

COMPANY PROFILE

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INTRODUCTION

Facade Engineering is a very critical factor for maximizing the overall aesthetic appeal of a building. We at FAPINEX strive to present our clients with the best solutions in Facade Design to match your needs. We customize design and development of facade systems taking into consideration architectural intent, climate adaptability, project specifications, international standards and testing requirements. Our Consulting services are molded to your requirement and cover nearly all aspects of facade design and engineering review, inspection and advisement.

From the review of concept proposals to aid in design wind pressure calculations, facade materials selection, value engineering, setting out performance criteria, facade lighting, facade maintenance & cleaning strategy, our expertise and services are unparalleled.

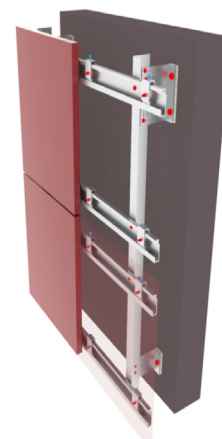
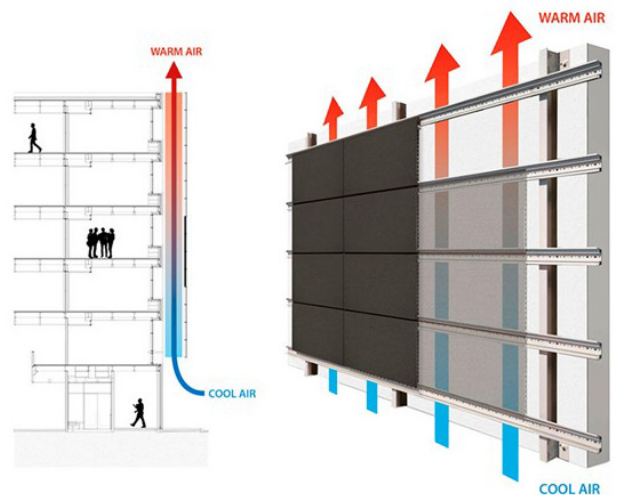
We specialize in the substructure system design for **Ventilated Facades**.

VENTILATED CURTAIN WALL

A ventilated curtain wall (VCW) is a facade system composed of several layers, in which the supporting external wall is provided with a layer (cladding) that offers protection against the weather. The cladding can be made from a wide variety of materials: ceramic, metal, fiber cement, composite panels, natural stone, etc.

The substructure attaches this façade cladding to the solid outer wall of a building while leaving a gap between the two.

Ventilated Curtain Walls are acknowledged as one of the most sustainable, cost-effective, and technologically advanced facade systems. On top of their outstanding structural and physical advantages, VCWs offer architects a virtually unlimited range of possibilities for creating striking designs.



ABOUT FAPINEX

Fapinex is a premier organization that specializes in bespoke Facade Engineering and Design in the Middle East. Armed with more than 4 decades of work experience, our designers and engineers have worked on some of the most iconic projects in the Middle East. We strive to revolutionize Facade Design in the region giving priority to client requirements to ensure maximum architectural flexibility and cost-efficiency. We bring forth latest and the best trends in the facade design industry with the definitive aim to change the way buildings are viewed, both aesthetically and technologically.

We design and supply personalized facade systems accommodating everything from the edge of the building to the exterior face of the facade panels.

We offer complete and approved facade systems including all the substructure, fixing, and sealing components as well as our range of exclusive facade panel types to match the clients' requirements.



THE TEAM

MANAGEMENT TEAM



NAZIH GHANEM
Managing Director



AHMAD GHANEM
General Manager



SEREEN GHANEM
Marketing & Communications Manager



YAZAN SHALABI
Designer



AROOB AL MASRI
Architect



OUR PARTNERS

GIP¹ Fassade

(Tailor-made Facade Systems)



(Undercut Fixing Systems)

Metawell
metal sandwich technology

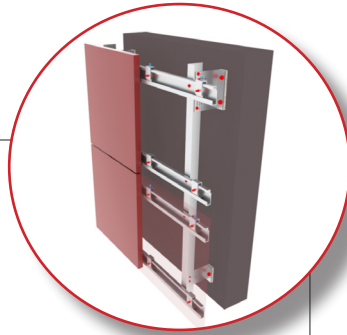
(Aluminium Lightweight Panels)



(Modern Sealing Technology)



SERVICES



**Facade System
Design**



**Facade
Engineering**



**Structural
Calculations**



**Installation
Supervision**

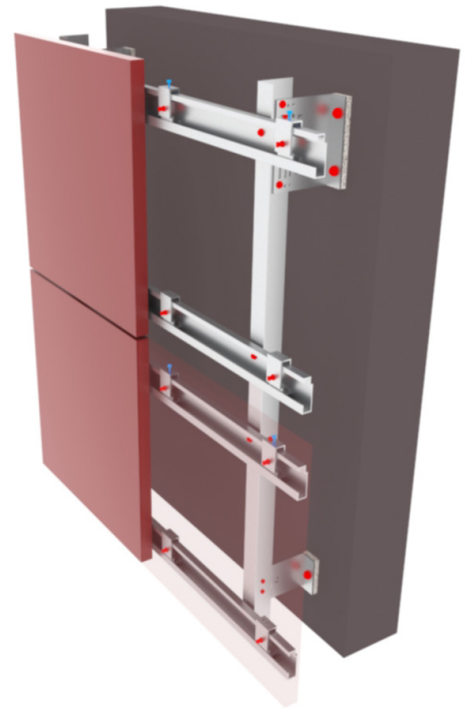
FACADE SYSTEM DESIGN

We work with architects, engineers, contractors, developers, and private Clients to find the optimum solution for their ventilated facade, whether they have already a chosen facade cladding material, or if they need assistance in choosing the right one for their project.

We aim to meet their required architectural design considering the weight and format of the facade panels, the required cavity distance between the building structure wall and the facade panels, and all design variables which require expert and careful planning in ventilated facade construction.

For any type of facade material or application, we can provide them with a comprehensive overview about its properties, advantages, and disadvantages, as well as a competent advice in the following areas:

- Preliminary statical studies of the facade panels, substructure system, and fixing base.
- Facade and substructure design optimization considering the weight and dimensions of the panels, thermal expansion of both the facade substructure and panels.
- Detailed facade engineering.
- Structural calculations.

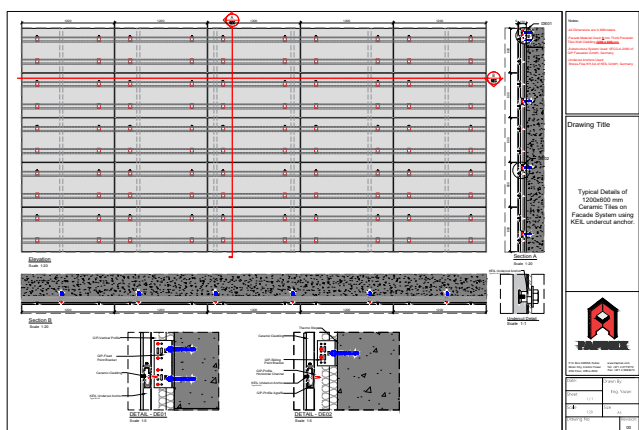


FACADE ENGINEERING

Our facade engineering services include the implementation of all technical and engineering works involved in all stages of the project in the most efficient way. All engineering will be taking into consideration the required facade design layout and architectural appearance of the building.

Through our many years of experience in the design and construction of facades, we can provide you with the following services:

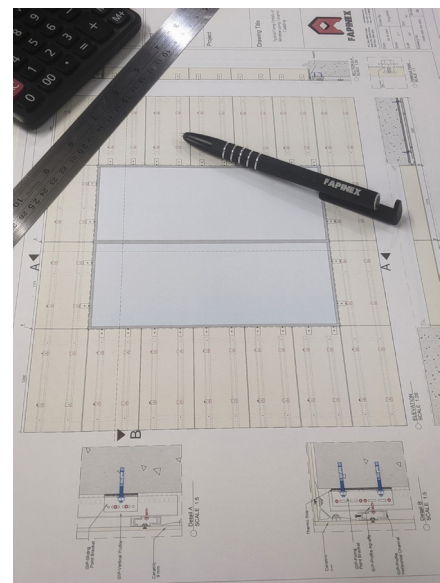
- Production of drawings for the detailed facade elevations.
- Production of typical fixing details drawings.
- Engineering, production, and supply of mechanical fixing solutions for special site conditions such as large cavities or support spans.
- Production of drawings and details for interface areas such as window connections, terminations, and building corners.
- 3D laser scanning and rivet modelling services.
- Production of full installation drawings including accurate coding, cutting/drilling schedules, and waste calculation of both facade panels and substructure system components.



STRUCTURAL CALCULATIONS

In addition to facade detailed engineering, we provide all structural calculations required to determine the damage risks, limits, and characteristics of the facade. Most importantly to establish the physical qualities of the facade system for the panels and the substructure. Therefore, we provide the following as part of our scope:

- Axial pull-out and shear tests on facade panels with different types of fixings and anchors.
- Façade substructure system calculations.
- Wind load and seismic calculations and reports.

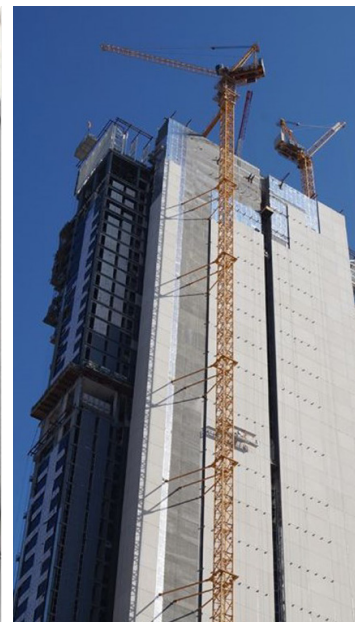


INSTALLATION SUPERVISION

Upon request, our well experienced technical staff can be assigned to supervise the facade construction throughout the preliminary and detailed planning, as well as the supervision of the facade installation from start to finish.

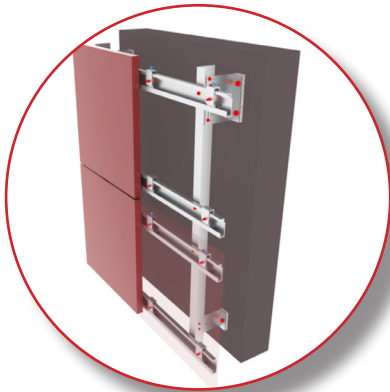
We can therefore develop and assess any challenges which require a special solution throughout the project's design and construction stages, and provide the following services:

- Building a 1:1 scale mockup of the substructure system on site.
- Special training of sub-contractors on panel cutting, drilling, processing, and handling.
- Training of contracted companies on substructure system and panels installation.
- Organizing and supervising anchor pullout tests.
- Site visits for technical clarifications.
- Support in schedule planning and monitoring.
- Monitoring of all stages of the facade installation.
- Quality control during construction.
- Finding special solutions for any conflicts arising through the planning or execution.

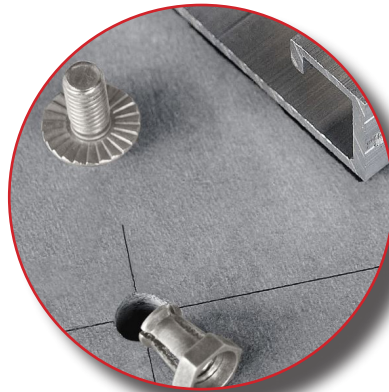




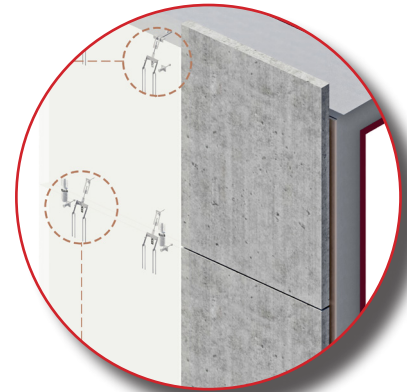
PRODUCTS



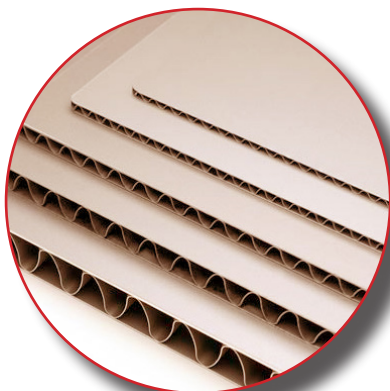
**Facade
Substructure
Systems**



**Undercut
Fixing
Systems**



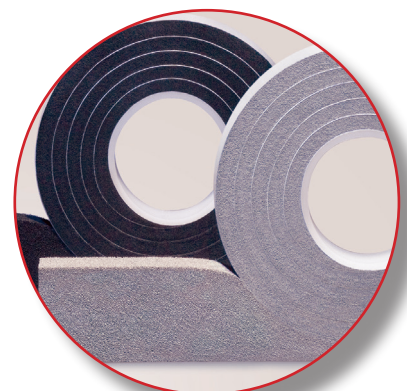
**Precast Concrete
Fixing
System**



**Aluminium
Lightweight
Sandwich Panels**



**Light
Transmitting
Concrete**



**Facade
Sealing
Accessories**

SUBSTRUCTURE SYSTEMS

GIP^l Fassade

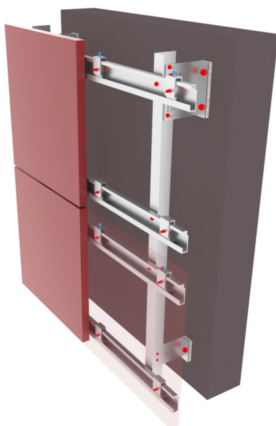
GIP GmbH is a manufacturer of metal substructure systems for ventilated curtain walls. The VECO® aluminium and steel substructure systems offer standardised solutions for fastening all widely used facade cladding materials. Each standard system is then supplemented by custom-made components specific to the project.

We at FAPINEX design and supply substructure systems and components which offer standardized solutions for fastening all widely used cladding materials.

VECO SYSTEM - FASTENING METHODS

Versatile substructure systems to accomodate all kinds of facade materials:

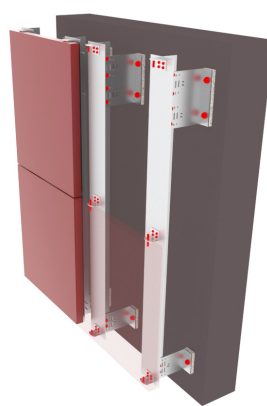
METAL PANELS	COMPOSITE PANELS	FIBER PANELS	TERRACOTTA PANELS
Aluminium Copper Zinc	Aluminium Composite High Pressure Laminate Stone Fiber	Fiber Cement Glass Fiber Reinforced Concrete Glass Fiber Reinforced Plastic	CERAMIC PANELS NATURAL STONE



VECO-A-2000

Invisible Fixation

Undercut anchors or
blind rivets



VECO-A-1040

Invisible Fixation

Natural stone fasteners/pins



VECO-A-1030

Invisible Fixation

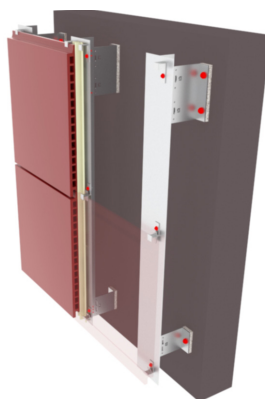
Adhesive

VECO SYSTEMS

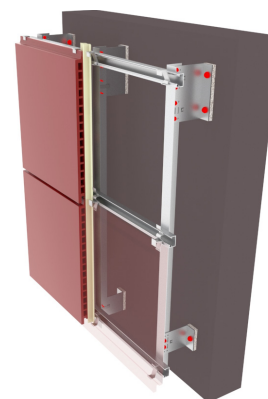
GIP¹ Fassade



VECO-A-1020
Visible Fixation
Clips



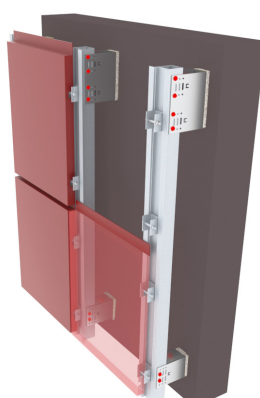
VECO-A-4010
Invisible Fixation
Clay tile clips



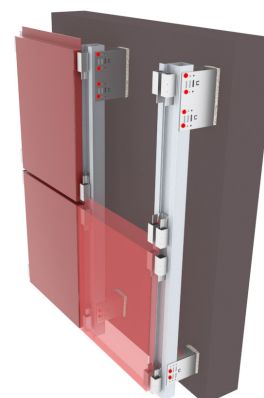
VECO-A-4011
Invisible Fixation
Clay tile clamps



VECO-A-1011
Visible Fixation
Bolts



VECO-A-3010
Invisible Fixation
Metal bolts



VECO-A-3020
Invisible Fixation
Hooks

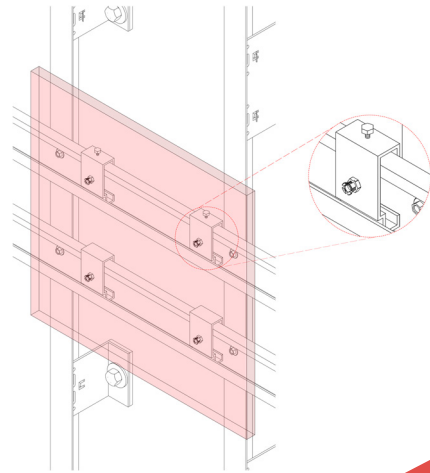
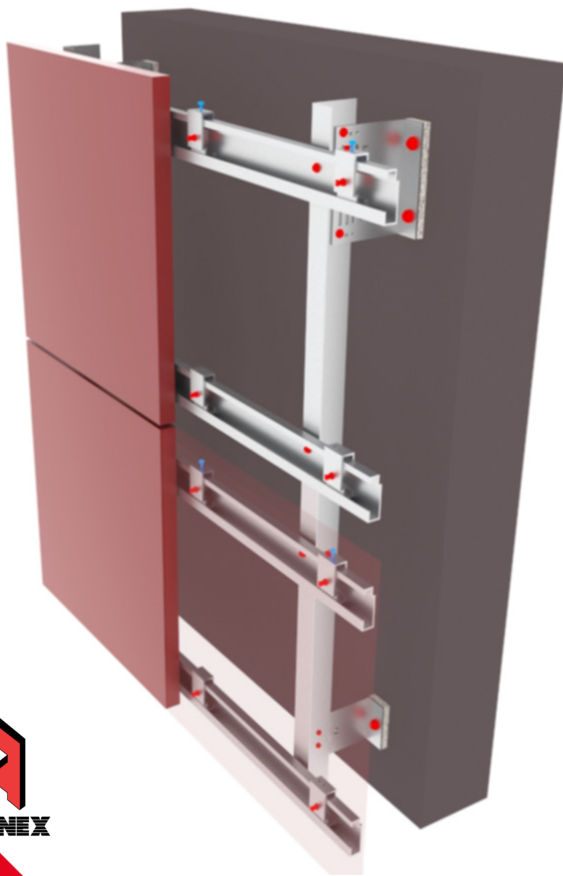


VECO-A-3030
Invisible Fixation
Horizontal Support System

VECO-A-2000

(INVISIBLE FIXING BY UNDERCUT TECHNIQUE)

Vertical aluminium substructure with L-profiles and horizontal agraffe profiles



Type of cladding:

Large and small format facade panels

Type of fastening:

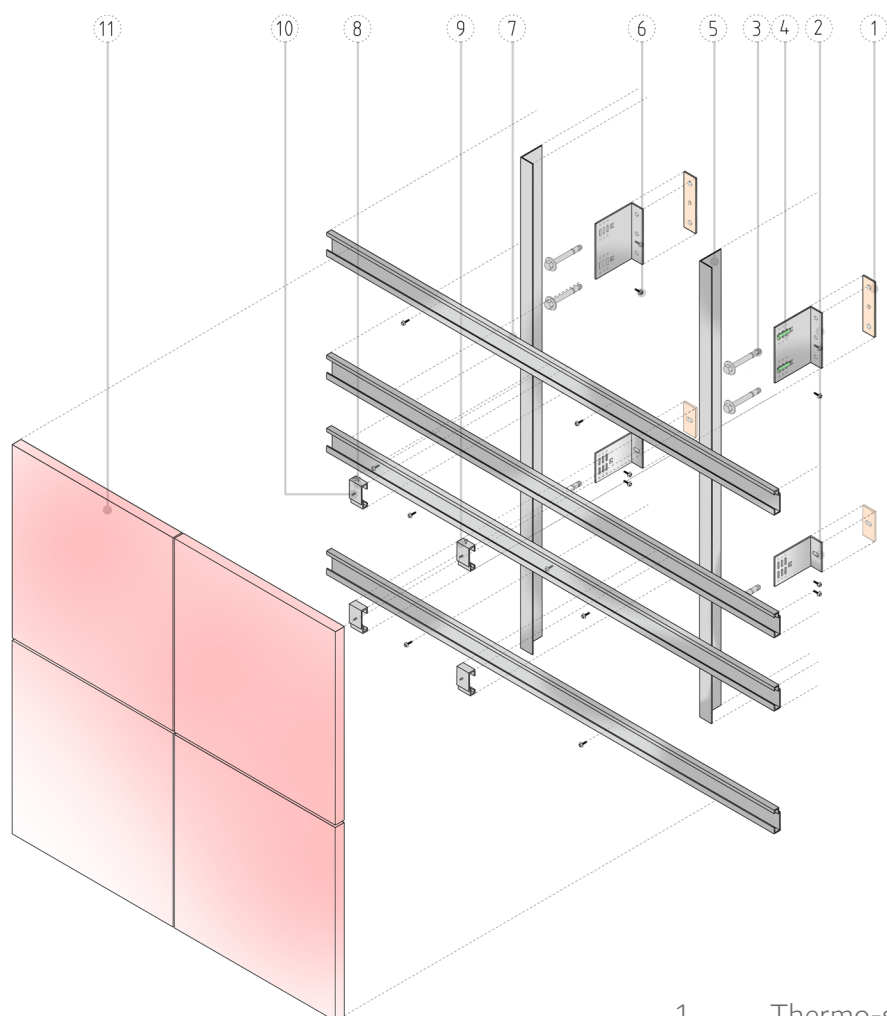
Invisible fixation
with undercut anchors or blind rivets

Facade cladding material:

Fiber cement
HPL (High Pressure Laminate)
Composite panels
Ceramic
Natural stone

AXONOMETRIC

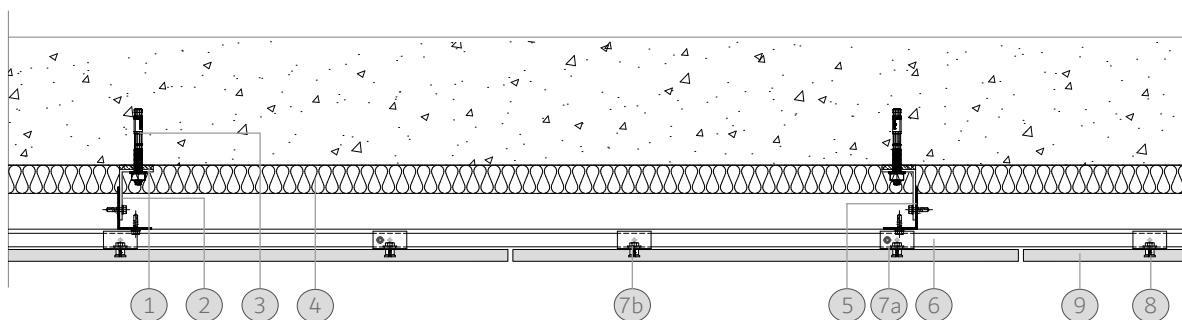
VECO-A-2000



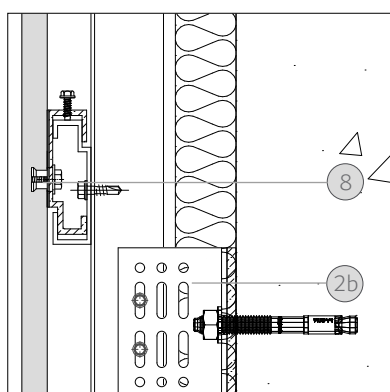
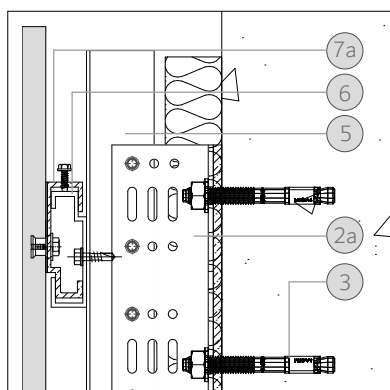
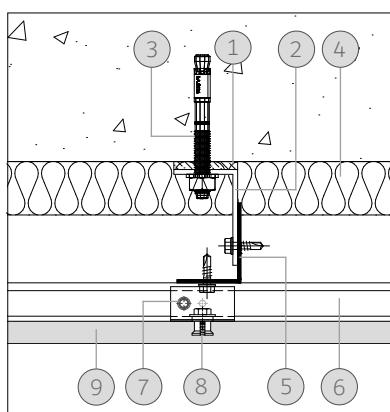
- 1 Thermo-stop
- 2 Wall brackets
- 3 Wall anchors
- 4 Spring clip for brackets
- 5 Vertical profile
- 6 Self-drilling screws
- 7 Horizontal channel
- 8 Agraffe (adjustable) incl. foam rubber+fixing screw +adjustment screw
- 9 Agraffe (adjustable) incl. foam rubber+ adjustment screw
- 10 Hidden undercut anchors
- 11 Cladding

SECTIONS

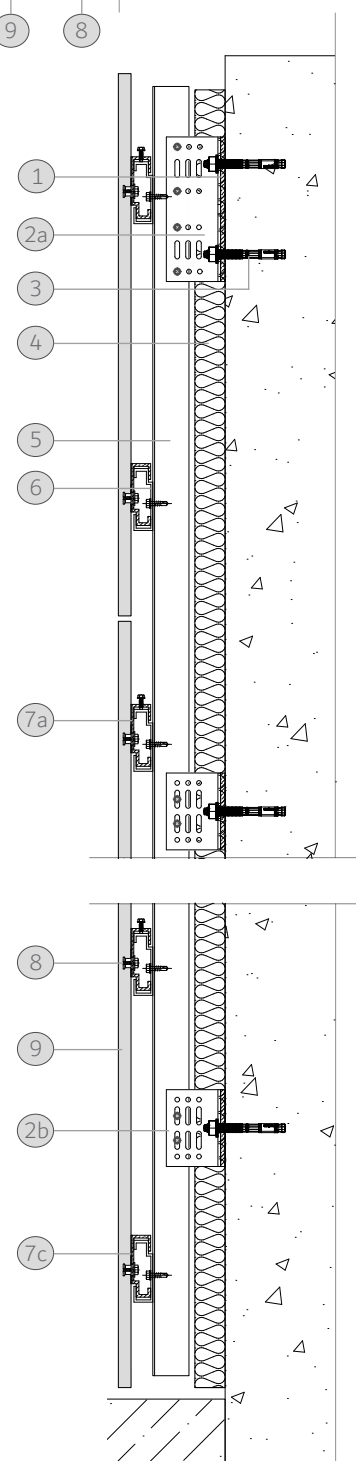
VECO-A-2000



HORIZONTAL SECTION



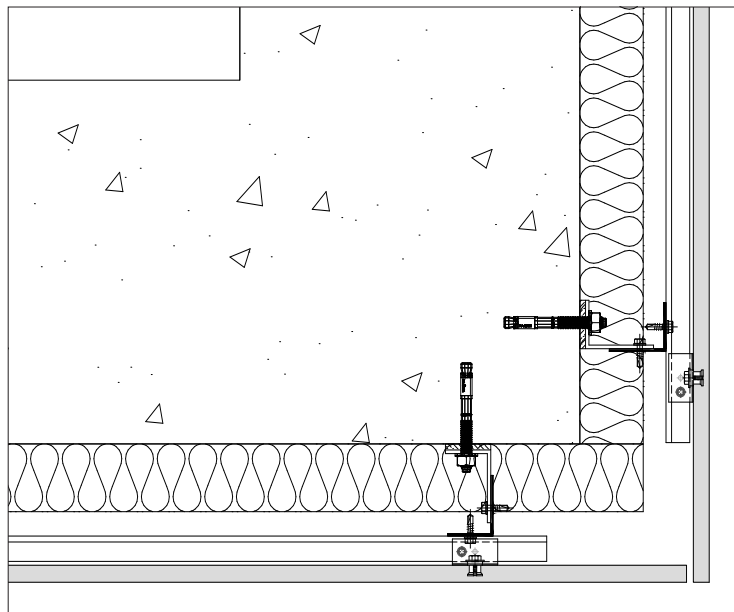
- 1 Thermo-stop
- 2a Wall bracket fixed point
- 2b Wall bracket sliding point
- 3 Wall anchors
- 4 Thermal insulation
- 5 Vertical profile
- 6 Horizontal channel
- 7a Agraffe (adjustable) incl. foam rubber+ fixing screw + adjustment screw
- 7b Agraffe (adjustable) incl. foam rubber+ adjustment screw
- 7c Agraffe (rigid) incl. foam rubber
- 8 KEIL undercut anchor
- 9 Cladding



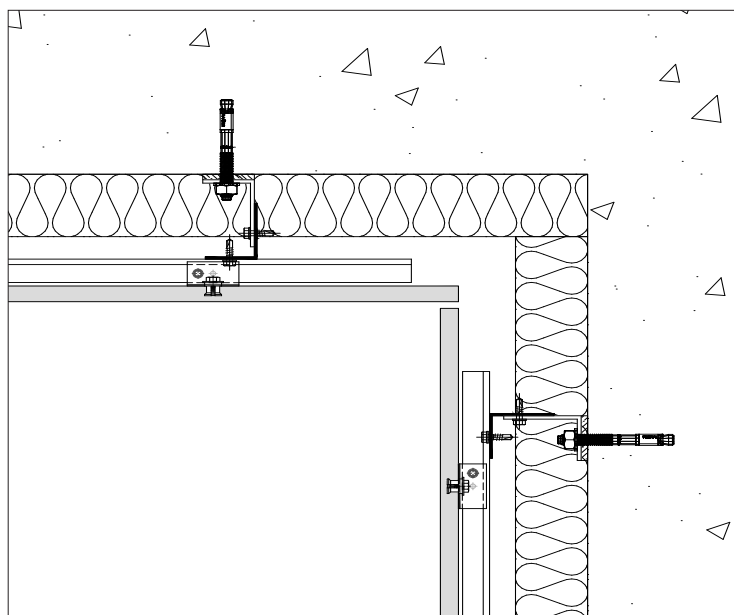
VERTICAL SECTION

CORNER DETAILS

VECO-A-2000



OUTER CORNER



INNER CORNER

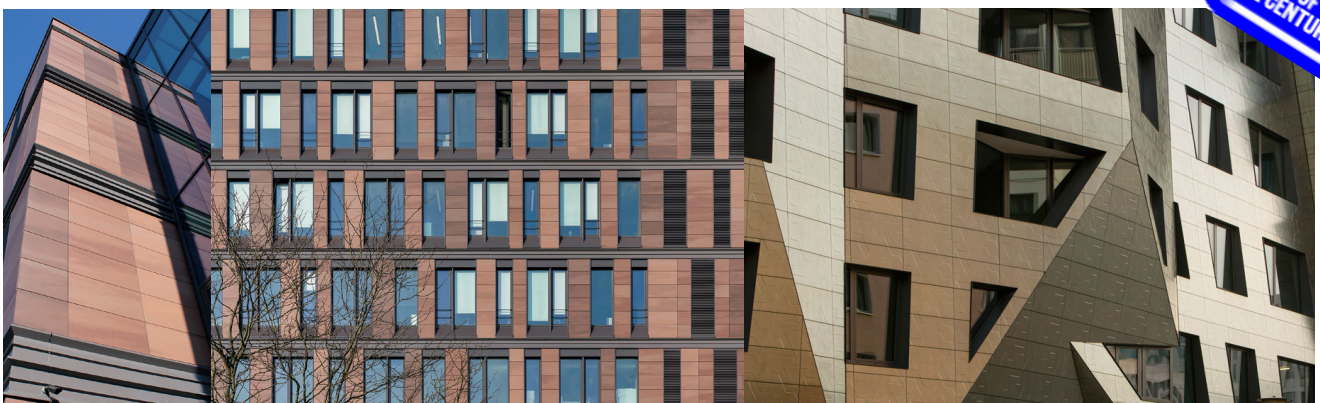
UNDERCUT FIXING SYSTEM



KEIL Befestigungstechnik GmbH

KEIL GmbH is a leading manufacturer of facade systems with undercut technology. With the aid of high-class facade panels, dreary building shells can be transformed into fascinating design objects. For architects, they provide countless possibilities for creativity. The secret behind this is the invisible attachment with an elaborate fastening, called undercut technique.

This technique is as simple as it is ingenious. By means of a patented drilling system, a blind hole with an expanded base is drilled into the backside of the facade panel. Subsequently, the KEIL undercut facade anchor is inserted into the hole. This anchor guarantees a positive-locking fixing, which is free of expansion force. As soon as the panel is equipped with the facade anchors, it can be easily mounted onto the ventilated supporting construction. The hidden undercut facade anchor keeps the aesthetics of the facade panel free from visible drill holes and other distracting elements.



Insertion depths

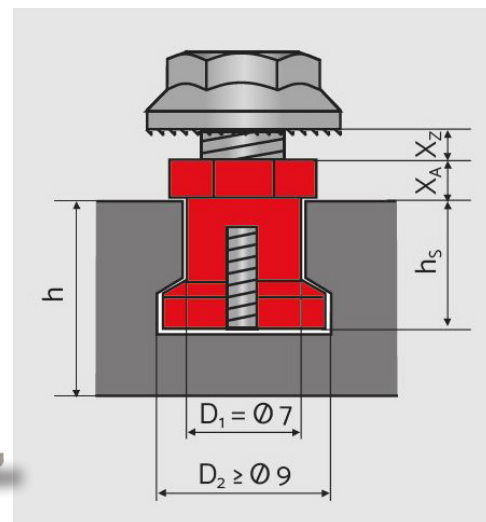


KEIL Undercut Anchor

The KEIL undercut anchor for the hidden attachment of thin panels is manufactured from stainless steel. Its geometry, which matches the KEIL undercut drill hole, guarantees an attachment free from expansion pressure in all common panel materials from a panel thickness of 6mm onwards. Different insertion depths are possible, depending on the thickness of the panel or the necessary bearing capacity. The KEIL undercut anchor is designed to carry more weight than that of the panel material. Due to its high assembly safety, the KEIL undercut anchor offers significant advantages.



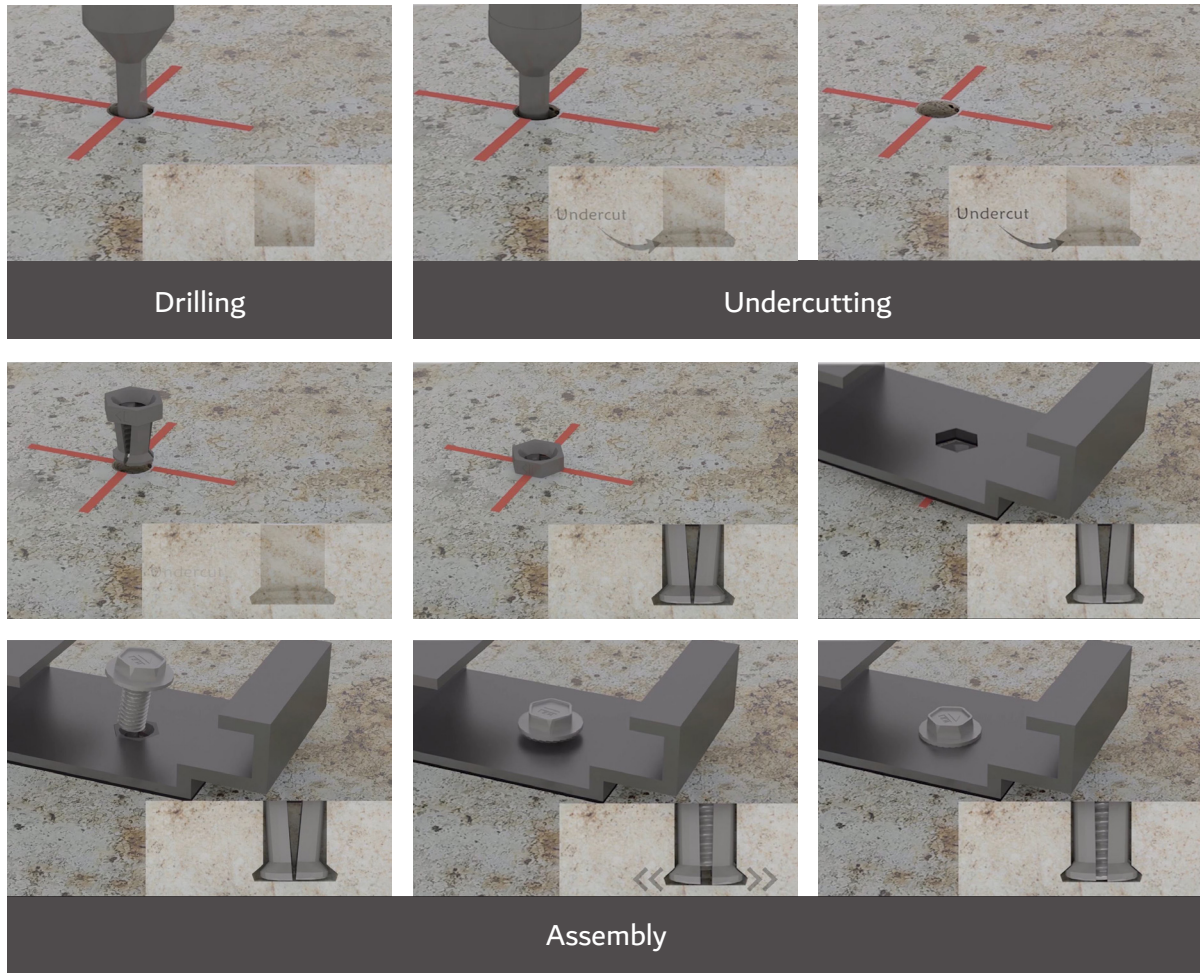
Geometry of the drill hole



D_1 = diameter of drill hole ($\text{Ø } 7 \text{ mm}$)
 D_2 = diameter of undercut ($\geq \text{Ø } 9 \text{ mm}$)
 h = panel thickness (from 6mm)
 h_s = insertion depth of undercut anchor
 x_A = anchor hex (3mm)
 x_Z = thickness of bracket (clamping thickness)



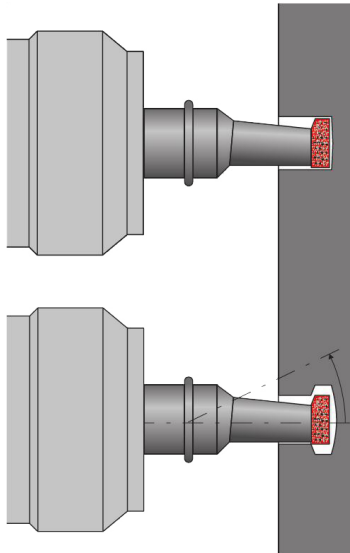
UNDERCUT FIXING SYSTEM



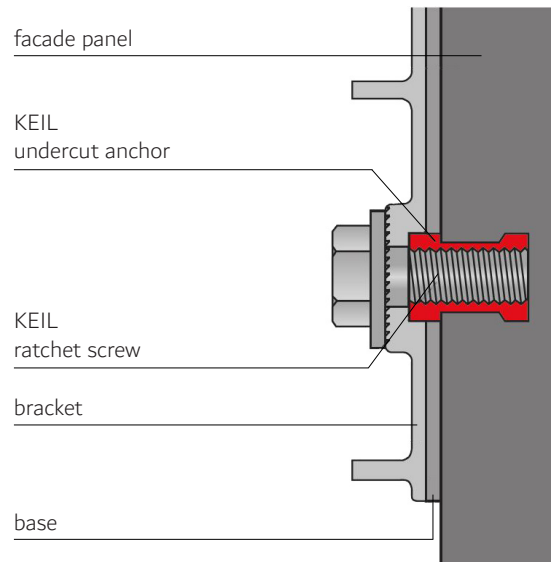
The Process

- Cylindrical drilling and conical undercutting are carried out in one single process and by only one tool
- Different levels of automation are possible, depending on the type of machinery and the material of the panel
- Drilling time for ceramics is less than 10 seconds
- Panels of any desired size and weight will get a patented undercut in a precise and consistent symmetric shape
- For the assembly, an undercut anchor is inserted into the hole and locked positively by a screw
- The assembly is fast, safe and simple

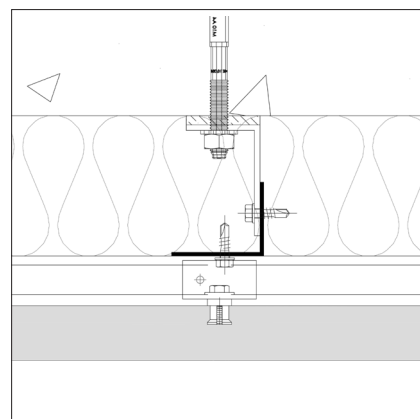
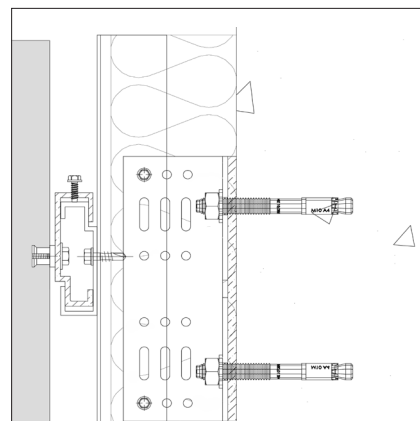
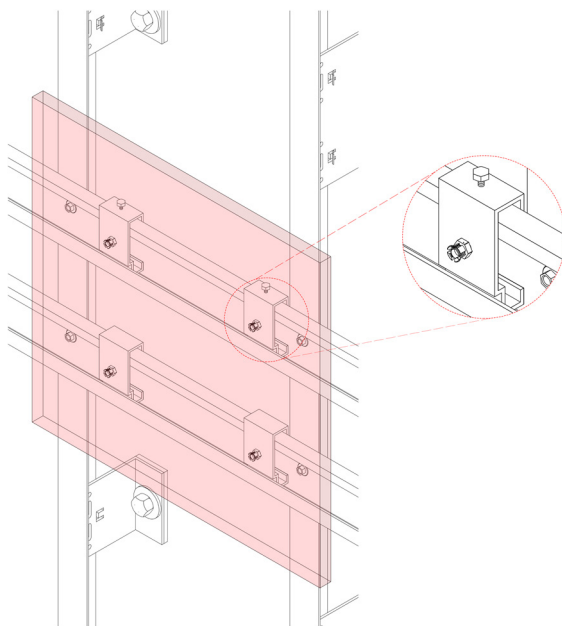
THE PROCESS



Drilling and undercutting in one step



Structure



UNDERCUT ANCHORS



Undercut anchor KH AA

Panel thickness: 6-18 mm

Insertion depth: 4-15 mm

Clamping thickness: 0- 6mm

Diameter drill hole: 7 mm

Diameter undercut: 9 mm



Undercut anchor KH AA 9-12

Panel thickness: 25mm

Insertion depth: 20mm

Clamping thickness: 0-6mm

Diameter drill hole: 9mm

Diameter undercut: 12mm



Undercut anchor KH BH

Panel thickness: 9.5-18 mm

Insertion depth: 7-15 mm

Clamping thickness: 1.5- 6.5 mm

Diameter drill hole: 7 mm

Diameter undercut: 9 mm



Plug-in anchor CA

Panel thickness: 15 mm

Bolt diameter: 8-22 mm

Diameter drill hole: 7 mm

Diameter undercut: 9 mm

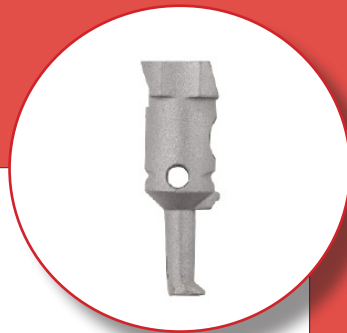
DRILLING MACHINES & ACCESSORIES



**Assembly Aid
/Depth Control**



Drilling Machines

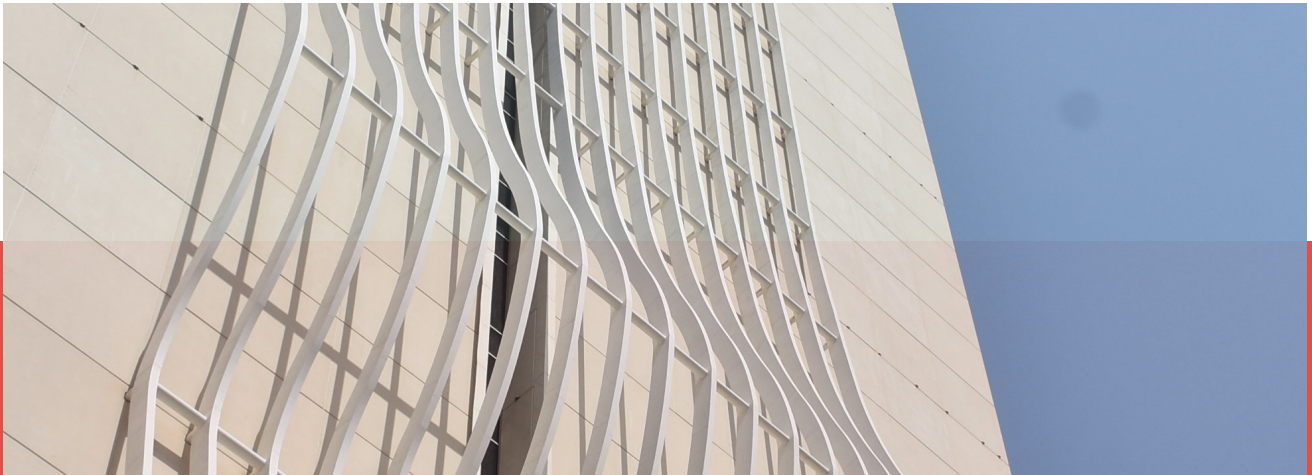


Drilling Tools



Fasteners

PRECAST CONCRETE FIXING SYSTEM

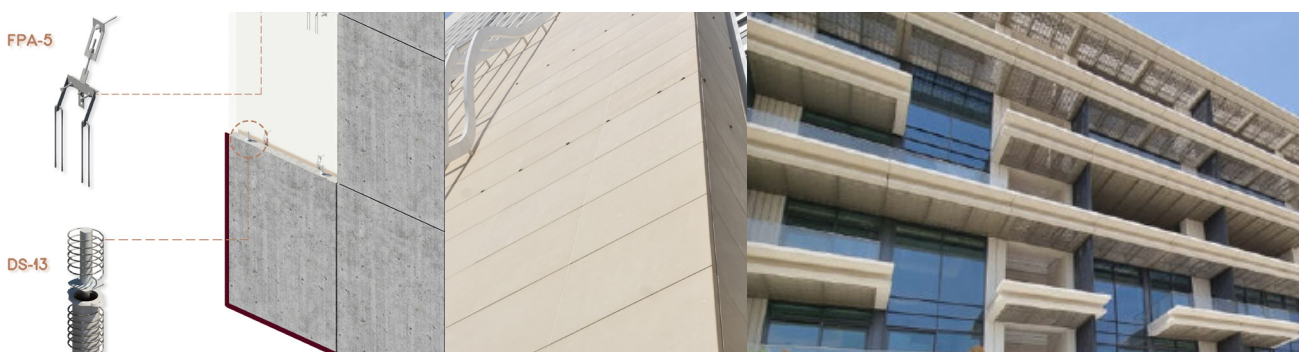


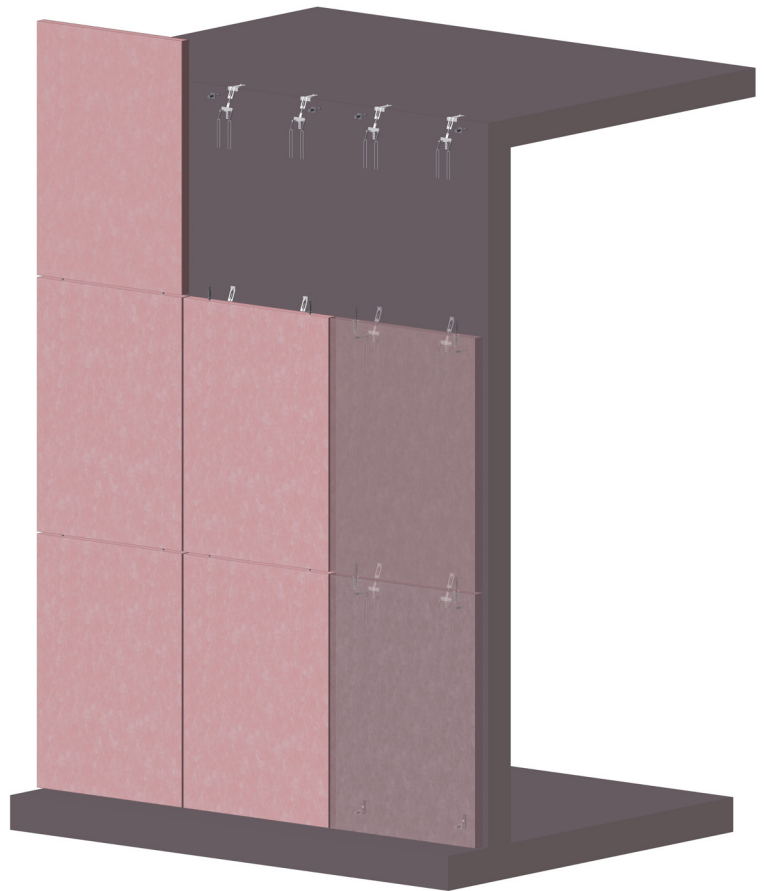
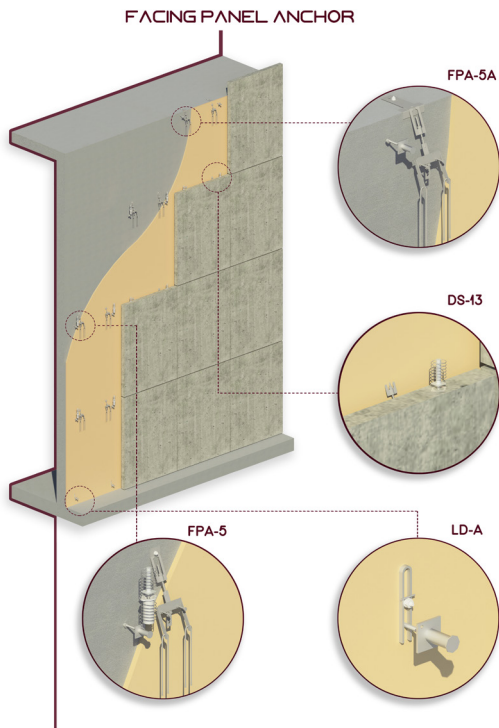
Precast Concrete Fixing System

With their simple style and complex shapes, concrete facades can provide architects and planners with innovative and contemporary designs. However, it is not only about the beauty of the facade panels, but the economical and functional precast concrete fixing components.

The precast concrete facade fixing system allows concrete facade slabs to be anchored to a supporting concrete structure in a fast and simple way.

In combination with horizontal anchorings, spacer bolts and dowel restraints, FPA (Facing Panel Anchors) anchors provide a reliable installation system for suspended, angled and parapet panels.





Facing panel anchors

Type of Cladding:

Large and small format facade panels

Type of fastening:

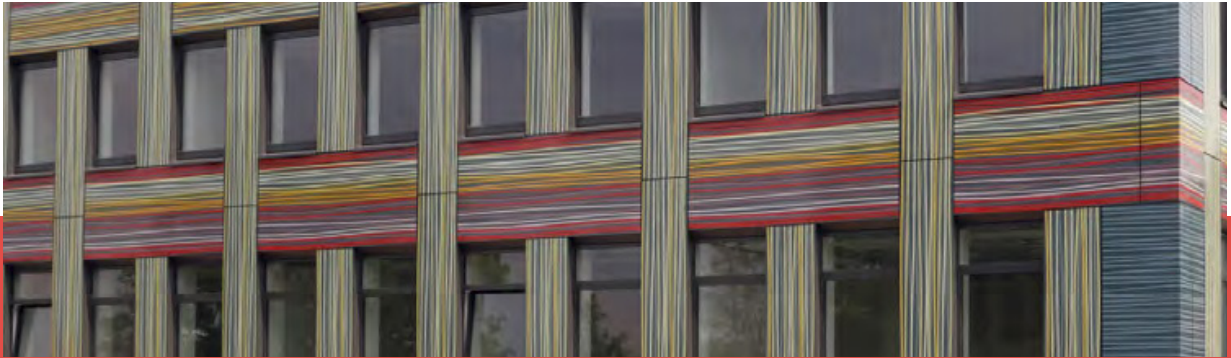
Invisible

Facade Cladding Material:

Precast Concrete

ALUMINIUM LIGHTWEIGHT PANELS

(Metal Sandwich Technology)



Metawell® GmbH

At the company's location in Neuburg in Germany, the company Metawell® GmbH has been producing and developing aluminium sandwich panels and lightweight components successfully for over 35 years.

The very light but extremely rigid sandwich panels are used for numerous applications. In addition to lightweight panels, the company also provides extensively pre-fabricated components, customized lightweight solutions and special products.

Metawell® is a patented lightweight sandwich panel consisting of two aluminium sheets with a corrugated aluminium core. The layers are glued together in a continuous manufacturing process. The aluminium is primed with a special coating, which guarantees a durable adhesive compound and a good corrosion protection. The lightweight and rigid panels enable high weight savings, especially in large formats.

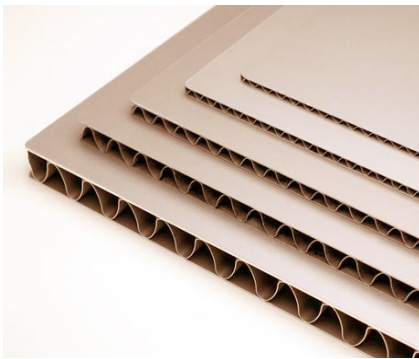


FURNITURE

FACADES

INTERIOR DESIGN

ALUMINIUM LIGHTWEIGHT PANELS



Metawell Standard



Metawell Aluflex

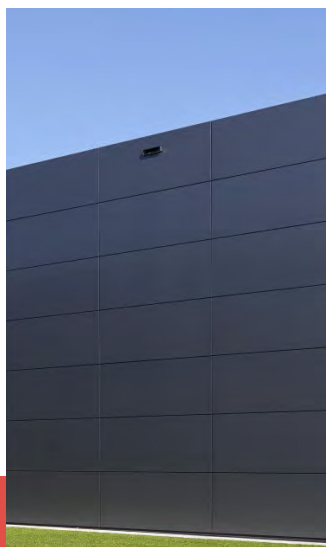


Special Solutions

Aluminium Lightweight Panels (Advantages)

- Lightweight aluminium panel with 2 cover sheets and a corrugated core
- Very lightweight yet rigid - maintains statical performance as solid aluminium but is 80% lighter
- High corrosion protection because all aluminium sheets are pretreated with a primer
- 100% recyclable without material separation
- Excellent thermal conductivity and sound absorption
- Absolute flatness
- High fire protection classifications for different areas
- Produced in a continuous manufacturing process
- Very high bending resistance
- Simple processing of the material with standard tools
- Coatable / Paintable surface

FACADES



METAWALL® AND METAWALL® A2

Depending on the required weight and fire classification, different panel types can be offered

	Metawall® for curtain wall facades	Metawall® A2 for rear-ventilated facades
Overall Thickness	10mm	15mm
Weight	5.2kg/m ²	6.8kg/m ²
Maximum panel size	Up to 1470mm x 6000mm With perfect flatness	Up to 1460 x 6000 mm With perfect flatness
Non-visible fixing methods	Glueing (for panels up to 4.3m) Riveting	Riveting
Fire classification according to DIN EN 13501	B-S2, D0 (flame retardant)	A2 – S1, D0 (non-combustible)

Metawall® and Metawall®A2 (Advantages)

- Pure aluminium sandwich panel for large facade element
- Weight savings thanks to lightweight construction
- Economical, due to larger spans and less substructure for big facade elements
- Various colours available (custom designs, decor, glass, metallic colours and colours of RAL, NCS, BS and Pantone)
- Non-visible fixing methods
- Sustainable, thanks to raw material savings and full recyclability (without material separation)
- Excellent corrosion protection (also of the core)

INTERIOR APPLICATIONS

(Acoustic Solutions)



Metawell® Acoustic Solutions

(Advantages)

- Adaptation of the reverberation time to the use of space
- Improved speech intelligibility
- Well-directed sound control or sound diffusion
- Uniform sound absorption over the entire frequency range
- Above 100% sound absorption for ceiling sails possible by additional sound absorption on the backside of the panel
- Low weight and low construction height of the panels
- Freedom of design
- Good heat conduction and therefore no measurable influence on the cooling and heating performance of concrete core tempering with enough space between the ceiling and panel
- Good accessibility because of the gap between the ceiling elements and the walls
- Easy and fast installation
- Low installation cost
- Acoustic fleece on the backside of the panel
- Different perforation sizes are possible

METAWELL® ACOUSTIC CEILINGS



Specifications

- Absorber class A (highly absorbent)
- Colour RAL 9010 (pure white)
- Filigree appearance (only 6mm thick)
- Can be overpainted
- Cutouts and additional attachments are possible
- Can be mounted under sloping ceilings
- Dimensionally stable and very rigid

METAWELL® ACOUSTIC ELEMENT (PERFECT 2000-W)

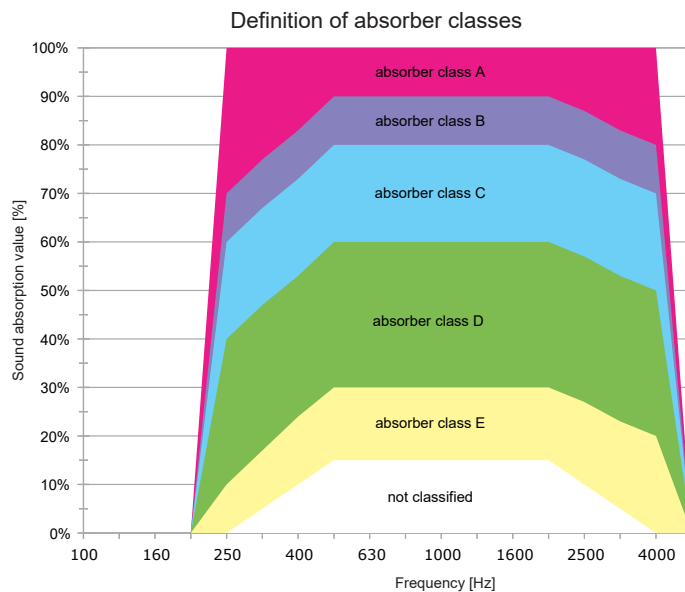


Metawell® Acoustic Element Perfect 2000-W (Characteristics)

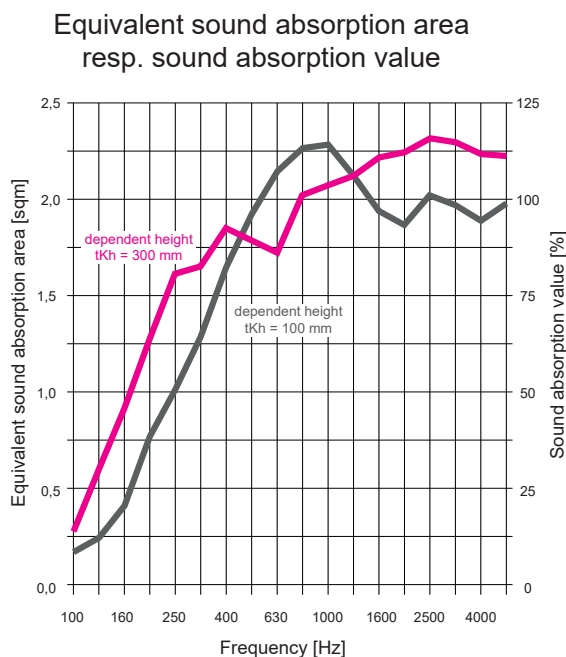
- Absorber class A (highly absorbent)
- Standard size 980 x 2000 mm
- Colour RAL 9010 (pure white)
- Filigree appearance (only 6mm thick)
- Total weight without LED is 8.9kg / with LED workplace lighting is 10 kg
- Can be overpainted
- Cutouts and additional attachments are possible
- Can be mounted under sloping ceilings
- Dimensionally stable and very rigid
- Fixing points barely visible
- Easy and fast installation

METAWELL® ACOUSTIC CEILINGS

Absorber Classes and Suspension Heights of Metawell® acoustic element Perfect 2000-W



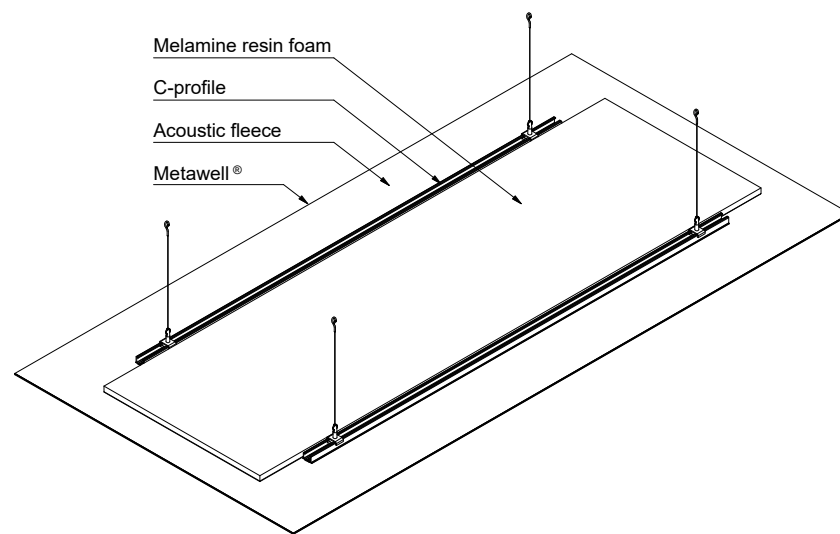
Acoustic elements are tested according to DIN EN 11654. On the basis of the result, the material is assigned to an absorber class A, B, C, D or E. The classification is based on the respectively evaluated sound absorption coefficient. Absorber class A is the highest sound-absorbing class



Equivalent sound absorption area and sound absorption value for suspension heights of 100 and 300mm

METAWELL® ACOUSTIC ELEMENT (PERFECT 2000-W)

Design of Metawell® acoustic element (Perfect 2000-W)



hook with
safety clamp
(to be hooked
in a suitable eyelet
on the ceiling)

wire rope
(to be threaded
in rope lock)

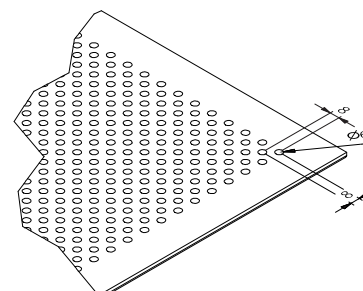
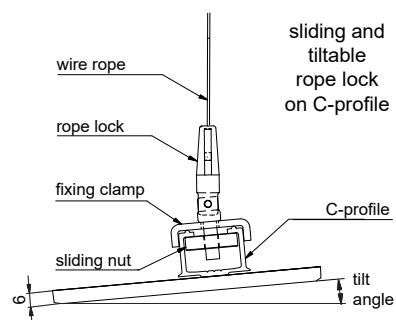
rope lock
(to be screwed
in sliding nut)

nut
washer
fixing clamp

sliding nut
(to be slid in
C-profile)

The hinge of the rope lock has to be adjusted to the declension of the panel to prevent the wire rope from kinking.

If diamond-shaped sliding nuts (dashed drawn) are used, take care that the contact edge is parallel to the C-profile (as illustrated) and that both linear clamping zones are in contact.





Metawell® acoustic element Perfect 2000-W with LED workplace lighting



Metawell® acoustic ceiling element Perfect 2000-W

INTERIOR APPLICATIONS (Acoustic and Radiant Ceilings)

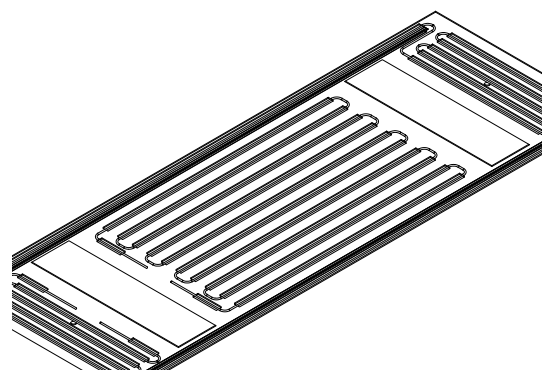
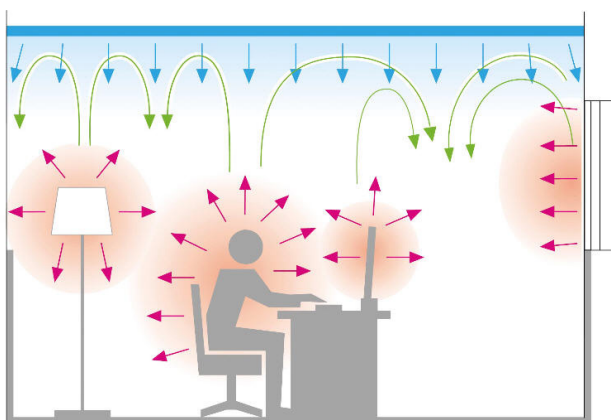
Heating and cooling rooms efficiently and creating pleasant room acoustics with radiant and acoustic ceilings

The term radiant ceiling refers to a suspended – in most cases also sound-absorbing – ceiling, which can heat and cool a room. Radiant ceilings work like the sun by means of radiation. In the heating process warm water flows through the copper pipes on the backside of the panel. In the cooling phase, the Metawell® ceiling element absorbs the heat radiation of the room. Thereby the floor, walls and furnishings cool down and as a result the room temperature drops.



Convection and radiation in the room

- Air flow
- Thermal radiation
- Cooling



METAWELL® RADIANT CEILING

(Advantages)

Economics

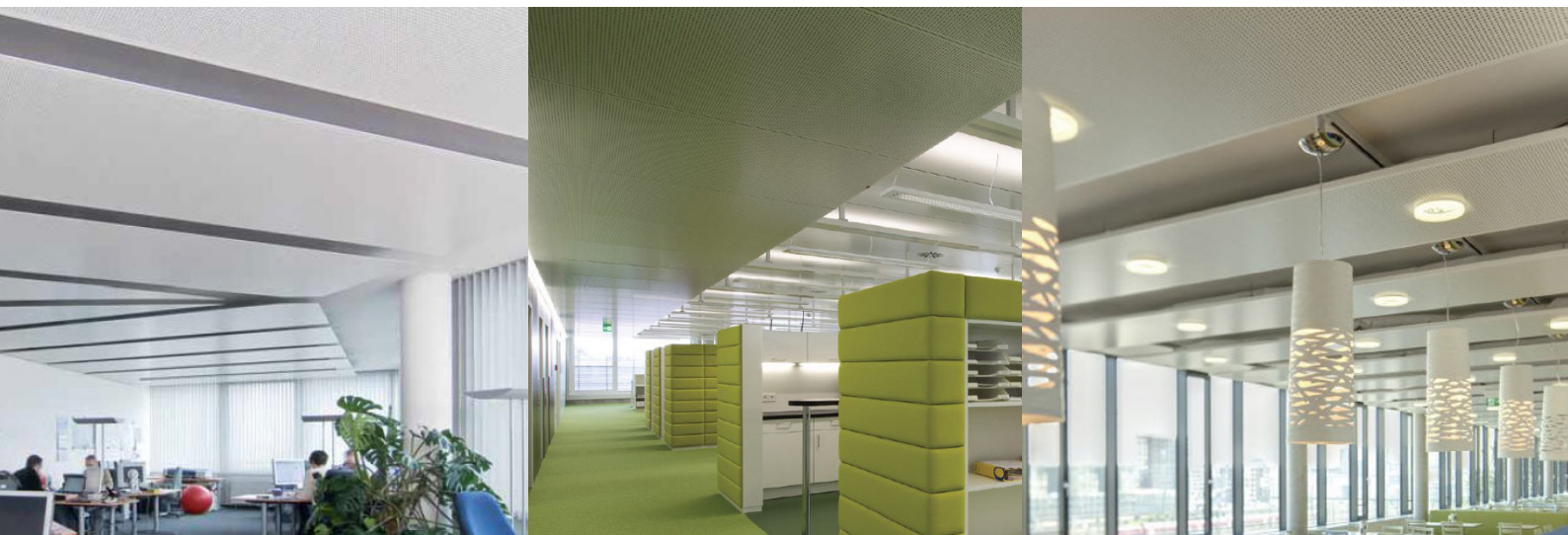
- Heating and cooling with one system
- Lower energy consumption, since the perceived room temperature can be set 1-2 °C lower
- Less space in the ceiling cavity and in the technical center, since water is a better energy source than air
- Hardly any maintenance cost
- High performance allows a lower occupancy density
- Fast and easy installation
- Quick reaction time because of excellent heat conductors aluminium and copper

Well-being

- Radiation heat like the sun
- No noise disturbance and no noticeable breeze
- No swelling of bacteria and dust
- Good room acoustics due to high sound absorption
- Equal temperature level in the room

Architecture

- Various contour and edge geometries
- Different surfaces and coatings
- Unlimited flexibility in planning, room design and room layout
- Easy installation of sprinklers, lamps and maintenance flaps
- Thin ceiling construction thanks to low construction height
- Low weight
- High load capacity by sandwich structure
- Unique flatness
- Suitable for every floor plan



INTERIOR APPLICATIONS (Interior Design)



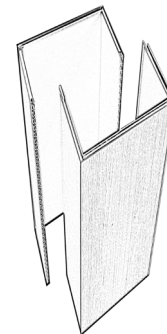
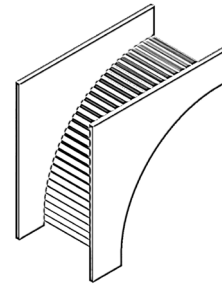
Mirror-like ceiling elements

Metawell® aluminium sandwich panels impress with the diversity of application possibilities. The exceptionally bending resistant, lightweight aluminium panels are ideal for walls and partitions, floors, functional ceilings, furniture, shop design and more.

Metawell® panels for interior design (Advantages)

- Lightweight aluminium panels with unique flatness and stability despite thin panel height
- Digital printing, lamination and coating for surfaces
- On request powder-coatable panels can be offered
- Easy processing by using commercial woodworking machinery and proven methods of carpenters - both in the workshop or directly on board
- Corrosion protection, also of the core
- 100 % recyclable

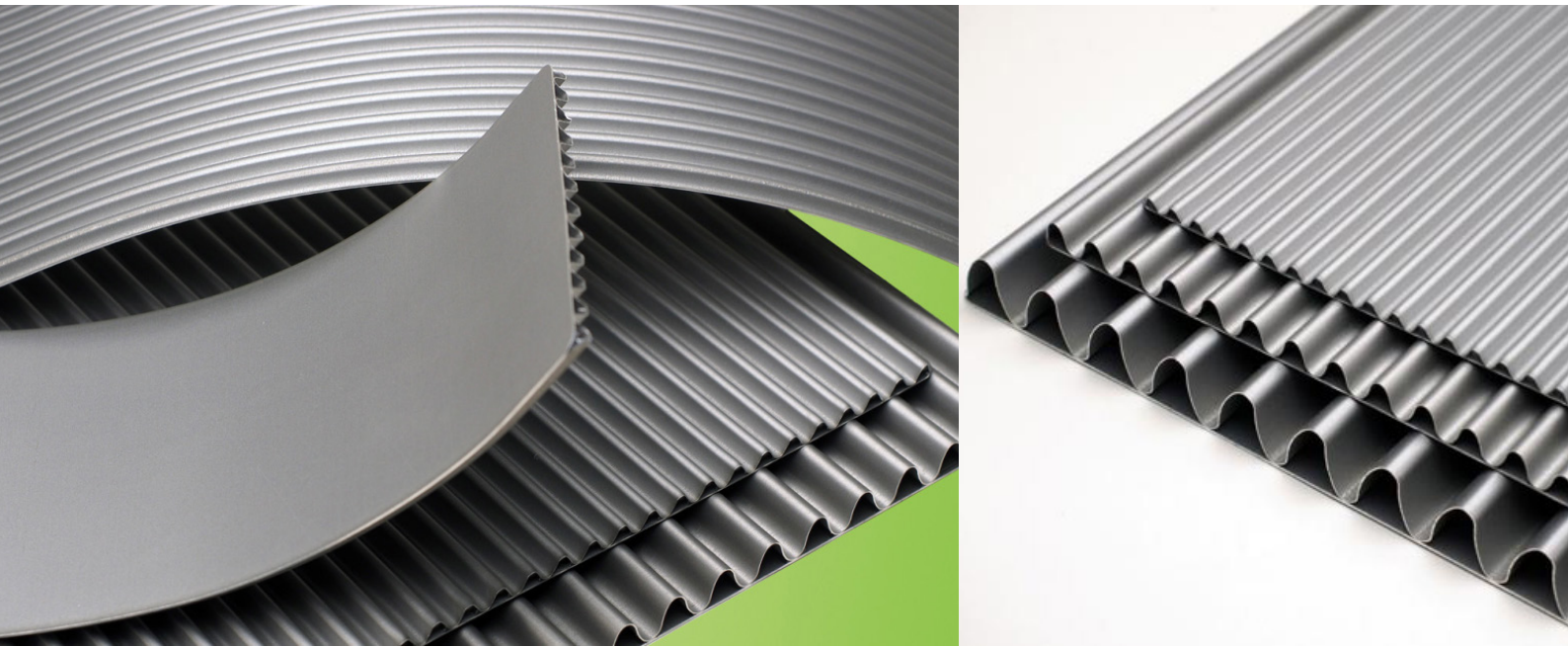
METAWELL® PANELS



Beams with Metawell®

INTERIOR APPLICATION

(Metawell Aluflex Panels)



Ideal for Interior Design and Furniture Applications

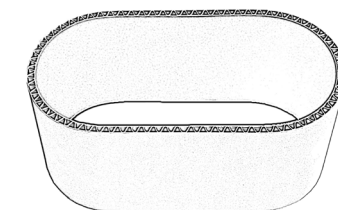
Metawell® Aluflex is a material with rigidity levels that depend strongly on the direction. The corrugated sheet is bonded to only one aluminium cover sheet. This structure enables easy 2D-forming and provides a high rigidity to curved lightweight elements like curved ceilings or columns.

Metawell® Aluflex Panels (Advantages)

- Lightweight aluminium panel, where a cover sheet is connected to a corrugated aluminium sheet in a continuous manufacturing process
- Material with highly anisotropic stiffness, resulting in a very simple two-dimensional shaping
- Simple processing of the material with standard tools
- High corrosion protection since all used aluminium sheets are pretreated with a primer
- 100% recyclable without prior separation of materials. The proportion of secondary aluminium is 90%

METAWELL® ALUFLEX PANELS

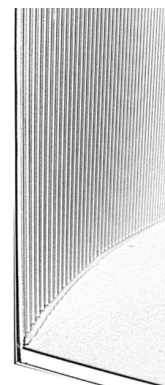
Metawell
metal sandwich technology



Furniture with Metawell® Aluflex



Columns with Metawell® Aluflex

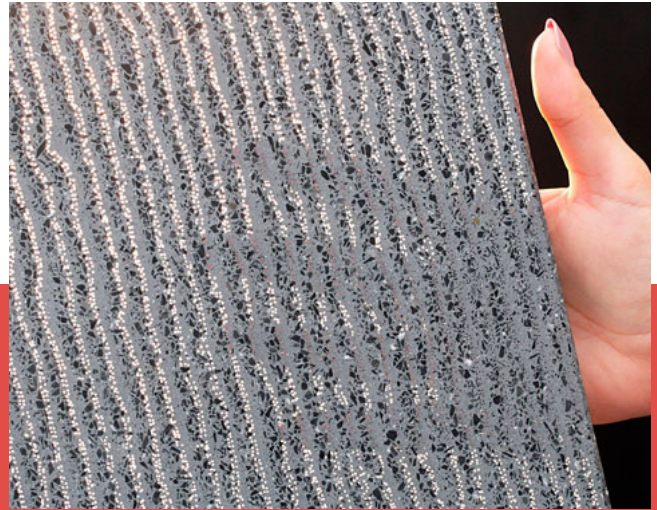


Wall cladding with Metawell® Aluflex

LIGHT TRANSMITTING CONCRETE



White color



Anthracite color

Our unique Light-Transmitting concrete panels are fully produced in Germany, and processed like natural stone in the form of slabs. The panels have a very smooth surface finish, and are designed and engineered to transmit natural or artificial light from one side of the panel to the other by the use of fiber optics.

Our panels are perfectly engineered to have full light translucency without any loss in the transmitted intensity or variation in colour; they are produced and treated like natural stone making them very tough and completely weather proof to fulfill the capacity for exterior and interior applications. There are boundless applications for our light-transmitting panels ranging from facades to walls, floors, ceilings, furniture, and accessories.

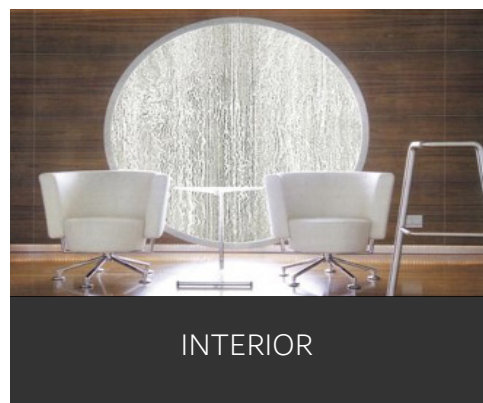
Additionally, we can supply LED panels, stripes, and modules which can be perfectly matched and coupled to the light-transmitting panels in order to provide a special back-lighting technology that can transmit over 16 million colours with special effects such as still, dynamic, gradient, and music-matching backlighting.

LIGHT TRANSMITTING CONCRETE

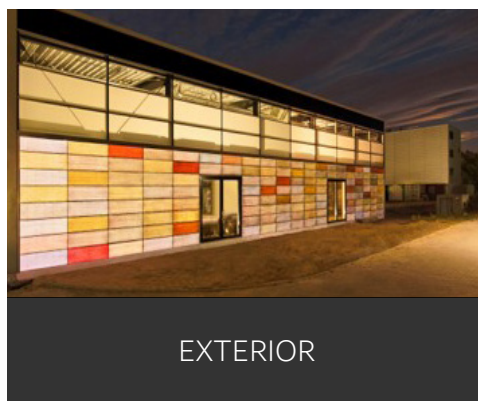
(Applications)



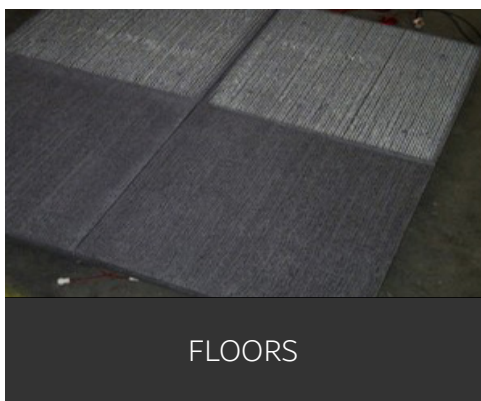
FURNITURE



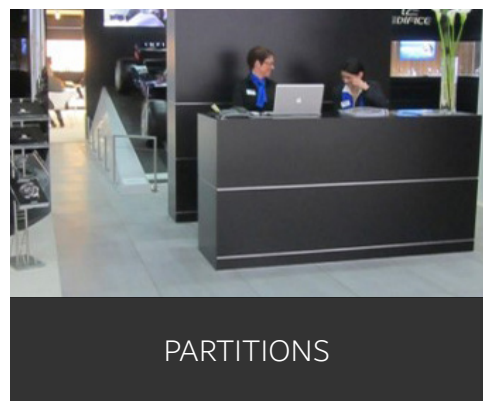
INTERIOR



EXTERIOR



FLOORS



PARTITIONS

LIGHT TRANSMITTING CONCRETE

(Specifications)

- Tested and approved to be fire, frost, and UV resistant
- Exquisitely unique design and fiber optic pattern
- Available in multiple colours and surface textures

Panels available dimensions:

1200 x 600 mm

1600 x 600 mm

Panels available thicknesses:

15 mm

20 mm

30 mm

Panels available in **Anthracite** and **White** coloured pure-concrete format without fibers, these panels are non-translucent however they are produced with the exact same mixture to maintain the panels' outstanding properties, surface finish, and colour.

As per the client's request, our panels can also be supplied ready for fixing with post-installed undercut anchors placed at agreed locations.





FACADE SEALING ACCESSORIES

(Pre-compressed Joint Sealing Tapes)



ISO-CHEMIE GmbH

The technical requirements of energy-efficient and long-term building seals are increasing all the time. ISO-CHEMIE's innovative products solutions have a positive effect on the energy balance of buildings, at the same time promoting a healthy internal climate. Factors such as airtightness, permanent movement, weather resistance, emission free, thermal and acoustic insulation as well as humidity and fire protection are important properties of a standard conforming building seal. The constant quality of our sealing system is monitored regularly by independent institutes according to the very latest standards and regulations.

As a leader in sealing technology, ISO-CHEMIE has a range of high-performance joint sealing products for window installation, in front of the wall installation, solid construction, industrial/commercial construction and metal facade construction. Their sealing solutions help to achieve a positive building energy balance. The system components specially developed for reliable building waterproofing are coordinated in function and application and meet the strict requirements of the Building Energy Act.

They supply high quality pre-compressed joint sealing tapes, which are especially designed and manufactured to provide the best sealing solution for the following applications:

- Construction joints (including moving joints)
- Precast Concrete joints
- Skylights
- Between cladding panels
- Curtain Walling
- Perimeter seals around windows and doors

ISO³ - Facade Sealing System



ISO-BLOCO 300



ISO-BLOCO 600
(Colour Edition)



ISO-BLOCO 600

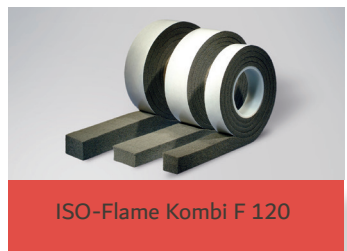
ISO^F - Fire Protection System



ISO-Flame Brick S 90



ISO-Flame Plug S 90



ISO-Flame Kombi F 120

ISO³ - Window Sealing System



ISO-BLOCO 600
(Colour Edition)

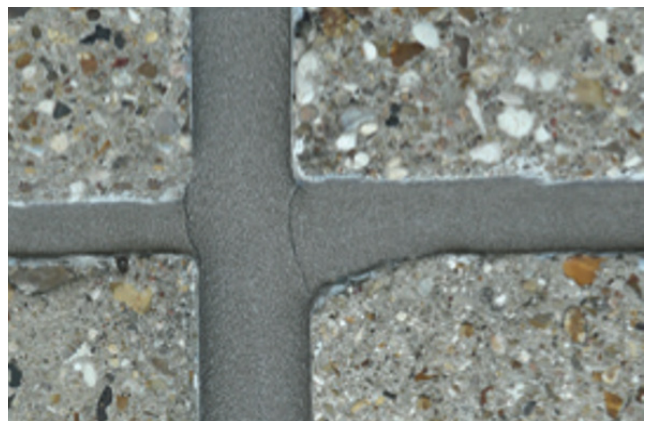
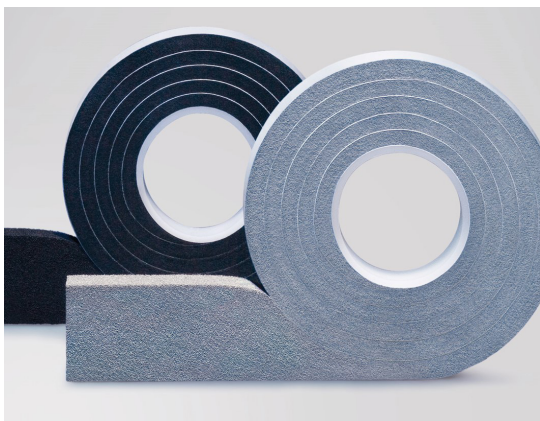


ISO-BLOCO ONE

ISO-BLOCO 600 (Premium Edition)

ISO-BLOCO 600 is a PUR sealing tape impregnated with a fire resistant polymeric dispersion.

It fulfils the stringent requirements of the DIN 18542 edition 2009. In addition to providing protection against driving rain to a minimum of 600 Pa (equivalent to wind force 11 – Violent Storm) the vapour permeable joint sealing tape also possesses outstanding thermal and acoustic characteristics, as well as allowing for diurnal movement.



(Advantages)

- Reliability through a wider joint application range
- Seals against wind, dust and driving rain
- Vapour diffusion permeable
- Good adhesive properties, to aid application
- Permanently elastic with long term life expectancy
- Can be painted over with standard emulsion paints
- Compatible with all known standard building materials
- Applications in all construction areas and building types
- Available in pre-painted tapes a ISO-BLOCO 600 (Colour Edition)
- 10 Year Function Warranty*

ISO-BLOCO 600 (Premium Edition)

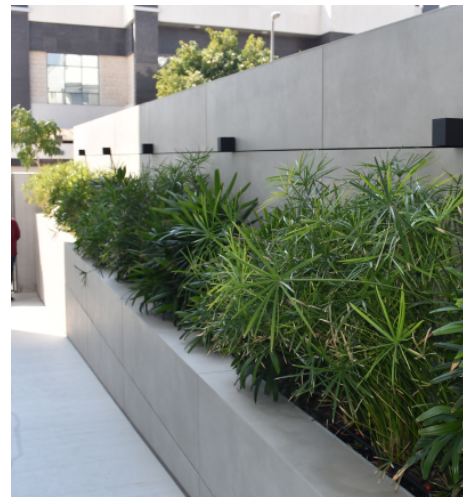
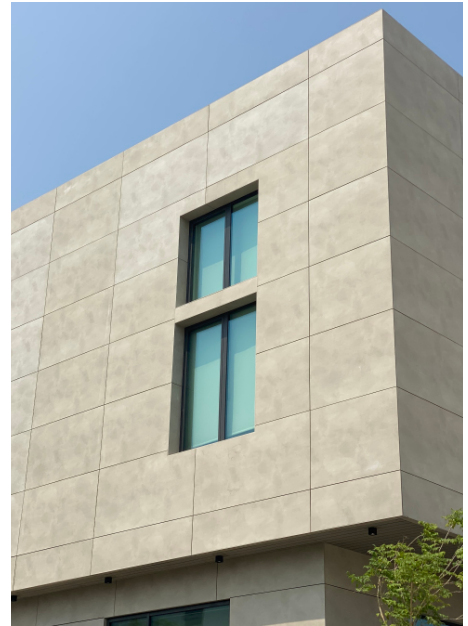
Technical Data	Standard	Classification
Material description		impregnated PUR flexible foam
Basis		fire resistant polymeric dispersion
Colour		grey, black
Classification, according to	DIN 18542	BG1 and BGR
Air permeability coefficient (External application BG1)	DIN EN 12114	$a \leq 1.0 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^n]$ ift externally supervised
Air permeability coefficient (Internal application BGR)	DIN EN 12114	$a \leq 0.1 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^n]$ ift externally supervised
Impermeable to driving rain, single joint	DIN EN 1027	$\geq 600 \text{ Pa}$, externally supervised by ift Rosenheim
Impermeable to driving rain, joint intersection	DIN EN 1027	$\geq 600 \text{ Pa}$
Temperature stability range	DIN 18542	-30°C to +90 °C
UV light and weather stability	DIN 18542	requirements fulfilled
Compatibility with adjacent building materials	DIN 18542	requirements fulfilled
Dimension tolerance	DIN 7715 T5 P3	requirements fulfilled
Building material class	DIN 4102	B1 (fire resistant)
Thermal conductivity	DIN EN 12667	$\lambda = 0.052 \text{ W/m} \cdot \text{k}$
Water vapour diffusion resistance μ	DIN EN ISO 12572	≤ 100
Long term stability		10 year performance guarantee*
sd-value	DIN EN ISO 12572	$\leq 0.5 \text{ m}$ for 50mm width (vapour diffusion permeability)
Shelf life		2 years, dry and in original packing
Storage temperature		+1 °C to +20°C

Tape width / area of application	Recommended BG1 joint width
8 / 1 - 2mm 10 / 1 - 2mm 15 / 1 - 2mm	1 - 2mm
10 / 1 - 4mm 15 / 1 - 4mm 20 / 1 - 4mm	1 - 4mm
15 / 2 - 6mm 20 / 2 - 6mm 30 / 2 - 6mm	2 - 6mm
15 / 4 - 9mm 20 / 4 - 9mm 30 / 4 - 9mm	4 - 9mm
15 / 5 - 12mm 20 / 5 - 12mm 30 / 5 - 12mm	5 - 12mm
15 / 6 - 15mm 20 / 6 - 15mm 30 / 6 - 15mm	6 - 15mm
20 / 9 - 20mm 25 / 9 - 20mm 30 / 9 - 20mm	9 - 20mm
25 / 11 - 25mm 30 / 11 - 25mm	11 - 25mm
35 / 18 - 34mm 40 / 18 - 34mm	18 - 34mm
40 / 24 - 42mm 50 / 24 - 42mm	24 - 42mm



COMPLETED PROJECTS





Private Villa Project in Jumeirah

COMPLETION DATE: January 2021

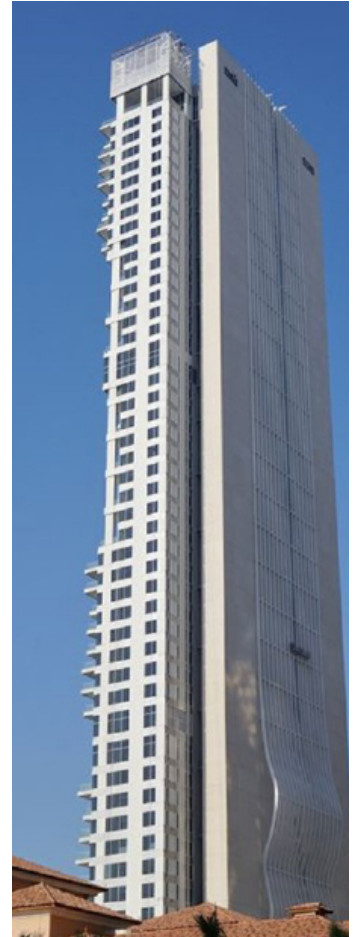
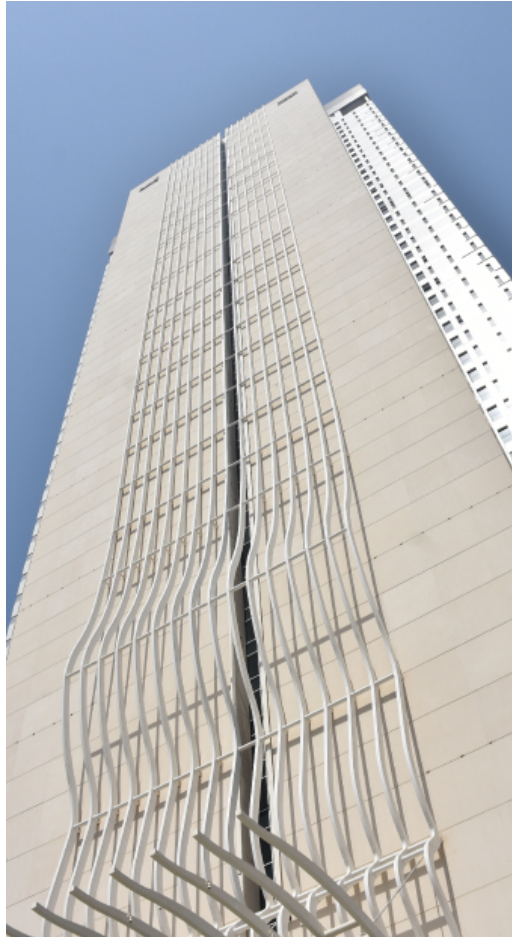
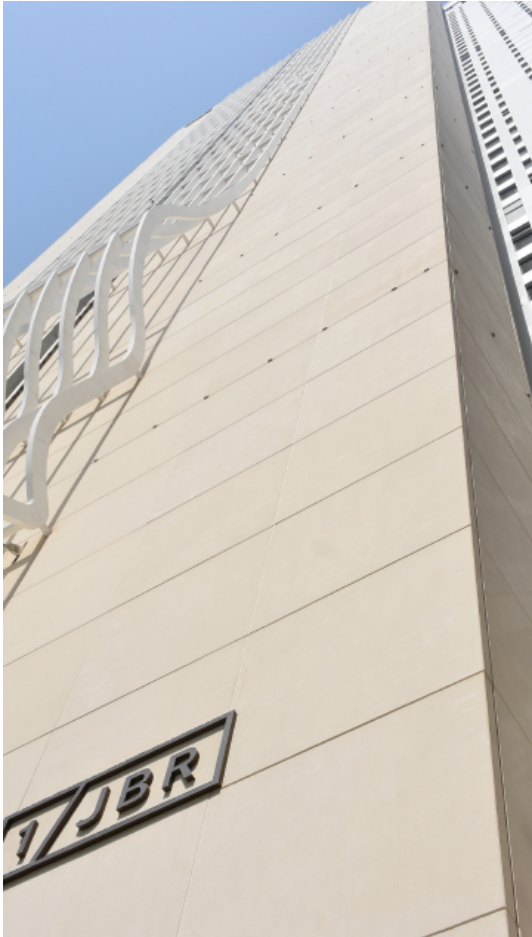
LOCATION: Dubai, UAE

FACADE CLADDING MATERIAL: RAK Ceramics Panels

FACADE SUBSTRUCTURE SYSTEM: VECO Aluminium Substructure, KEIL Undercut Fixing System

PRODUCTS USED: Aluminium Substructure / Undercut anchors / Joint sealing tapes for windows

SERVICES: Facade Design & Engineering / Substructure System Design & Supply / Installation



1/JBR Residential Tower

COMPLETION DATE: December 2020

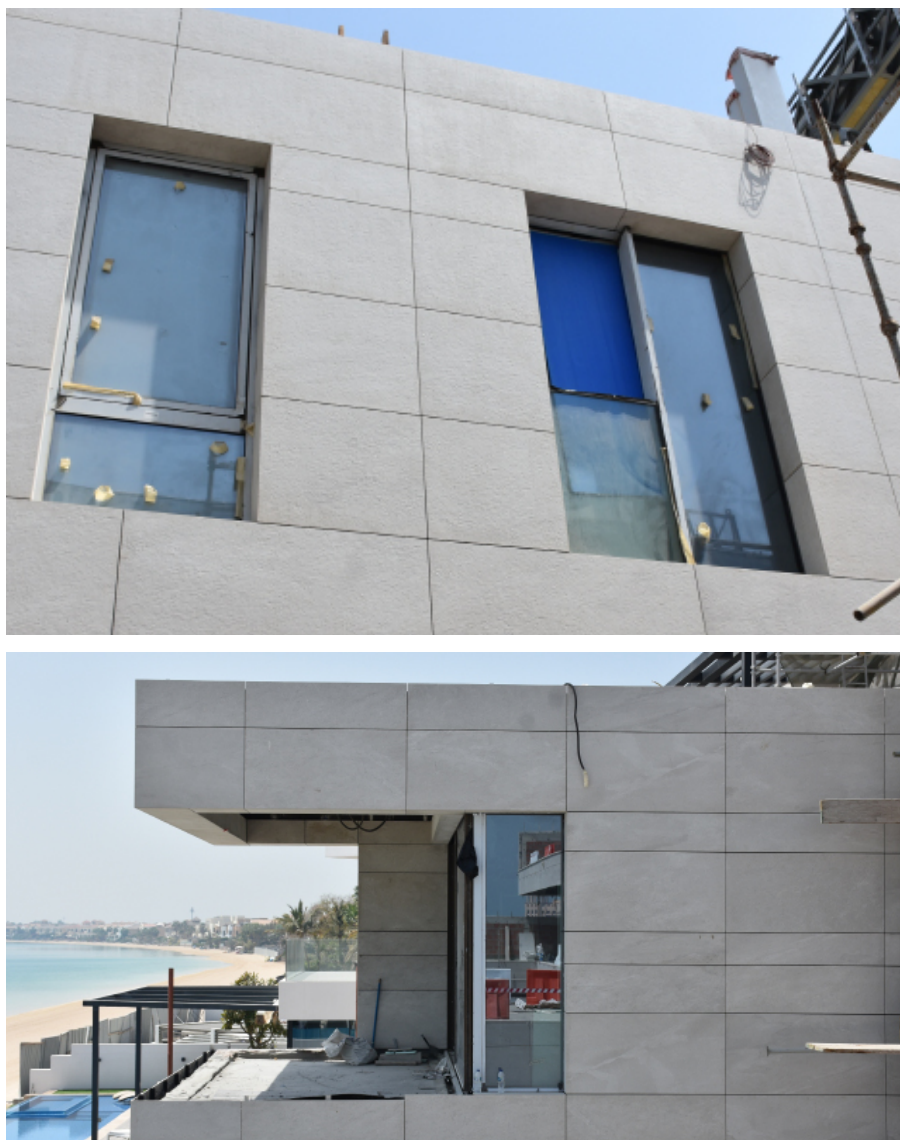
LOCATION: Dubai, UAE

FACADE CLADDING MATERIAL: Precast Concrete Facade Panels

FACADE SUBSTRUCTURE SYSTEM: Precast Fixing System with FPA (Facing panel anchors)

PRODUCTS USED: Facing Panel Anchors

SERVICES: Substructure System Design & Supply



Four Private Villas in Palm Jumeirah

COMPLETION DATE: June 2022

LOCATION: Dubai, UAE

FACADE CLADDING MATERIAL: Porcelain

FACADE SUBSTRUCTURE SYSTEM: VECO Aluminium Substructure System / KEIL Undercut Fixing System

PRODUCTS USED: Aluminium Substructure / Undercut & Reveal anchors

SERVICES: Substructure System Design & Supply



Qaryat Al Hidd Buildings Saadiyat Island

COMPLETION DATE: December 2022

LOCATION: Abu Dhabi, UAE

FACADE CLADDING MATERIAL: Cosentino DEKTON Panels

FACADE SUBSTRUCTURE SYSTEM: Aluminium Substructure, KEIL Undercut Fixing System

PRODUCTS USED: Undercut anchors

SERVICES: Undercut Anchors Supply



Al Aziz Mosque

COMPLETION DATE: June 2015

LOCATION: Abu Dhabi, UAE

FACADE CLADDING MATERIAL: Light transmitting Concrete (Special Customized Panels)

FACADE SUBSTRUCTURE SYSTEM: Aluminium Substructure

PRODUCTS USED: Aluminium Substructure / Light Transmitting Concrete Special Panels

SERVICES: Facade Design & Engineering / Substructure System Design & Supply / Installation



Four Seasons Canal Residences

COMPLETION DATE: February 2023

LOCATION: Dubai, UAE

FACADE CLADDING MATERIAL: Precast Concrete Eaves

FACADE SUBSTRUCTURE SYSTEM: Precast Fixing System with FPA (Facing Panel Anchors) anchors

PRODUCTS USED: Facing Panel Anchors

SERVICES: Substructure System Design & Supply



VIDA Hotel Dubai Creek Harbour

COMPLETION DATE: December 2022

LOCATION: Dubai, UAE

FACADE CLADDING MATERIAL: Precast Concrete

FACADE SUBSTRUCTURE SYSTEM: Precast Concrete Substructure System with FPA (Facing Panel Anchors)

PRODUCTS USED: Facing Panel Anchors

SERVICES: Substructure System Design & Supply



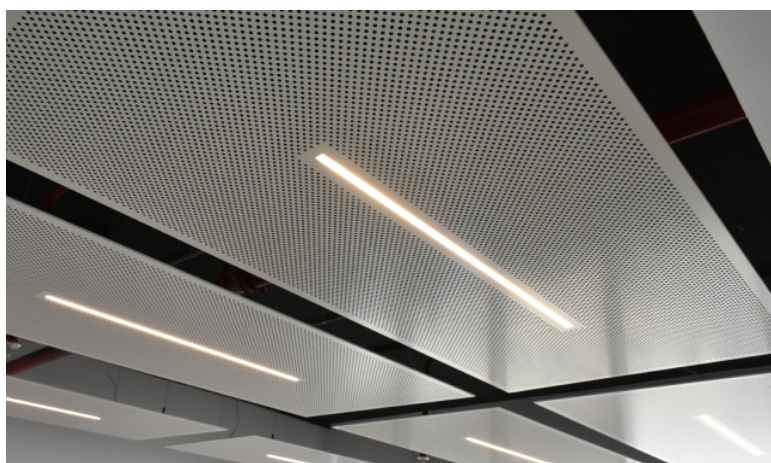
e.construct Dubai Office

COMPLETION DATE: January 2021

LOCATION: Dubai, UAE

PRODUCTS USED: Metawell® Aluminium Lightweight Sandwich Panels for Interiors (Radiant & Acoustic Panels)

SERVICES: Radiant & Acoustic Panels Supply



FAPINEX Office & Showroom

COMPLETION DATE: March 2021

LOCATION: Dubai, UAE

PRODUCTS USED: Metawell® Aluminium Lightweight Sandwich Panels for Interiors (Acoustic Element Perfect 2000-W)

SERVICES: Acoustic Panels Supply



Al Wasl Plaza, Leadership Pavilion, DUBAI EXPO 2020

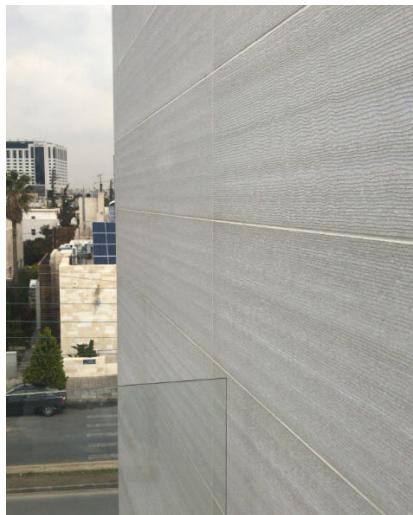
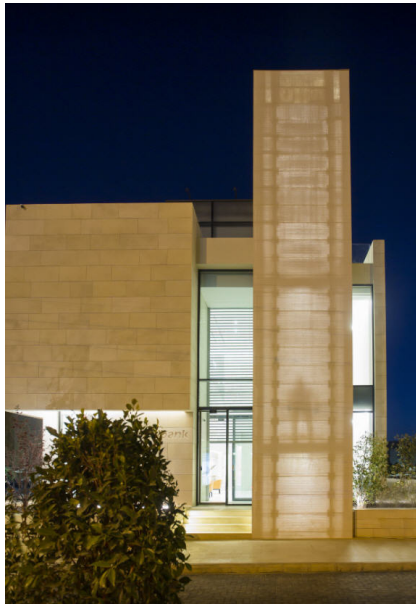
COMPLETION DATE: September 2021

LOCATION: Dubai, UAE

FACADE CLADDING MATERIAL: Glass Fiber Reinforced

Concrete **PRODUCTS USED:** KEIL Undercut Anchors

SERVICES: Supply of KEIL Undercut Anchors



Capital Bank Amman

COMPLETION DATE: 2018

LOCATION: Amman, Jordan

PRODUCTS USED: KEIL Undercut Anchors

SERVICES: Supply of KEIL Undercut anchors

COMPANY LICENSE





رخصة تجارية Commercial License

تفاصيل الرخصة / License Details

License No.	778194	رقم الرخصة
Company Name	FAPINEX GENERAL TRADING L.L.C	اسم الشركة
Trade Name	FAPINEX GENERAL TRADING L.L.C	الإسم التجاري
Legal Type	Limited Liability Company - Single Owner(LLC - SO)	الشكل القانوني
Expiry Date	14/03/2024 تاريخ الإنتهاء	تاريخ الإصدار
D&B D-U-N-S ®	0	رقم الرخصة الام
Register No.	2102409 رقم السجل التجاري	عضوية الغرفة
Issue Date	15/03/2017	
Main License No.	778194	
DCCI No.	286099	

الأطراف / License Members

Share / الحصص	Role / الصفة	Nationality / الجنسية	Name / الإسم	No./ رقم الشخص
100.00%	Shares Owner / مالك حصص	Jordan / الاردن	نزیه احمد اسعد غانم	117594
			NAZIH A A GHANEM	
	Manager / مدير	Jordan / الاردن	احمد نزیه احمد غانم	660747
			AHMAD NAZIH AHMAD GHANEM	
	Manager / مدير	Jordan / الاردن	نزیه احمد اسعد غانم	117594
			NAZIH A A GHANEM	

نشاط الرخصة التجارية / License Activities

General Trading تجارة عامة

العنوان / Address

Phone No	تليفون	P.O. Box	336558	صندوق بريد
Fax No	فاكس	Parcel ID	674-289	رقم القطعة
Mobile No	هاتف متحرك		nazihdxb@eim.ae	البريد الإلكتروني / Email

مكتب رقم 2502-ملك إي كونستركس منطقة حره-الحبيه الاولى

الملاحظات / Remarks

Print Date 10/10/2023 12:58 تاريخ الطباعة

Receipt No. 15265959 رقم الإيصال



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