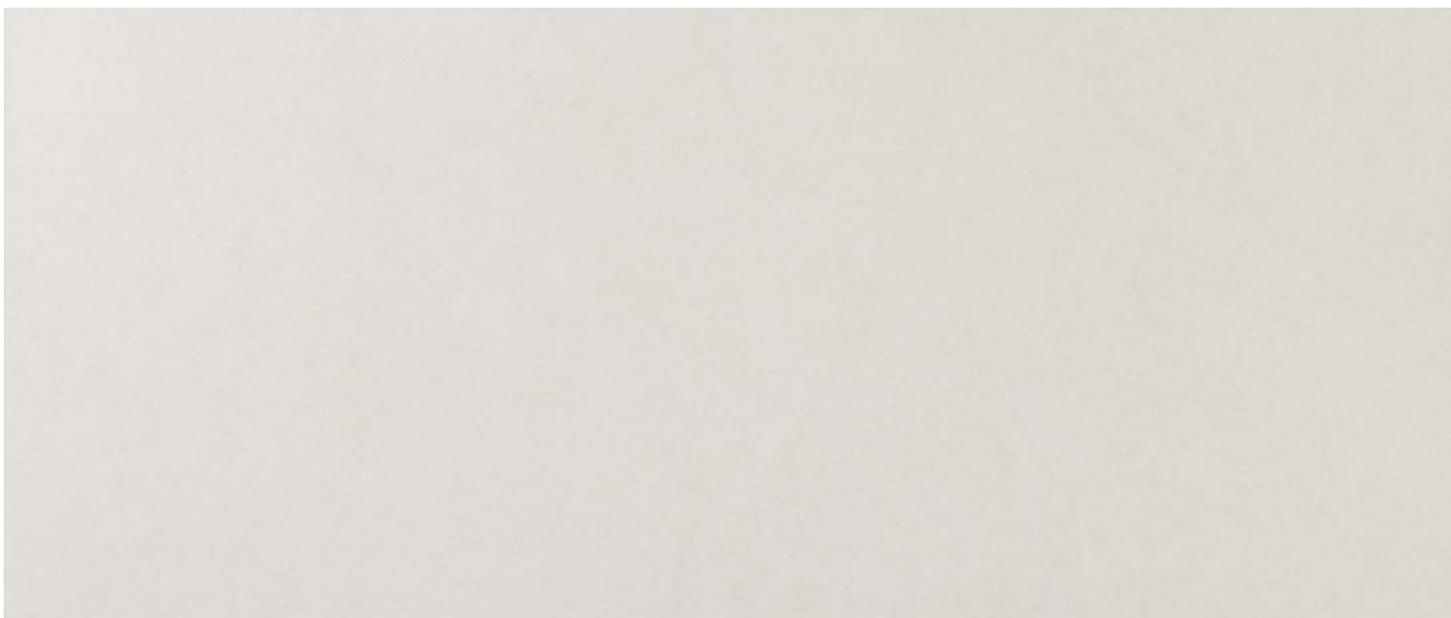


shade variation



textured

FV-KER • Technic



AVENUE WHITE NATURE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.4	100121408	●
59.6 x 120	11.5	100149428	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



AVENUE GREY NATURE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.4	100143080	●
59.6 x 120	11.5	100149427	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



AVENUE BLACK NATURE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.4	100138101	●
59.6 x 120	11.5	100149426	●

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation



TECHNIC SAND

Formats cm	Thickness mm	Codes	Availability
45 x 90	10.5	100103324	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability



matte



vf porcelain panel



shade variation

FV-KER • Technic



TECHNIC GREY

Formats cm	Thickness mm	Codes	Availability
45 x 90	10.5		<input type="radio"/>
59.6 x 120	11.5	100184809	<input type="radio"/>



- Format without minimum production
- Special production, check availability

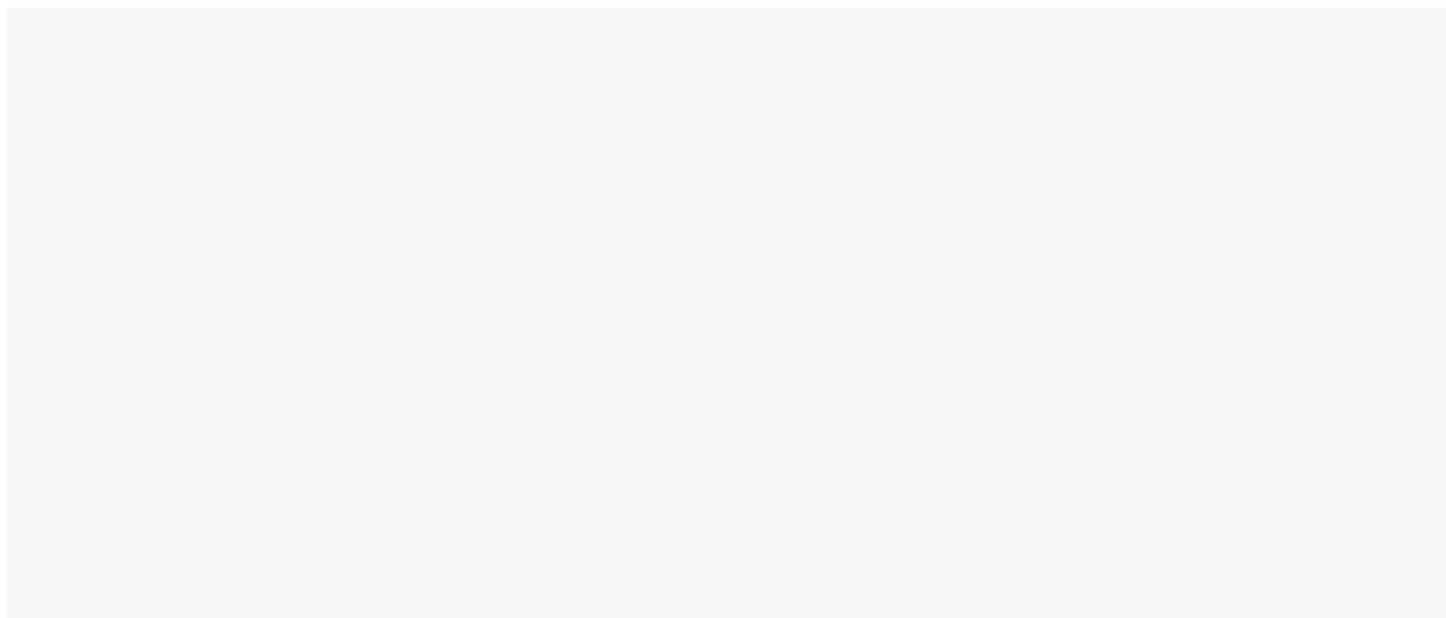


TECHNIC RED

Formats cm	Thickness mm	Codes	Availability
45 x 90	10.5		<input type="radio"/>
59.6 x 120	11.5		<input type="radio"/>



- Format without minimum production
- Special production, check availability



EXTREME WHITE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100137635	●
59.6 x 120	11.5	100158512	●

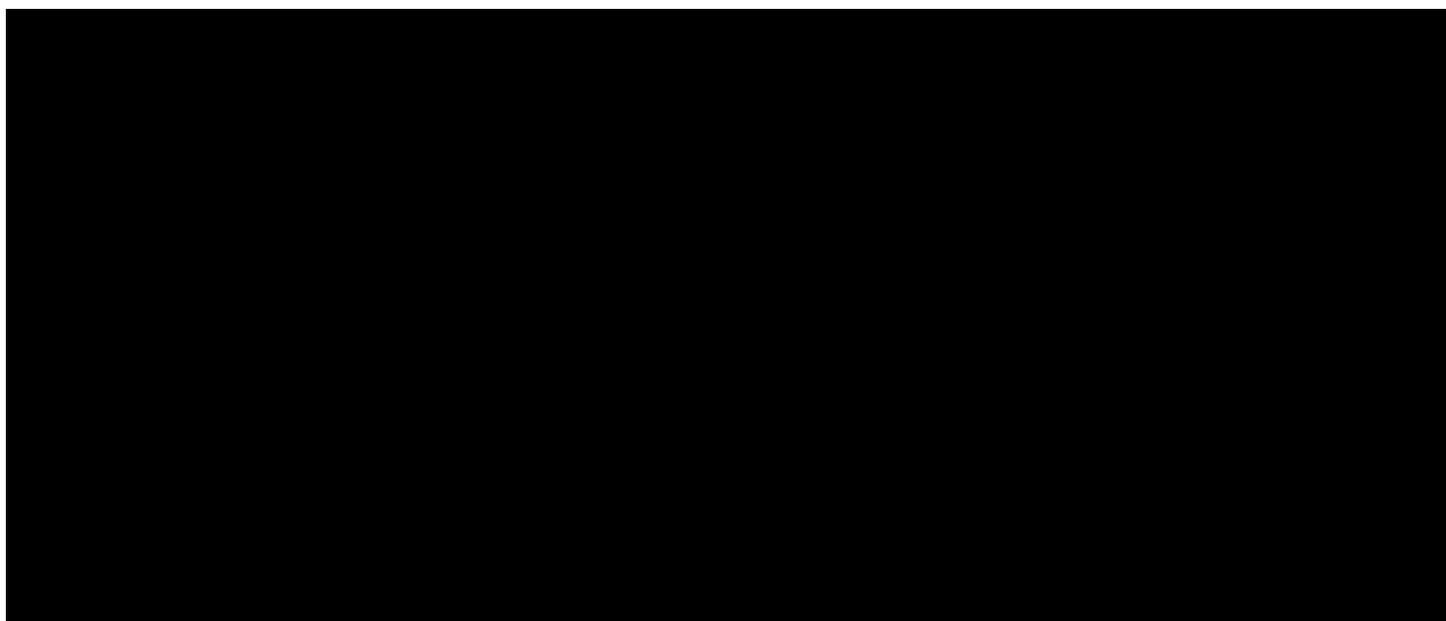


matte



vf porcelain panel

● Format without minimum production ○ Special production, check availability



EXTREME BLACK

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100153392	○
45 x 90	10.5		○
59.6 x 120	11.5		○



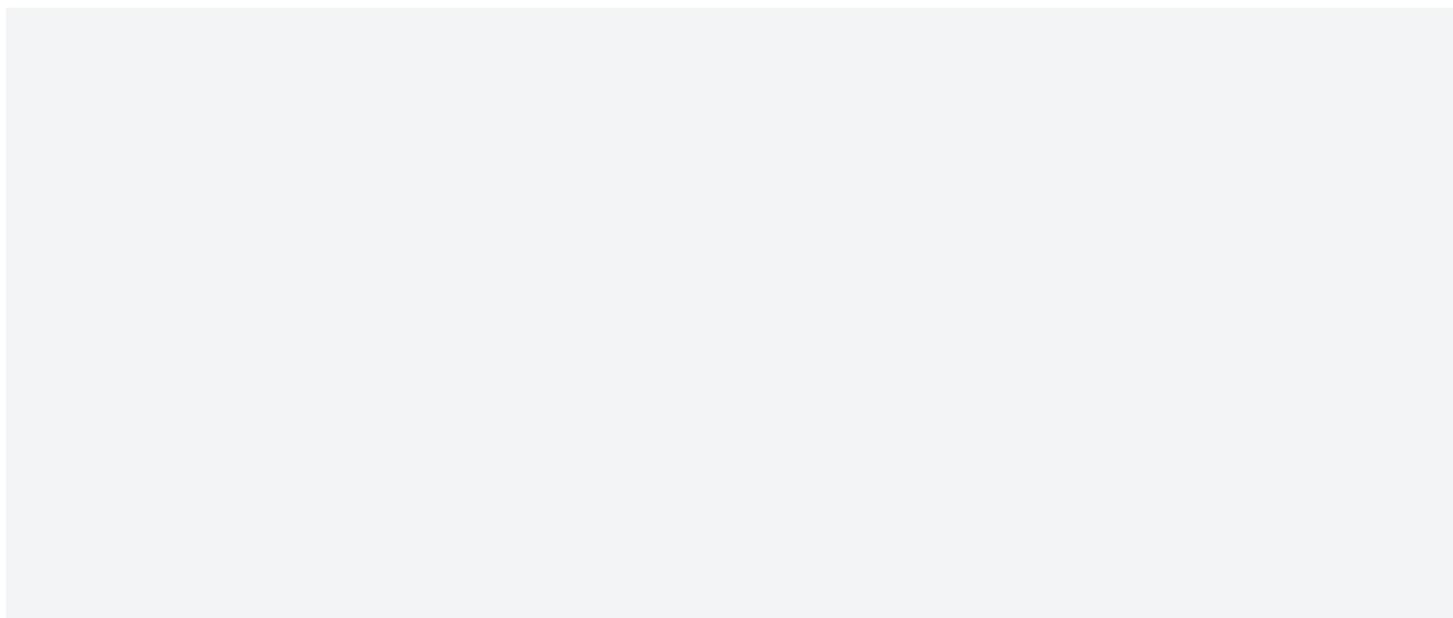
matte



vf porcelain panel

● Format without minimum production ○ Special production, check availability

FV-KER • Technic



TECHNIC NIEVE

Formats cm	Thickness mm	Codes	Availability
45 x 90	10.5		<input type="radio"/>
59.6 x 120	11.5	100153392	<input checked="" type="radio"/>



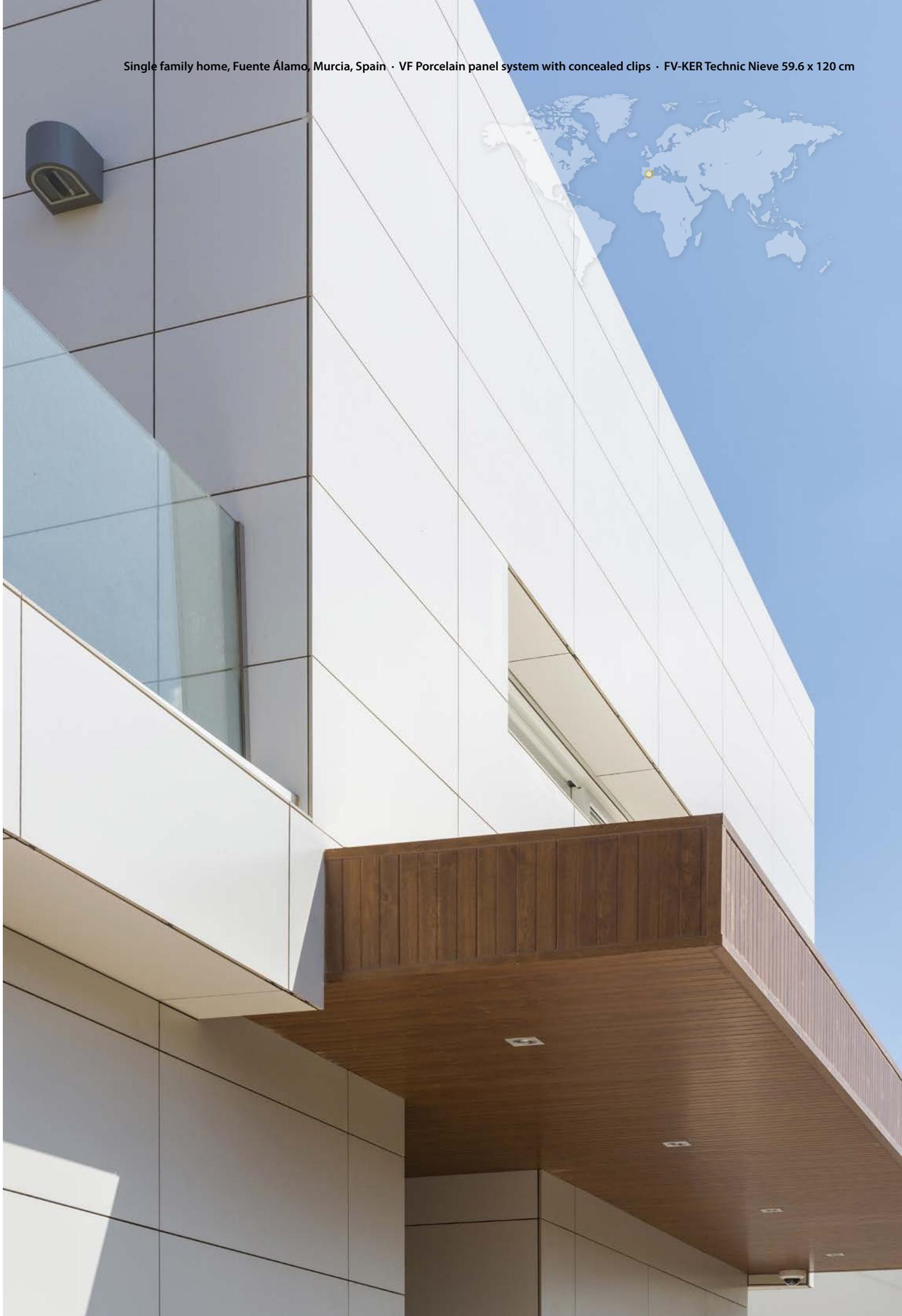
matte



vf porcelain panel

● Format without minimum production ○ Special production, check availability

Single family home, Fuente Álamo, Murcia, Spain · VF Porcelain panel system with concealed clips · FV-KER Technic Nieve 59.6 x 120 cm



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.



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



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



USA
FL # 9364 / 20391 / 21906
Florida building code approved



United Kingdom
BBA Agreement Certificate No 10/4775



United Kingdom
WINTECH Building Envelope Testing Report No R12764

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

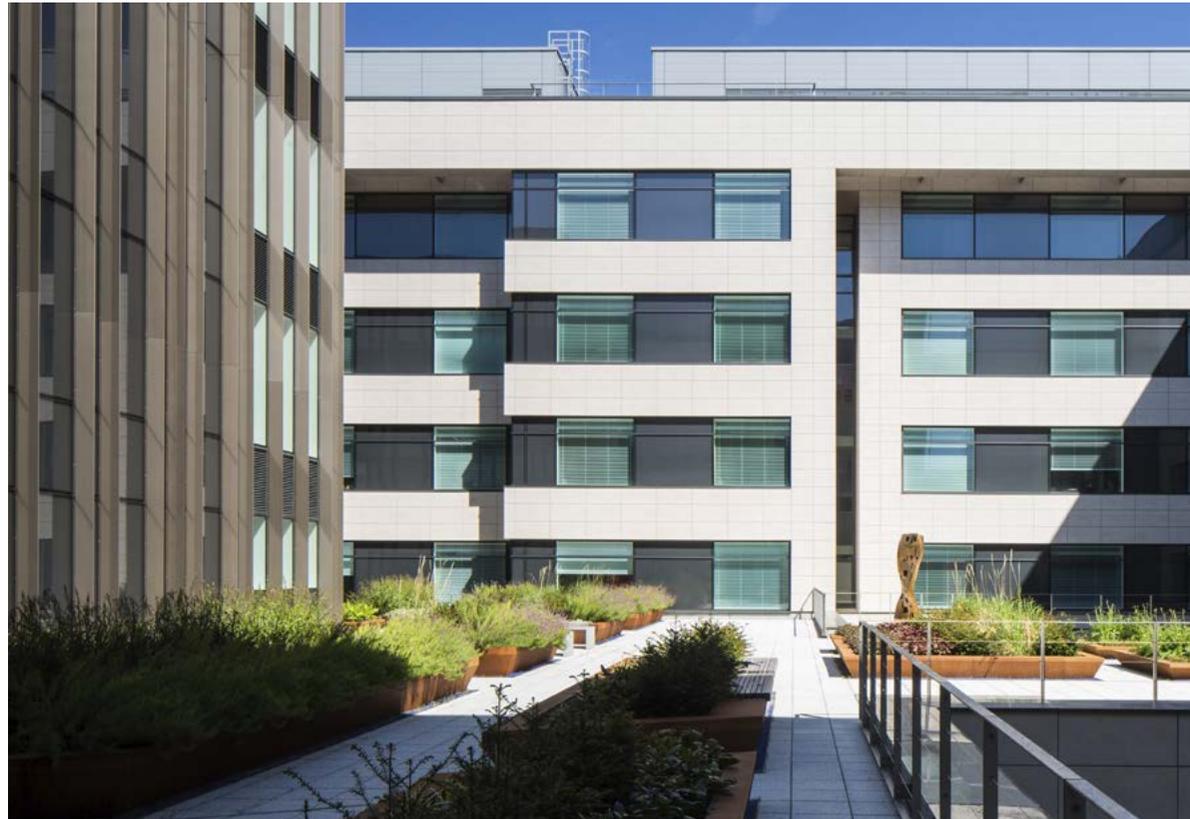
United Kingdom
WINTECH Building Envelope Testing Report No R12764



Residential building Vlinder Park, Genk, Belgium
VF Porcelain panel system with concealed clips · FV-KER Boston Bone 59.6 x 180 cm
Architect: SOM Projects

Built projects

Belfast Hospital, Belfast, Northern Ireland • VF Porcelain panel system with concealed clips • FV-KER Ceilán Marfil 59.6 x 120 cm
Architect: Avanti Architects / Kennedy Fitzgerald architects



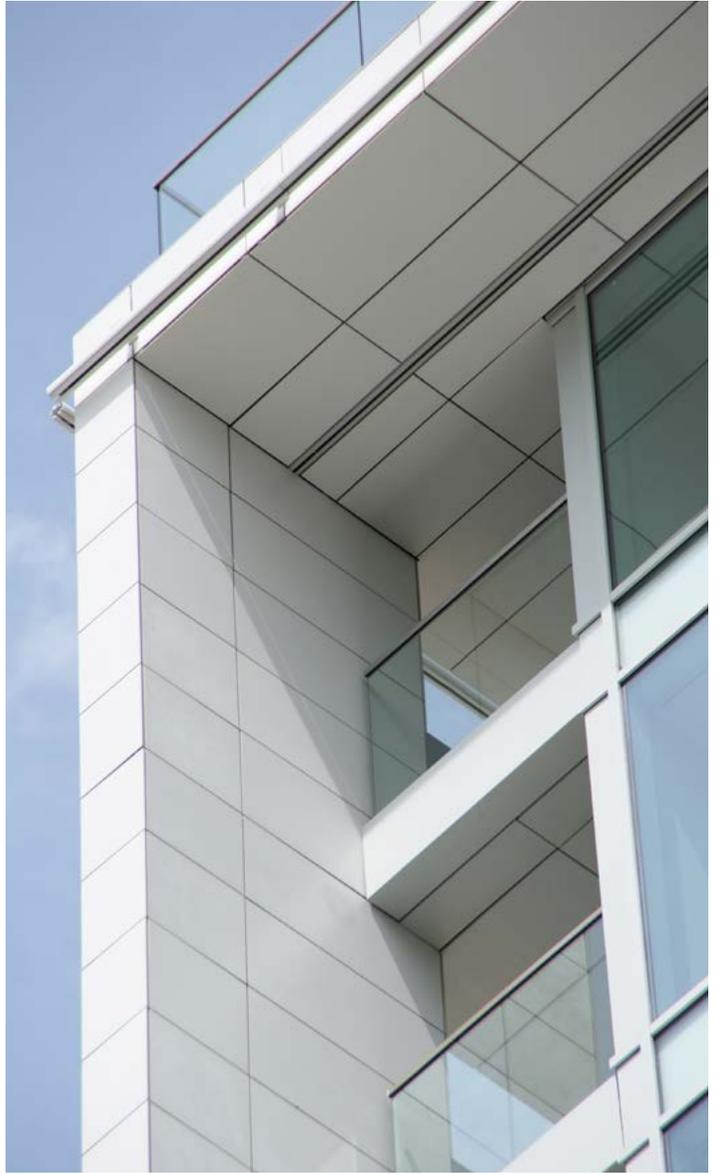


Built projects

The Filaments, London, United Kingdom • VF Porcelain panel system with concealed clips • FV-KER Extreme White 59.6 x 120 cm

Architect: Rolfe Judd





Built projects

Single family home, Soto del Real, Madrid, Spain • VF Porcelain panel system with concealed clips • Architect: D. Pedro Jesús Alonso Robles

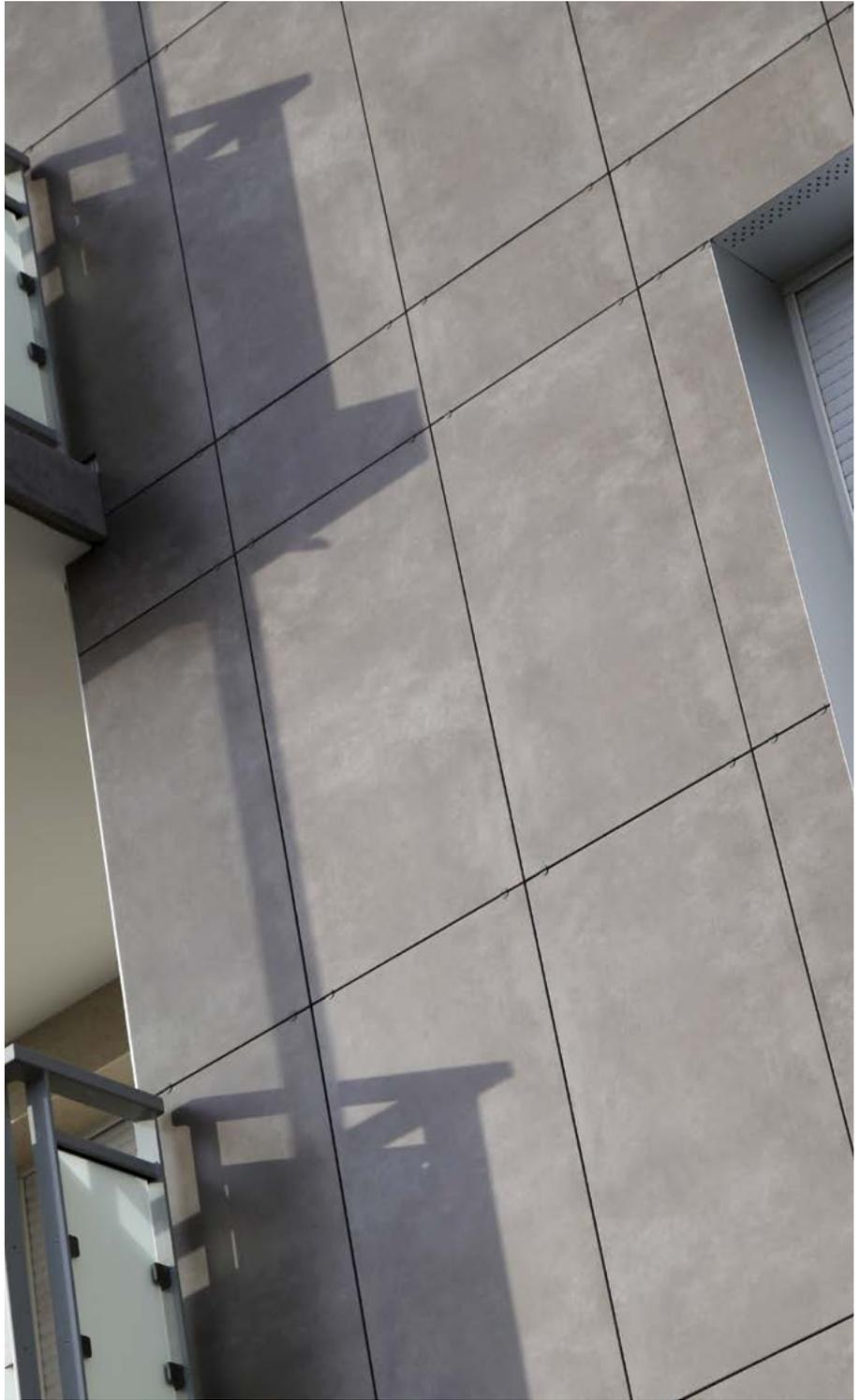




Built projects

Residential building Ville de l'Aubance, Tours, France · VF Porcelain panel system with visible clips · FV-KER 59,6 x 120 cm · Architect: D. Alain Gourdon





Built projects

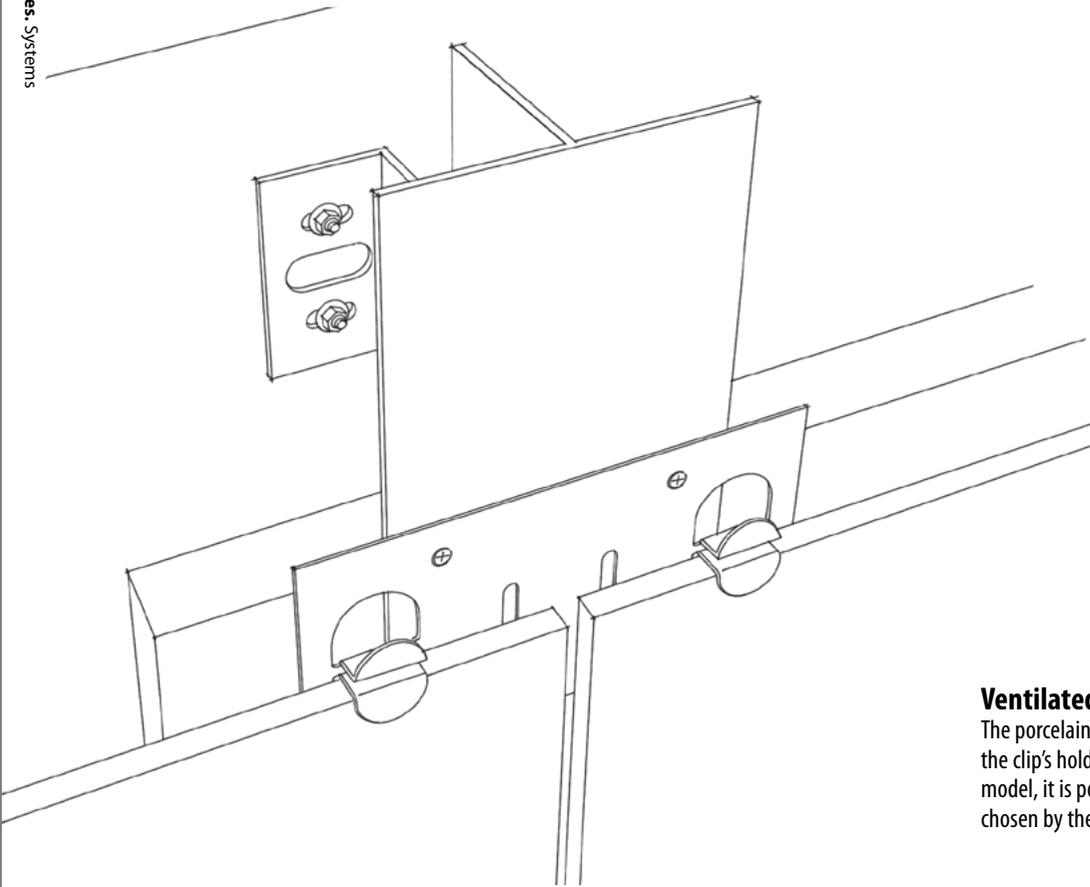
Thermes de Balaruc Les Bains, France · VF Porcelain panel system with concealed clips · FV-KER Pure White 59.6 x 120 cm
Architect: DHA Architectes Urbanistes et AMG Architectes





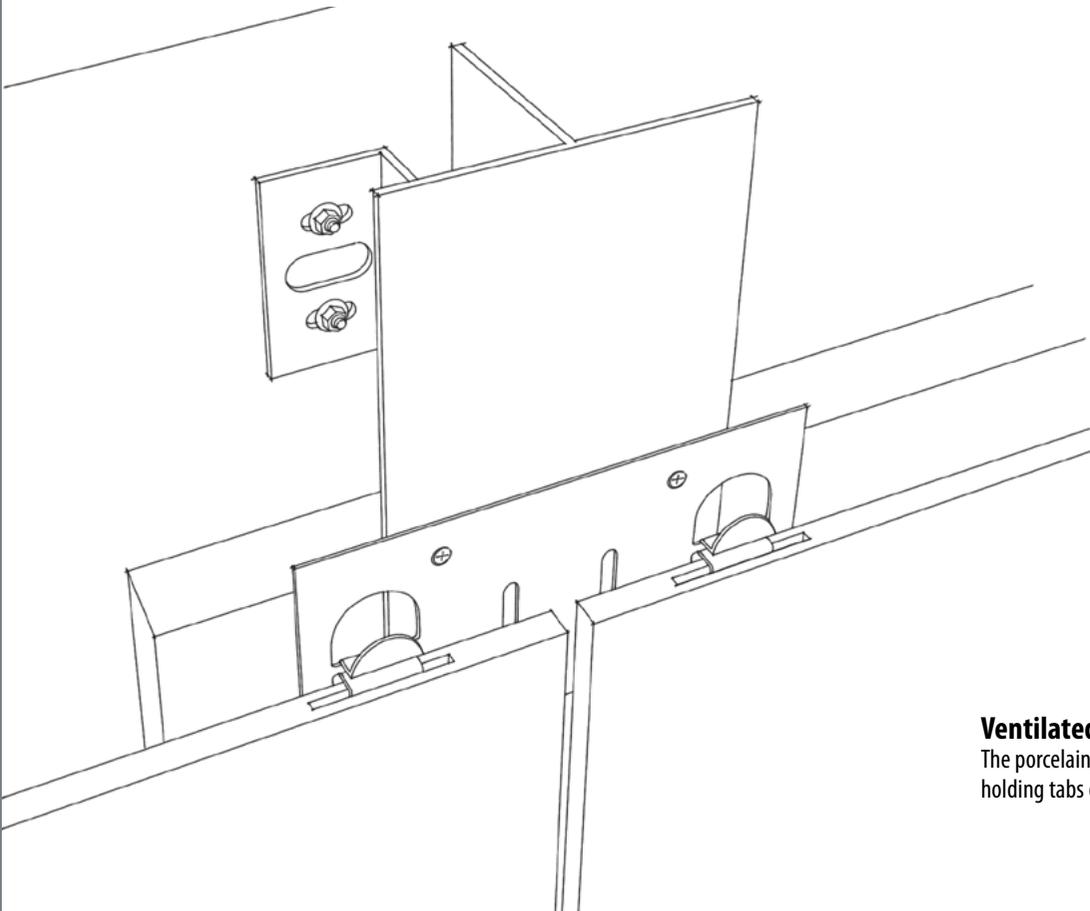
Facade types

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



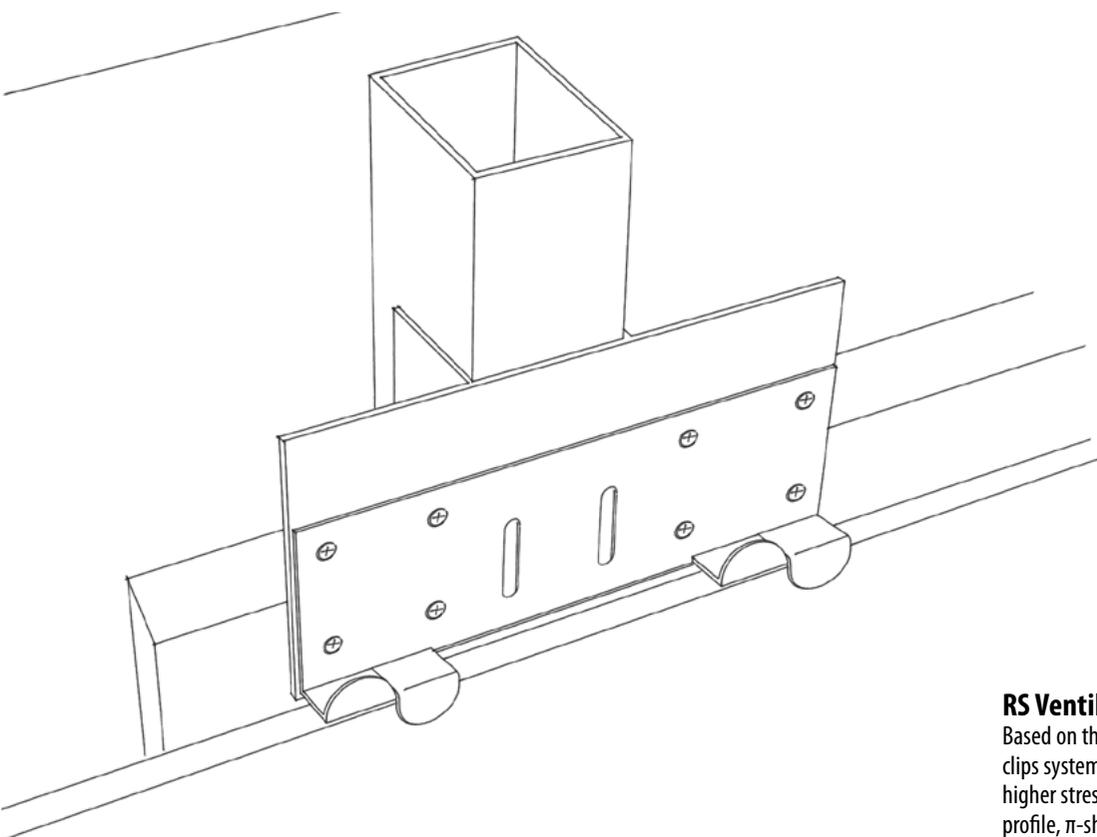
Ventilated facade with visible clips.

The 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.



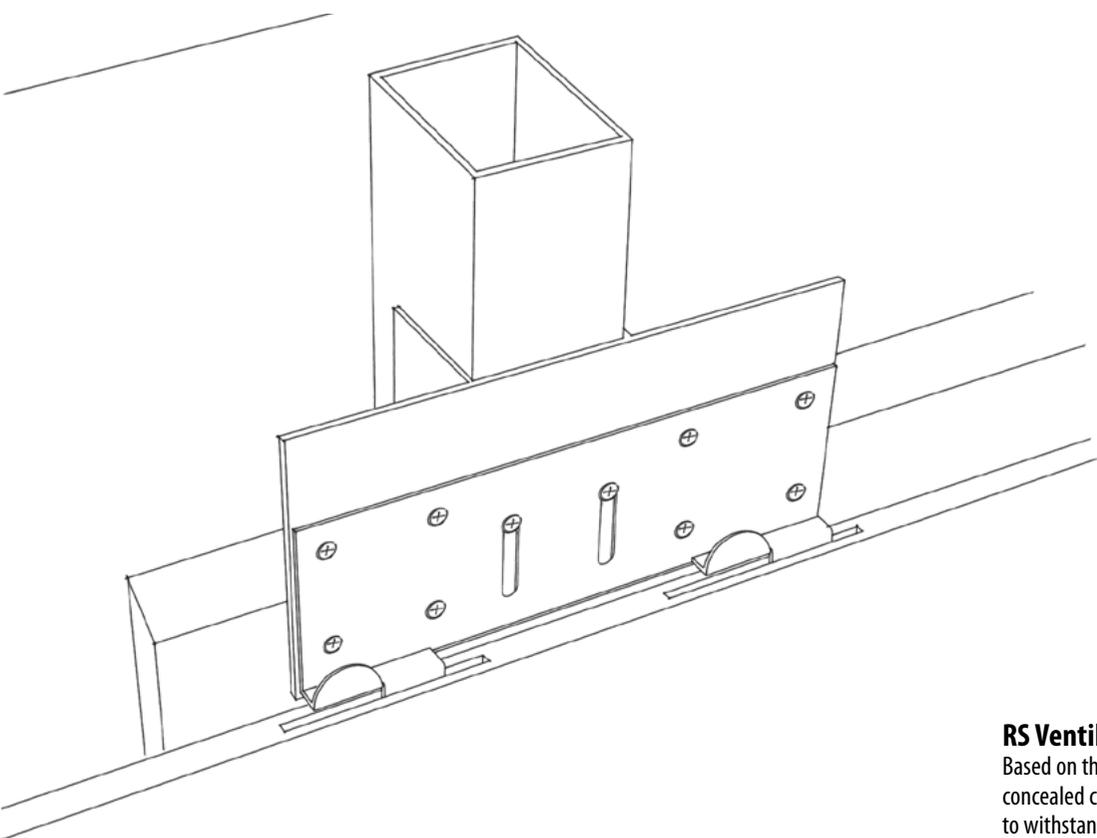
Ventilated facade with concealed clips.

The porcelain panels are supplied with side slots where the holding tabs of the clip fit in, leaving them concealed.



RS Ventilated facade with visible clips.

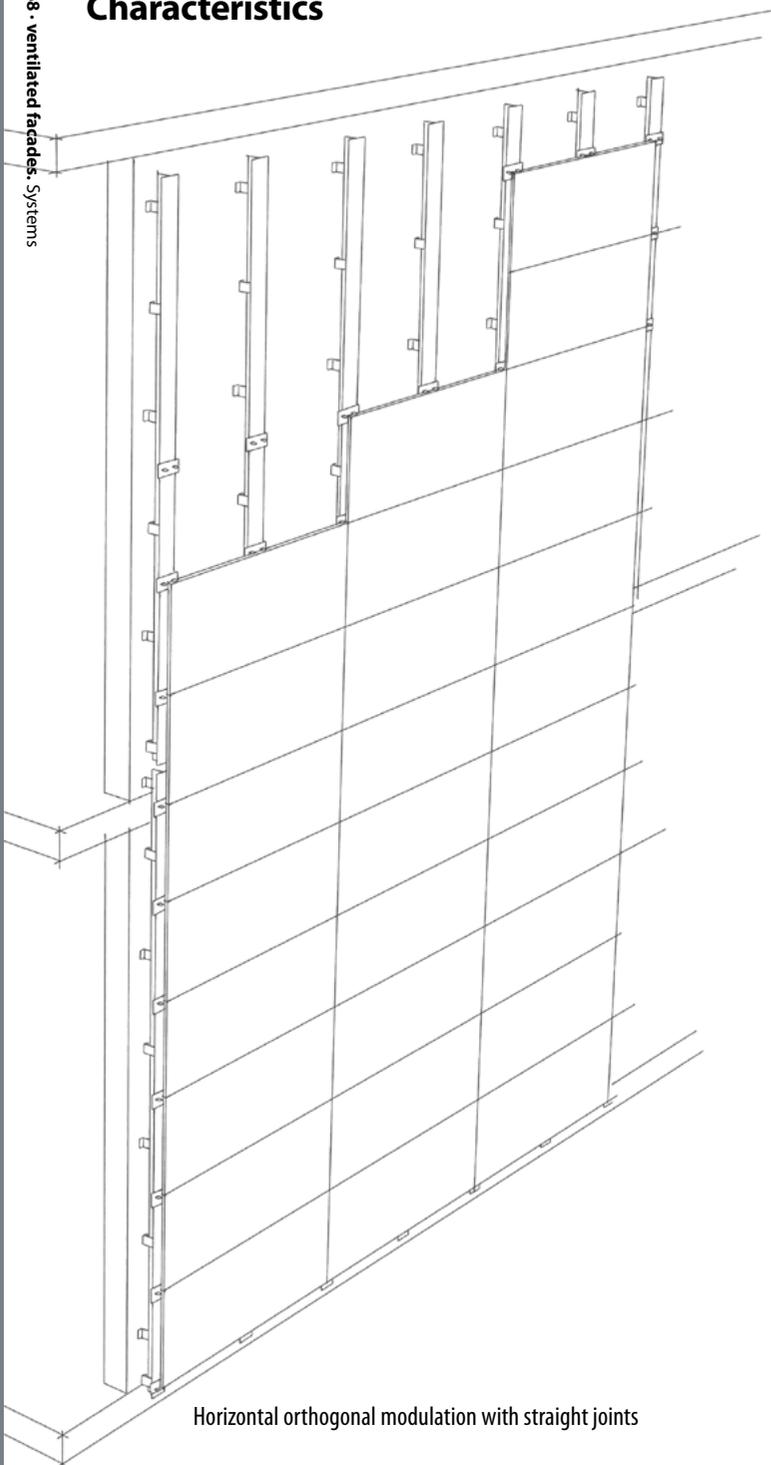
Based on the same concept as the ventilated facade with visible clips system, it incorporates a reinforced structure to withstand higher stresses: new L-shaped separator, 60 x 40 mm tubular profile, π -shaped reinforcing element, and high-performance clip.



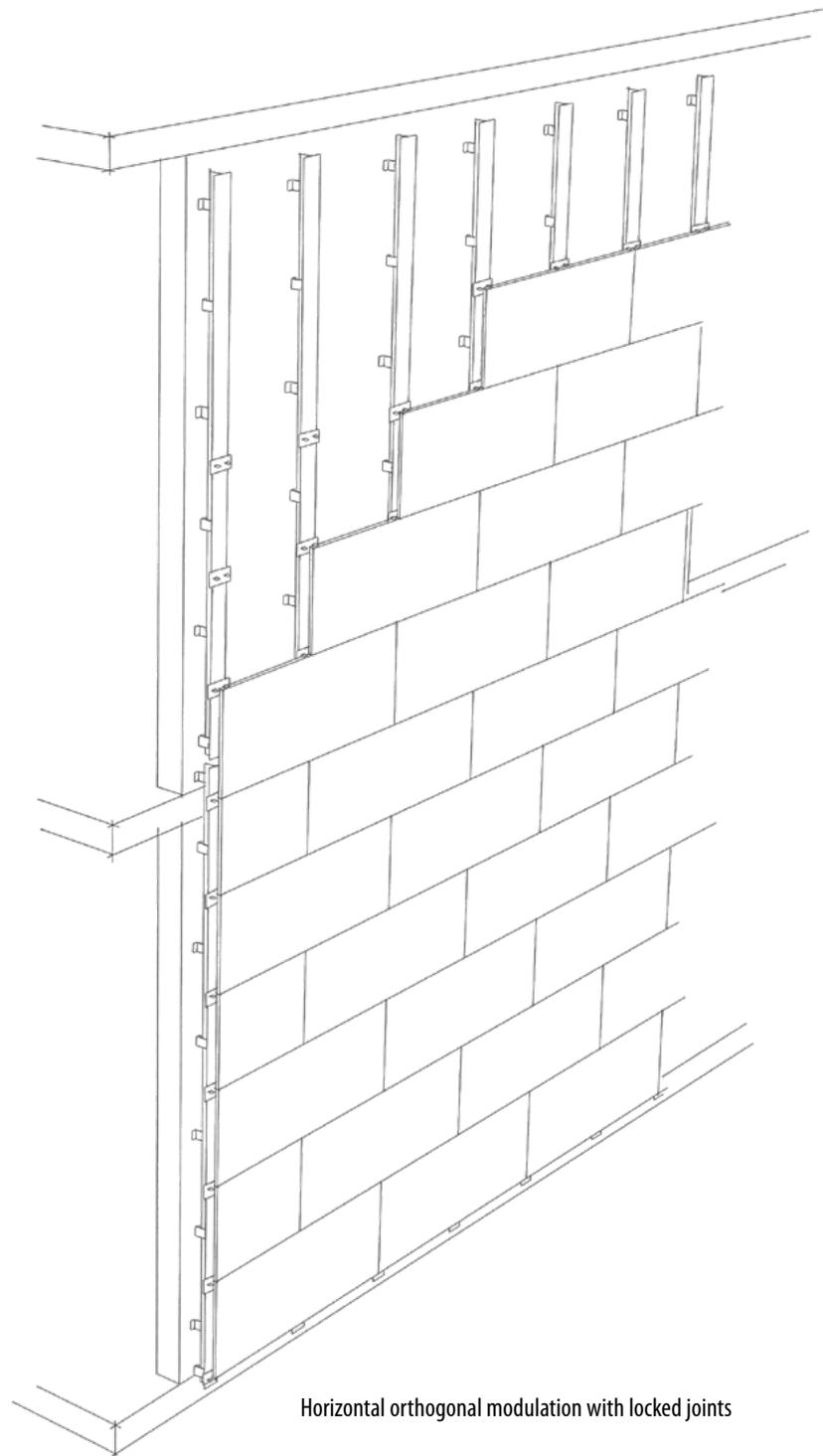
RS Ventilated facade with concealed clips.

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 x 40 mm tubular profile, π -shaped reinforcing element, and high-performance clip.

Characteristics



Horizontal orthogonal modulation with straight joints



Horizontal orthogonal modulation with locked joints

Facade structure.

Main characteristics:

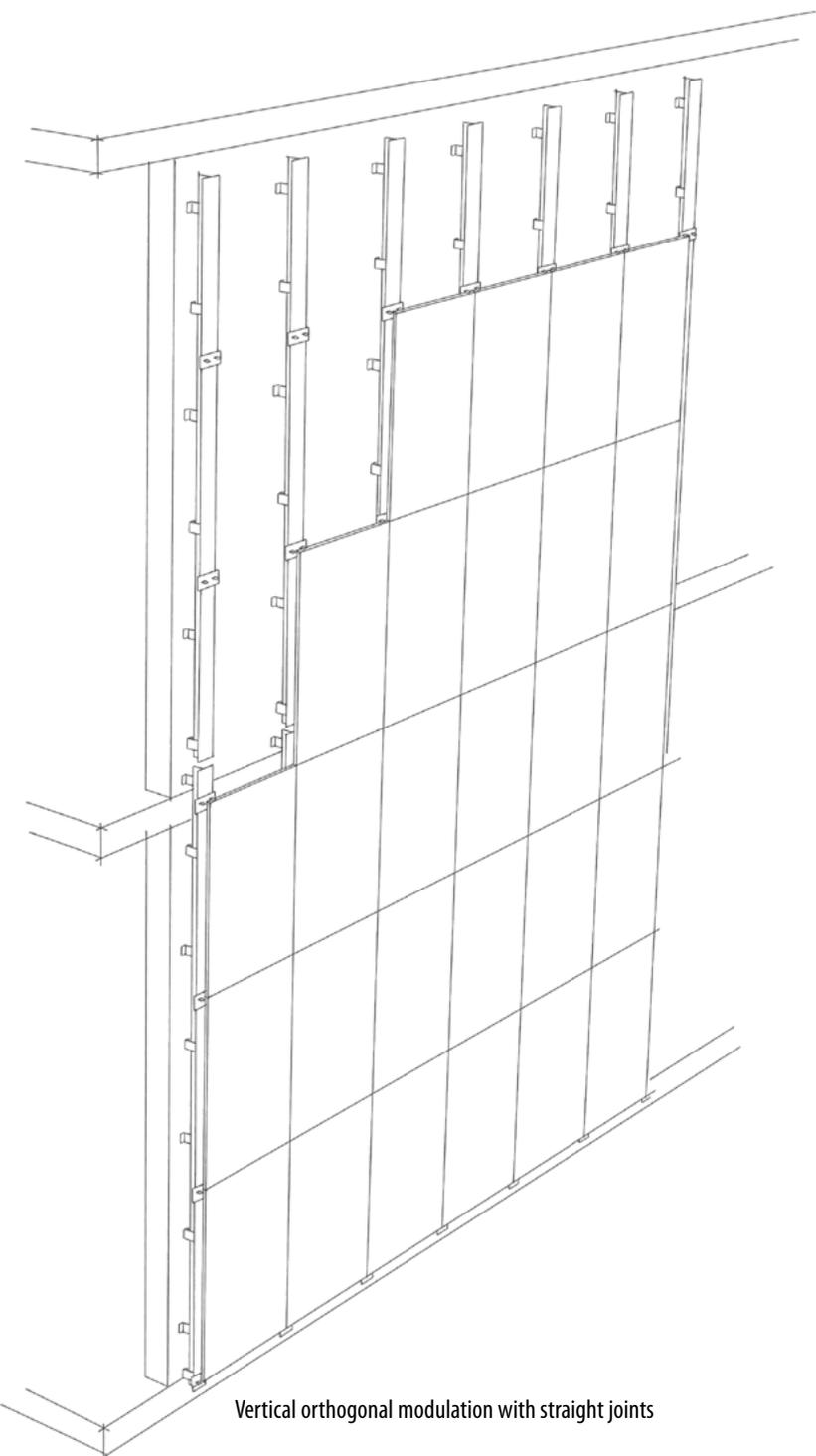
- Facade anchoring direct to the building structure.
- Applicable to most structure and enclosure types used in construction.
- Minimum distance between support and facade: 80 mm.
- Structure consisting of only vertical profiles.
- Structure for very light facade: less than 5 kg/m².
- Dual chemical and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

Modulation of the facade.

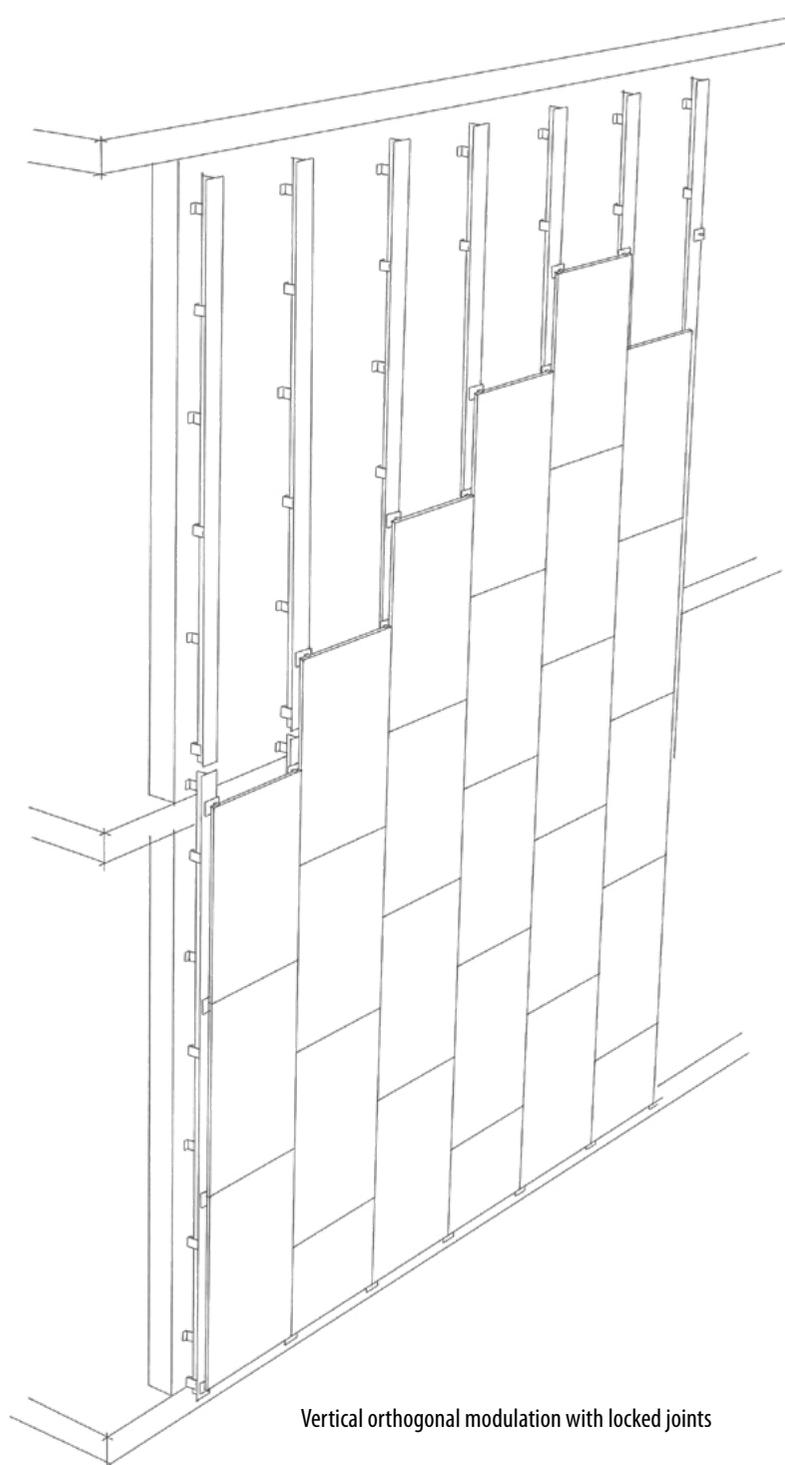
Main characteristics:

- 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.

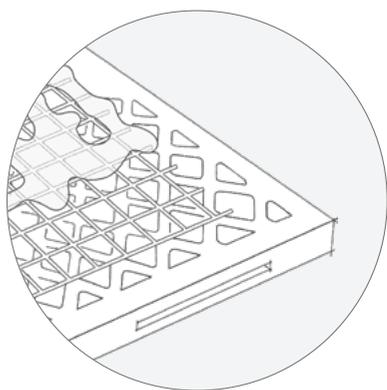
These drawings are only sketches of tile modulation examples. For technical details of these façade systems, have a look the construction details at the next pages.



Vertical orthogonal modulation with straight joints



Vertical orthogonal modulation with locked joints

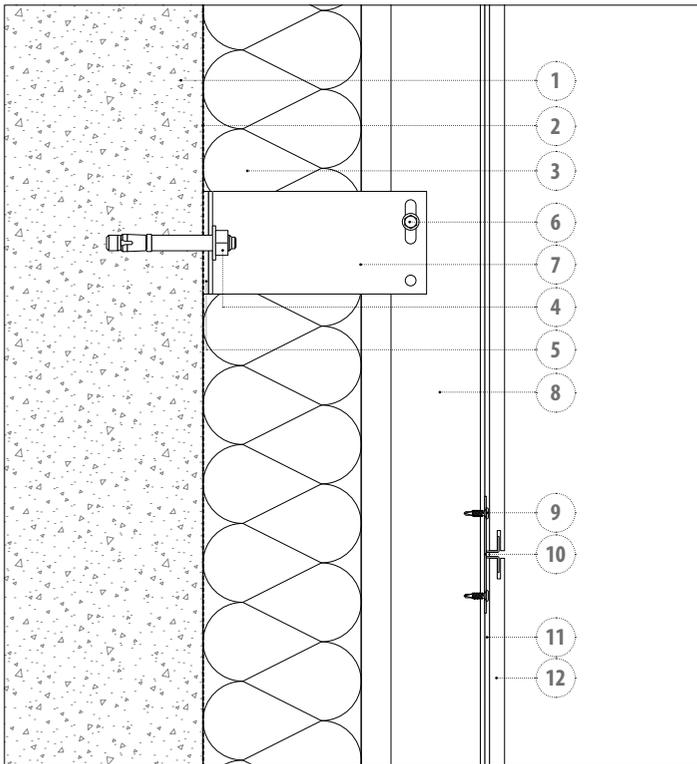


Porcelain panels.

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.

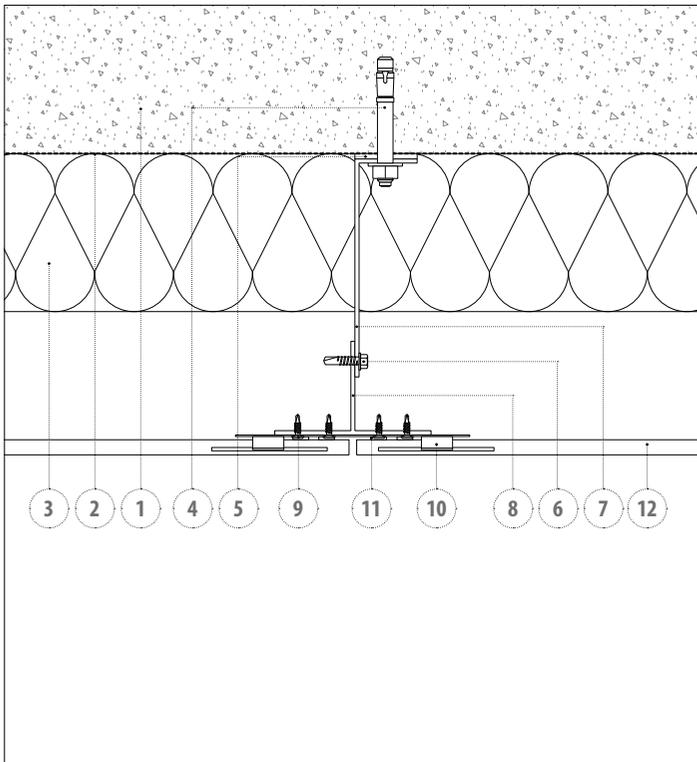
Construction details • Concealed clip system



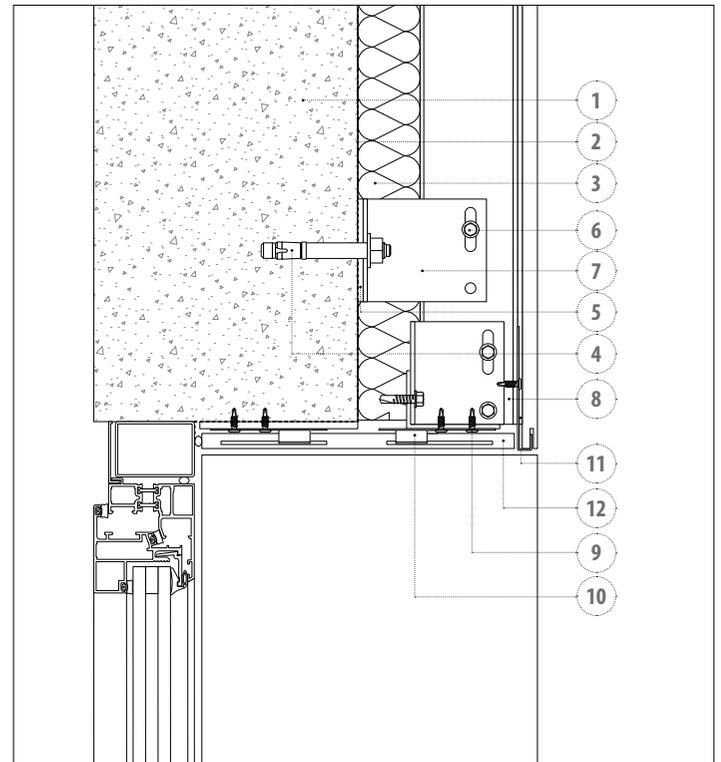
Vertical cross-section

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

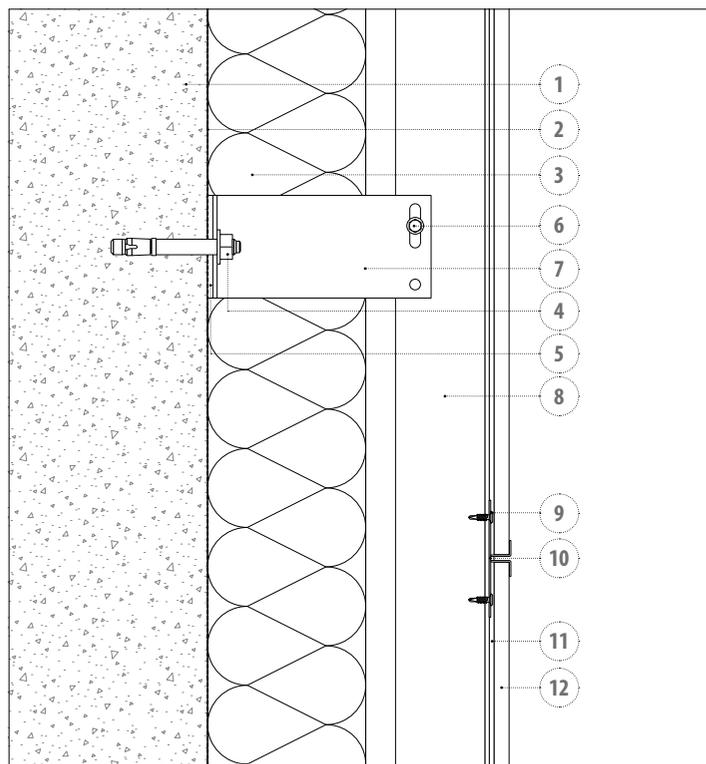


Horizontal cross-section



Lintel

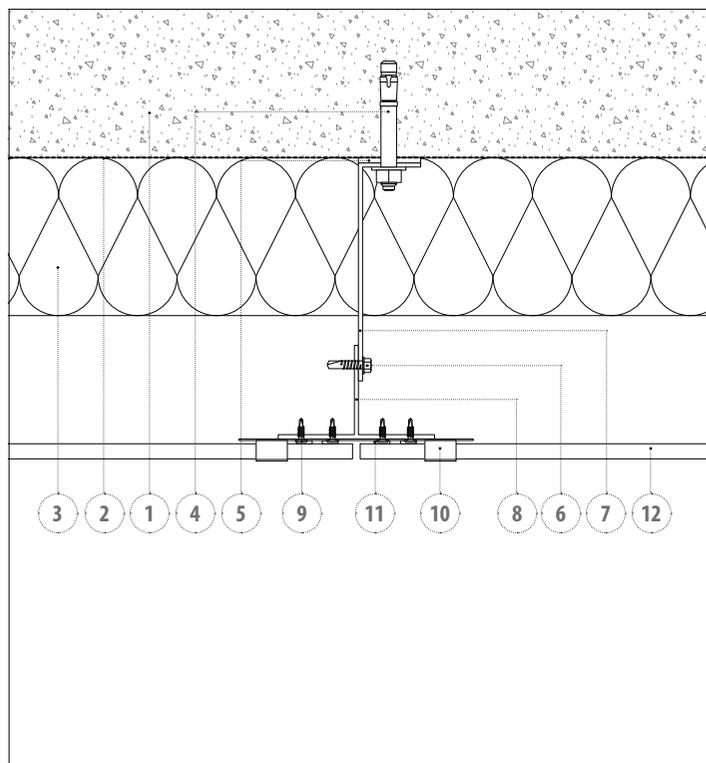
Construction details • Visible clip system



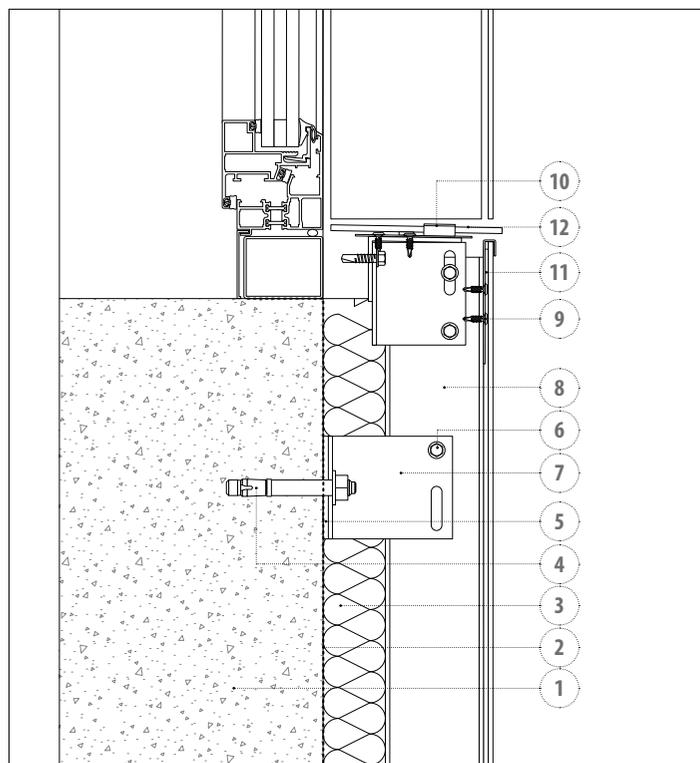
Vertical cross-section

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. Visible clip
11. Polyurethane putty
12. Porcelain panel

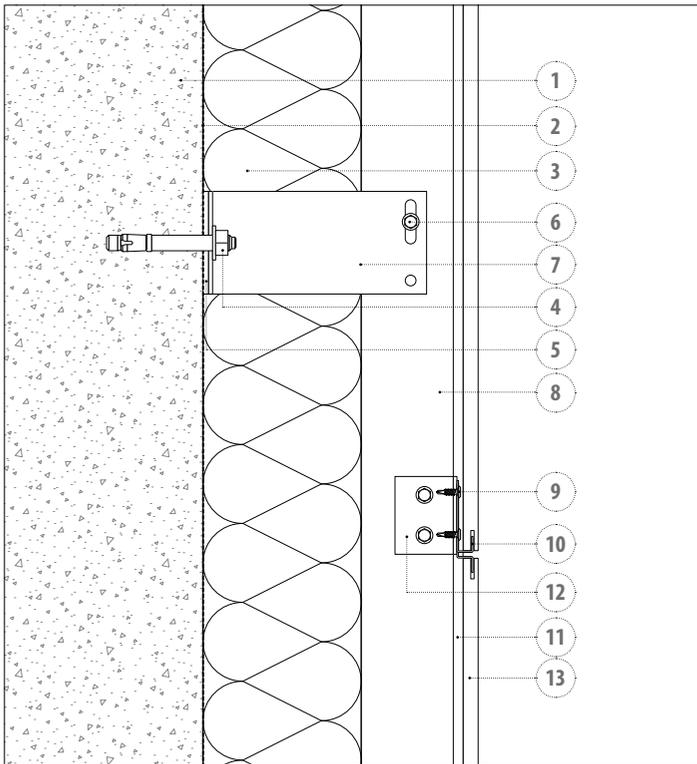


Horizontal cross-section



Sill

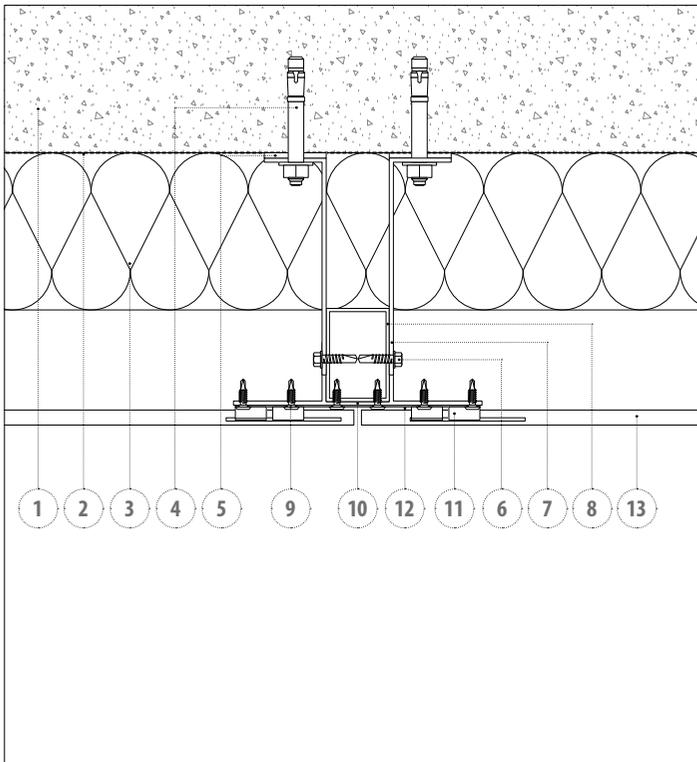
Construction details · RS system with concealed clip



Vertical cross-section

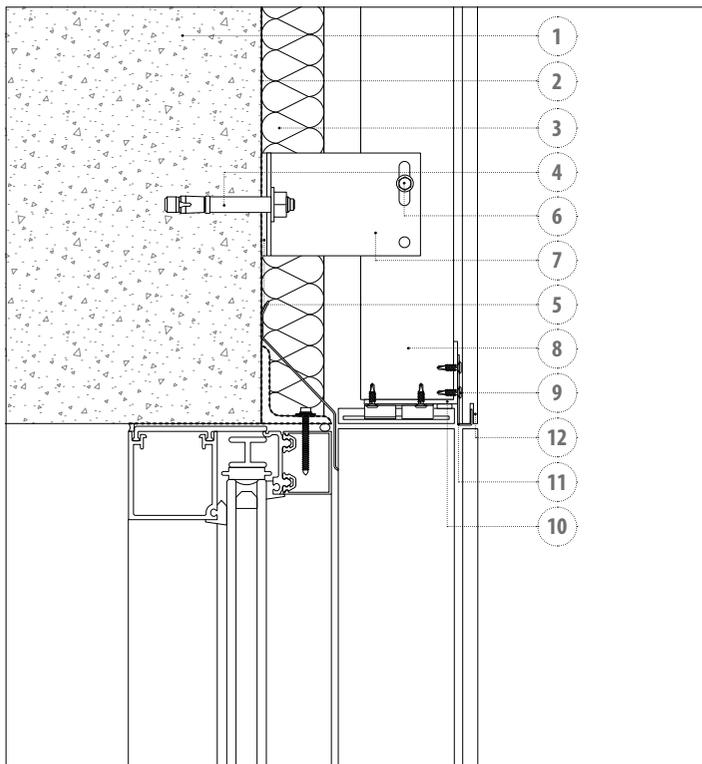
Elements of the system:

1. Concrete support
2. Waterproofing sheet
3. Thermal insulation
4. Anchor for concrete
5. Thermal break
6. Stainless steel self-drilling screw
7. 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. Polyurethane putty
13. Porcelain panel



Horizontal cross-section

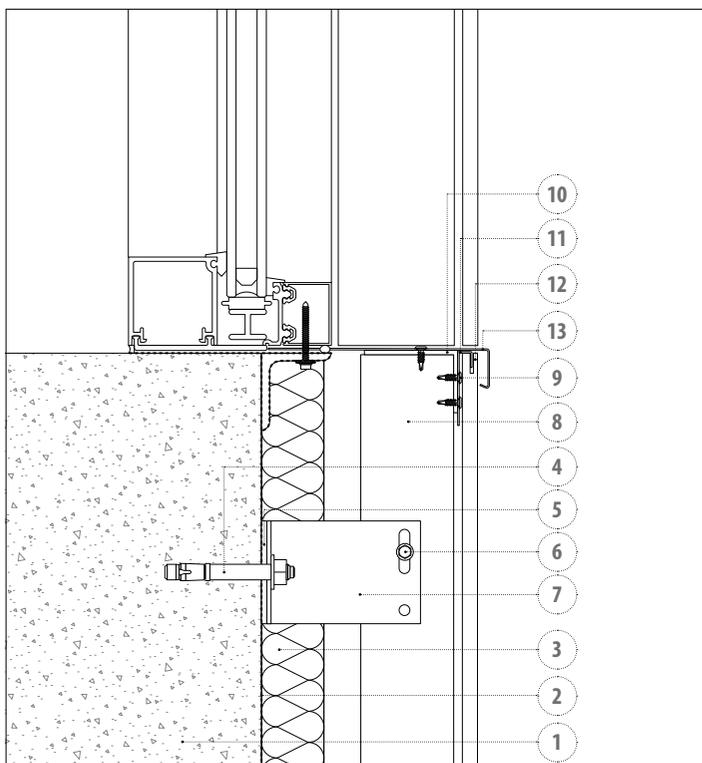
Construction details • RS system with concealed clip



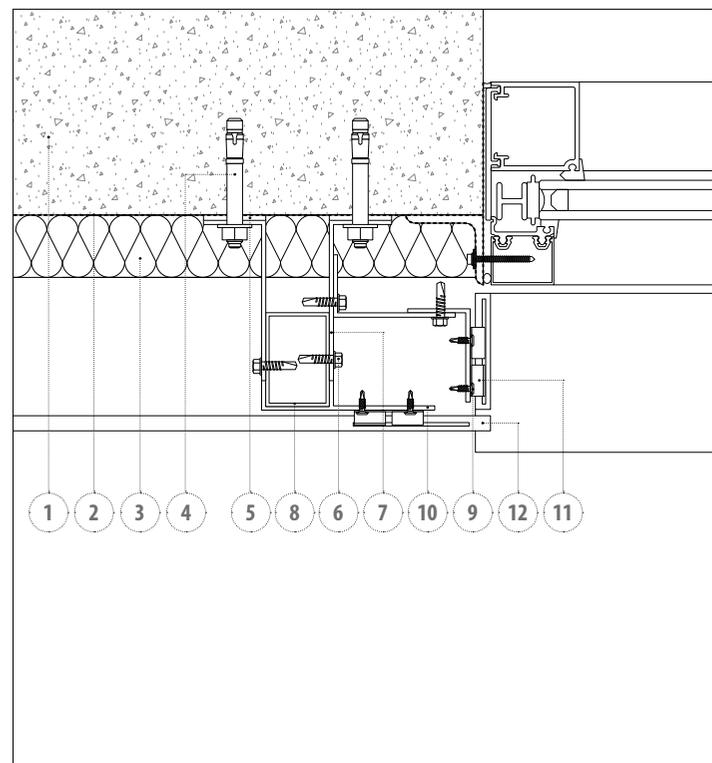
Lintel

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. 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



Sill



Jamb

XLIGHT

The features of URBATEK XLIGHT porcelain panels are their large size and minimal thickness.

XLIGHT are innovative large-format slimline ceramic sheets developed by URBATEK, a member of PORCELANOSA Grupo.

These highly resistant, extremely lightweight, unalterable sheets stand out for their unbeatable physical and mechanical properties. This makes XLIGHT suitable for a broad range of different applications and very special way in facades.

A widely-assorted range, it features unalterable monochrome models, designs conspicuous for their timeless beauty and other more trendsetting ones, available in a wide variety of patterns. XLIGHT sheets are easier to transport and handle, cutting down execution times.

With a multitude of possibilities, it is a material that is suitable both for new construction and renovation of facades. It is especially recommended for projects with elevations with few openings or well-modulated to the size of the various panels of XLIGHT.

XLIGHT Formats

3000 x 1000 x 3.5 mm

1200 x 2500 x 6 mm
1200 x 2500 x 9 mm

The sizes different to 3000 x 1000 mm are available on request as a special piece.

XTONE

New line of unglazed porcelain panel, which currently includes the larger format panels from Grupo PORCELANOSA, allowing for unique designs both indoors and outdoors.

Sintered mineral compact, obtained from the purest natural minerals with the most advanced technical development and avant-garde design.

Durable, elegant, and functional. The 12 mm-thick large-format XTONE surface enables for all kinds of ideas to come to life.

With thickness from 6 to 12 mm, can be used both in new construction and renovation of facades. It is especially recommended for projects with elevations with few openings or well-modulated to the size of the various XLIGHT panels.

XTONE Formats

3280 x 1540 x 12 mm
3000 x 1500 x 9 mm
3000 x 1500 x 6 mm

1200 x 1200 x 6 mm

XLIGHT · Concrete



CONCRETE BEIGE

Page 82 · Formats (cm)



CODE WHITE

Page 83 · Formats (cm)



CONCRETE GREY

Page 82 · Formats (cm)



CODE BEIGE

Page 84 · Formats (cm)



CODE GREY

Page 85 · Formats (cm)



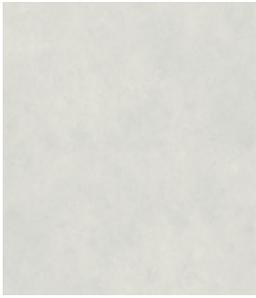
CODE COAL

Page 84 · Formats (cm)



CONCRETE BLACK

Page 83 · Formats (cm)



STARK WHITE NATURE

Page 88 · Formats (cm)



ARCAN TAUPE NATURE

Page 87 · Formats (cm)



ARCAN GREY NATURE

Page 87 · Formats (cm)



STARK SAND NATURE

Page 89 · Formats (cm)



RAW CLAY NATURE

Page 90 · Formats (cm)



STARK GREY NATURE

Page 88 · Formats (cm)



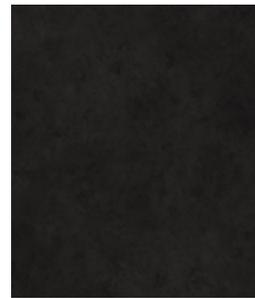
RAW GREY NATURE

Page 90 · Formats (cm)



ARCAN BEIGE NATURE

Page 86 · Formats (cm)



STARK BLACK NATURE

Page 89 · Formats (cm)



ARCAN DARK NATURE

Page 86 · Formats (cm)



XLIGHT · Stone



ARS BEIGE NATURE

Page 94 · Formats (cm)

120x120 120x250



AGED CLAY NATURE

Page 94 · Formats (cm)

120x120 120x250



LIEM GREY SILK

Page 95 · Formats (cm)

120x120 120x250



AGED DARK NATURE

Page 95 · Formats (cm)

120x120 120x250

XTONE · Stone



BOTTEGA ACERO

Page 102 · Formats (cm)

154x328 100x300



BOTTEGA CALIZA

Page 102 · Formats (cm)

154x328 100x300



BOTTEGA ANTRACITA

Page 103 · Formats (cm)

154x328 100x300

XLIGHT · Metal



RUST BEIGE

Page 92 · Formats (cm)

50x100 50x150
100x100 100x300



RUST DARK

Page 92 · Formats (cm)

50x100 50x150
100x100 100x300



NOX CORTEN

Page 93 · Formats (cm)

50x100 50x150
100x100 100x300

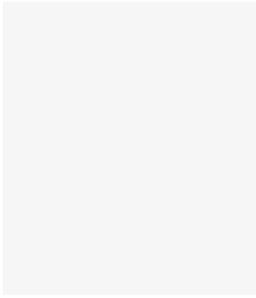


ARCAN CORTEN

Page 93 · Formats (cm)

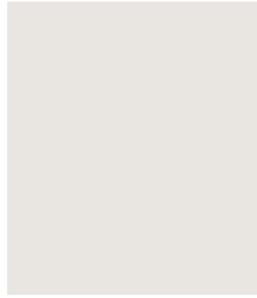
120x120 120x250

XLIGHT · Technics



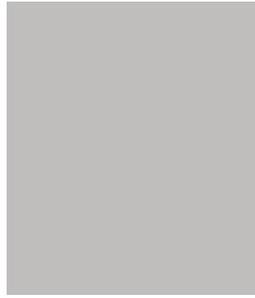
BASIC SNOW

Page 96 · Formats (cm)



BASIC BONE

Page 96 · Formats (cm)



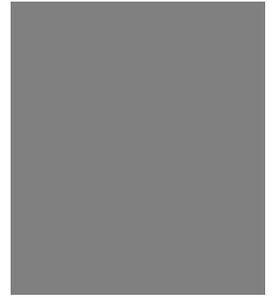
BASIC SILVER

Page 97 · Formats (cm)



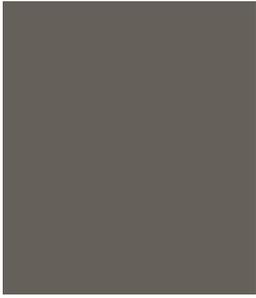
BASIC STONE

Page 98 · Formats (cm)



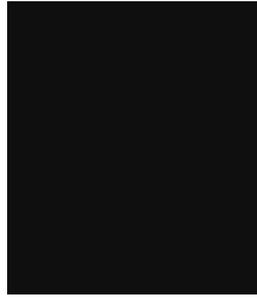
BASIC STEEL

Page 97 · Formats (cm)



BASIC CLAY

Page 98 · Formats (cm)

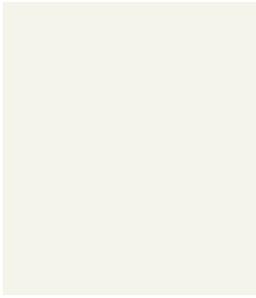


BASIC DARK

Page 99 · Formats (cm)



XTONE · Technics



MOON WHITE NATURE

Page 103 · Formats (cm)



XLIGHT · Wood



EWOOD CAMEL NATURE

Page 91 · Formats (cm)

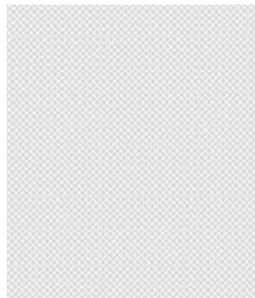


EWOOD HONEY NATURE

Page 91 · Formats (cm)



XLIGHT · Emotion



EMOTION SNOW

Page 100 · Formats (cm)



Facades with XLIGHT

create your own format

XLIGHT panels can be supplied on-site with a special format adapted to the modulation of the facade project. When it is not possible to adjust a facade design to a specific format, there are slightly smaller pieces to the 1200 x 2500 mm standard format. This is particularly interesting for projects with distances between floors, facade surfaces, or presence of openings that do not conform to a specific ceramic module from this catalog.

This service does not include finishing pieces, which must always be measured and cut on site. Check availability and conditions.

XLIGHT • Concrete



CONCRETE BEIGE

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100144254	○
50 x 150	3,5	100166023	○
100 x 100	3,5	100166223	○
300 x 100	3,5	100170554	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

modular vf



CONCRETE GREY

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100130762	○
50 x 150	3,5	100165997	○
100 x 100	3,5	100166241	○
300 x 100	3,5	100128411	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

modular vf



CONCRETE BLACK

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100130767	○
50 x 150	3,5	100165996	○
100 x 100	3,5	100166224	○
300 x 100	3,5	100170525	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed



XLIGHT vf visible clips



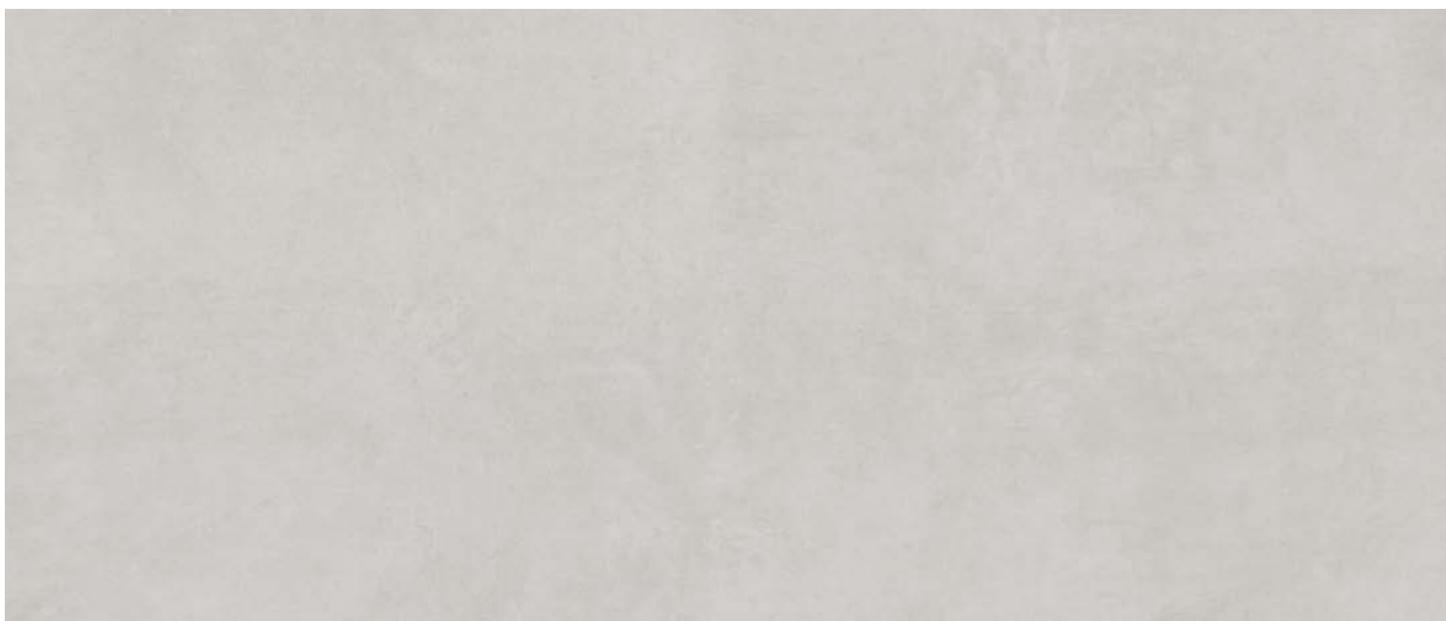
XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



modular vf



CODE WHITE

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121490	○
50 x 150	3,5	100166008	○
100 x 100	3,5	100118783	○
300 x 100	3,5	100124130	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



modular vf

XLIGHT • Concrete



CODE BEIGE

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121487	○
50 x 150	3,5	100156730	○
100 x 100	3,5	100118811	○
300 x 100	3,5	100124128	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

modular vf



CODE COAL

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121488	○
50 x 150	3,5	100166018	○
100 x 100	3,5	100118781	○
300 x 100	3,5	100124127	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

modular vf



CODE GREY

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121489	○
50 x 150	3,5	100166007	○
100 x 100	3,5	100118782	○
300 x 100	3,5	100124129	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed



XLIGHT vf
visible clips



XLIGHT vf
concealed clips



XLIGHT vf RPP
concealed clips



modular vf

XLIGHT • Concrete



ARCAN BEIGE NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100227169	●
120 x 250	6	100227206	●

● Format without minimum production ○ Special production, check availability



matte



shade variation

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

ARCAN DARK NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100222859	●
120 x 250	6	100222912	●

● Format without minimum production ○ Special production, check availability

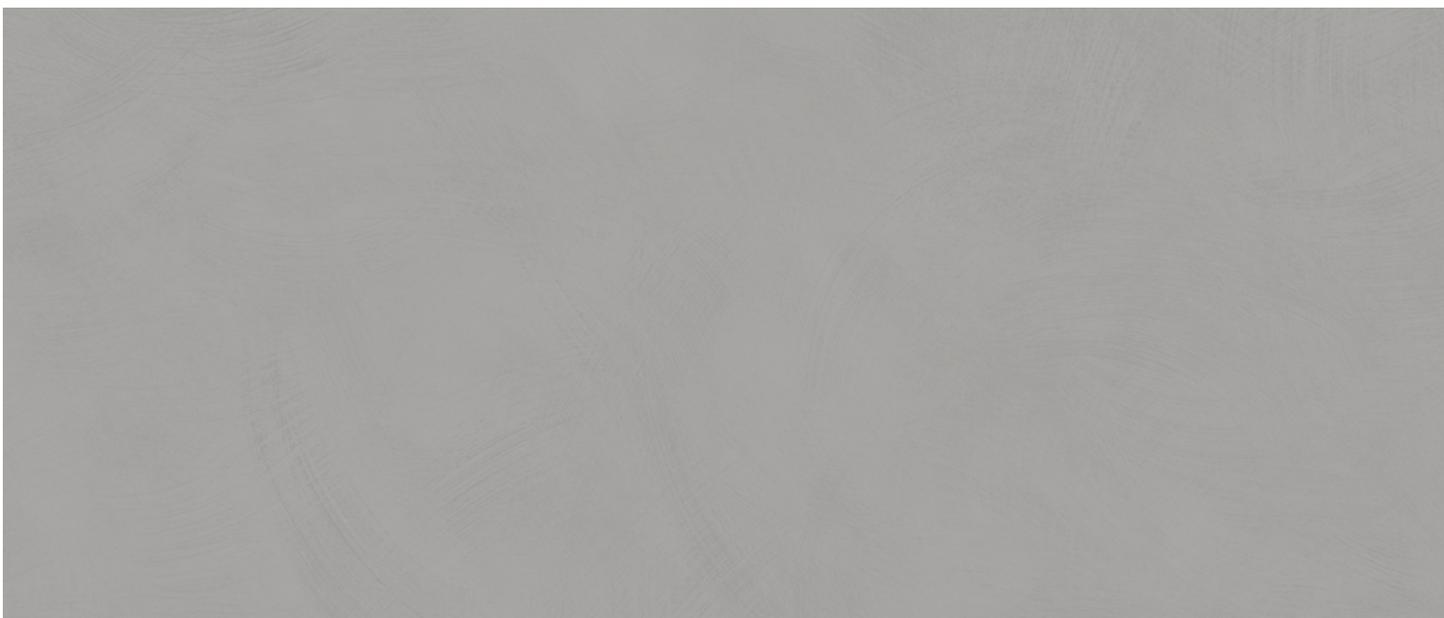


matte



shade variation

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips



ARCAN GREY NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100227198	●
120 x 250	6	100227211	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



ARCAN TAUPE NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100227207	●
120 x 250	6	100227210	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips

XLIGHT • Concrete



STARK WHITE NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100206082	○
120 x 250	6	100206066	●

● Format without minimum production ○ Special production, check availability



matte



shade variation

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

STARK GREY NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100206091	○
120 x 250	6	100206074	●

● Format without minimum production ○ Special production, check availability



matte



shade variation

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips



STARK SAND NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100206092	○
120 x 250	6	100206065	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



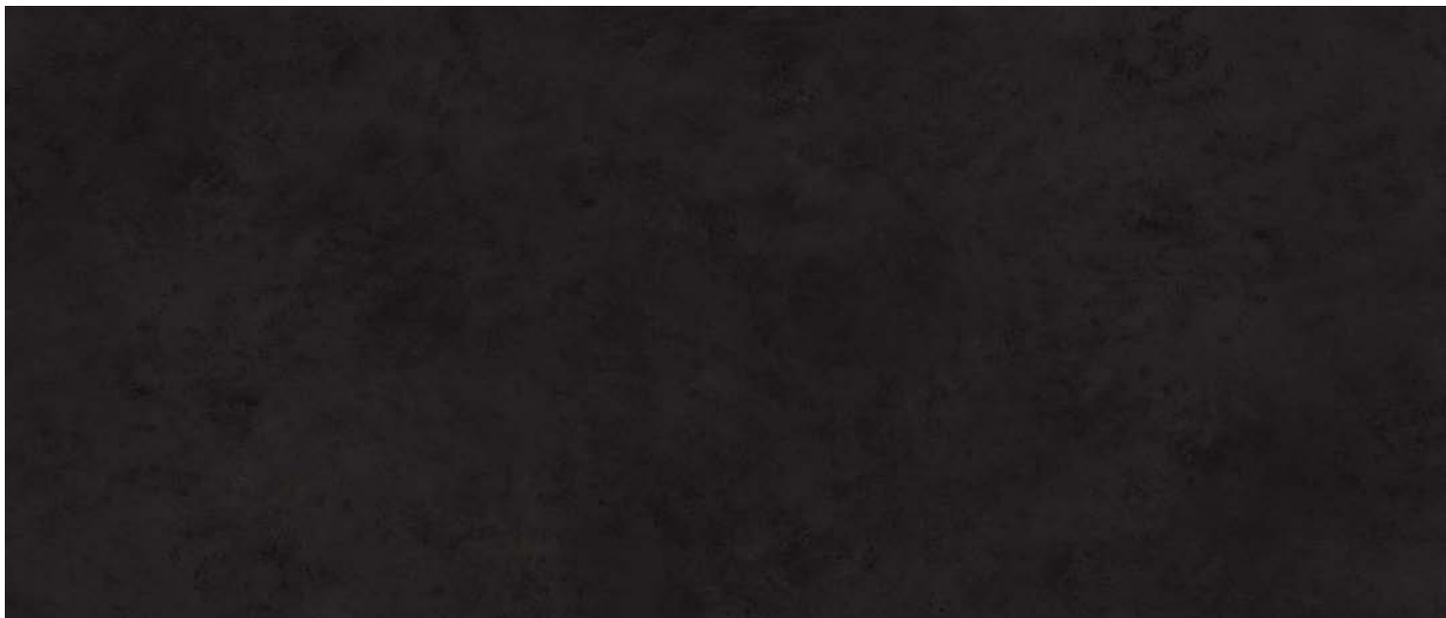
XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



STARK BLACK NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100206081	○
120 x 250	6	100206090	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips

XLIGHT • Concrete



RAW CLAY NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100209015	○
120 x 250	6	100209012	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



RAW GREY NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100209021	○
120 x 250	6	100208989	●

● Format without minimum production ○ Special production, check availability



matte



shade variation





EWOOD CAMEL NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6		○
120 x 250	6	100209562	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



EWOOD HONEY NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6		○
120 x 250	6	100209561	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips

XLIGHT • Metal



RUST BEIGE

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100153681	○
50 x 150	3,5	100165998	○
100 x 100	3,5	100166042	○
300 x 100	3,5	100188913	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



modular vf



RUST DARK

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100153639	○
50 x 150	3,5	100166025	○
100 x 100	3,5	100166034	○
300 x 100	3,5	100184628	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



modular vf



NOX CORTEN

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100124135	○
50 x 150	3,5	100166012	○
100 x 100	3,5	100118788	○
300 x 100	3,5	100124135	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



modular vf



ARCAN CORTEN

Formats cm	Thickness mm	Codes	Availability
120 x 120	6		○
120 x 250	6	100222911	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips

XLIGHT • Stone



ARS BEIGE NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100212541	○
120 x 250	6	100209532	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



XLV XLIGHT vf visible clips



XL0 XLIGHT vf concealed clips



XLR XLIGHT vf RPP concealed clips



AGED CLAY NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100181587	●
120 x 250	6	100181575	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



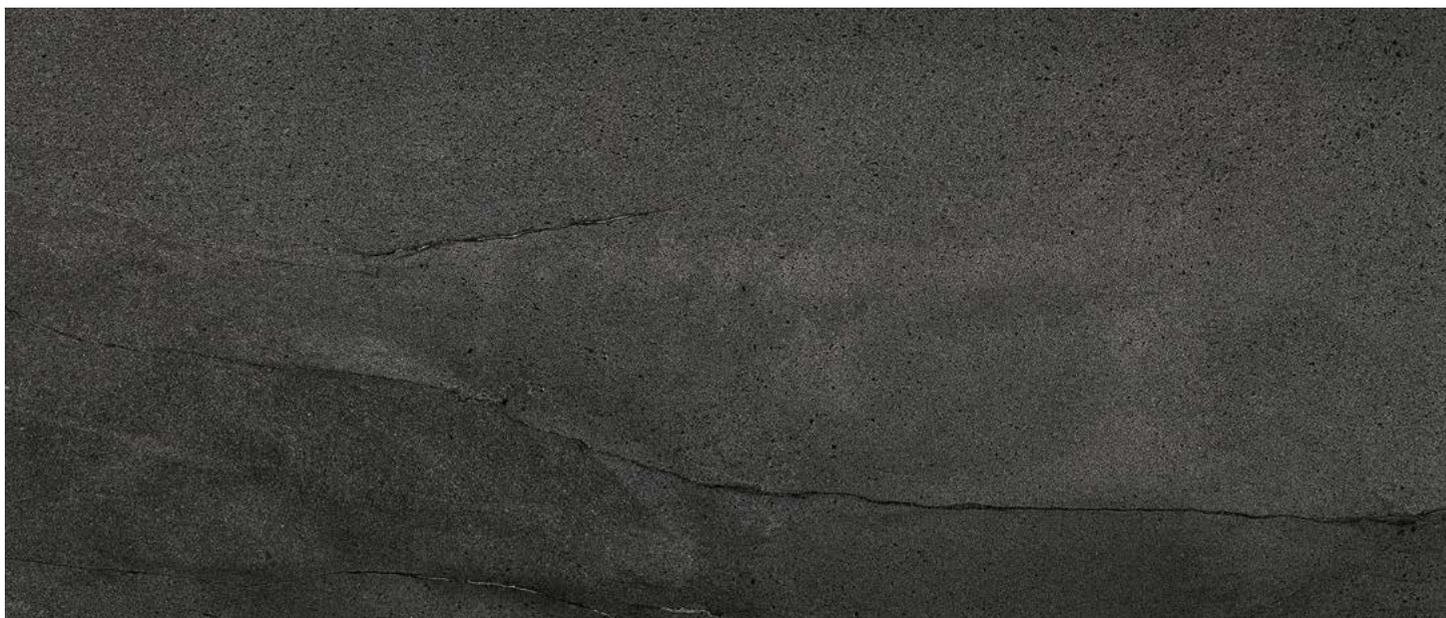
XLV XLIGHT vf visible clips



XL0 XLIGHT vf concealed clips



XLR XLIGHT vf RPP concealed clips



AGED DARK NATURE

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100181606	●
120 x 250	6	100181599	●

● Format without minimum production ○ Special production, check availability



matte



shade variation

XL^V XLIGHT vf visible clips

XL⁰ XLIGHT vf concealed clips

XL^R XLIGHT vf RPP concealed clips



LIEM GREY SILK

Formats cm	Thickness mm	Codes	Availability
120 x 120	6	100220478	●
120 x 250	6	100220447	●

● Format without minimum production ○ Special production, check availability



matte



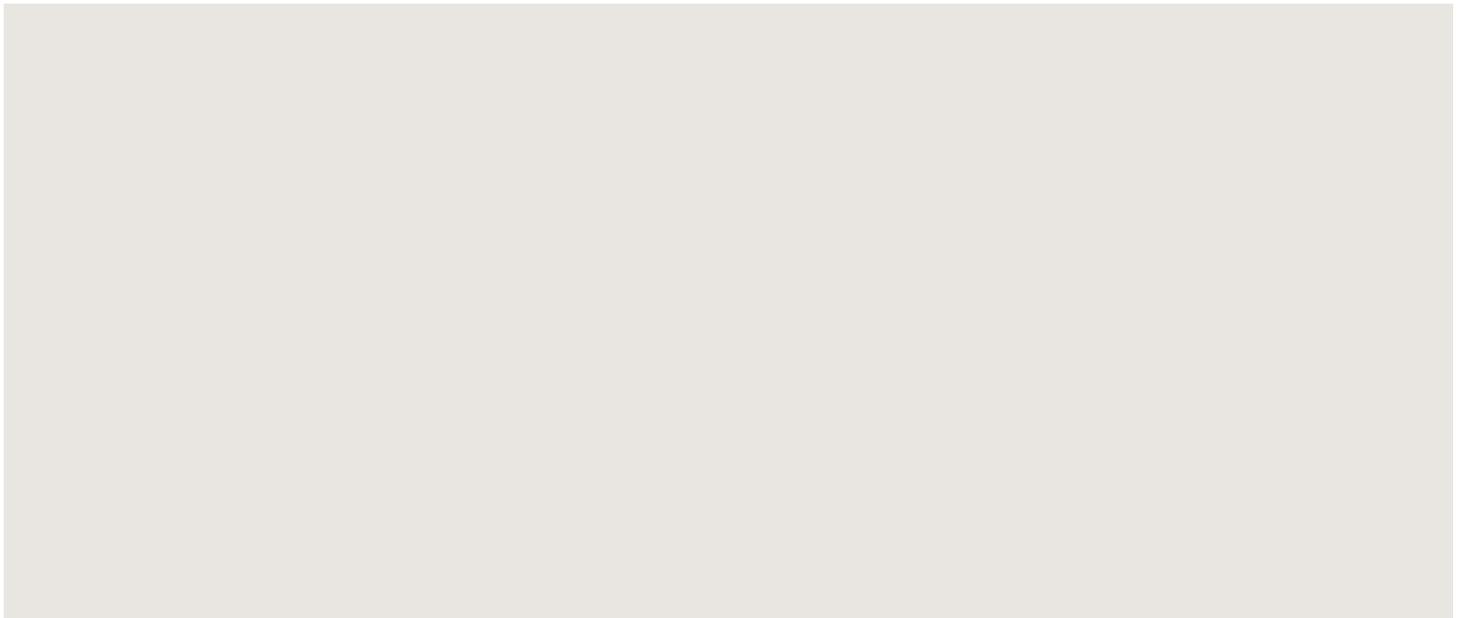
shade variation

XL^V XLIGHT vf visible clips

XL⁰ XLIGHT vf concealed clips

XL^R XLIGHT vf RPP concealed clips

XLIGHT • Technics



BASIC BONE

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121514	○
50 x 150	3,5	100166003	○
100 x 100	3,5	100118803	○
300 x 100	3,5	100124108	●

● Format without minimum production ○ Special production, check availability



matte



meshed



XLV XLIGHT vf visible clips



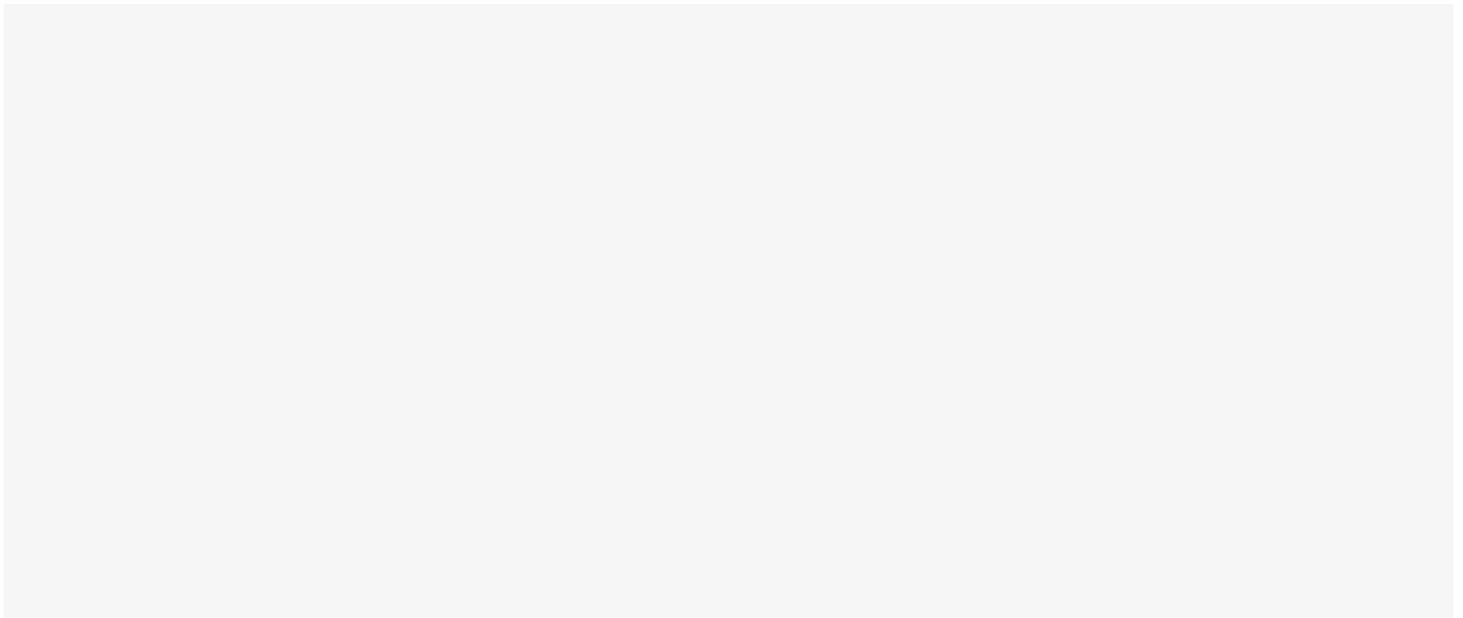
M modular vf



XL0 XLIGHT vf concealed clips



XLR XLIGHT vf RPP concealed clips



BASIC SNOW

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121519	○
50 x 150	3,5	100166005	○
100 x 100	3,5	100118809	○
300 x 100	3,5	100124136	●

● Format without minimum production ○ Special production, check availability



matte



meshed



XLV XLIGHT vf visible clips



M modular vf



XL0 XLIGHT vf concealed clips



XLR XLIGHT vf RPP concealed clips



BASIC SILVER

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121518	○
50 x 150	3,5	100166015	○
100 x 100	3,5	100118808	○
300 x 100	3,5	100124119	●

● Format without minimum production ○ Special production, check availability



matte



meshed



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



modular vf



BASIC STEEL

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121520	○
50 x 150	3,5	100165995	○
100 x 100	3,5	100118810	○
300 x 100	3,5	100124125	●

● Format without minimum production ○ Special production, check availability



matte



meshed



XLIGHT vf visible clips



XLIGHT vf concealed clips



XLIGHT vf RPP concealed clips



modular vf

XLIGHT • Technics



BASIC STONE

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100166212	○
50 x 150	3,5	100166016	○
100 x 100	3,5	100165999	○
300 x 100	3,5	100124396	●

● Format without minimum production ○ Special production, check availability



matte



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

modular vf



BASIC CLAY

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121515	○
50 x 150	3,5	100153192	○
100 x 100	3,5	100118804	○
300 x 100	3,5	100124109	●

● Format without minimum production ○ Special production, check availability



matte



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

modular vf



BASIC DARK

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121516	○
50 x 150	3,5	100166013	○
100 x 100	3,5	100118805	○
300 x 100	3,5	100124110	●

● Format without minimum production ○ Special production, check availability



matte



meshed



XLIGHT vf
visible clips



XLIGHT vf
concealed clips

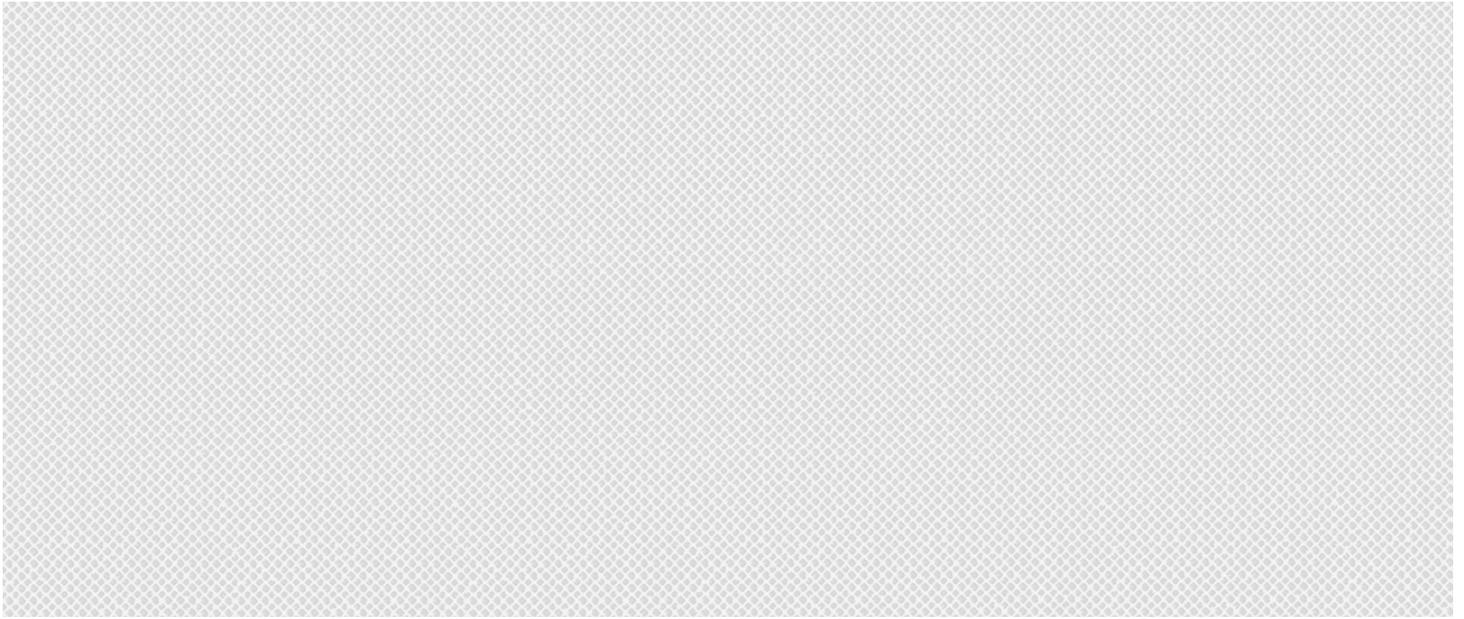


XLIGHT vf RPP
concealed clips



modular vf

XLIGHT • Emotion



EMOTION SNOW

Formats cm	Thickness mm	Codes	Availability
50 x 100	3,5	100121462	○
50 x 150	3,5	100166030	○
100 x 100	3,5	100118787	○
300 x 100	3,5	100124134	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clips

modular vf

Llusar offices, Xilxes, Spain · XLIGHT VF system with concealed clips · XLIGHT Basic Silver Nature 300 x 100 cm



XTONE · Stone



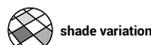
BOTTEGA CALIZA

Formats cm	Thickness mm	Codes	Availability
150 x 300	6	100238436	●
150 x 300	9	100238431	●
154 x 328	12	100238406	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clipsXLIGHT vf
K-Bolt

modular vf



BOTTEGA ACERO

Formats cm	Thickness mm	Codes	Availability
150 x 300	6	100235432	●
150 x 300	9	100238433	●
154 x 328	12	100238404	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed

XLIGHT vf
visible clipsXLIGHT vf
concealed clipsXLIGHT vf RPP
concealed clipsXLIGHT vf
K-Bolt

modular vf

XTONE · Stone



BOTTEGA ANTRACITA

Formats cm	Thickness mm	Codes	Availability
150 x 300	6	100241682	●
150 x 300	9	100241691	●
154 x 328	12	100240675	●

● Format without minimum production ○ Special production, check availability



matte



shade variation



meshed



XLIGHT vf
visible clips



XLIGHT vf
concealed clips



XLIGHT vf RPP
concealed clips

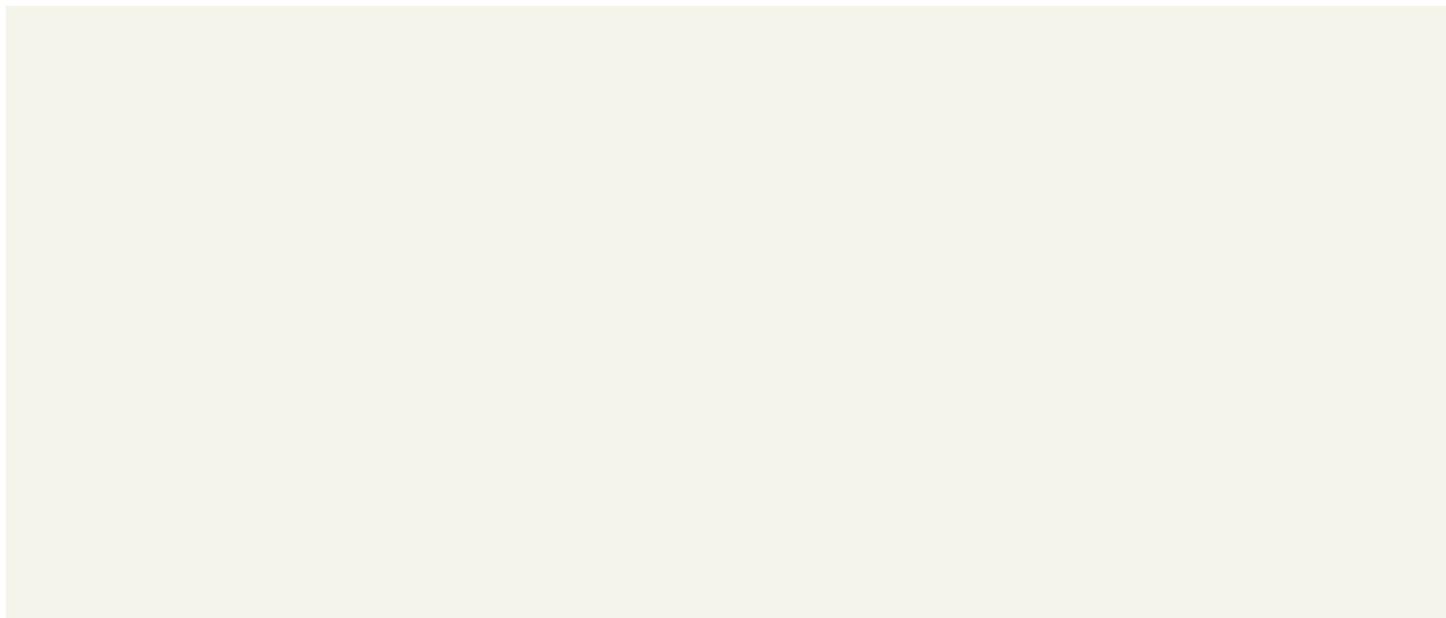


XLIGHT vf
K-Bolt



modular vf

XTONE · Technics



MOON WHITE NATURE

Formats cm	Thickness mm	Codes	Availability
150 x 300	6	100241030	●
150 x 300	9	100235896	●
154 x 328	12	100201531	●

● Format without minimum production ○ Special production, check availability



matte



meshed



XLIGHT vf
visible clips



XLIGHT vf
concealed clips



XLIGHT vf RPP
concealed clips



XLIGHT vf
K-Bolt



modular vf

XLIGHT VF

Ventilated facade system with final porcelain panel covering.

Ventilated facade system with final X LIGHT-type porcelain panel covering. It differs from other systems in its 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 to the facade's metallic structure.

URBATEK's XLIGHT porcelain panels are characterized by their large size, up to 1200 x 2500 mm and 6 mm thickness, very low water absorption - lower than 0.1% as per UNE-EN ISO 10545-3 - and meshed back with fiberglass mesh of to prevent fragments from falling in case of breakage. The panels used in XLIGHT ventilated facades with concealed clips are supplied fixed to a metal substructure, which allows 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 XLIGHT panel 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

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.





Built projects

Residential building, Maidenhead, United Kingdom

XLIGHT VF system with concealed clips · XLIGHT Code Beige, XLIGHT Code Coal, XLIGHT Code Grey y XLIGHT Emotion Snow 300 x 100 cm

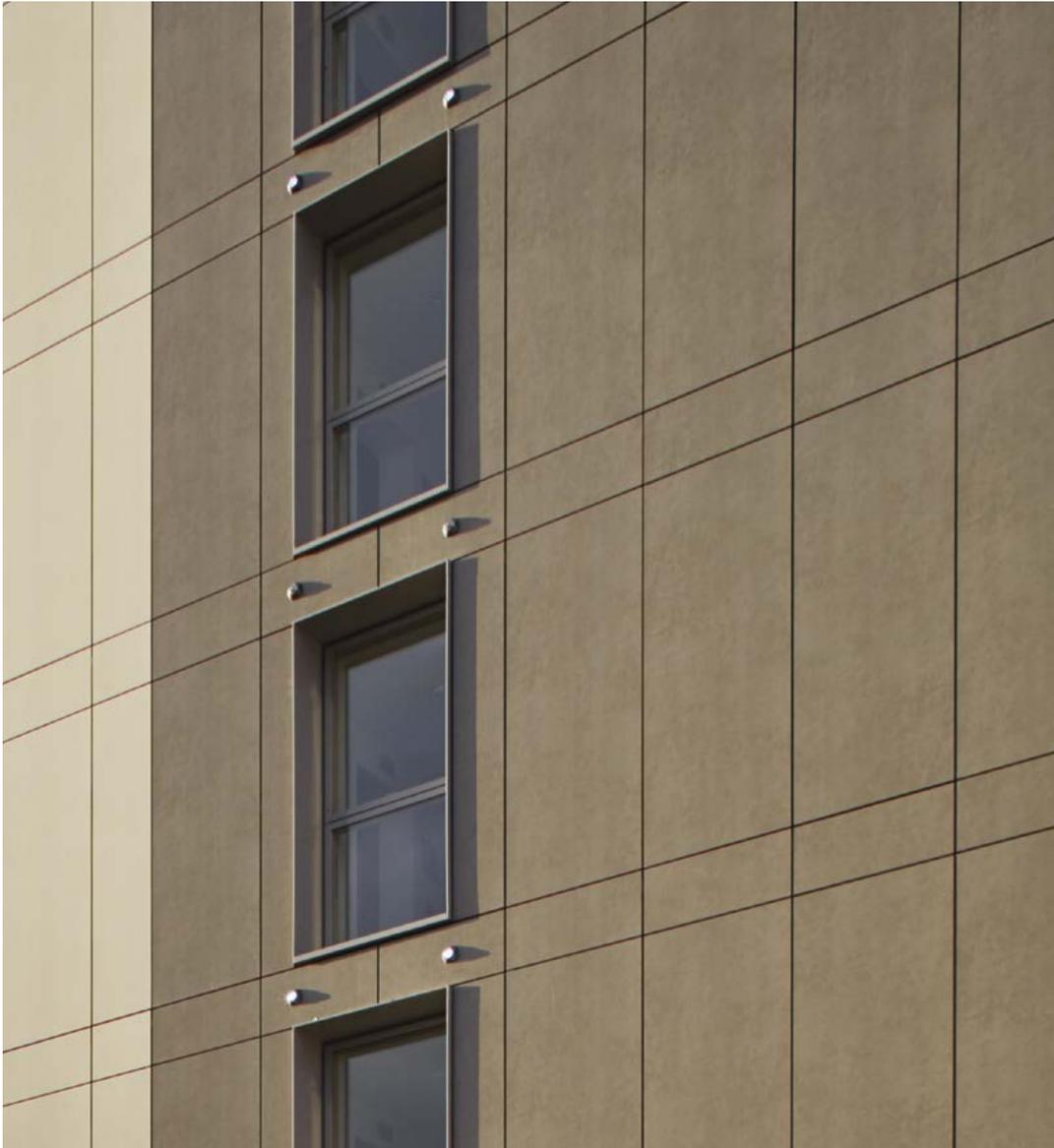
Architect: Goddard Manton Architects

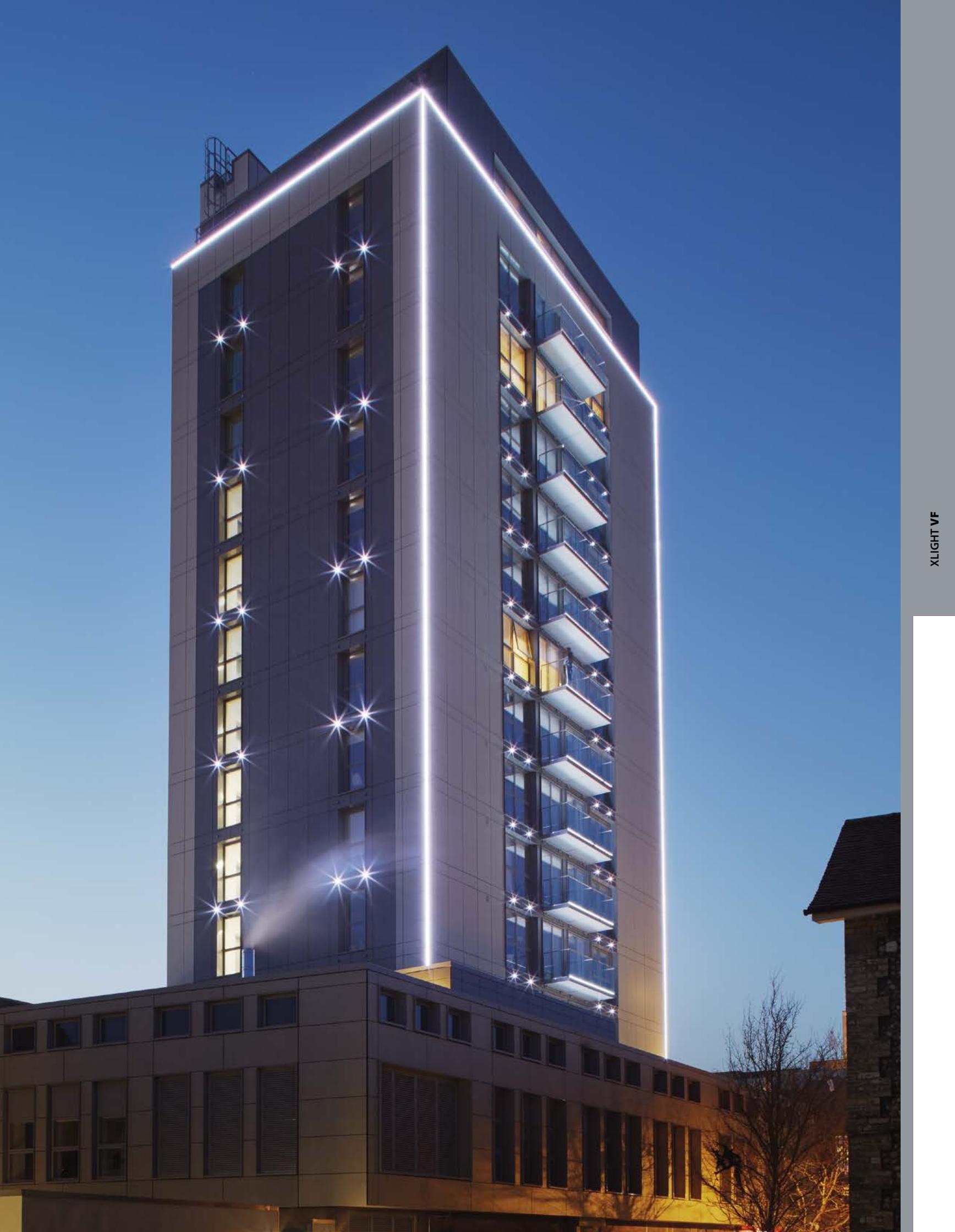


Built projects

Residential building, Maidenhead, United Kingdom

XLIGHT VF system with concealed clips · XLIGHT Code Beige, XLIGHT Code Coal, XLIGHT Code Grey and XLIGHT Emotion Snow 300 x 100 cm · Architect: Goddard Manton Architects



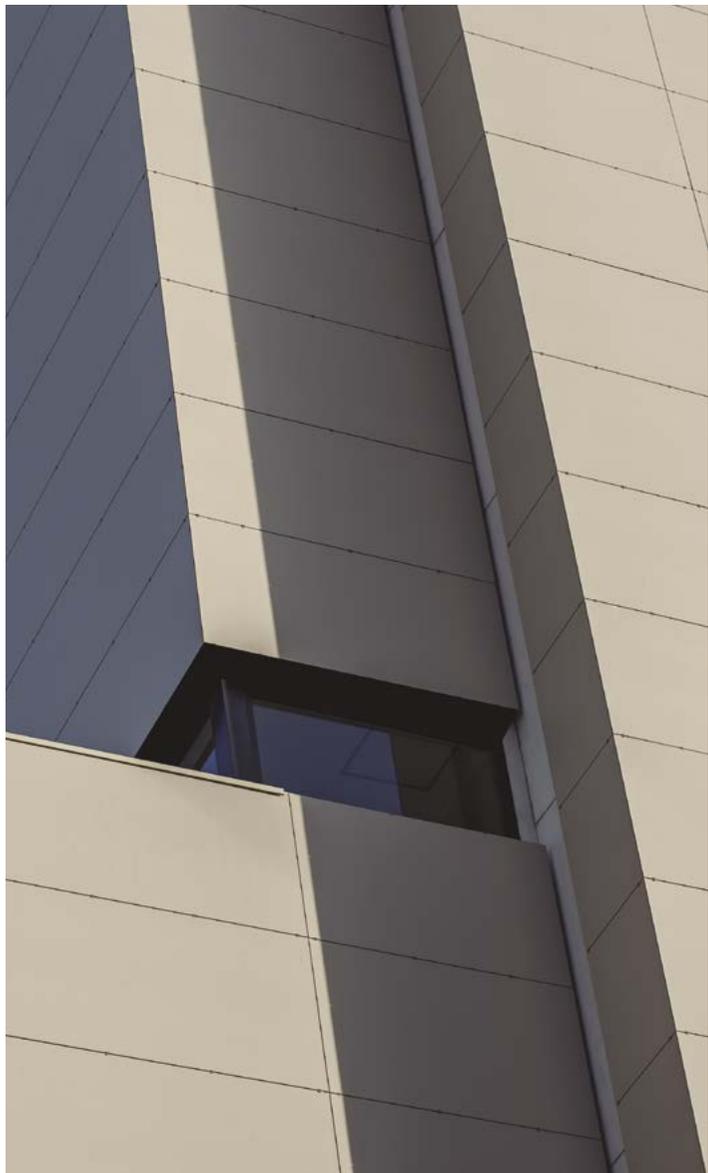


Built projects

Paseo Aldrey - Centro cultural y Comercial, Mar de Plata, Argentina · XLIGHT VF system with visible clips

XLIGHT Basic Sand and XLIGHT Basic Dark 300 x 100 cm · Architect: Estudio de arquitectura Mariani-Pérez Maraviglia

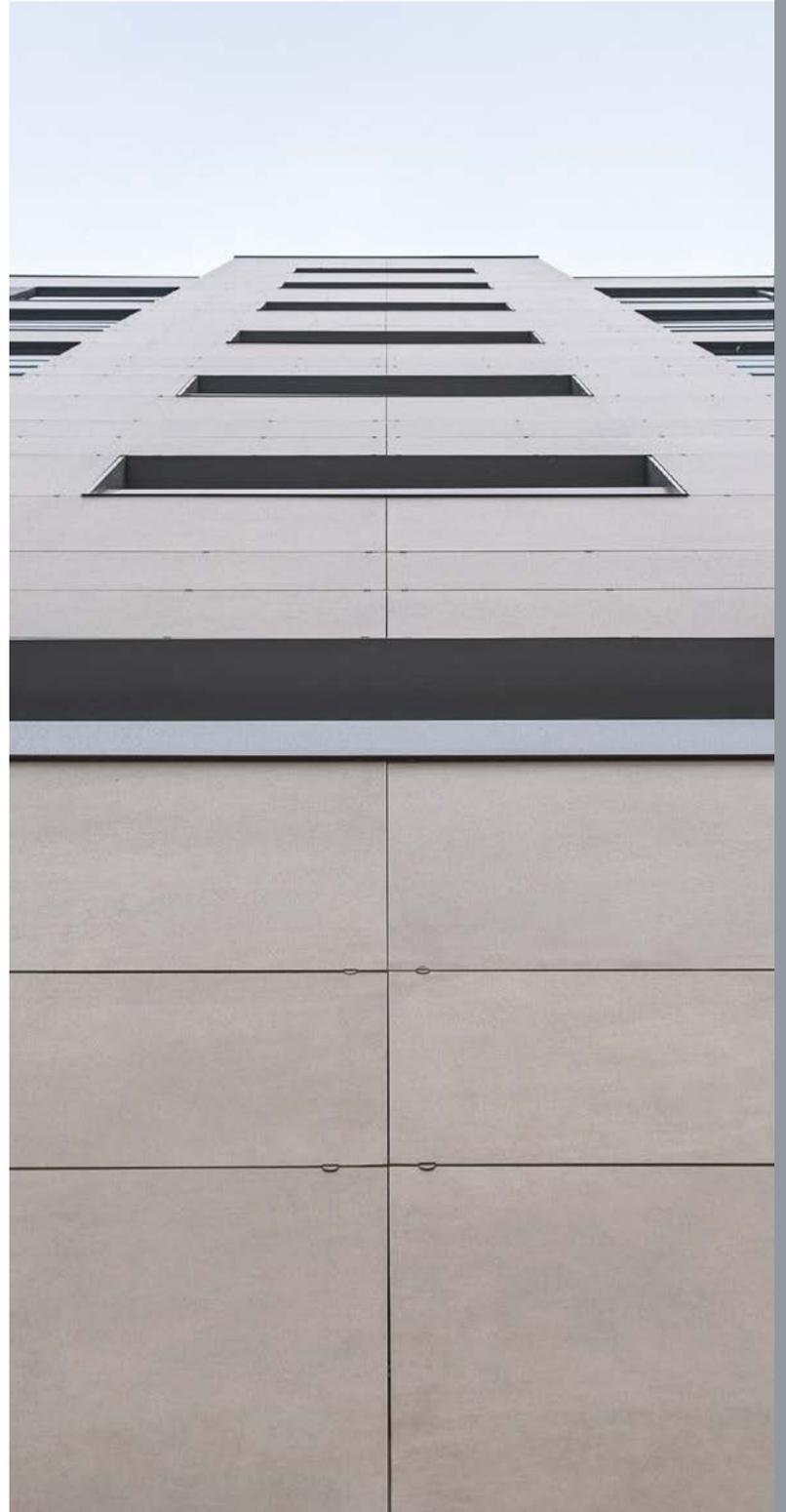




Built projects

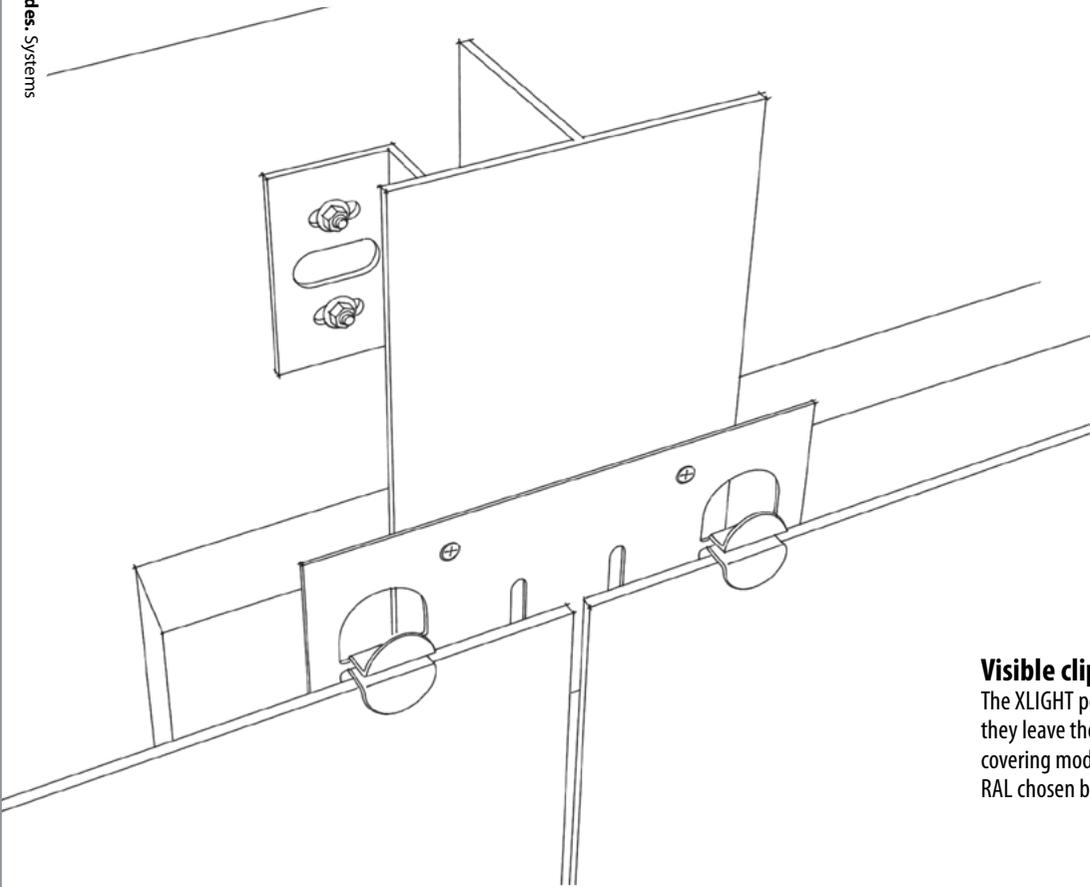
Residential building, San Sebastián de los Reyes, Madrid, Spain · XLIGHT VF system with visible clips · XLIGHT Code White 300 x 100 cm
FV-KER system with concealed clips · URBATEK Concrete Black 90 x 45 cm · Architect: EMA Arquitectos





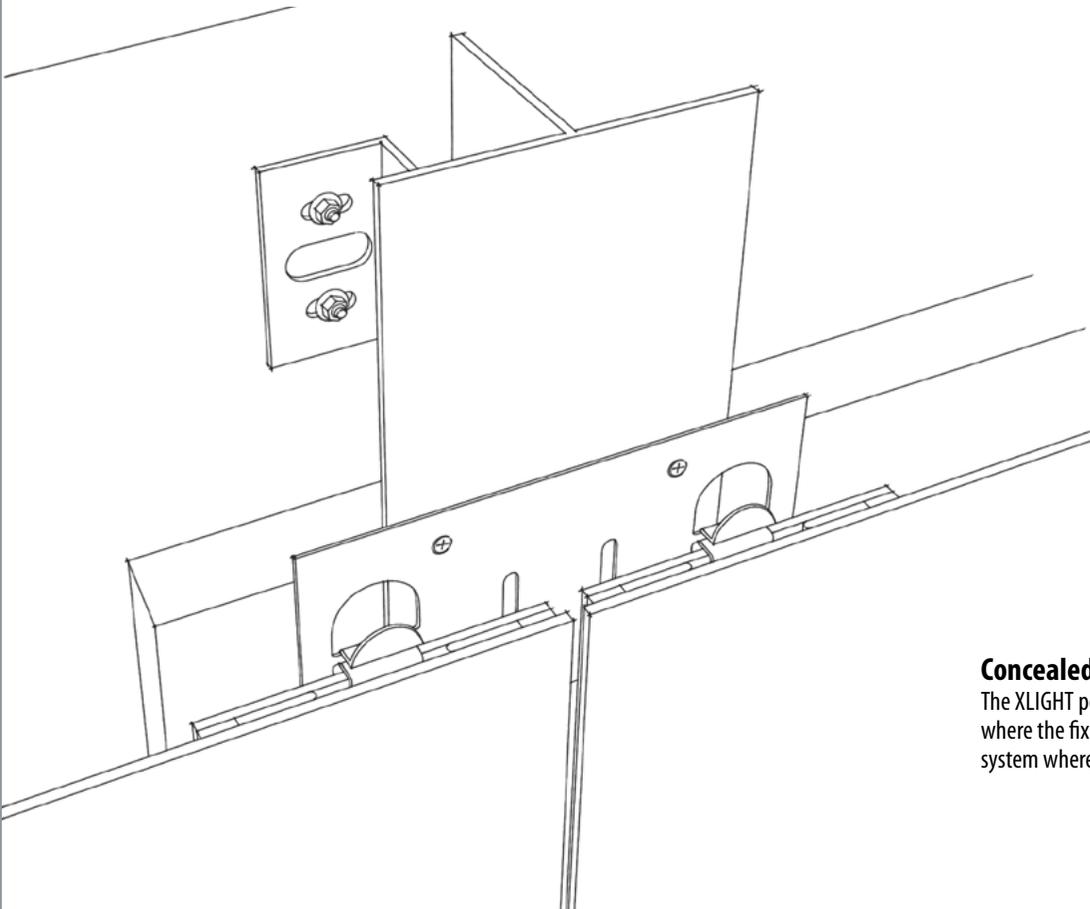
Facade types

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



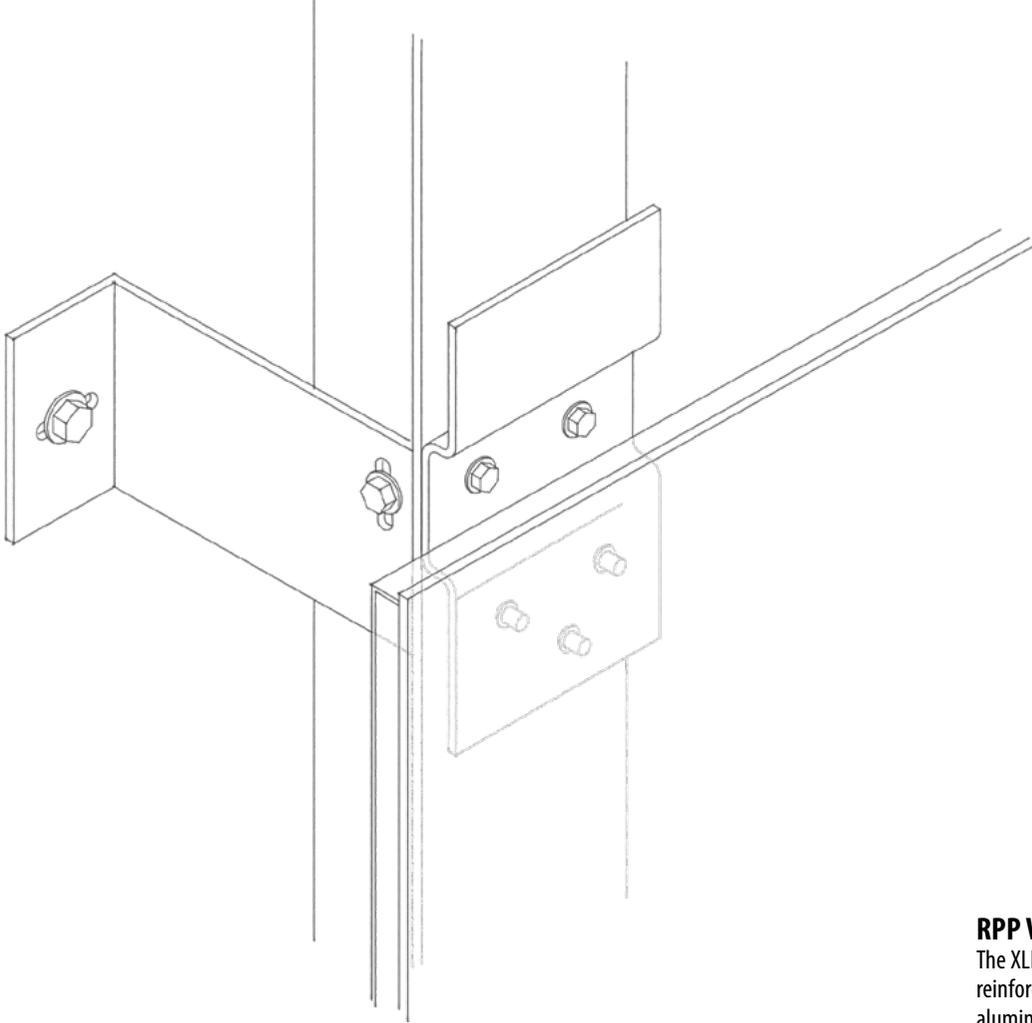
Visible clips.

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.



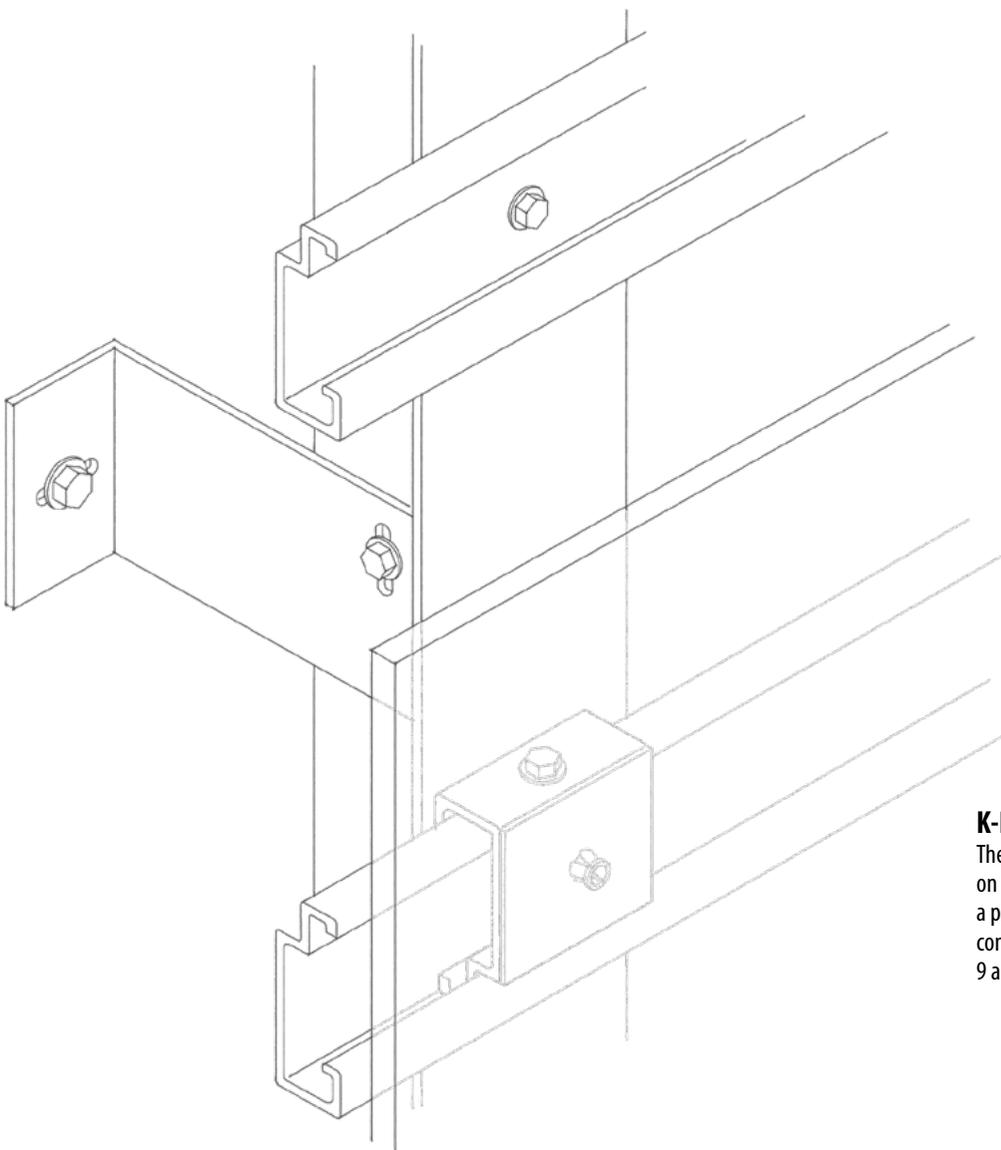
Concealed clips.

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.



RPP VF System concealed clips.

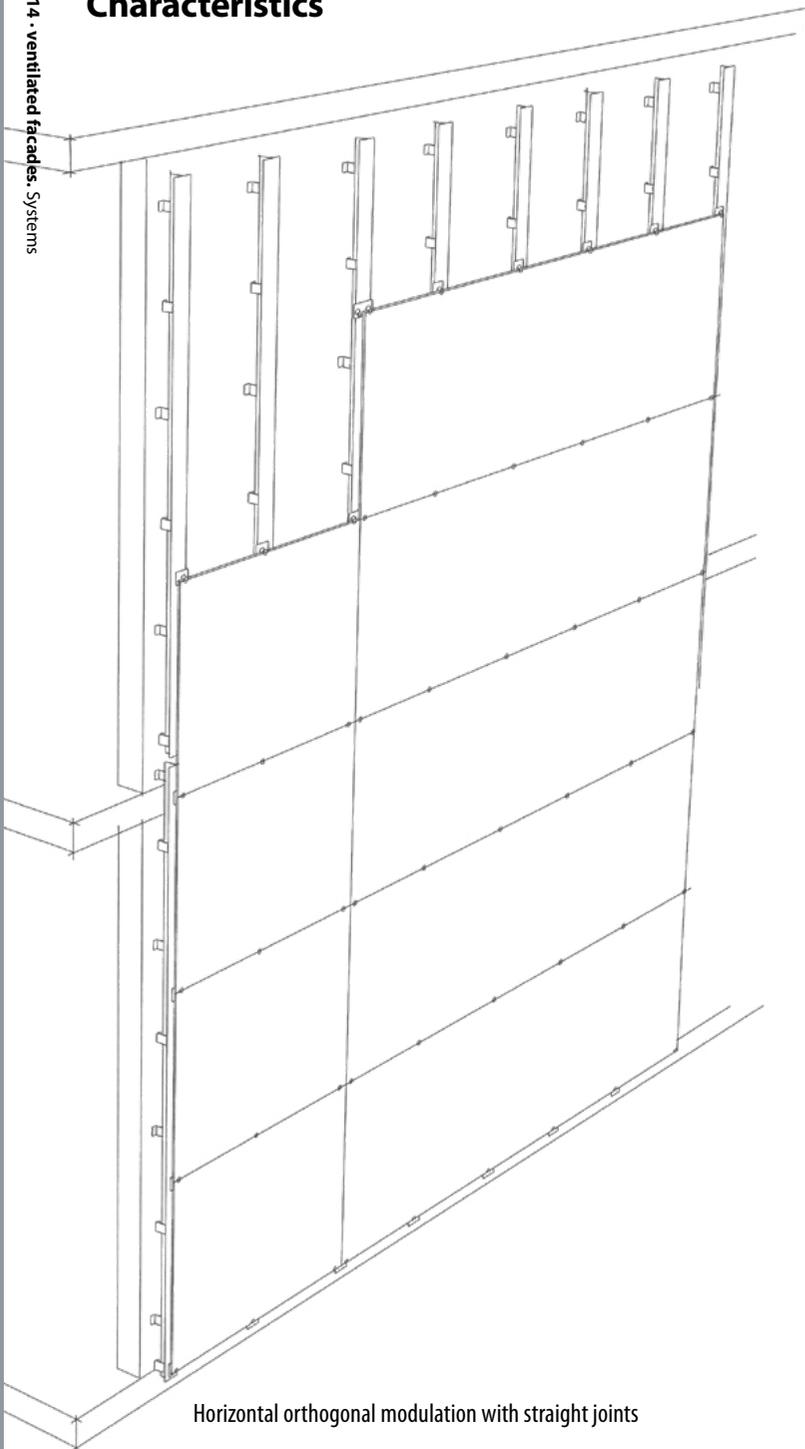
The XLIGHT porcelain panels are supplied with a back reinforcement made up of a 10 mm thick PET panel covered with aluminium, which allows the fixing of the fixing plates clips to the profiles.



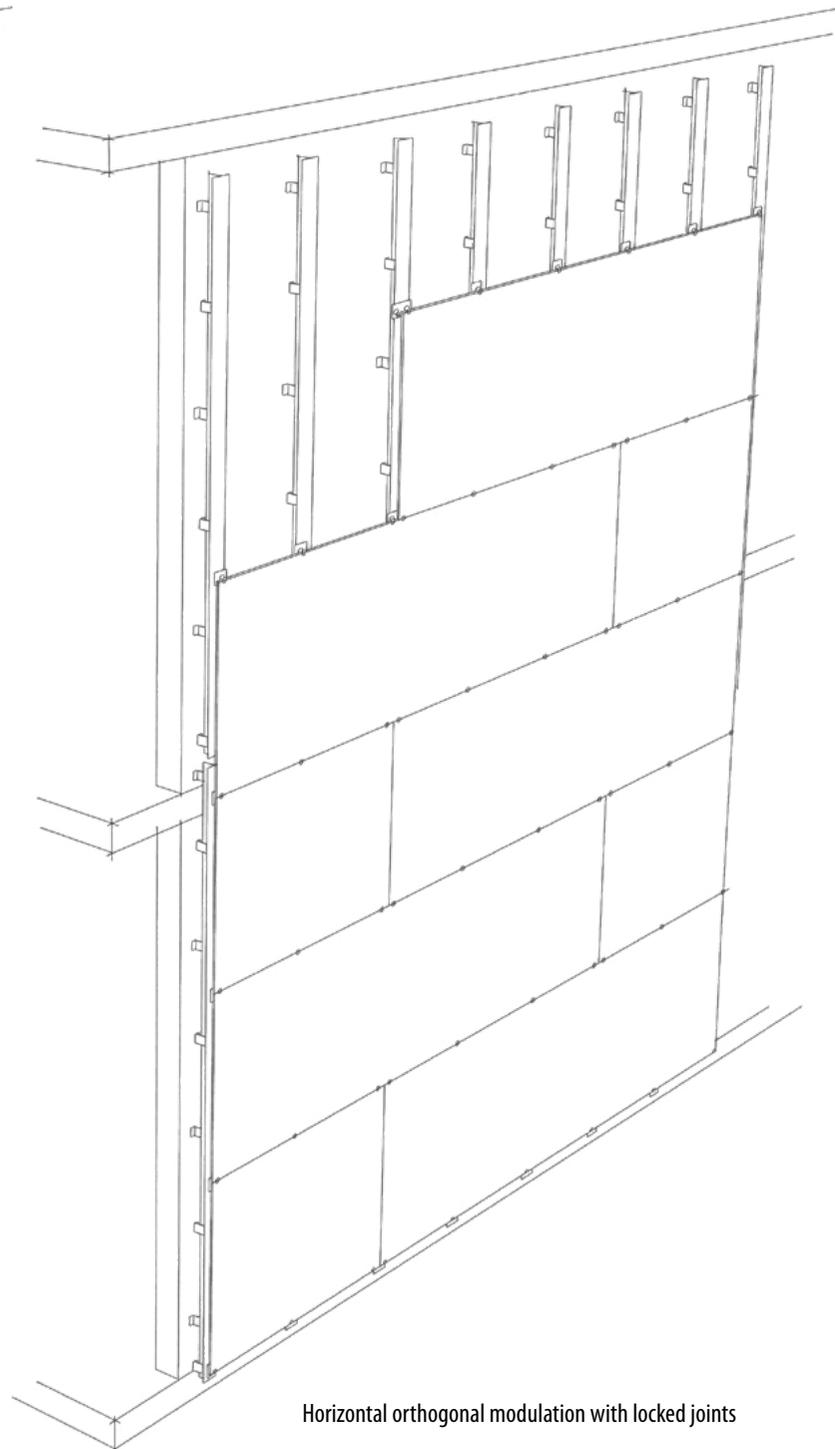
K-BOLT VF System concealed clips.

The XLIGHT porcelain panels are supplied with anchors inserted on the back of the pieces through expandable screws that fit into a profiles system attached to the facade structure, remaining completely hidden from view. This system is valid only for XLIGHT 9 and 12 mm thick panels.

Characteristics



Horizontal orthogonal modulation with straight joints



Horizontal orthogonal modulation with locked joints

Facade structure.

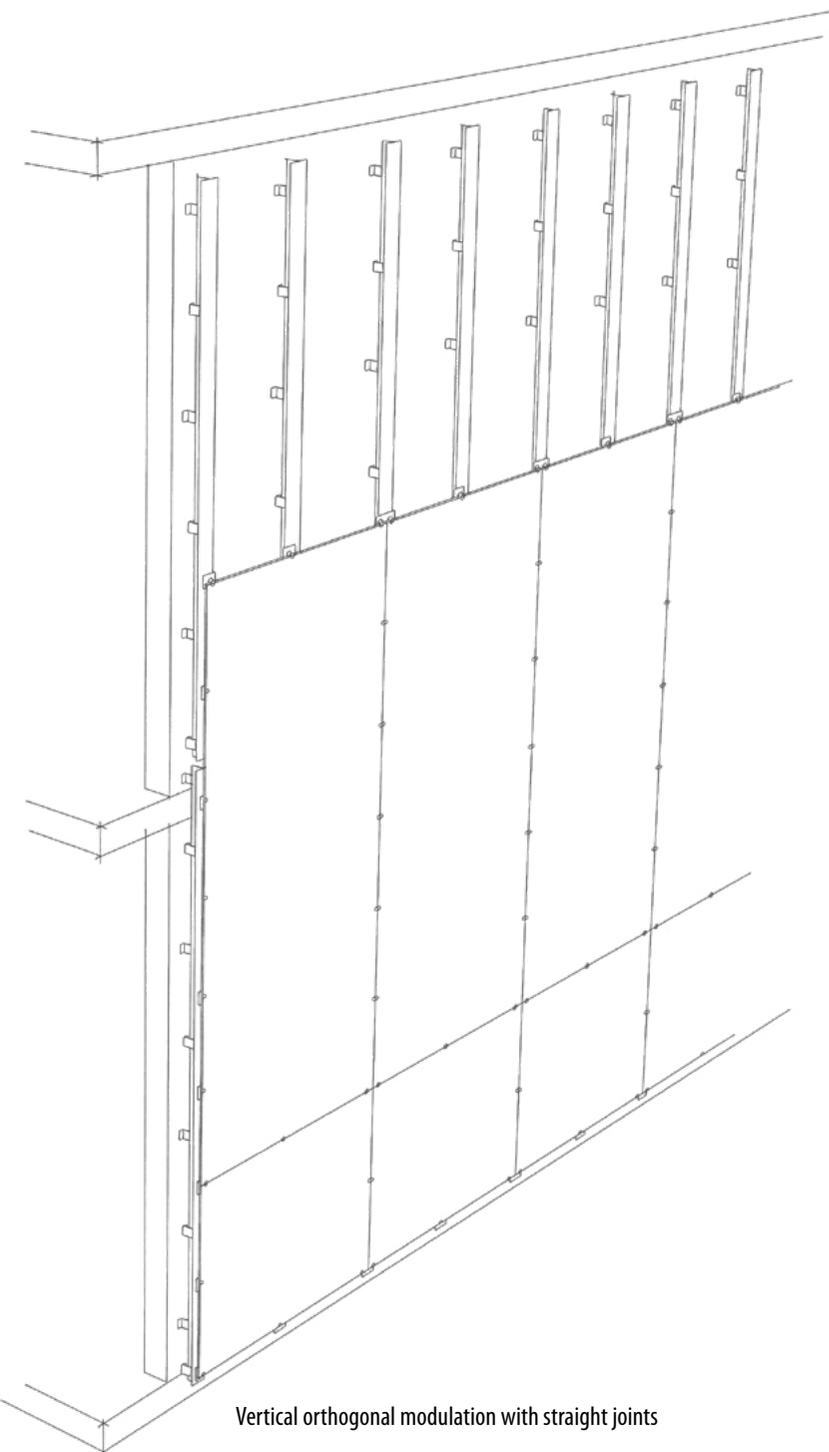
Main characteristics:

- 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.

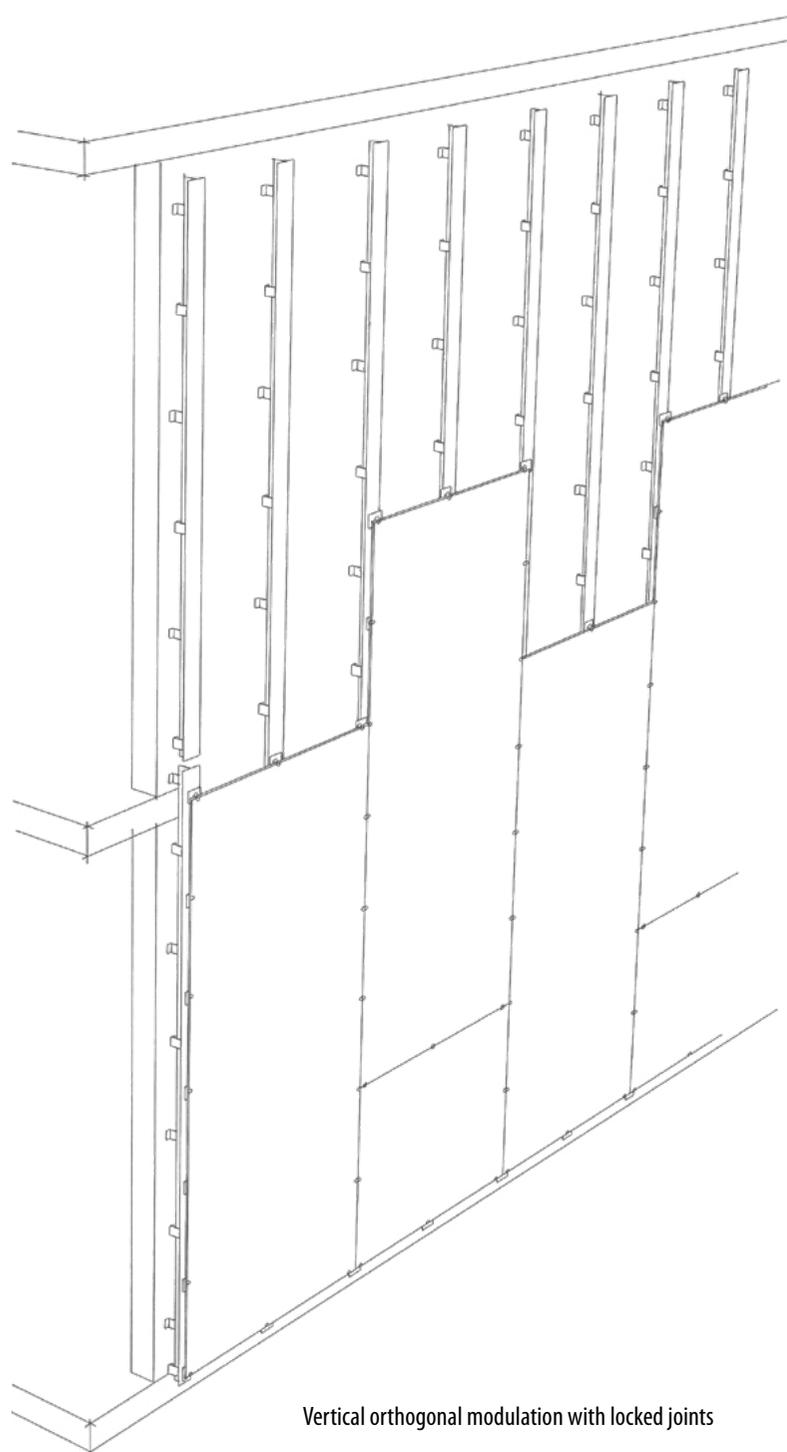
Modulation of the facade.

Main characteristics:

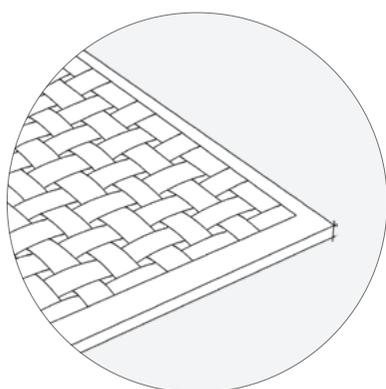
- Reduced presence of installation joints.
- Modulation on one plane and leveled with the facade.
- Horizontal or vertical orthogonal modulation.
- Modulation with straight or locked joints.
- Horizontal installation joints between 5 and 8 mm wide.
- Vertical installation joints starting at 1 mm wide.



Vertical orthogonal modulation with straight joints



Vertical orthogonal modulation with locked joints

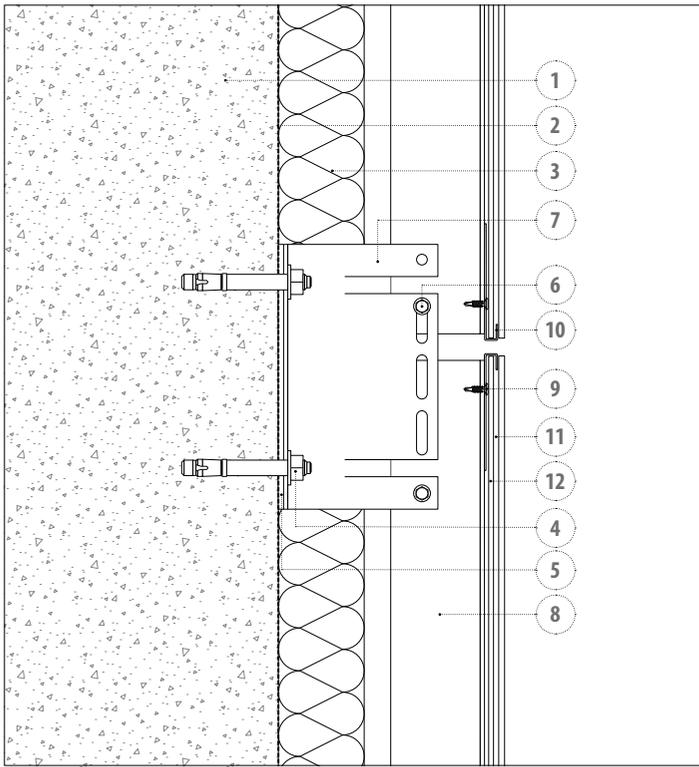


URBATEK XLIGHT panels

Main characteristics:

- Exclusive design of PORCELANOSA Grupo.
- Large format: up to 1000 x 3000 mm in the XLIGHT lines.
- 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.

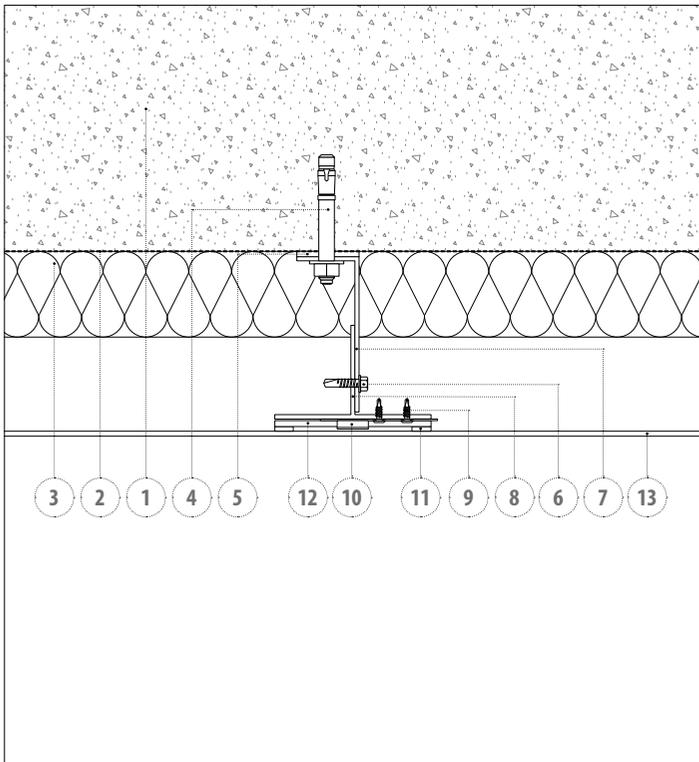
Construction details · Concealed clip system



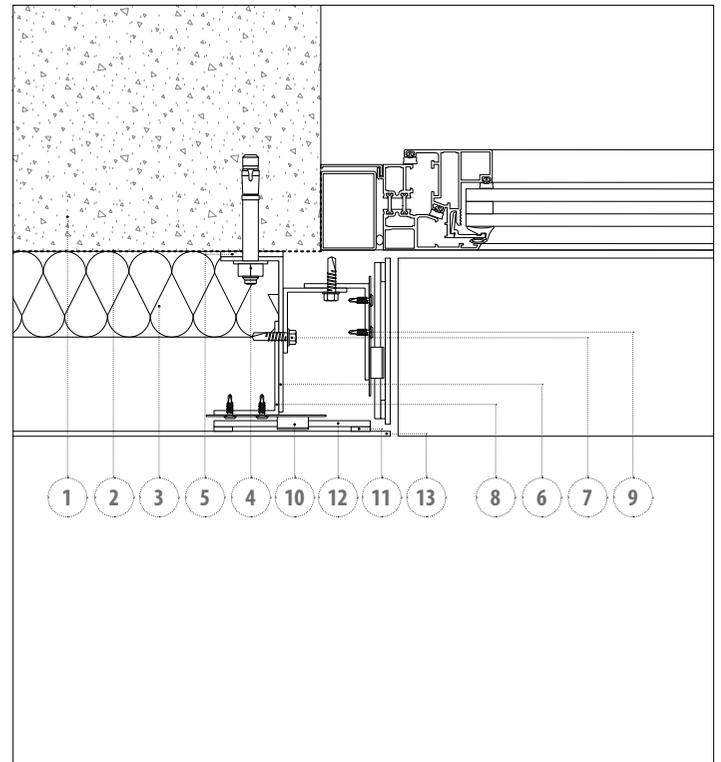
Vertical cross-section

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

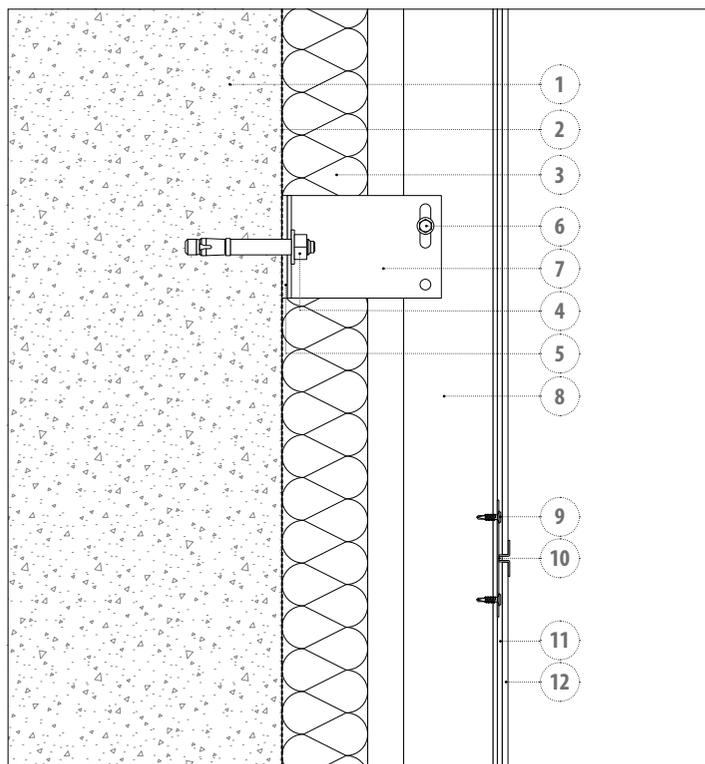


Horizontal cross-section



Jamb

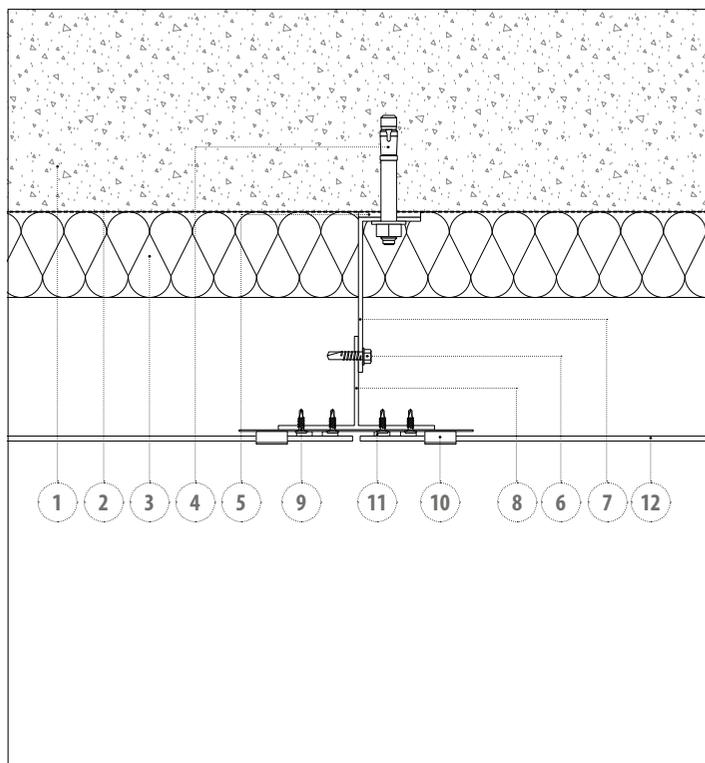
Construction details • Visible clip system



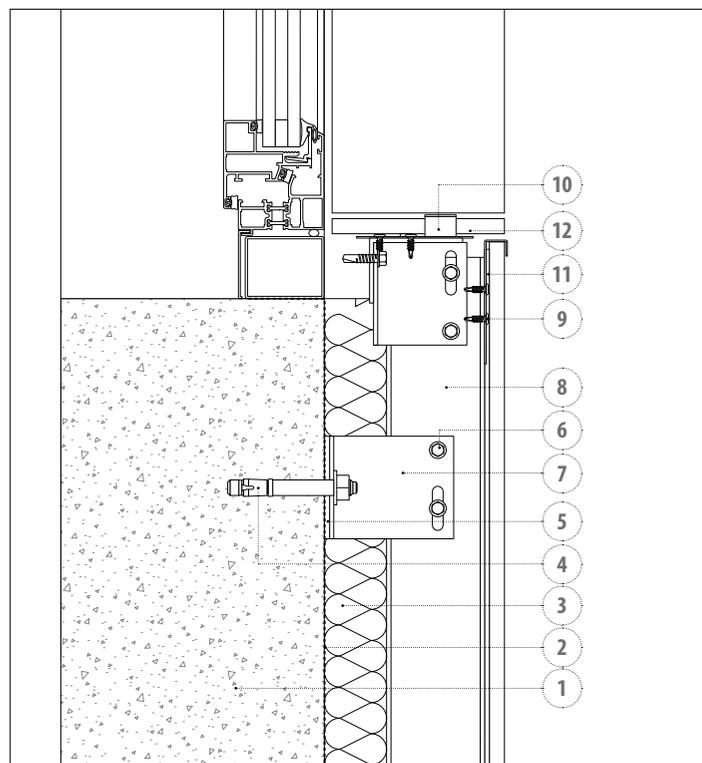
Vertical cross-section

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. Visible clip
11. Polymer adhesive
12. XLIGHT

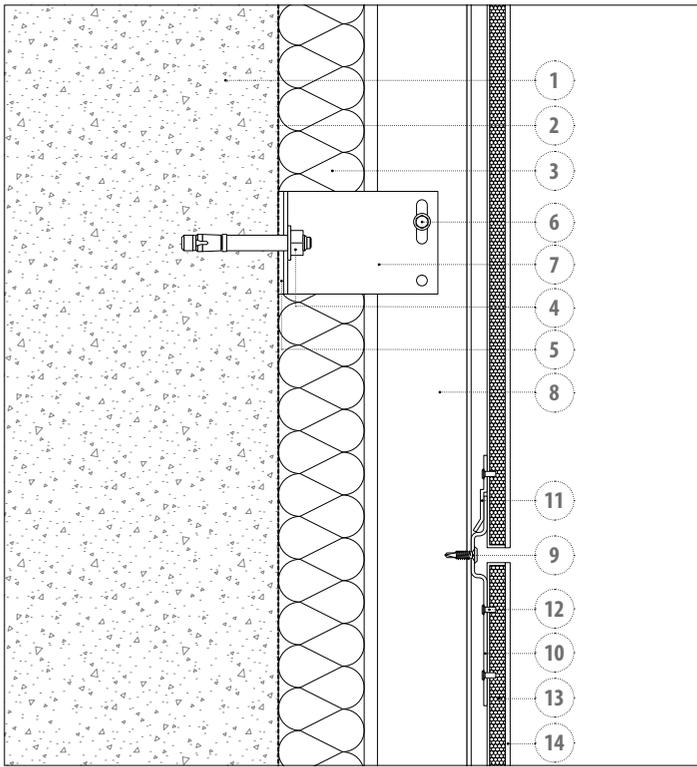


Horizontal cross-section



Sill

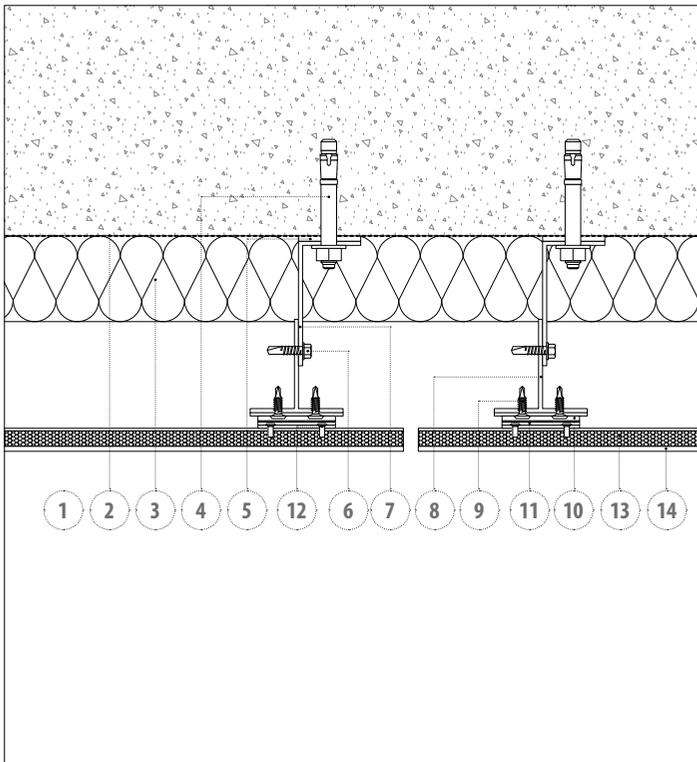
Construction details · RPP concealed clip system



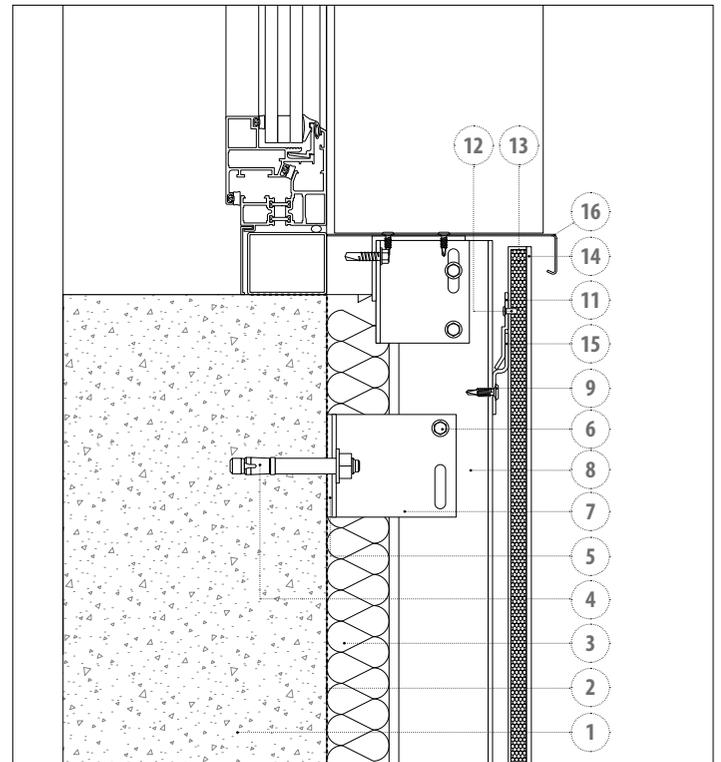
Vertical cross-section

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. K-Bolt main fixing clip
11. K-Bolt secondary fixing clip
12. Attachment Rivet
13. PET panel
14. XLIGHT
15. -BOLT supporting clip
16. Metal window casings

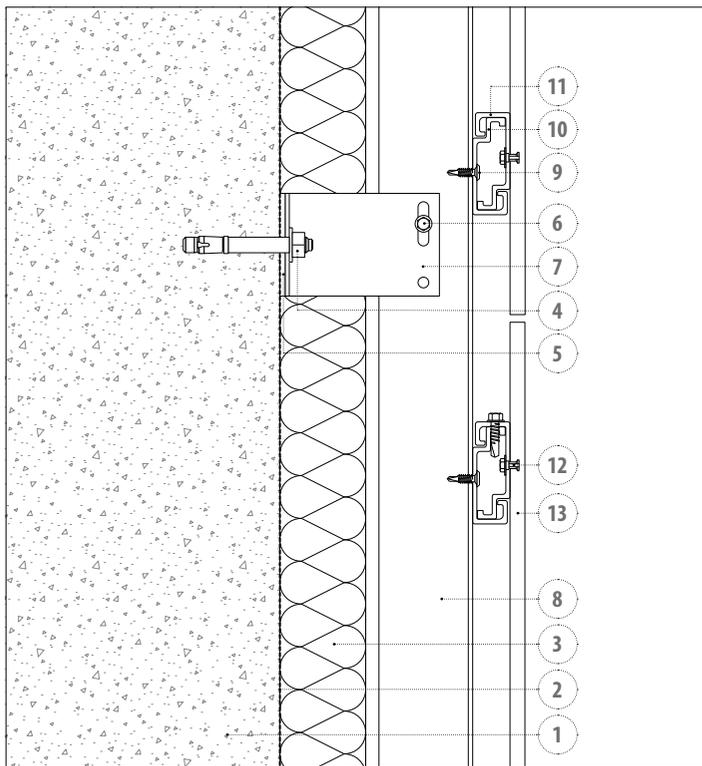


Horizontal cross-section



Sill

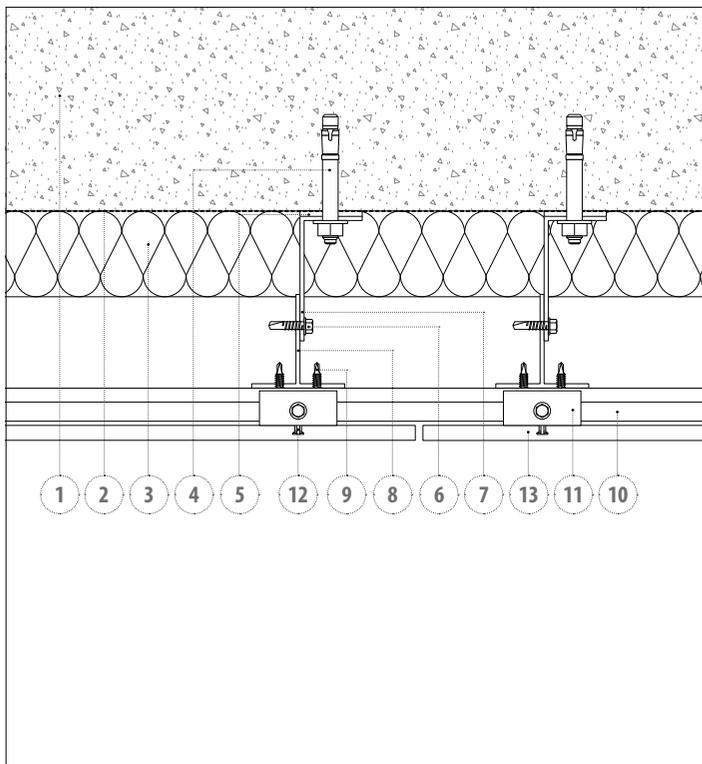
Construction details • K-BOLT concealed clip



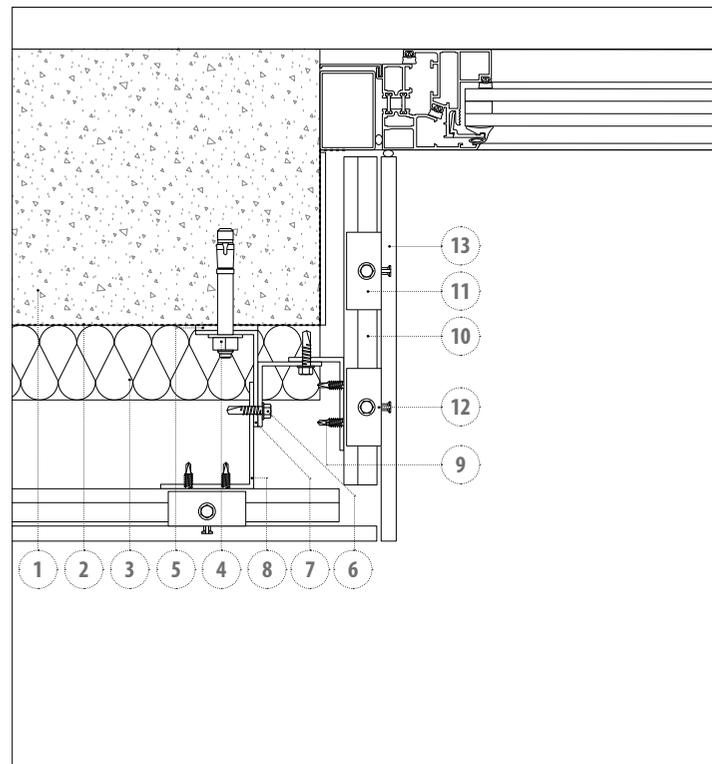
Vertical cross-section

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-shaped aluminum spacer
8. Aluminum T-shaped upright
9. Self-drilling screw
10. K-Bolt main fixing clip
11. K-Bolt secondary fixing clip
12. K-Bolt screw
13. XTONE



Horizontal cross-section



Jamb

Modular VF

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 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**.

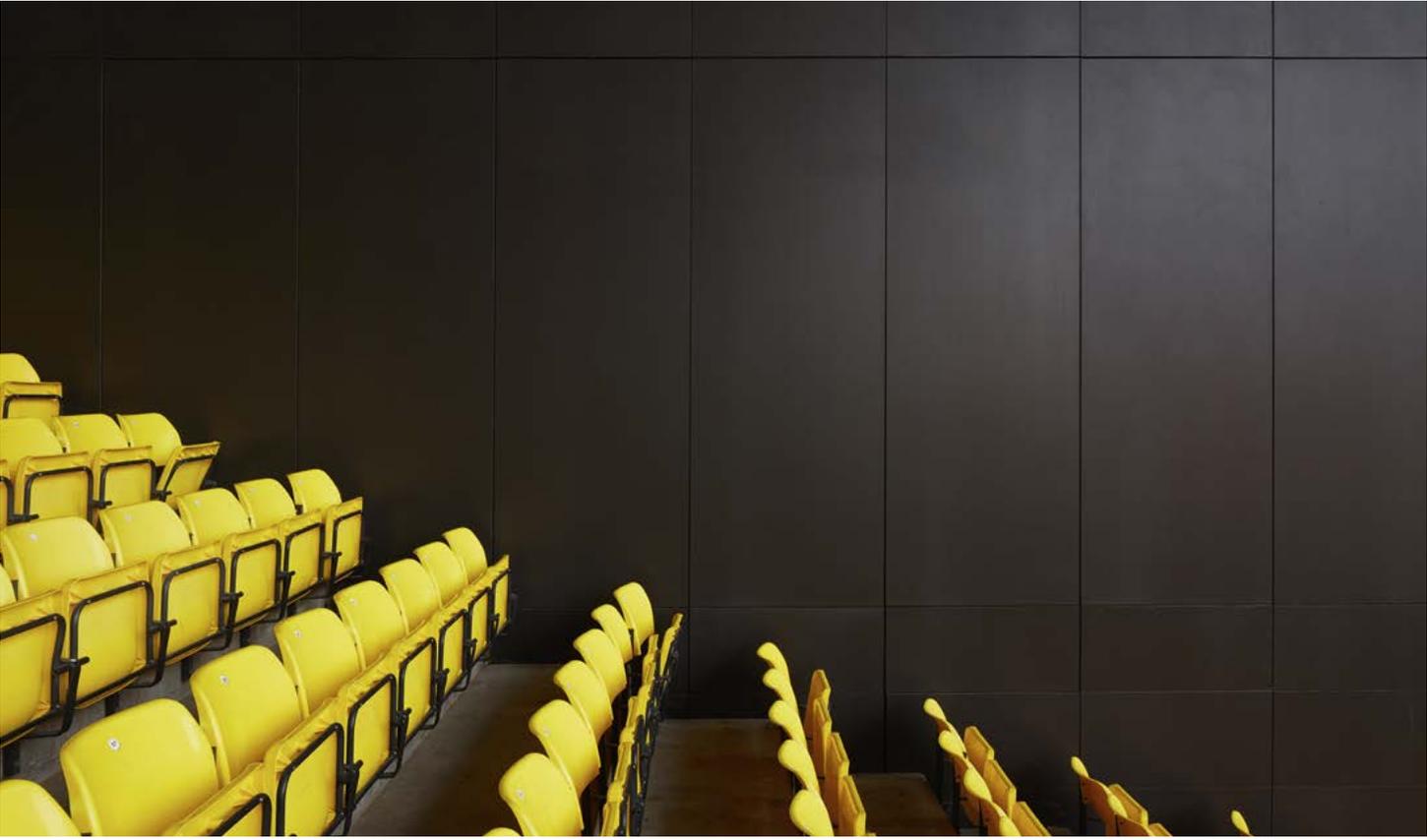


Office building, Madrid, Spain
Modular VF System - XLIGHT Code White 300 x 100 cm

Built projects

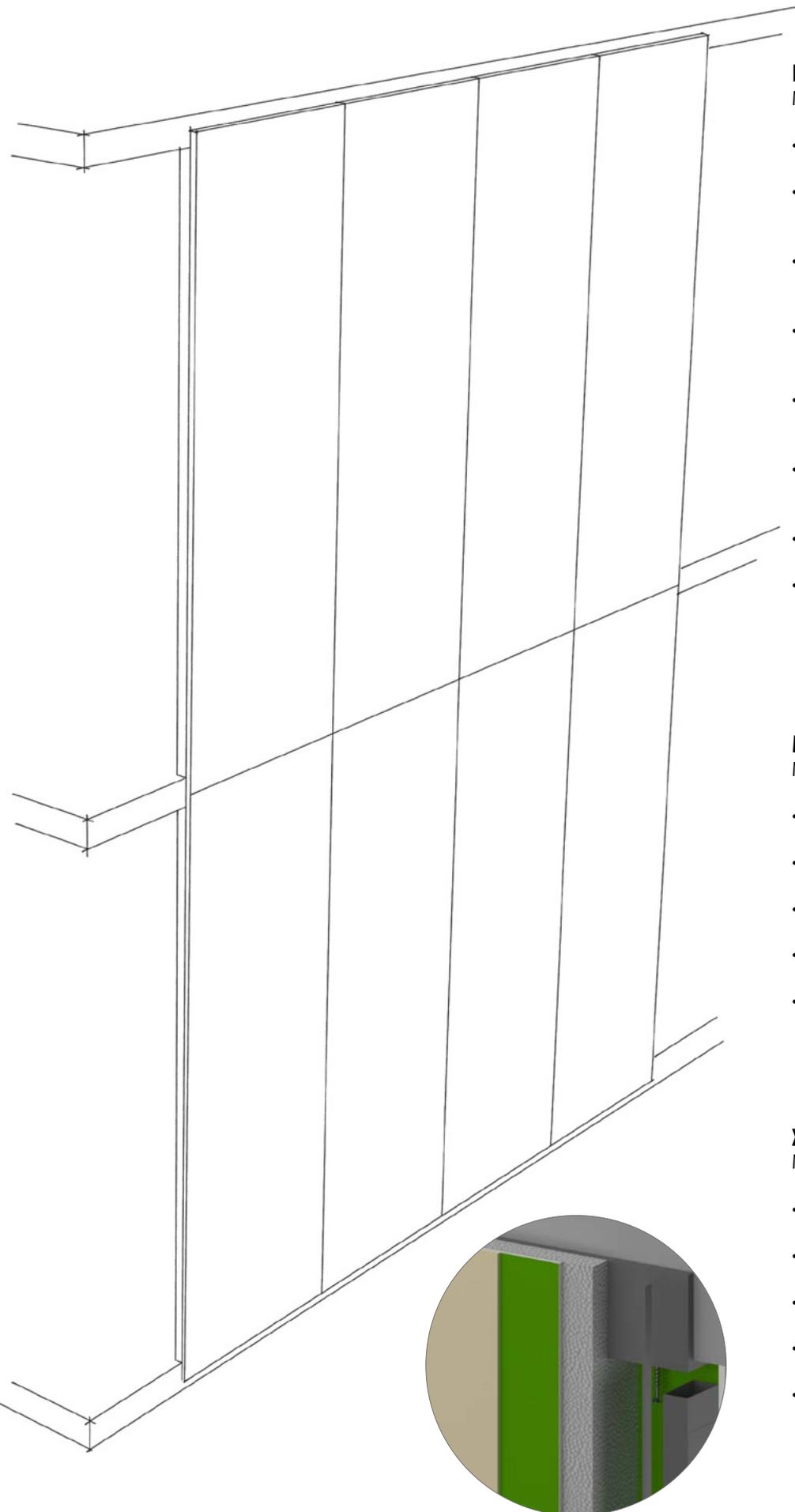
Vicarage Road Stadium, Watford, United Kingdom · Modular VF System · XLIGHT Basic Dark 300 x 100 cm · Architect: D. Guillermo Sánchez Galdó







Characteristics



Facade system.

Main characteristics:

- Facade anchoring direct to the building structure.
- Applicable to most structure and enclosure types used in construction.
- Prefabricated enclosure panels, 140 x 1000 x 3000 mm and 25 kg/m²
- Facade panels are supplied finished from the factory, which prevents handling costs or on-site transforming.
- Fast installation, allowing for the reduction of construction time and costs compared to other traditional enclosure systems.
- Facade assembly from the inside of the building, thus avoiding the need for scaffolding and reducing the costs of lifting.
- Excellent thermal insulation level.
- 100% Recyclable system components.

Modulation of the facade.

Main characteristics:

- Potential for modulation of one panel per building floor.
- Reduced presence of installation joints; only vertical ones.
- Modulation on one plane and leveled with the facade.
- Vertical orthogonal modulation with a straight joint.
- 5 mm Wide vertical installation joints.

XLIGHT panels by URBATEK.

Main characteristics:

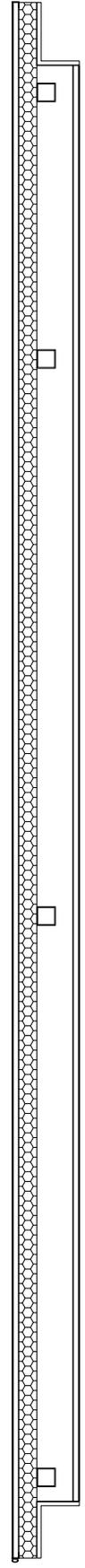
- Exclusive design of PORCELANOSA Grupo.
- Large format: up to 1000 x 3000 mm.
- Minimal thickness: 3.5 mm²
- Extremely light panels: 9 - 12 kg/m²
- Weather resistant; the appearance of the panels remains unchanged with the passing of time. Resistant to paint stains or graffiti.

Construction details · Modular VF

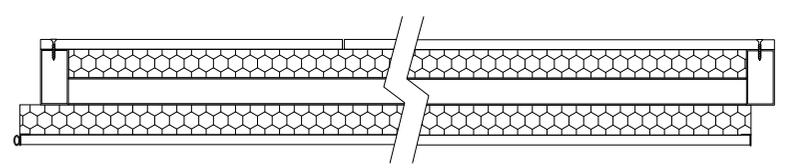
126 · ventilated facades · Systems



Opening vertical cross-section

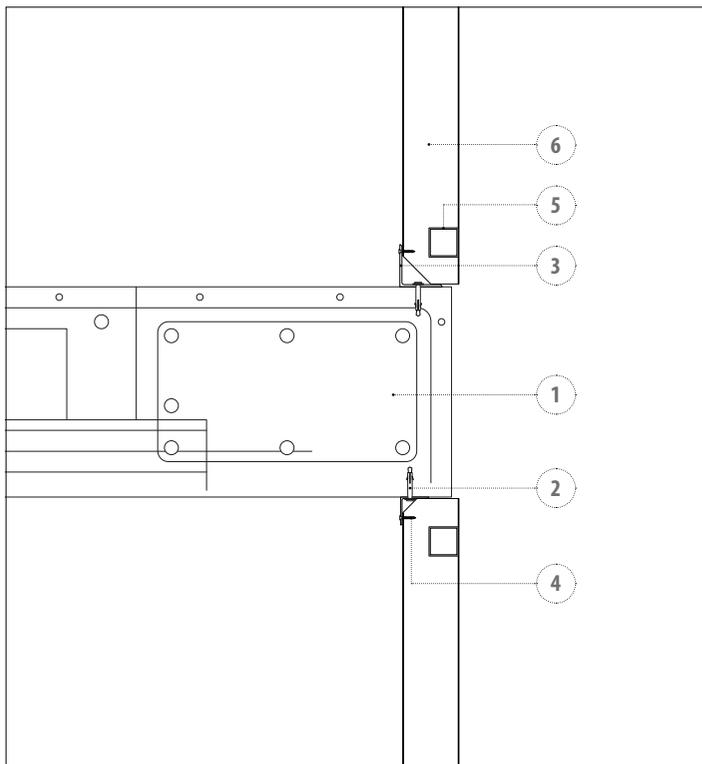


Panel vertical cross-section



Horizontal cross-section

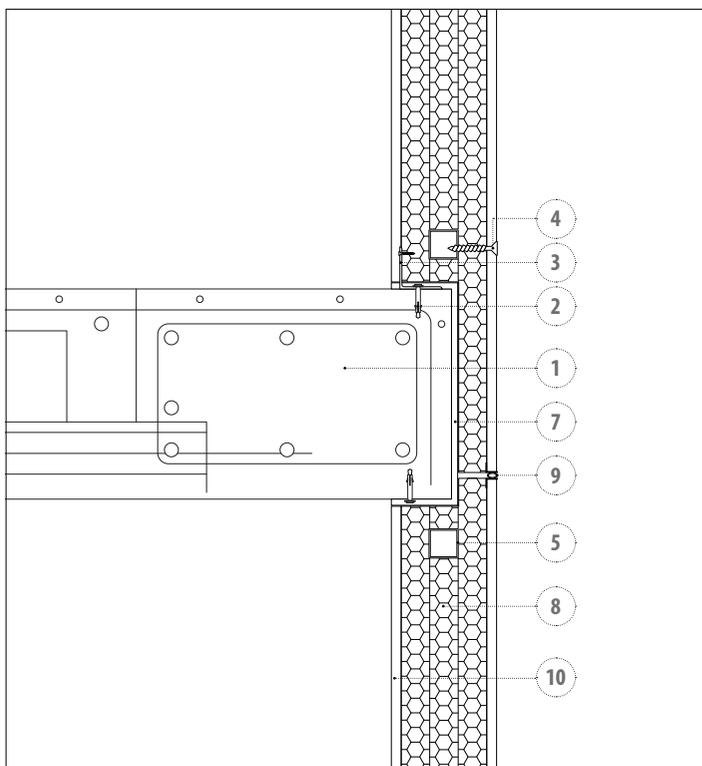
Construction details • Modular VF



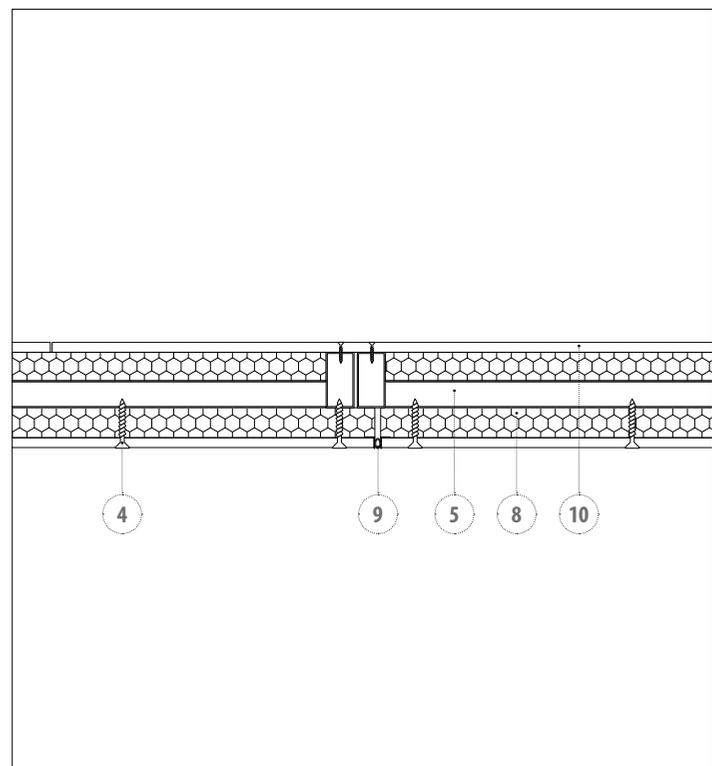
Vertical cross-section. Structure

Elements of the system:

1. Concrete support
2. Mechanical anchoring to slab
3. 60.60.2 L-shaped profile
4. Self-drilling screw
5. 40.40.2 Steel tube
6. 80.40.2 Steel tube
7. Slab-adjustment foam
8. Expanded polystyrene EPS
9. EPDM Joint
10. FERMACELL Panel



Vertical cross-section. Panel



Horizontal cross-section. Joint between panels

KRION®

Due to its non-porosity and proven resistance to adverse weather, the mineral compact from PORCELANOSA Grupo is also an ideal material for the design of facades.

KRION® is a new generation solid surface developed by SYSTEM-POOL, a company from Grupo PORCELANOSA. It is a mineral compact that is like natural stone. It is composed of two-thirds of natural minerals and a low percentage of high-resistance resins that provide it with exclusive characteristics: lack of pores, anti-bacterial, hardness, strength, durability, ease of repair, low maintenance, and easy to clean.

The Lux version is worked similarly to wood, which lets us cut the panels of this mineral compact, assemble them, thermo-shape them to make curved pieces, thus being able to build different designs and projects that would be unattainable with other materials such as ceramics.

Formats

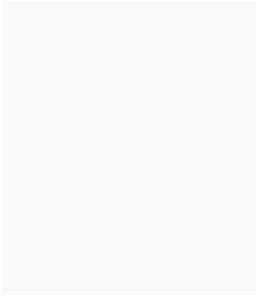
3680 x 760 x 12 mm

KRION® panels can be bonded together to form totally uniform larger panels, without being able to see the joints. The maximum recommended surface for KRION® is 6000 x 3670 mm, which can be modified depending on the characteristics of the project as well as its location.

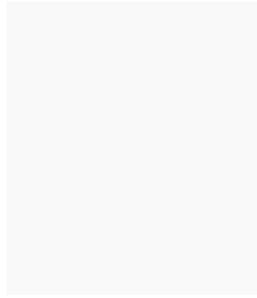
Apartment building, Valdevebas, Madrid, Spain · KRION VF System · KRION® 1100 Snow White · Architect: Morph Estudio



KRION® · Snow Series K

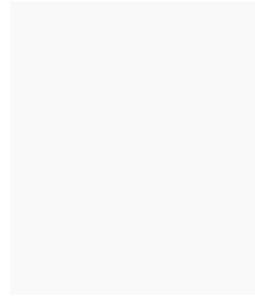


SNOW WHITE K-LIFE
Page 134 · Formats (cm)
368x76



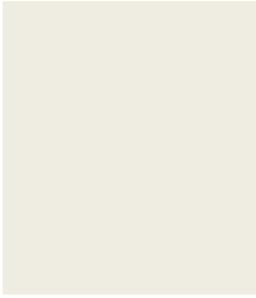
1100. SNOW WHITE
Page 134 · Formats (cm)
368x76

KRION® · Light Series K

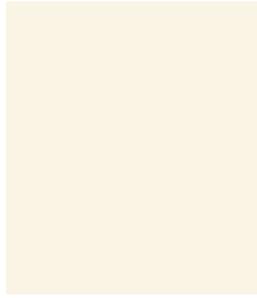


4102. EXTREME LIGHT
Page 134 · Formats (cm)
368x76

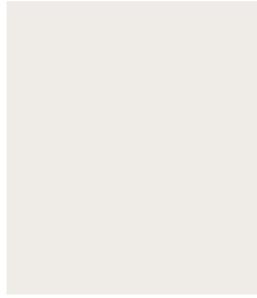
KRION® · Colors Series K



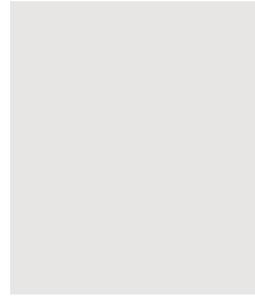
6101. FROST WHITE
Page 135 · Formats (cm)
368x76



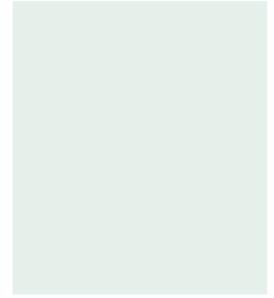
6501. CREAM
Page 135 · Formats (cm)
368x76



6502. PEARL
Page 135 · Formats (cm)
368x76



6902. LIGHT GREY
Page 136 · Formats (cm)
368x76



6703. SANTORINI BLUE
Page 136 · Formats (cm)
368x76



6506 GREGGIO
Page 136 · Formats (cm)
368x76



6203. SENAPE
Page 135 · Formats (cm)
368x76



6908. SCOMMETTO
Page 137 · Formats (cm)
368x76

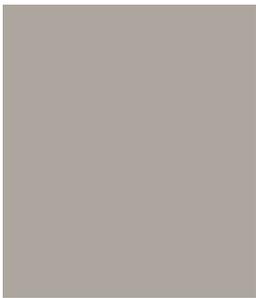


6509. MOAI
Page 136 · Formats (cm)
368x76



6903. GREY
Page 137 · Formats (cm)
368x76

KRION® · Colors + Series K



6909. COLOSSEO GREY
Page 137 · Formats (cm)
368x76



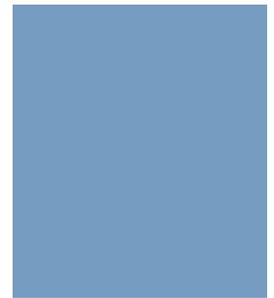
6301. FRUIT
Page 138 · Formats (cm)
368x76



6405. HAPPY RED
Page 138 · Formats (cm)
368x76



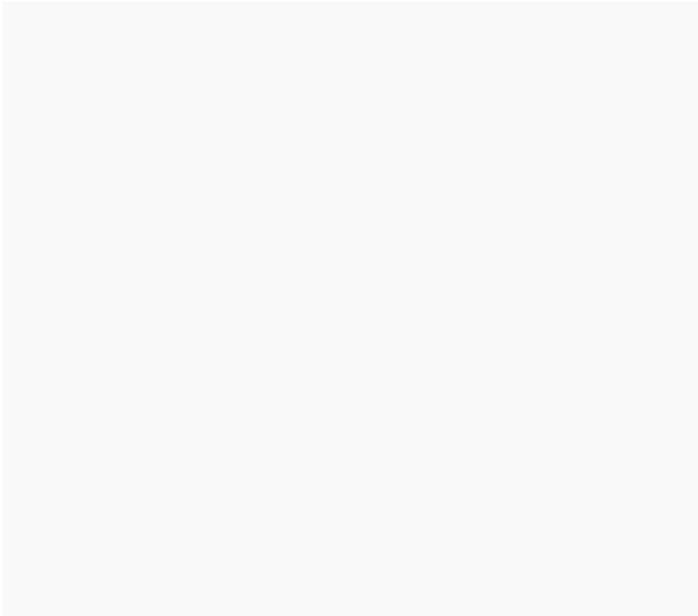
6504. MOCHA
Page 138 · Formats (cm)
368x76



6701. BLUE SKY
Page 138 · Formats (cm)
368x76



KRION® · Snow Series



SNOW WHITE K-LIFE

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100208204	●

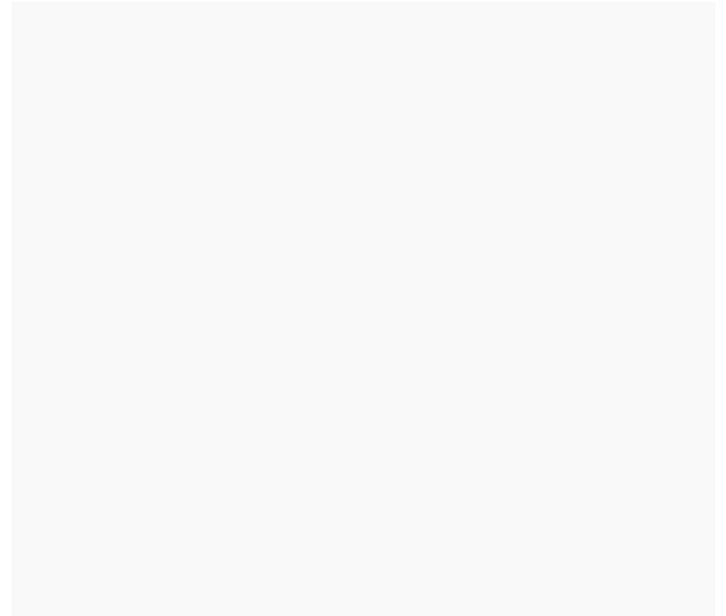
● Format without minimum production ○ Special production, check availability



matte



KRION vf



1100. SNOW WHITE

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100093798	●

● Format without minimum production ○ Special production, check availability

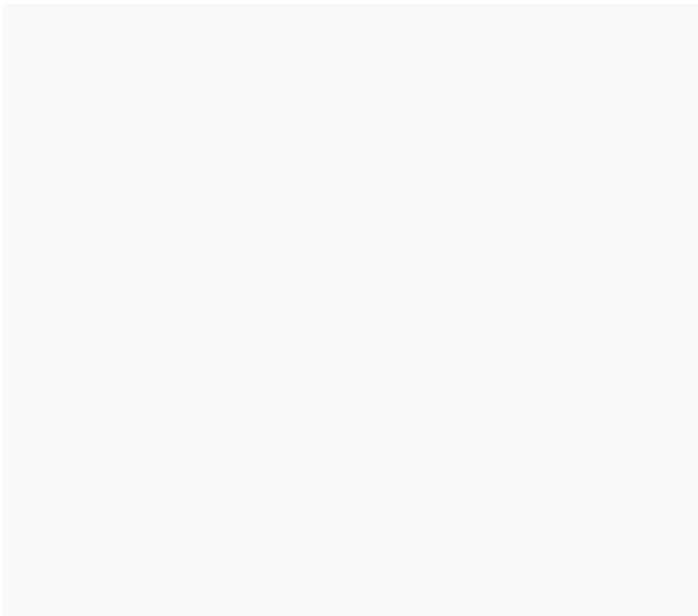


matte



KRION vf

KRION® · Light Series



4102. EXTREME LIGHT

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100109910	●

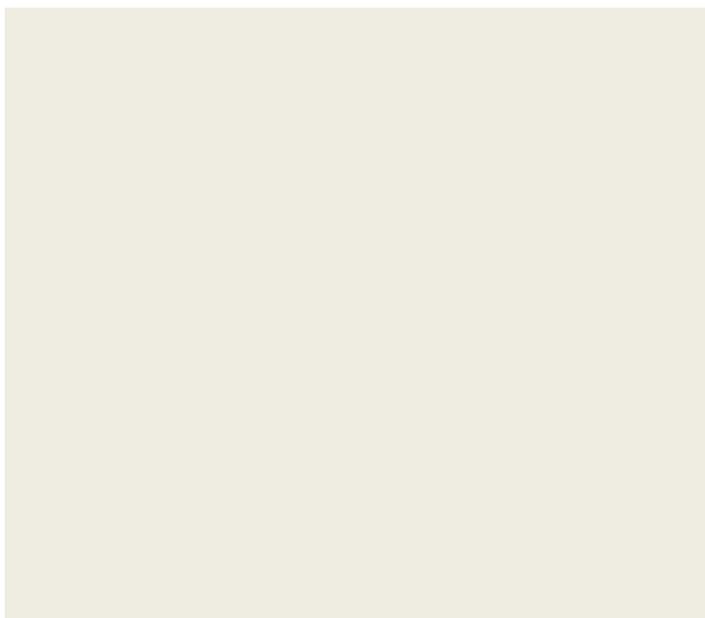
● Format without minimum production ○ Special production, check availability



matte



KRION vf



6101. FROST WHITE

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100148110	●

● Format without minimum production ○ Special production, check availability



matte



KRION vf



6203. SENAPE

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100171093	●

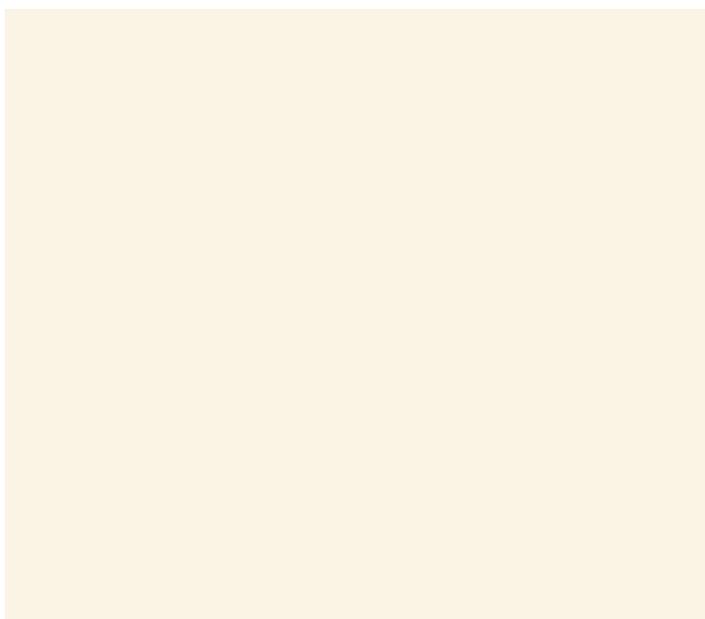
● Format without minimum production ○ Special production, check availability



matte



KRION vf



6501. CREAM

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100103435	●

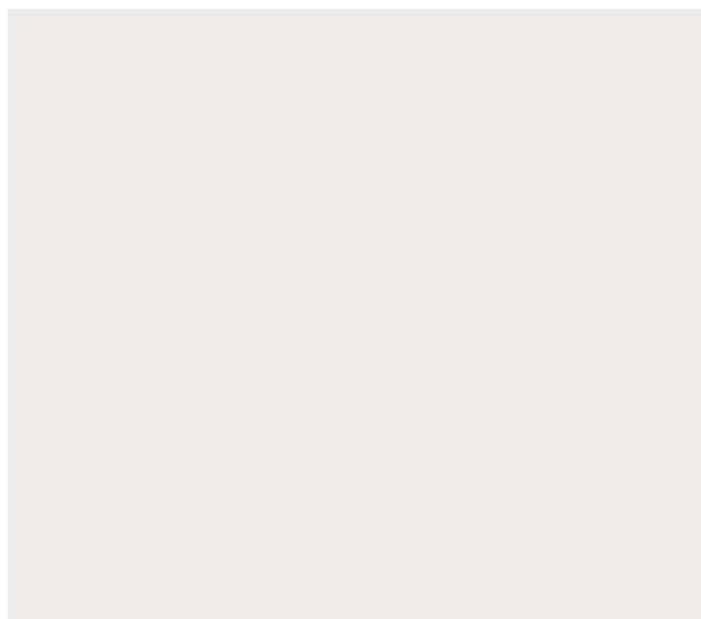
● Format without minimum production ○ Special production, check availability



matte



KRION vf



6502. PEARL

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100103436	●

● Format without minimum production ○ Special production, check availability



matte



KRION vf

KRION® · Colors Series



6506 GREGGIO

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100171072	●

● Format without minimum production ○ Special production, check availability



matte



KRION vf



6509. MOAI

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100171095	●

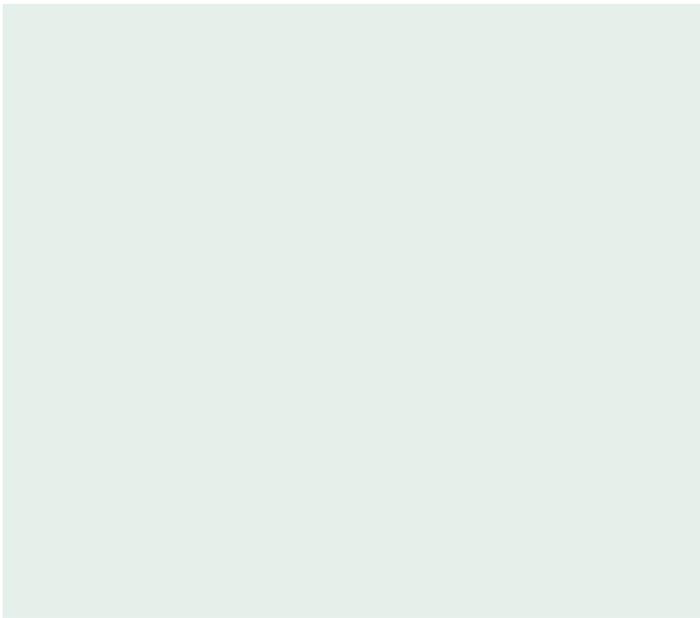
● Format without minimum production ○ Special production, check availability



matte



KRION vf



6703. SANTORINI BLUE

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100171090	●

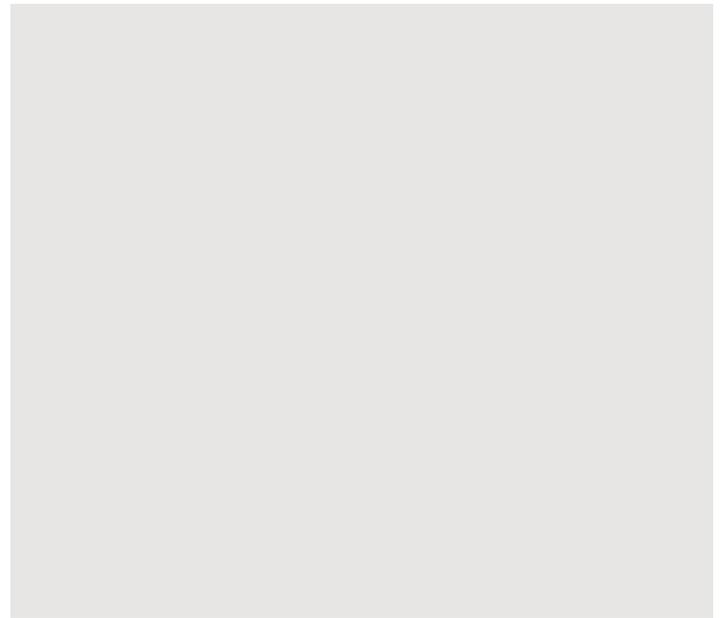
● Format without minimum production ○ Special production, check availability



matte



KRION vf



6902. LIGHT GREY

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100128735	●

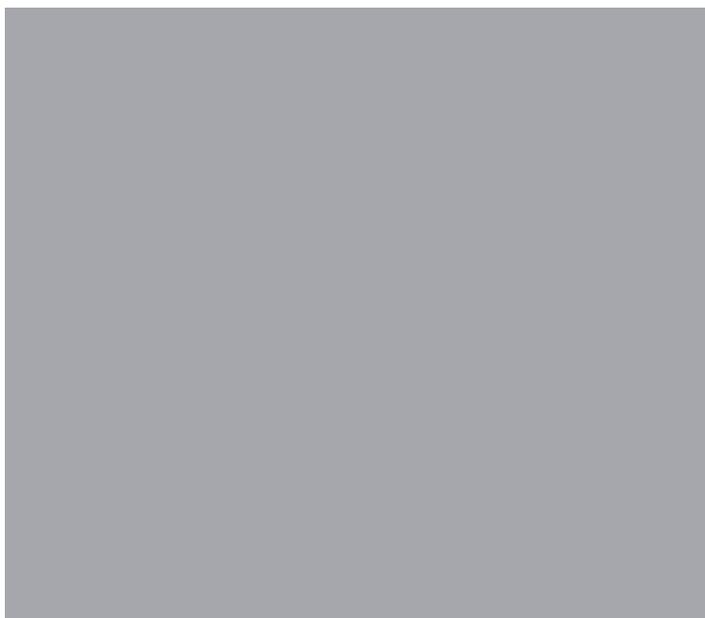
● Format without minimum production ○ Special production, check availability



matte



KRION vf



6903. GREY

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100109886	●

● Format without minimum production ○ Special production, check availability



6908. SCOMMETTO

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100171092	●

● Format without minimum production ○ Special production, check availability



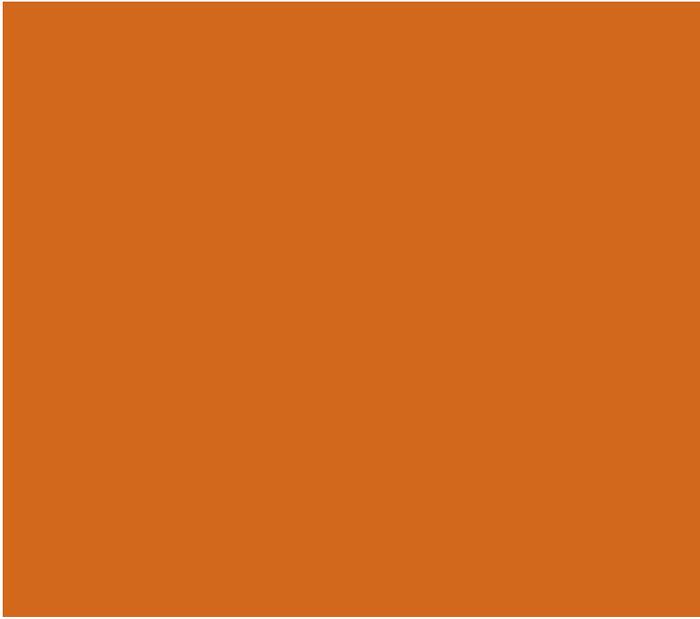
6909. COLOSSEO GREY

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100171082	●

● Format without minimum production ○ Special production, check availability



KRION® · Colors + Series



6301. FRUIT

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100103433	●

● Format without minimum production ○ Special production, check availability



matte



KRION vf



6405. HAPPY RED

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100120188	●

● Format without minimum production ○ Special production, check availability



matte



KRION vf



6504. MOCHA

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100128950	●

● Format without minimum production ○ Special production, check availability



matte



KRION vf



6701. BLUE SKY

Formats cm	Thickness mm	Codes	Availability
368 x 76	12	100109884	●

● Format without minimum production ○ Special production, check availability



matte



KRION vf



FV KRION

Ventilated facade system with a final covering consisting of KRION® Solid Surface panels from SYSTEMPOOL. 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 SYSTEMPOOL 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 x 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 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 KRION® 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

Member of



www.eota.eu

ETA-17/0387



QUALITÉ POUR LE BÂTIMENT

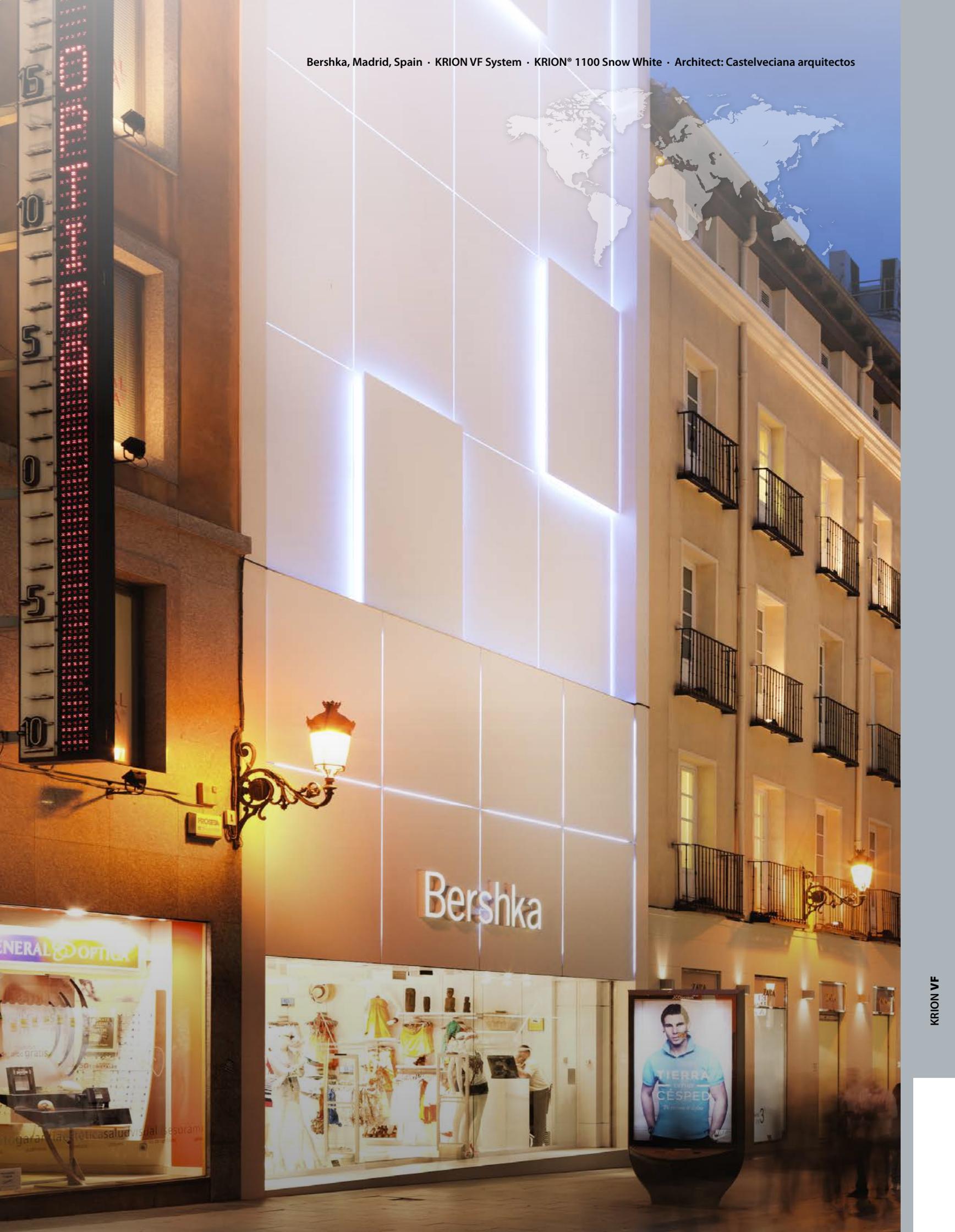
France
AT-2.2/14-1624_V1



United Kingdom
2018/73
2018/74



USA
FL#21546

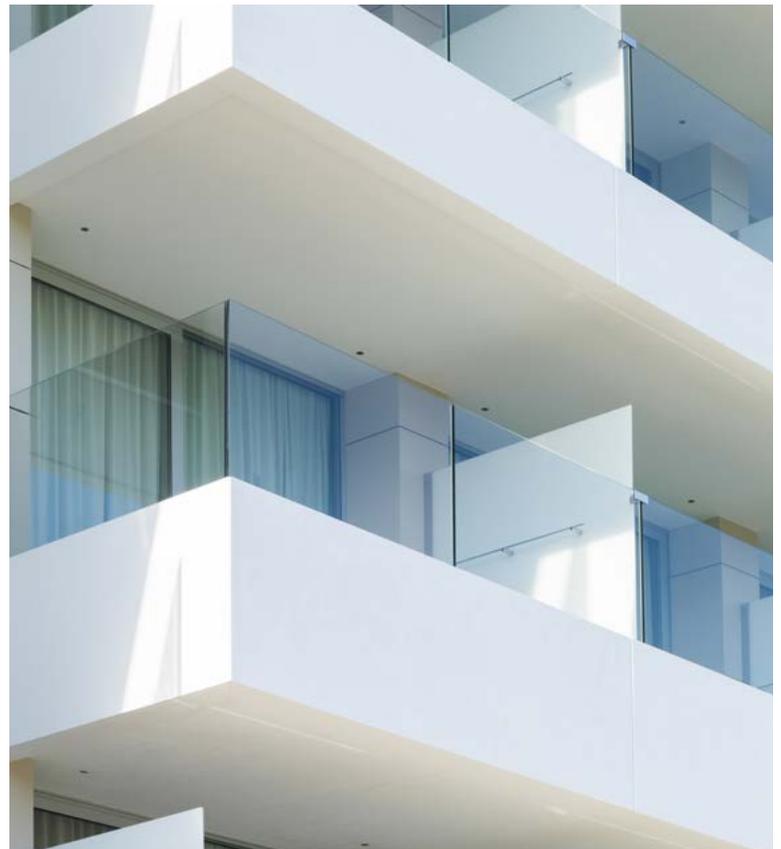


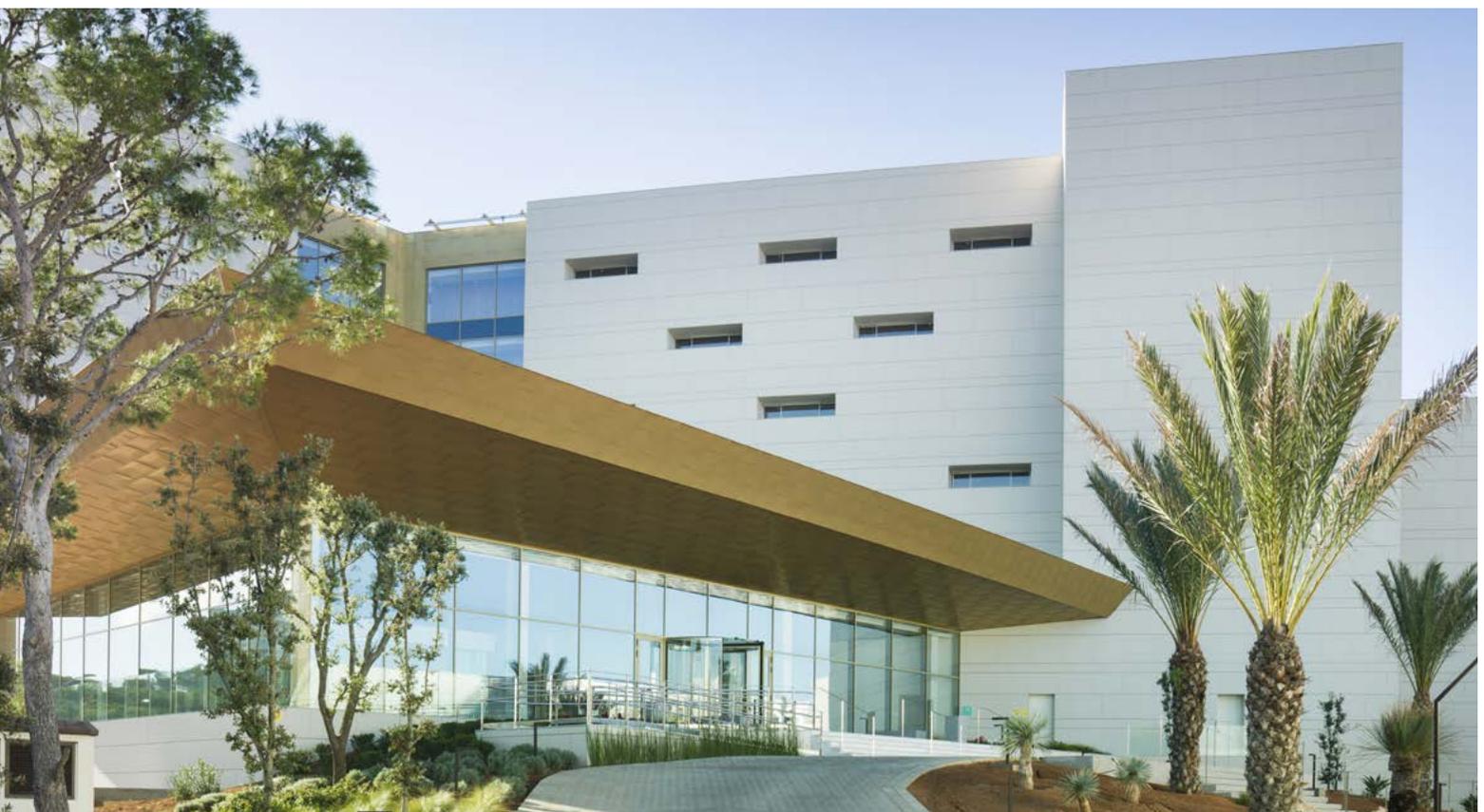
Built projects

Hipotels 5* Hotel, Palma de Mallorca, Islas Baleares, Spain

KRION VF K-Fix System · KRION® 1100 Snow White and KRION® 6903 Grey · VF Porcelain panel system with concealed clips

FV-KER Neo White Nature 59.6x120 cm · Architect: Arquitectura y Urbanismo MSM





Built projects

Siege Social Credit Agricole, Lagord (La Rochelle), France · KRION VF K-Fix System · KRION® 1100 Snow White · Architect: Ory & Associes





Built projects

PORCELANOSA Showroom, Reading, United Kingdom · KRION VF K-Bolt System · KRION® 1100 Snow White · Architect: PORCELANOSA technical office





Built projects

Belle Isle House, Islas Baleares, Spain · KRION VF K-Fix System · KRION® 1100 Snow White · Architect: Jochen Lendle Worldwide

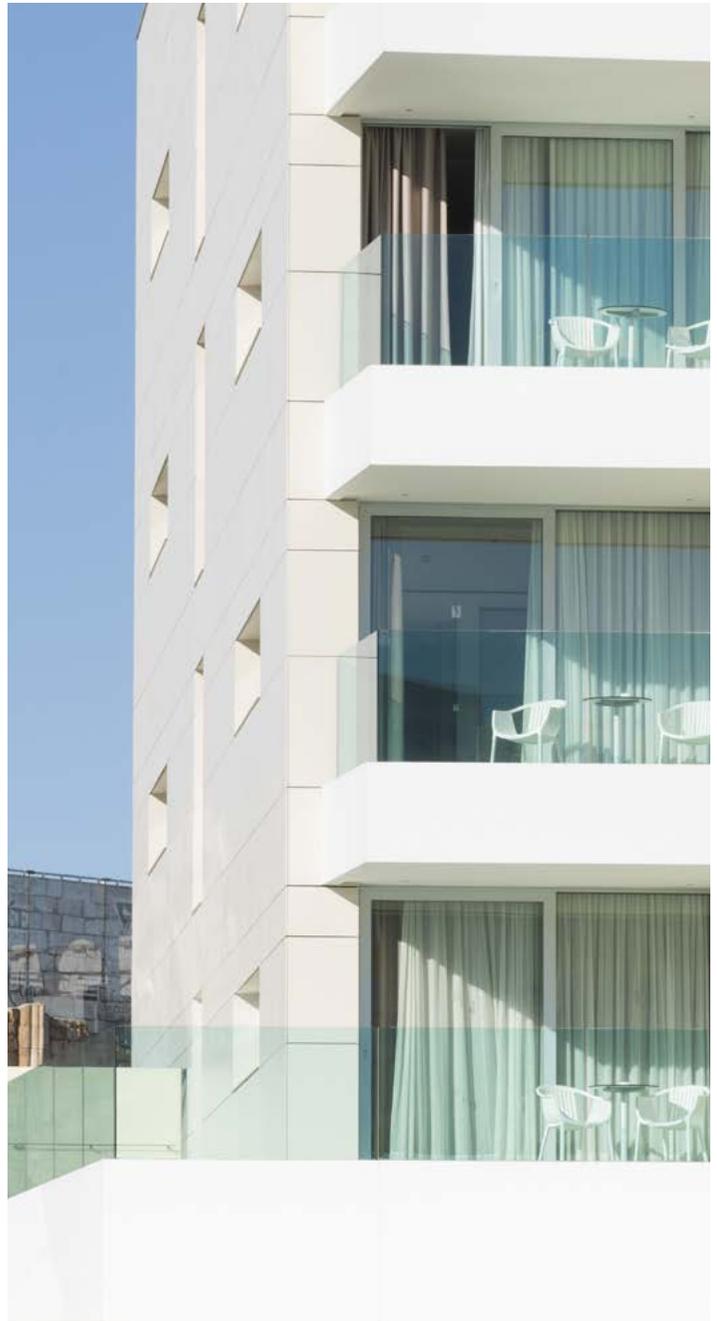




Built projects

Hipotels 4*, Palma de Mallorca, Islas Baleares, Spain · KRION VF K-Fix System · KRION® 1100 Snow White · Architect: Arquitectura y Urbanismo MSM





Built projects

T-Mobile Times Square, New York, USA · KRION VF System · KRION® 1100 Snow White / KRION® 6901 Black Metal · Architect: FRCH Design Worldwide

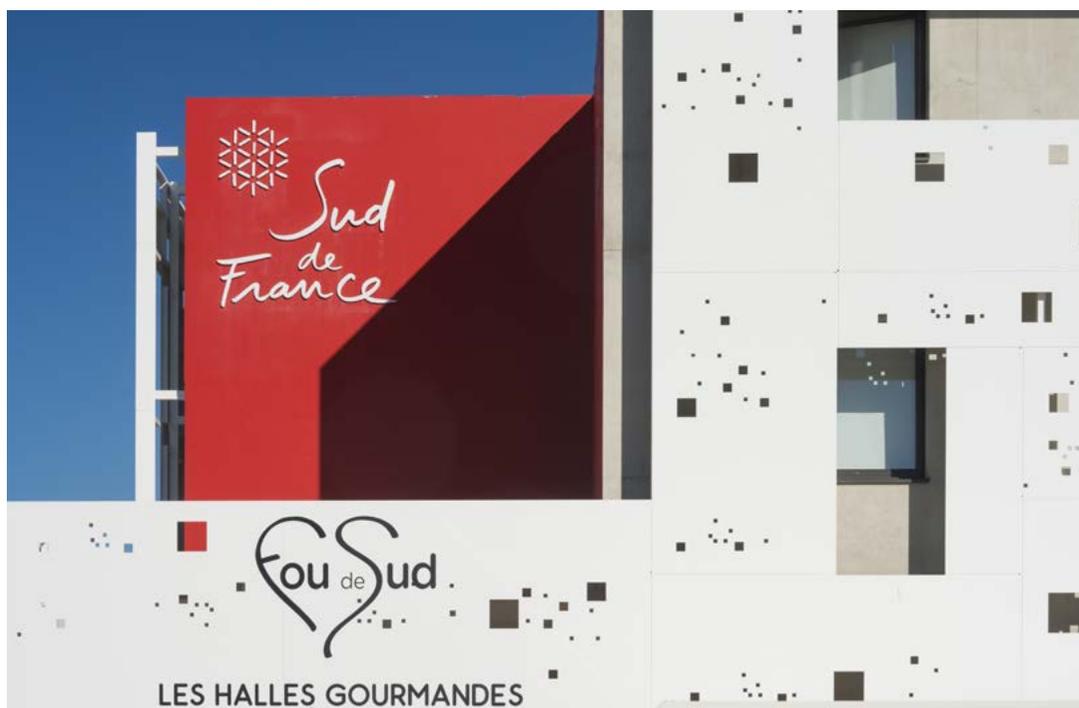




Built projects

Sud de France Shopping center, Montpellier, France · KRION VF K-Fix System · KRION® 1100 Snow White · Architect: A+ Architecture

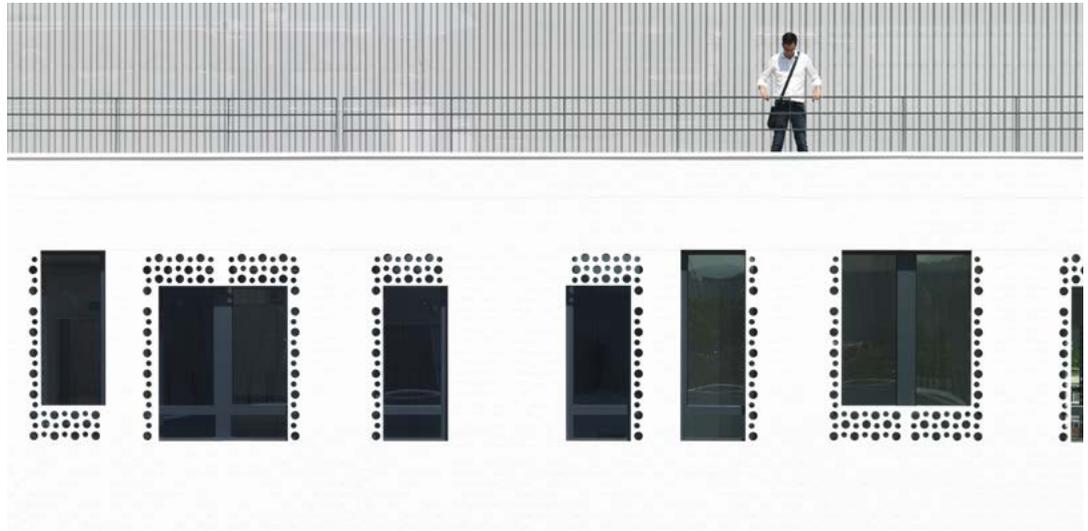




Built projects

Docteur Pierre Building, Nanterre, France · KRION VF K-Fix System · KRION® 1100 Snow White · Architect: Reichen & Robert & Associes





Built projects

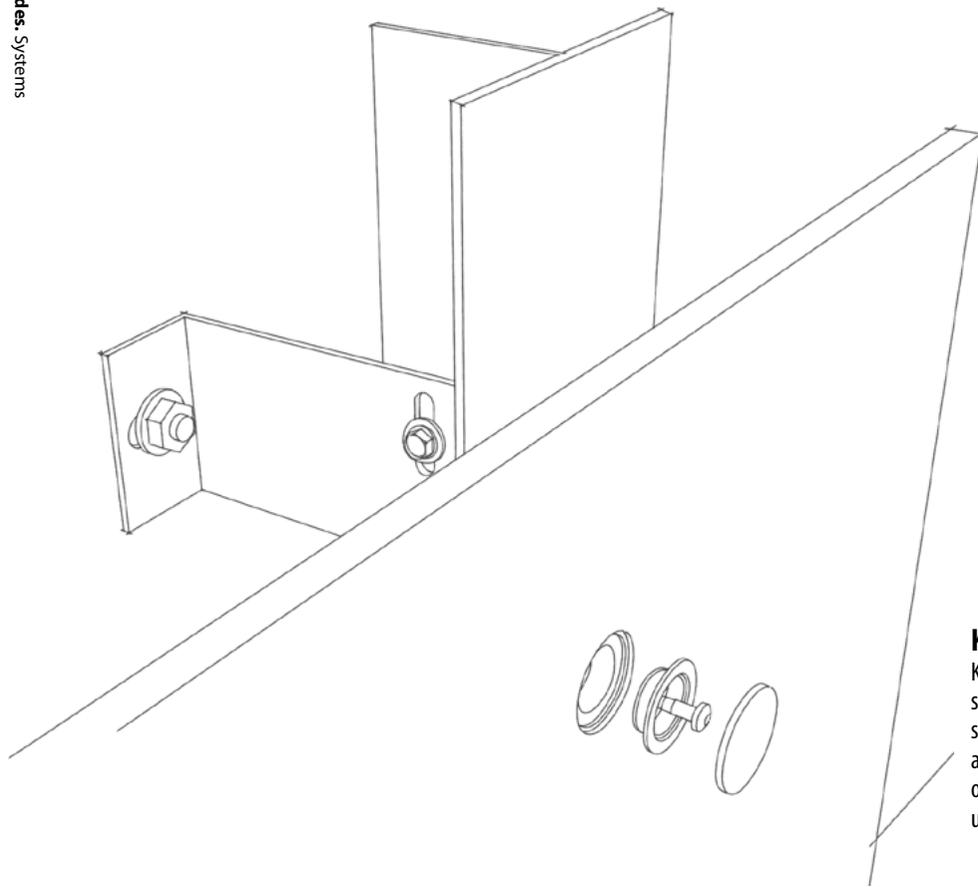
Cool Blue Villa Project, Marbella, Spain · KRION VF K-Fix System · KRION® 1100 Snow White · Architect: Jasper Polak & Silke Roerig





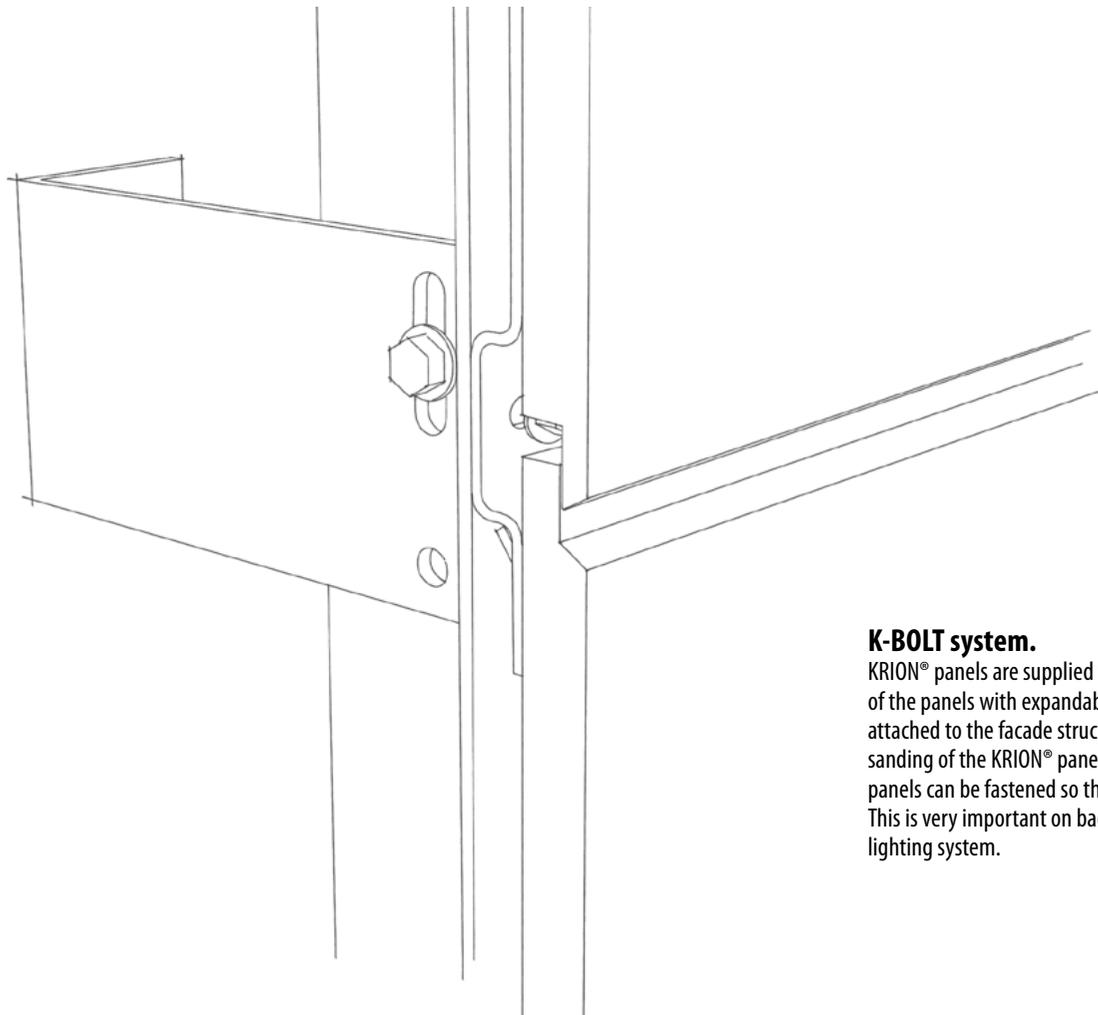
Facade types

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



K-FIX System.

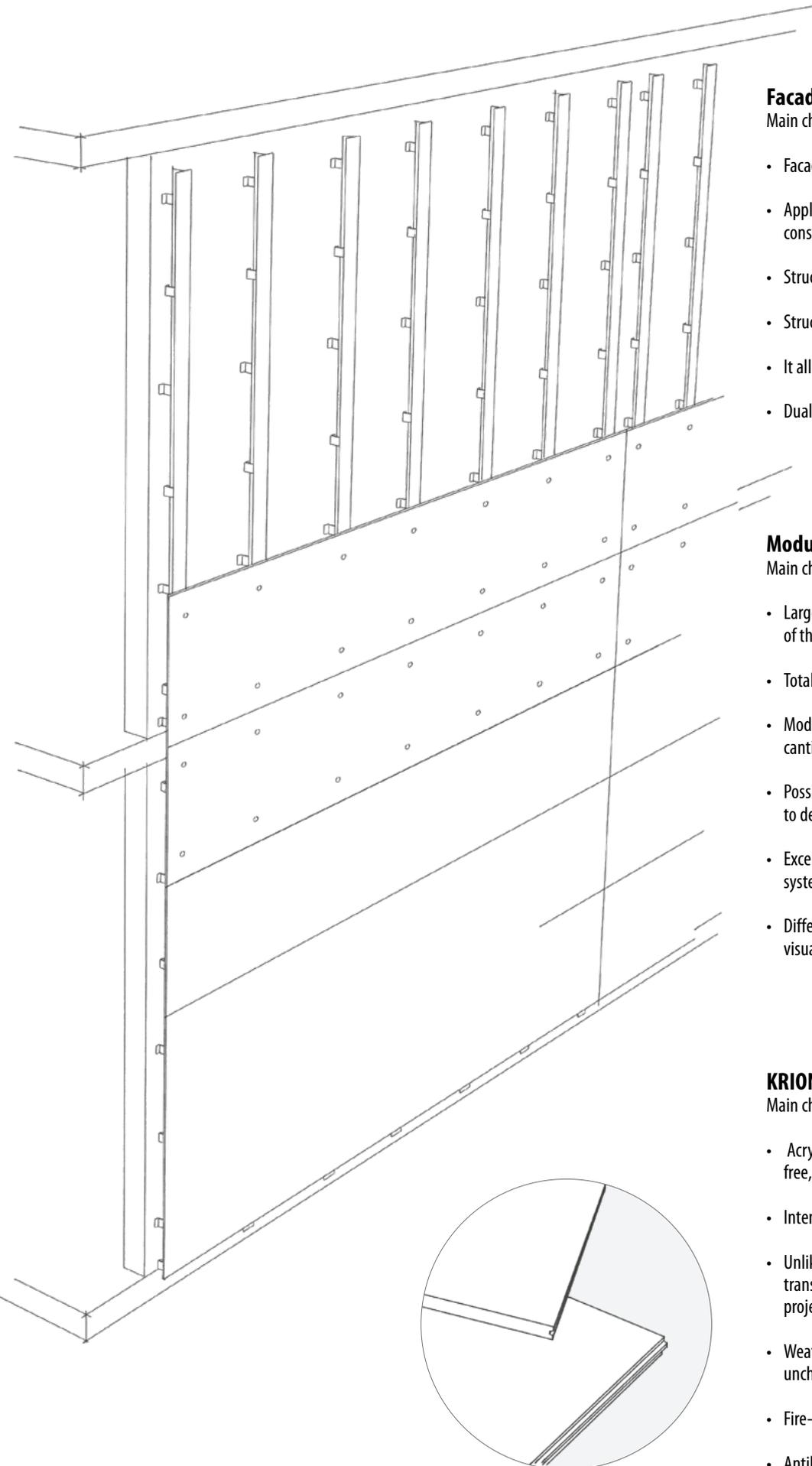
KRION® panels are supplied with circular drillings where stainless steel metal caps are screwed to attach them to the facade structure. Once the KRION® panel is attached, the machined parts are covered with caps from the same material, they are bonded on and finally polished on-site, producing a totally smooth and uniform surface without a trace of machining.



K-BOLT system.

KRION® panels are supplied with metal clips fastened to the back of the panels with expandable screws that fit into a clip system attached to the facade structure. There is no need for a subsequent sanding of the KRION® panels and if the project requires it, KRION® panels can be fastened so that they can be removed to check them; This is very important on back-lit panels or panels with a built-in lighting system.

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.

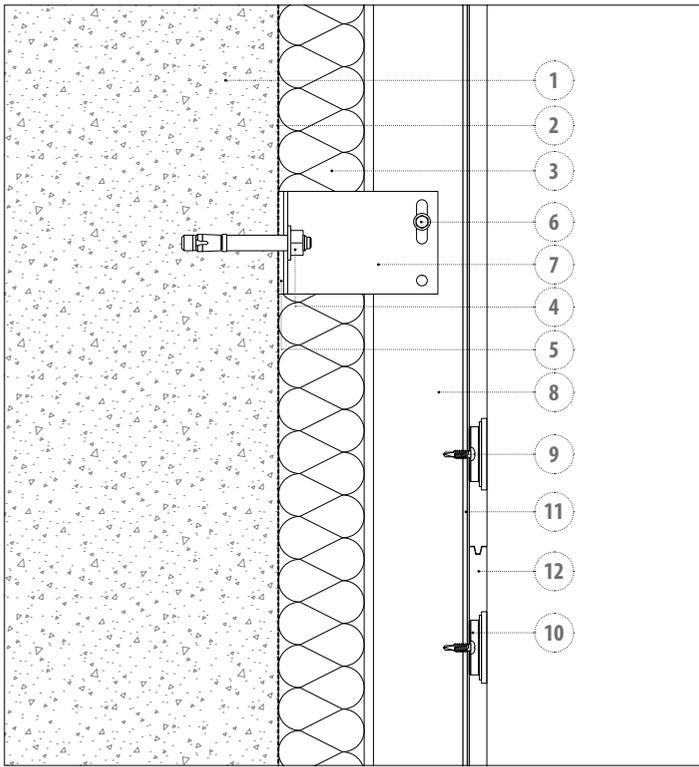
KRION® panels.

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.

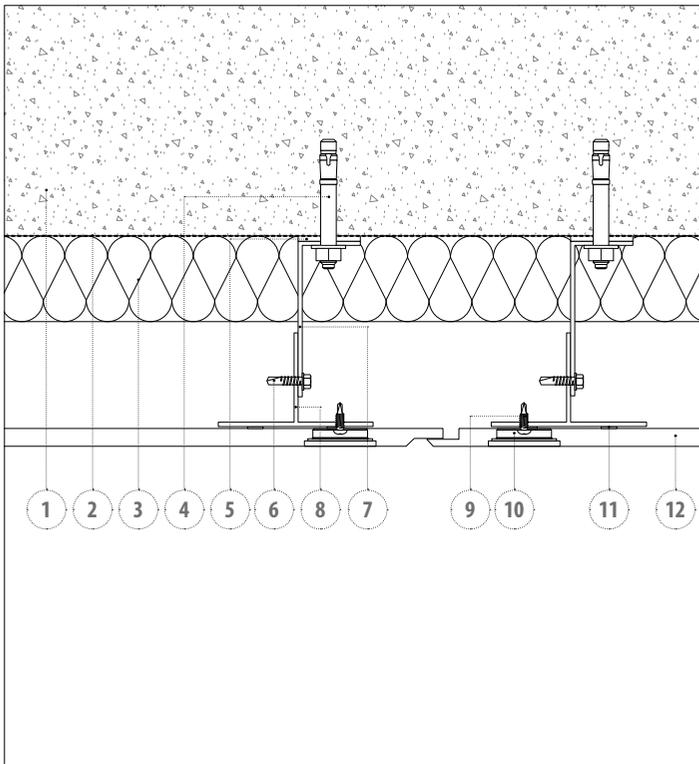
Construction details • K-FIX Concealed clips



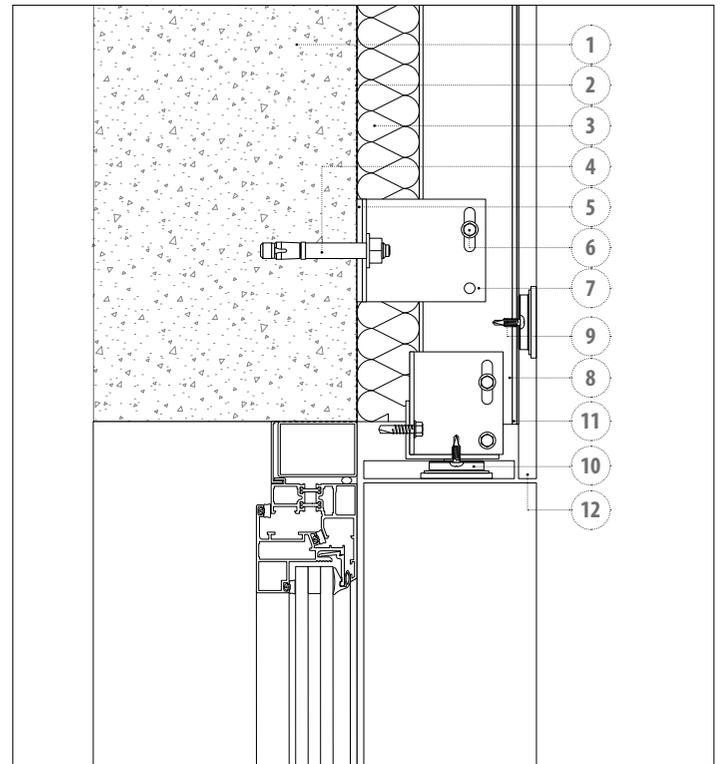
Vertical cross-section

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. Aluminium fixing clip
11. Polyurethane putty
12. KRION®

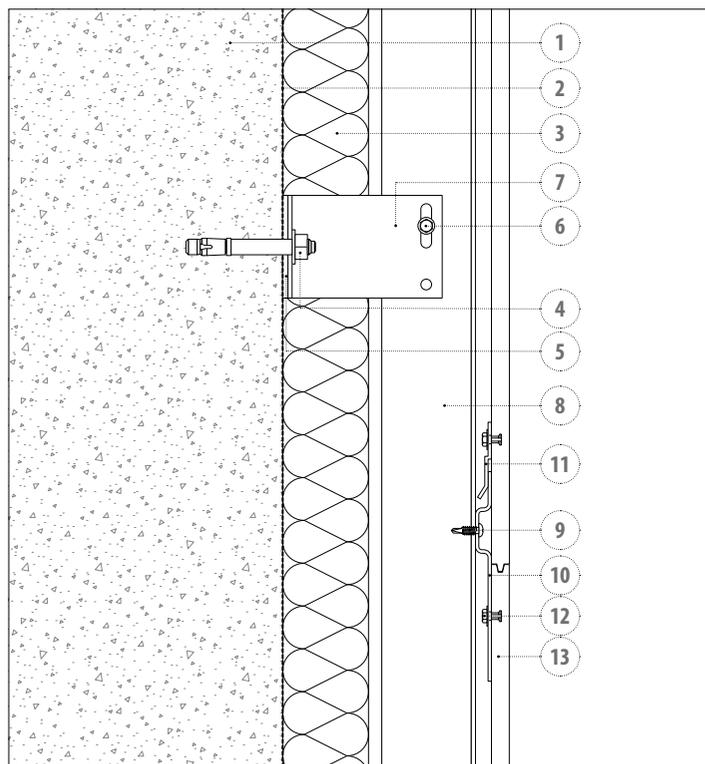


Horizontal cross-section



Lintel

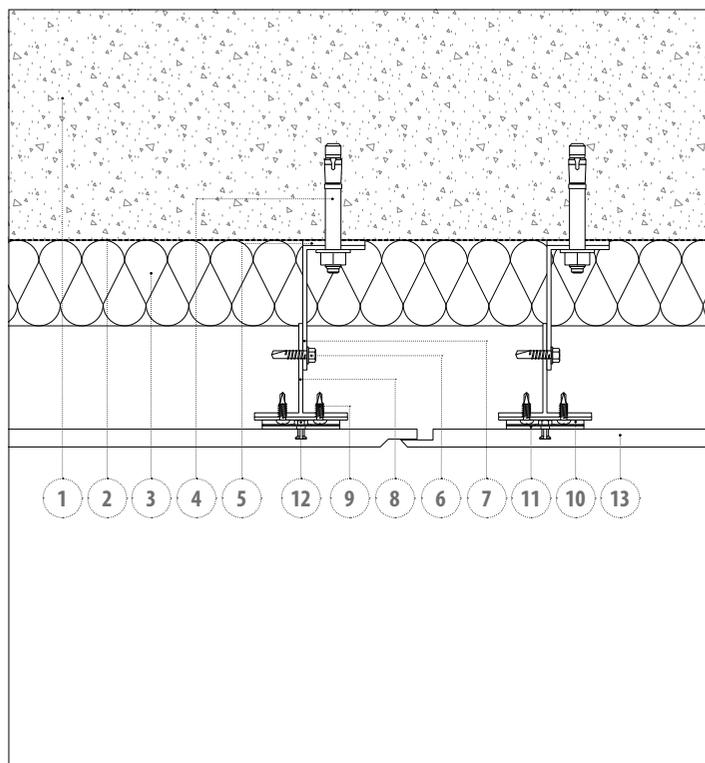
Construction details • K-BOLT Concealed clips



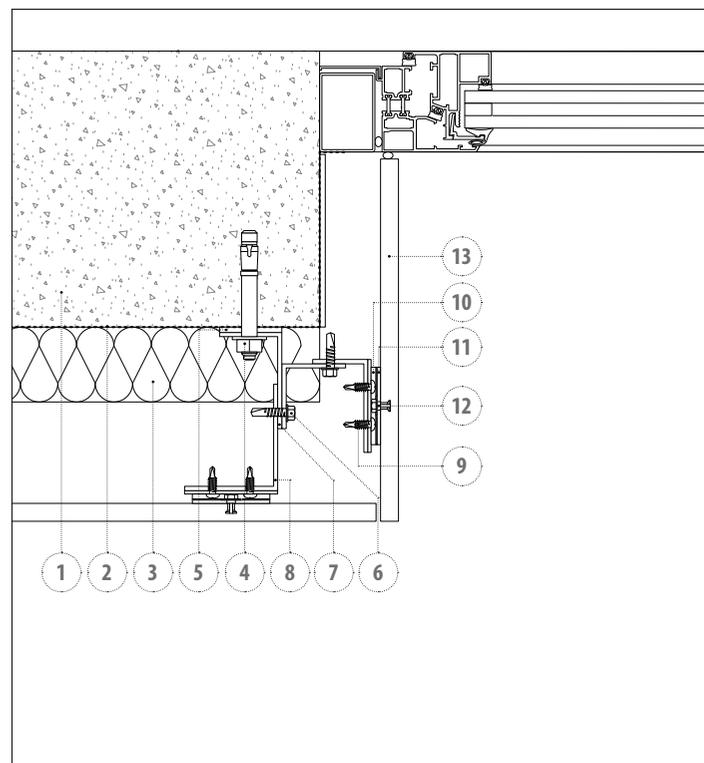
Vertical cross-section

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
7. Aluminum T-shaped upright
9. Self-drilling screw
10. K-Bolt main fixing clip
11. K-Bolt secondary fixing clip
12. K-Bolt screw
13. KRION®

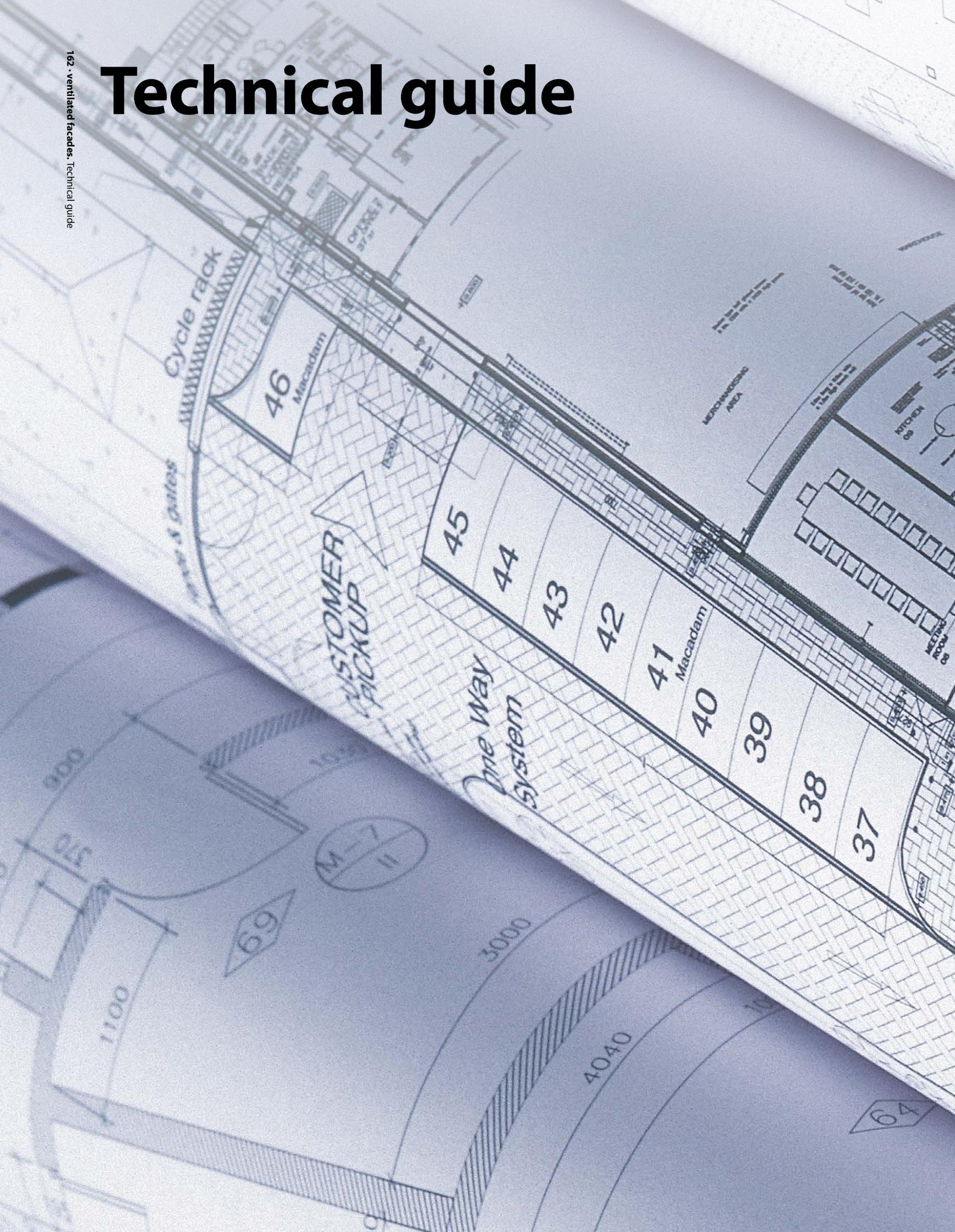


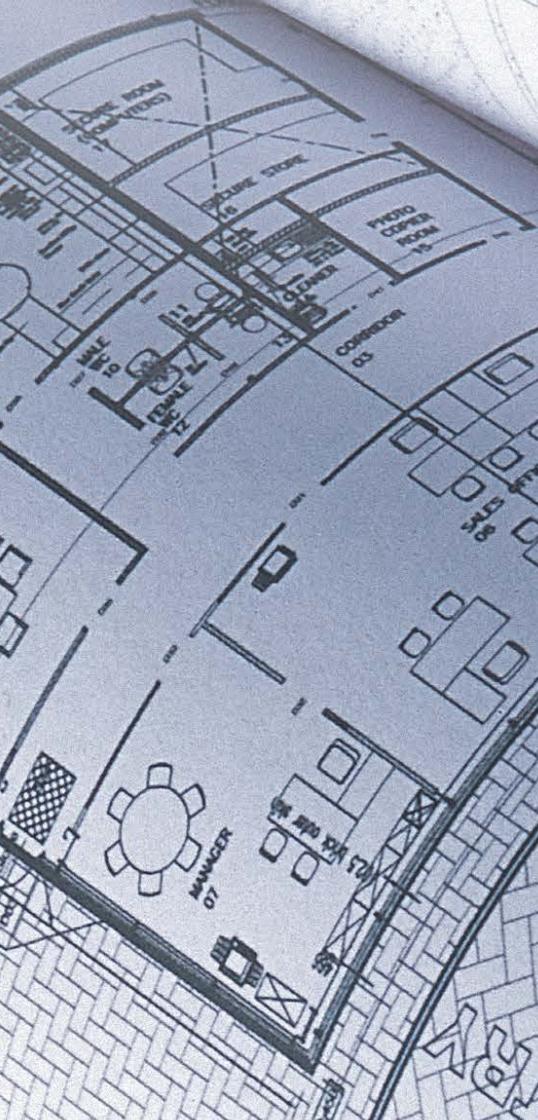
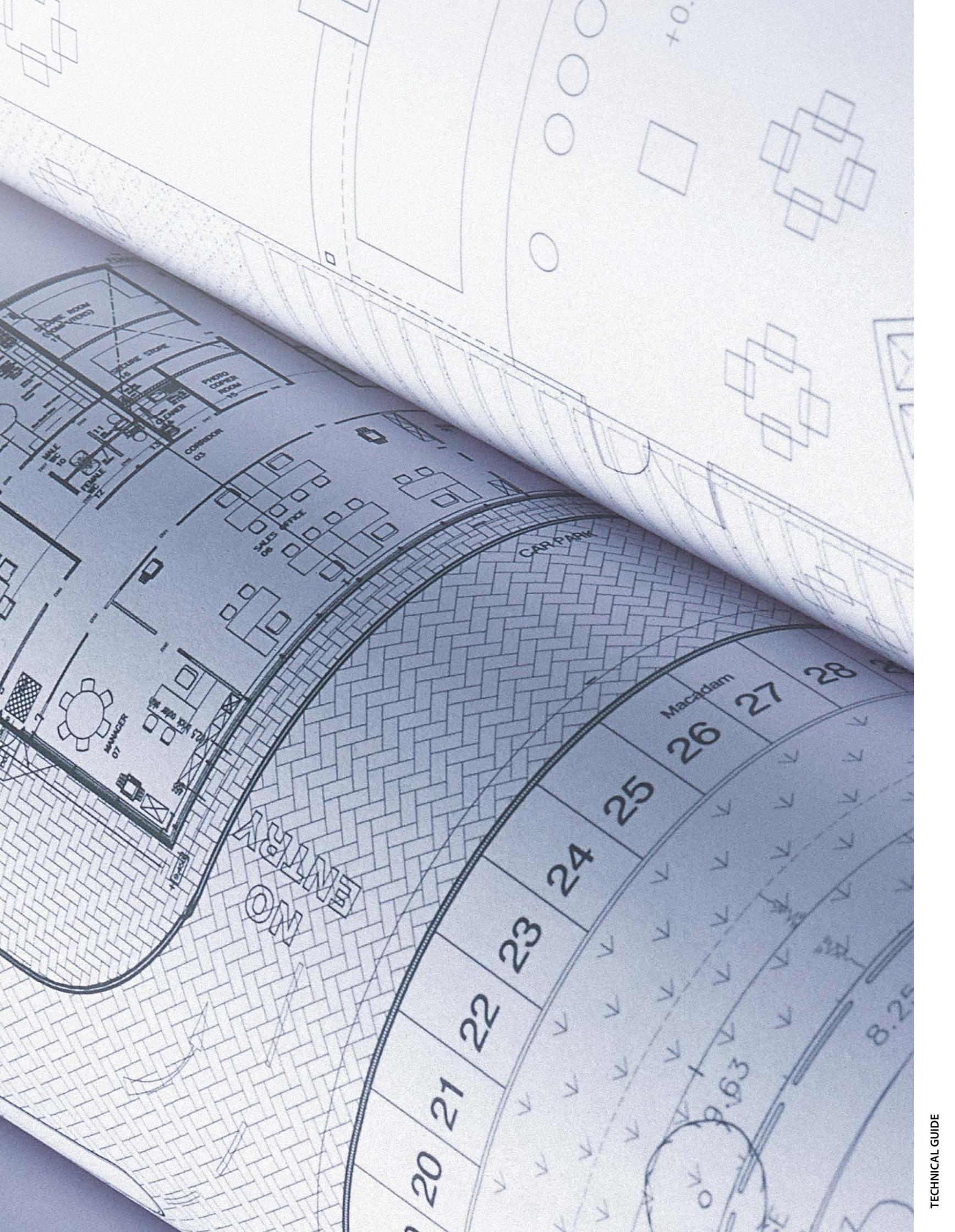
Horizontal cross-section



Jamb

Technical guide





Physio-chemical characteristics of FV-KER porcelain tiles

Standards UNE-EN ISO	Test	ISO13006 : 2012 UNE EN 14411 : 2013	FV-KER values
10545-2	Length and width	Deviation of the average dimension $\pm 0.6\%$ ou maximum ± 2 mm	Deviation of the average dimension $\pm 0.2\%$
	Thickness	Deviation from manufacturing measure $\pm 5\%$ ou maximum ± 0.5 mm	Complies with the standards
	Mesurement of side straightness	Deviation from manufacturing measure $\pm 0.5\%$ ou maximum $\pm 1,5$ mm	Deviation from manufacturing measure $\pm 0.2\%$
	Squareness	Deviation from manufacturing measure $\pm 0.5\%$ ou maximum ± 2 mm	Deviation from manufacturing measure $\pm 0.2\%$
	Flatness of the lateral-central-warping surface	Deviation from manufacturing measure $\pm 0.5\%$ ou maximum ± 2 mm	Deviation from manufacturing measure $\pm 0.2\%$
10545-3	Water absorption	Average value $\leq 0.5\%$	$\leq 0.1\%$
10545-4	Modulus of rupture	≥ 35 N/mm ²	> 35 N/mm ²
	Breaking strength	> 1300 N	> 2000 N
10545-8	Thermal expansion coefficient	Test method available	$< 7 \times 10^{-6}$ K ⁻¹
10545-9	Resistance to thermal shock	Test method available	Resists
10545-11	Crazing resistance	Demanded	
10545-12	Frost resistance	Demanded	Complies with the standards
10545-13	Resistance against acids and bases	As per manufacturer	Minimum Class B
	Household detergents and additives for swimming-pools	Minimum Class B	Complies with the standards
10545-14	Resistance to staining	Minimum Class 3	Complies with the standards

Physio-chemical characteristics of XLIGHT porcelain tiles

Standards UNE-EN ISO	Test	ISO13006 : 2012 UNE EN 14411 : 2013	XLIGHT values Bla Groupe
10545-2	Length and width	Deviation of the average dimension $\pm 0.6\%$ ou maximum ± 2 mm	Deviation of the average dimension $\pm 0.1\%$
	Squareness	Deviation from manufacturing measure $\pm 0.5\%$ ou maximum ± 2 mm	Deviation from manufacturing measure $< 0.15\%$
	Flatness of the lateral-central-warping surface	Deviation from manufacturing measure $\pm 0.5\%$ ou maximum ± 2 mm	Deviation from manufacturing measure $< 0.15\%$
10545-3	Water absorption	Average value $\leq 0.5\%$	$\leq 0.1\%$
10545-9	Thermal expansion coefficient	Demanded	Complies with the standards
10545-12	Frost resistance	Demanded	Complies with the standards
10545-13	Chemical resistance	Minimum Class UB	Class UA
10545-14	Resistance to staining	Minimum Class 3 / UGL	Class 5

Physio-chemical characteristics of XTONE porcelain tiles

Standards UNE-EN ISO	Test	ISO13006 : 2012 UNE EN 14411 : 2013	XTONE values Bla Groupe
10545-2	Length and width	Deviation of the average dimension $\pm 0.6\%$ ou maximum ± 2 mm	Deviation of the average dimension $\pm 0,15\%$
	Thickness	Deviation from manufacturing measure $\pm 5\%$ ou maximum $\pm 0,5$ mm	Deviation from manufacturing measure $6 \pm 0,5$ mm
	Mesurement of side straightness	Deviation from manufacturing measure $\pm 0,5\%$ ou maximum $\pm 1,5$ mm	Deviation from manufacturing measure $< 0,15\%$
	Squareness	Deviation from manufacturing measure $\pm 0,5\%$ ou maximum ± 2 mm	Deviation from manufacturing measure $< 0,15\%$
	Flatness of the lateral-central-warping surface	Deviation from manufacturing measure $\pm 0,5\%$ ou maximum ± 2 mm	Deviation from manufacturing measure $< 0,15\%$
10545-3	Water absorption	Average value $\leq 0,5\%$	$\leq 0,1\%$
10545-9	Thermal expansion coefficient	Demanded	Complies with the standards
10545-12	Frost resistance	Demanded	Complies with the standards
10545-13	Chemical resistance	Minimum Class UB	Class UA
10545-14	Resistance to staining	Minimum Class 3 / UGL	Class 5

Physio-chemical characteristics of KRION®

Property	Method	Result	Units / Measures
Density	ISO 1183 / ASTM D792	1.71 - 1.77	g/cm ³
Flexural modulus of elasticity	ISO 178 / ASTM D790	8500 - 11900	MPa
Flexural strength	ISO 178 / ASTM D790	60 - 78	MPa
Elongation	ISO 178 / ASTM D638	0.7-0.85	%
Tensile modulus	ISO 527 / ASTM D638	9380 - 11325	MPa
Tensile strength	ISO 527 / ASTM D638	40 - 60	MPa
Compressive strength	ISO 604	97 - 117	MPa
Impact resistance (ball drop)	ISO 19712-2 UNE EN 438-2 ISO 4586-2 NEMA LD 3	Satisfactory (No break)	324 g ball / Height 1.9 m (2m)
Abrasion resistance	UNE EN 438-2 ISO 4586-2	0.028	% mass / Δmass(%) every 25 rev.
Resistance to boiling water	UNE EN 438-2 ISO 4586-2 NEMA LD 3	0.1 - 0.30	% weight
		0.1 - 0.30	% thickness
		Level 5: No change	Grados del 1-5
Resistance to bacteria	ASTM G22	No proliferation	
Resistance to fungi	ISO 846 / ASTM G2		
Anti-slip properties depending of grit finish from (40-600)	UNE ENV 12633	Rd = 40 Class 2 - Rd = 12 Class 0	SR (Roughness) Pendulum
	ASTM C1028	0.8 - 0.69	Dry Static Coefficient
	ASTM C1028	0.82 - 0.62	Wet Static Coefficient
	ANSI A.137.1:2012	0.7 - 0.35	Wet Dynamic Coefficient
Dimensional stability	ISO 4586-2 UNE EN 438-2	0.02 (90% HR & 23°C)	% change in length
		0.08 (23% HR & 23°C)	
Dimensional stability at high temperatures	UNE-EN 438-2	0.18 (70°C)	% change in length
		0.10 (95% HR & 40°C)	
Linear thermal expansion	ISO 11359-2 ASTM D696	3.5 x 10 ⁻⁵	λ (mm/m °C)
Coefficient of thermal expansion	UNE-EN 14581	0.112	3*λ (mm ³ /m ³ °C)
Resistance to artificial weathering. Xenon arc (3000 h)	ISO 4586-2 UNE EN 438-2 ISO 4892-2	Level 5: No change	Grey scale. Levels 1-5
Resistance to ultra-violet light. UV-313 lamp (1500 hrs)	UNE EN 438-2 ISO 4892-3	Level 4.5: Slight change	Grey scale. Levels 1-5
Lightfastness (122 hrs)	ISO 19712-2 UNE 56868:2002	Level 5: No change	Grey scale. Levels 1-5
Colour fastness	ISO-19712-2	>6	"blue wool"
Thermal resistance	UNE EN 12667	q = 104.8	W / m
		R = 0.064	m ² . K / W
		λ = 0.193	W / m . K

Property	Method	Result	Units / Measures
Thermal shock resistance (90 - 20 °C / 194 - 68 °F)	ISO-19712-2	Satisfactory	250 cycles
Surface resistance to damp heat	ISO 19712-2 ISO 4586-2	Satisfactory. Level 5: no change	Levels 1-5
Surface resistance to dry heat	ISO 19712-2 UNE-EN 438-2 ISO 4586-2 UNE 56867 UNE 56842	Satisfactory. Level 4: slight change in gloss degree only visible from certain angles	Levels 1-5
Boiling water resistance	NEMA LD3	Without visible changes	
High temperature resistance	NEMA LD3	Without changes	
Surface defects	ISO-19712-2	Satisfactory	No defects
Barcol hardness	ISO-19712-2 ASTM D 2583	60 - 65	Units
Rockwell hardness	ISO-19712-2 ASTM D785 ISO-2039-2	> 85	Units
Falling ball test	ISO-19712-2 ISO-2039-1	240 - 280	N/mm ²
Resistance to cigarette burns	ISO 19712-2 UNE-EN 438-2	Satisfactory. Level 4: slight change in gloss degree only visible from certain angles	Levels 1-5
Load test	ISO-19712-2	Satisfactory (No cracks or fissures were observed after the test)	0.12 mm (residual deflection)
Chemical resistance (Method A)	ISO-19712-2	Satisfactory 5 (In all cases, except acetone with level 4)	Levels 1-5
Chemical resistance (Method B)	ISO-19712-2	27	Cleanliness rating from 0 to 75
Chemical resistance	UNE 56867	Satisfactory	
Fire rating	UNE-EN 13501-1	B s1 d0 Using standard material	Euroclass
	ASTM E84	Class A	"IBC class"
	DIN 4102-1	B1 With no restrictions	
	UL94HB	Satisfactory	
	NFPA 259	Satisfactory (6,04 KJ/g)	
Scratch resistance	UNE-EN 438-2	4	Levels 1-5
	Eq. Mohs	3	
Cracking resistance	UNE-EN 438-2	5	Levels 1-5
Surface permeability	NFT 30-801	8	g/m ² day
Resistance to water vapor	UNE 56867 UNE 56842	Satisfactory	
Specific heat	UNE 23721	1361	J/g K
Water absorption	ASTM D570	0.03	%
Deflection temperature (load 1.82 N/mm ²)	ASTM D648	>95	°C
Wear & Cleanability	CSA B45.5-11 IAMPO Z124-2011	Complies	
Cutting powder toxicity	UNE-EN ISO 11348-3 MTA/MA - 014 / A11 UNE EN 12457-4	Without effects	

Icon definition



Shade variation

Models identified with this symbol have a general shade-variation design that may require including a sufficiently representative number of panels in a number of pieces so as to appreciate the degree of shade variation and appearance.



Matte

Surface finish with natural, non-glossy appearance.



Glossy

Surface finish, specially treated to give it a distinct high-gloss.



Matt-gloss

Models that due to their design, combine the natural non-glossy surface finish with glossy areas.



Metallic

Surface finish that reproduces the look of shiny metal surfaces (aluminum, steel, copper, silver...)



Embossed

Finish with clearly defined significant embossing that provides a feeling of volume to the surface.



Textured

Surface with small protrusions that provide a soft textured finish.



Lapping

The tiles are mechanically polished in a heterogeneous way, creating a very natural matte-gloss effect similar to that produced on surfaces that have a continued use in time.



Meshed

Fiberglass mesh on the back of the pieces to avoid fragments from falling in case of breakage.



Minimum order

Models available for projects of at least 2500 m². For more information about availability and delivery conditions, check with butech's Sales Department

Description on finishing pages

Location tab
Type of wall covering and finishing
Image

FV-KER

22 - ventilated facades, Coverings

FV-KER · Concrete



NEWPORT BEIGE

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100226290	●
80 x 80	11.5	100226291	●
40 x 80	10.5	100216163	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability

 matte
 shade variation

 P vt porcelain panel



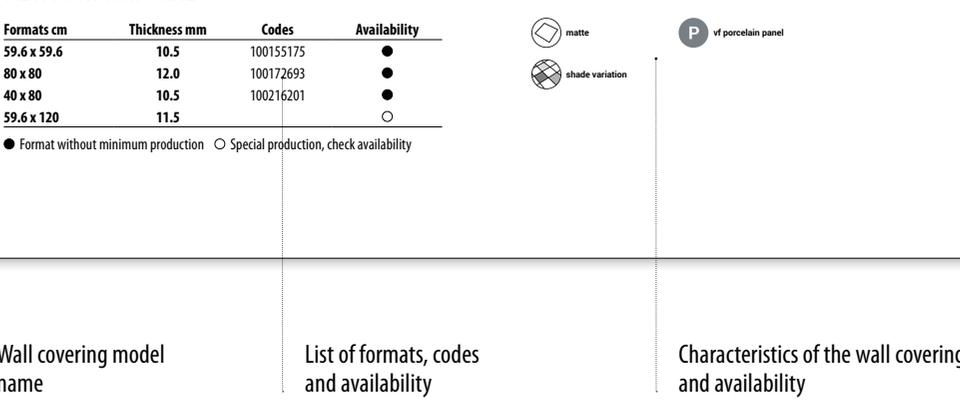
NEWPORT NATURAL

Formats cm	Thickness mm	Codes	Availability
59.6 x 59.6	10.5	100155175	●
80 x 80	12.0	100172693	●
40 x 80	10.5	100216201	●
59.6 x 120	11.5		○

● Format without minimum production ○ Special production, check availability

 matte
 shade variation

 P vt porcelain panel



Wall covering model name

List of formats, codes and availability

Characteristics of the wall covering and availability

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butech

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