

TRIMO

RNV



RENOVATION HANDBOOK

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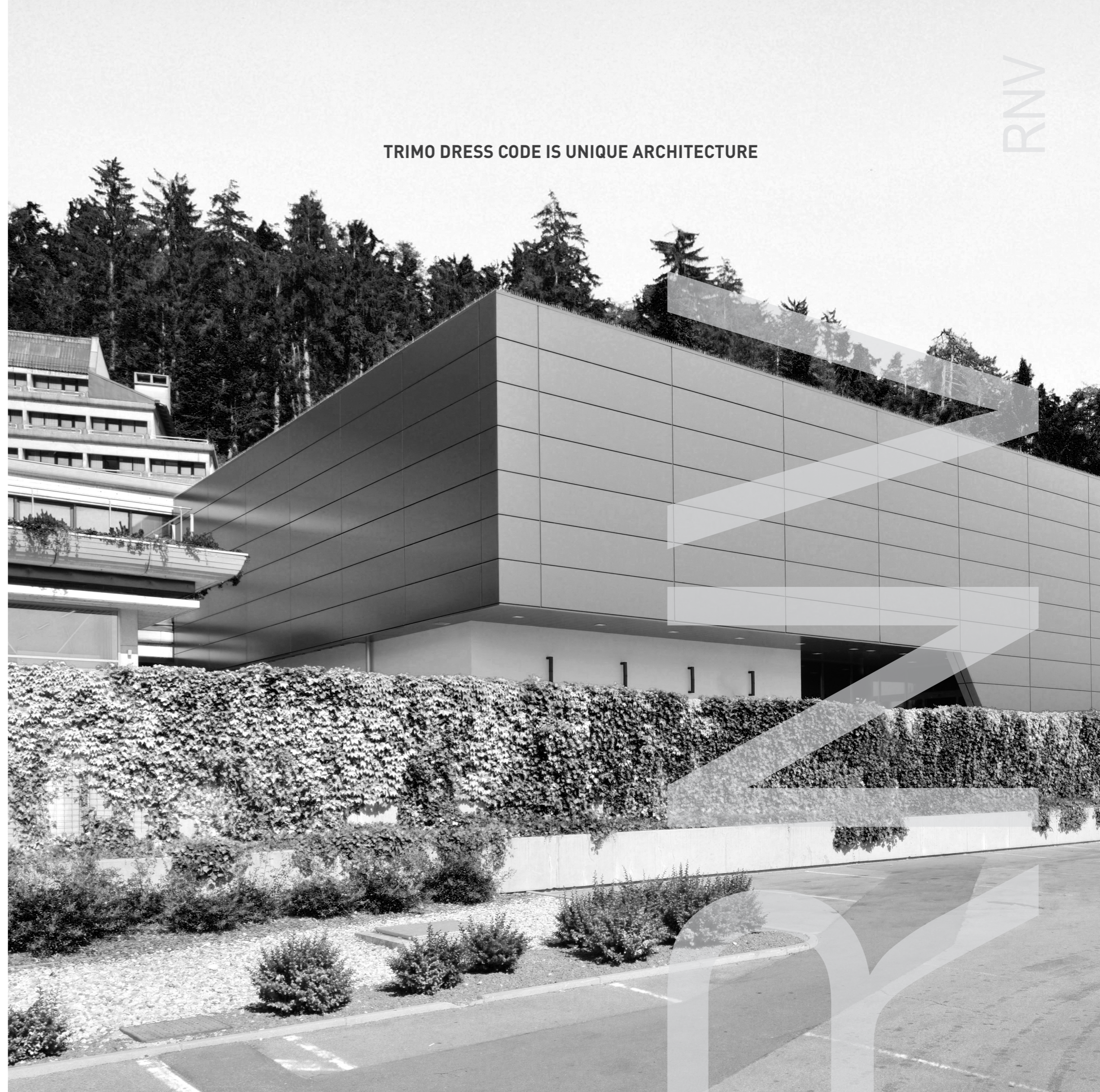
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TRIMO DRESS CODE IS UNIQUE ARCHITECTURE

RNV



RENOVATION BRINGS A BETTER WORLD

The era that we live in challenges us to innovate wisely and create a better world than before. Some facts and numbers face us with necessity of changing the mindset to improve the lives of people and living beings on our only planet Earth by acting responsibly. Today, every inhabitant of the European Union produces an average of 487 kg of waste per year. The ocean level rises by 3.4mm every year. The global average surface temperature has risen by 2°C since the pre-industrial era. Every minute, 60 acres of rainforest are lost and up to 2,000 animal species become extinct each year, while the human population grows for about 83 million a year. Human actions have a major impact on climate change, and we must take responsibility to prevent further global warming. Buildings worldwide account for 30% of greenhouse gas emissions and without intervention and action, this percentage will increase to 50% by 2050.

Increasing the energy efficiency of buildings is one of the few areas where cost savings by reducing the energy consumption exceed the cost of investment. The construction sector, according to the Intergovernmental Panel on Climate Change (IPCC), can achieve the most carbon emission savings per dollar spent, which is 40% more than the next most cost-effective sector.

The energy efficiency of buildings can be achieved in two ways, namely by building new buildings with the highest energy efficiency requirements according to the Nearly Zero-Energy Building standard or by renovating buildings according to the same requirements and standards.

Source: <https://www.ipcc.ch/documentation/>
https://en.wikipedia.org/wiki/Main_Page

KEY ENVIRONMENT CHANGE FACTS

487 kg

AN AVERAGE ANNUAL QUANTITY OF WASTE, PRODUCED BY EVERY INHABITANT OF THE EUROPEAN UNION

3,4 mm

THE RISING OF OCEAN LEVEL EVERY YEAR

60 acres

OF RAINFOREST ARE LOST EVERY MINUTE

83 million

THE HUMAN POPULATION GROWTH RATE PER YEAR



THE POWER OF RENOVATION

TRIMO'S APPROACH

As you design unique architecture, we create the highest performing products to our customized formula whilst tailoring details specifically to your needs. With over 60 years of experience and as the first producer in the world since 1987 of panels with incombustible mineral wool core, Trimo provides smart, innovative solutions that benefit people, organizations, and the environment.

Environmental, user and investment aspects show why renovating with Trimo's products and tailor-made system solutions is unique, sustainable, and cost-effective investment to investor.

ENVIRONMENTAL



USER



INVESTMENT



ASPECTS

ENVIRONMENTAL ASPECTS



Trimo's products enable renovation without removing the layers on the building intended for renovation. In the case of a load-bearing base, Trimo's products can be easily installed in the existing condition. Thus, renovating with Trimo's products, it is possible to prevent up to 100% of construction waste without removing layers on an existing building.

RENOVATING WITH TRIMO'S PRODUCTS PREVENT UP TO 100% OF CONSTRUCTION WASTE



Trimo's products provide system solutions for the total building envelope and enable the CO₂ footprint reduction of up to 65%. With the EU target to renovate all intended buildings for renovation to a nearly zero-energy building performance by 2050 it is possible to achieve UN target by keeping the global temperature increase below 1.5°C.

RENOVATING WITH TRIMO'S PRODUCTS ENABLE THE CO₂ FOOTPRINT REDUCTION OF UP TO 65%



Trimo's products are made according to Nearly Zero-Energy Building standards and contribute to the higher rating of buildings according to BREEAM, LEED, DGNB, ...

TRIMO'S PRODUCTS MEET THE REQUIREMENTS FOR NEARLY ZERO-ENERGY BUILDING PERFORMANCE STANDARDS



Trimo's products are sustainable, up to 99% recyclable, and made from up to 56% of recycled materials and contribute to the higher sustainable rating of buildings according to BREEAM, LEED and DGNB.

TRIMO'S PRODUCTS ARE UP TO 99% RECYCLABLE AND MADE FROM UP TO 56% RECYCLED MATERIALS



USER'S ASPECTS

People spend 90% of their time in buildings. Favorable living conditions have a key role in people's health and affect well-being. Trimo's products for the total building envelope provide the benefit of living to the highest standards and requirements.



The level of noise can affect hearing and spoken words can be overheard. A building renovation with Trimo's products increases the noise protection by as much as 32dB.

TRIMO'S PRODUCTS OFFER SOUND INSULATION OF UP TO 32 dB

THERMAL COMFORT

A stable indoor climate and air quality affect human health and productivity. Excessive humidity and mold in the premises increase the incidence of asthma and other respiratory diseases. Trimo's products provide thermal transmittance according to the highest standards and are the best products in the market considering airtightness in the scope of panels with a mineral wool core. Renovating with Trimo's products prevents moisture on the surface on internal walls.

- Trimo's products meet the highest standards and reach U value of as low as 0.15 W/m²K.
- Trimo's products can reach passive house requirements in terms of airtightness.
- Trimo's products prevent moisture on the surface on internal walls.



Climate change is increasingly causing storms and damage to buildings. Trimo's products are adapted to extreme climatic conditions and achieve Class A in water permeability.

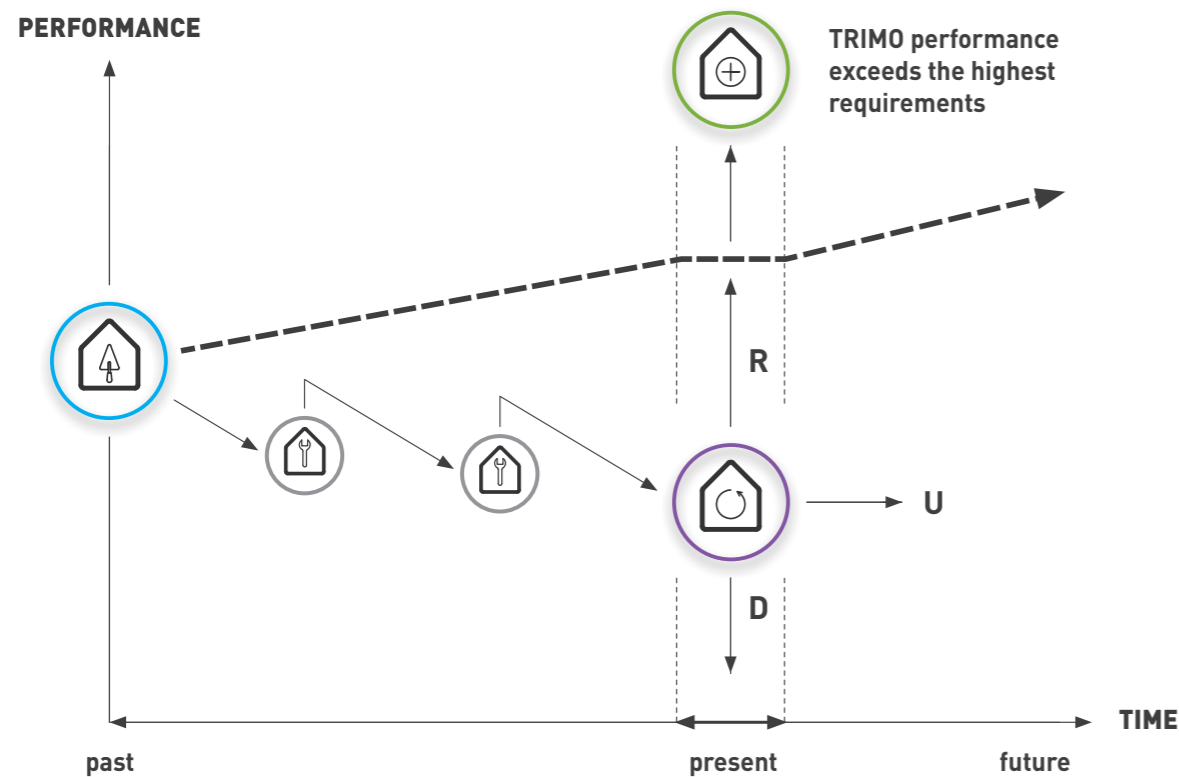
THE PRODUCTS WITHSTAND EXTREME CONDITIONS IN WATER RESISTANCE OF AS MUCH AS 1200 PA AND REACH CLASS A IN WATER PERMEABILITY



INVESTMENT ASPECTS

In the case of investments in the building segment, frequent questions appear about the pros and cons of new construction in opposed to renovation. An insight into the building's performance over time and hints about the advantages of Trimo's solutions for a complete building envelope, speak in favor of the renovation. Trimo's products achieve and exceed the highest standards and requirements according to the legislation and contribute to higher rating of building according to sustainability assessment methods.

06



- Requirements with new building
- Maintenance
- Decision made
- R** Renovation upgrading components, elements and systems including new energy efficiency upgrade
- U** Use as it is
- D** Deconstruction
- Increasing requirement over time
- Trimo performance exceeds the highest requirements



When renovating the building envelope without major interventions to the load-bearing structure, it is possible in many cases where there are no special requirements, to renovate the building with Trimo's system solutions without providing documental approval by the administrative authority.

RENOVATING BUILDING ENVELOPE WITH TRIMO'S SOLUTIONS SAVES TIME WHEN DOCUMENT APPROVAL BY THE ADMINISTRATIVE AUTHORITY IS NOT NEEDED



Renovation with Trimo's system solutions can be performed without removing any layer of the building. In the case of a "healthy" load-bearing structure, Trimo's products can be easily added to the existing main structure. Thus, up to 100% of construction waste and costs of waste disposal in landfills can be saved.

RENOVATING BUILDING ENVELOPE WITH TRIMO'S PRODUCTS SAVES THE COSTS OF WASTE DISPOSAL IN LANDFILLS UP TO 100%



Installation of Trimo's envelope system solutions can be executed while the building still operates.

RENOVATING WITH TRIMO'S PRODUCTS ENABLES COST SAVINGS WITH NO NEED TO STOP THE OPERATION OF THE BUILDING OR WITH NO NEED TO TEMPORARY LEASE THE REPLACEMENT FACILITY.



Trimo manufactures prefabricated products of the highest quality in a controlled environment. Self-supporting and fully compatible products enable quick and easy installation. Trimo's products enable the renovation of the entire envelope from the facade, roof to interior walls and ceilings.

SELF-SUPPORTING FULLY PREFABRICATED AND COMPATIBLE TRIMO'S PRODUCTS ENABLE QUICK AND EASY INSTALLATION OF THE TOTAL BUILDING ENVELOPE



Trimo's products enable a uniform appearance of architecture even when it comes to renovating an existing building and adding a new one. The flexibility of the products ensures fast installation and operation of the facility in a shorter time.

TRIMO'S PRODUCTS ENABLE QUICK RENOVATION AND CONSTRUCTION OF EXTENSIONS IN A UNIFIED UNIQUE ARCHITECTURAL APPEARANCE



Trimo offers unique architecture, creates the highest performing products based on customized formula whilst tailoring details specifically to our customer needs.

TRIMO OFFERS UNIQUE ARCHITECTURE TAILORED TO CUSTOMER NEEDS



Trimo's envelope system for the total building is energy-efficient and enables energy savings of up to 65% without any interference in HVAC systems.

TRIMO'S TOTAL ENVELOPE SYSTEM STRIVES FOR ENERGY SAVINGS OF UP TO 65% AND REDUCES OPERATING COSTS



As a pioneers in our industry, we have developed a user-friendly BIM libraries for planning building envelopes that enables faster project planning by up to 20% compared to classic CAD design. Trimo BIM library ensures insight of product features data. Designing in 3D environment reduces collisions, raises productivity, and enables cost control with a list of quantities, which is a base for a quotation.

TRIMO BIM LIBRARY FOR PLANNING BUILDING ENVELOPES ENABLES FASTER PROJECT PLANNING BY UP TO 20%



Renovating with Trimo's products is fire-safe, due to non-combustible mineral wool core that does not emit toxic smoke in case of fire which is a major cause for death. Trimo's products achieve fire resistance of up to 4 hours.

TRIMO'S PRODUCTS OFFER ULTIMATE FIRE-SAFETY WITH FIRE RESISTANCE OF UP TO 4 HOURS



Renovation of the building can be done with RC3 certified Trimo's products to ensure safety of valued goods.

TRIMO'S CERTIFIED PRODUCTS ENSURE SAFETY WITH RC3 CLASS OF BURGLARY RESISTANCY



High quality, robust, and durable Trimo's products provide a flexible warranty period in terms of color coating protection, which can exceed the investment invested in the renovation of a new Trimo complete envelope.

THE TRIMO WARRANTY PERIOD MAY LAST LONGER THAN THE INVESTMENT DEBT PERIOD

Hint!

Click here for all available handbooks and discover a unique architectural solution tailored to you. 

TOTAL COST OF OWNERSHIP - TCO

Estimating the total cost of ownership means seeing a bigger picture at what the investment in a building renovation means and what its value is over time. Assuming that TCO means the purchase price of the building plus operating costs, the purchase decision should consider not only the short-term price of the building, known as the purchase price but also the long-term price, which means the total cost of the ownership. In the renovation context, a building with a lower total cost of ownership means better value in the long term.

CASE: OFFICE BUILDING

SCENARIO 1 Without intervention after purchase

Office building volume m	a x b x c = 20 x 80 x 16
Storeys	4
Total surface area m ²	6400
Price value of the building 1.600 €/ m ²	10.240.000€
Operating costs €/year	93.465
Time period year	30
TCO €	13.043.950

SCENARIO 2 Investment in a new complete envelope after purchase

Office building volume m	a x b x c = 20 x 80 x 16
Storeys	4
Total surface area m ²	6400
Price value of the building 1.600 €/ m ²	10.240.000€
Investment in Trimo total envelope renovation % of the purchase price 	5
Operating costs €/year	25.420
Time period year	30
TCO €	11.514.600

ENERGY SAVING -65%

SAVING 1.5 MIL €



06

CITY OF VILLINGEN HALL, GERMANY

The existing post installation painted metal elements with a thin polystyrene core were replaced with Qbiss One elements with the non-combustible mineral wool core. Facade system solution includes all accessories and flashings. New Qbiss One facade system improves and increases the energy savings, has best airtightness performance in the market and prevents condensation.

The new appearance of the facade completely follows the original architectural expression.

INSPIRATION

Dare to explore and be inspired by the renovation's unique architecture entrusted to Trimo.

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INSPIRATION

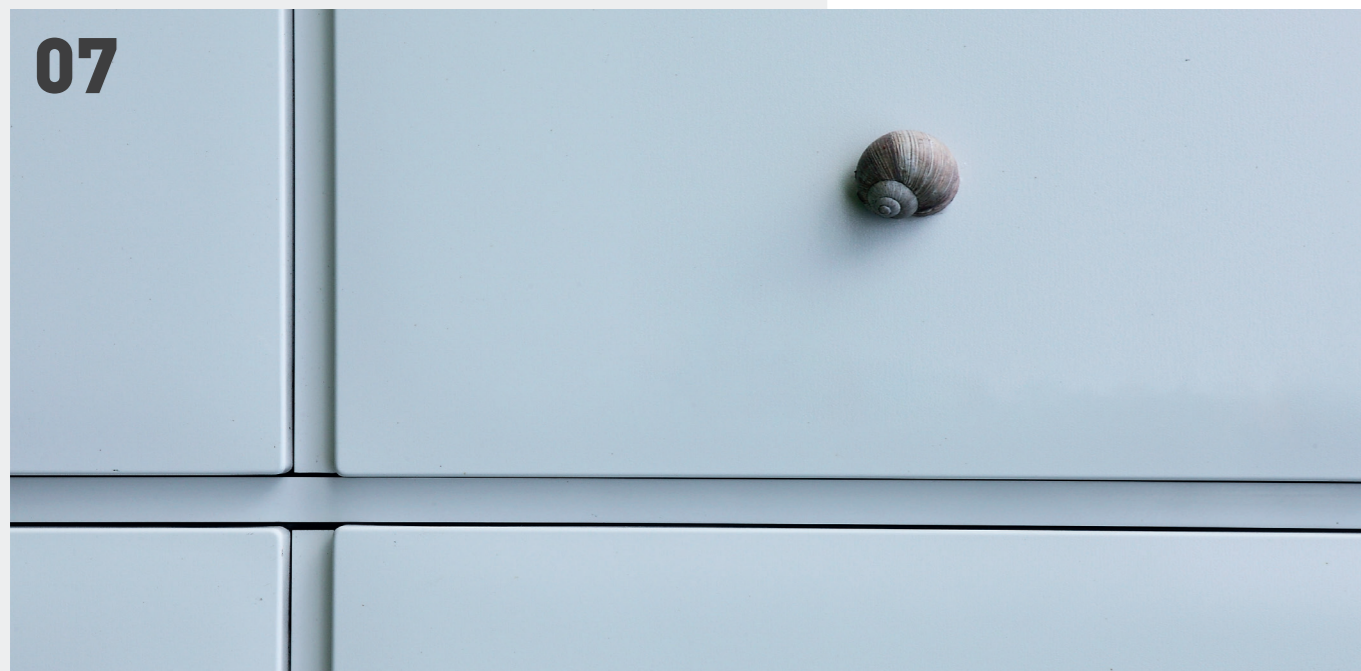
FUNCTIONAL SEGMENT: RENOVATION
BUILDING SEGMENT: PUBLIC; SCHOOL AND SPORT HALL
INVESTOR: CITY OF VILLINGEN-SCHWENNINGEN
LOCATION: GERMANY
PRODUCT: QBISS ONE

The sports hall was constructed at the same time as the schoolhouse back in 1968, designed by the architectural office Günther Behnisch. These buildings were extremely good and well-preserved examples of the early phase of the Behnisch architectural office and are therefore subject to a preservation order and protection. Individual structural elements, such as the façade of the sports hall were no longer contemporary in terms of airtightness, thermal insulation, and visual appearance and their age threatened the continued use of the building.

The School with Sports hall is the subject of the monument protection authority. For the renovation, it was especially important to preserve the appearance of the facade in its original condition. Trimo was chosen to replace the original facade with the Qbiss One elements.

Minimal input for the biggest output
Renovation is the most inexpensive way of solving climate change while drastically increasing the energy efficiency.

To keep the original visual appearance of the building, Qbiss One with B-B joint has been used.



The steel construction is aligned to the grid. The façade was installed circumferentially distant approximately 10 cm in off the pillars so that the supporting construction

appeared to be detached behind the façade. The façade was structured consistently around the circumference by vertical elements of nine meters in height and one meter in width.



Due to preservation order and protection, the external look of the facade had to remain the same as prior renovation.



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POSTOJNA CAVE TICKET POINT AND MUSEUM, SLOVENIA

One of Slovenian most known touristic attraction choose simple and minimalistic design for their Museum and ticket selling point.

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INSPIRATION

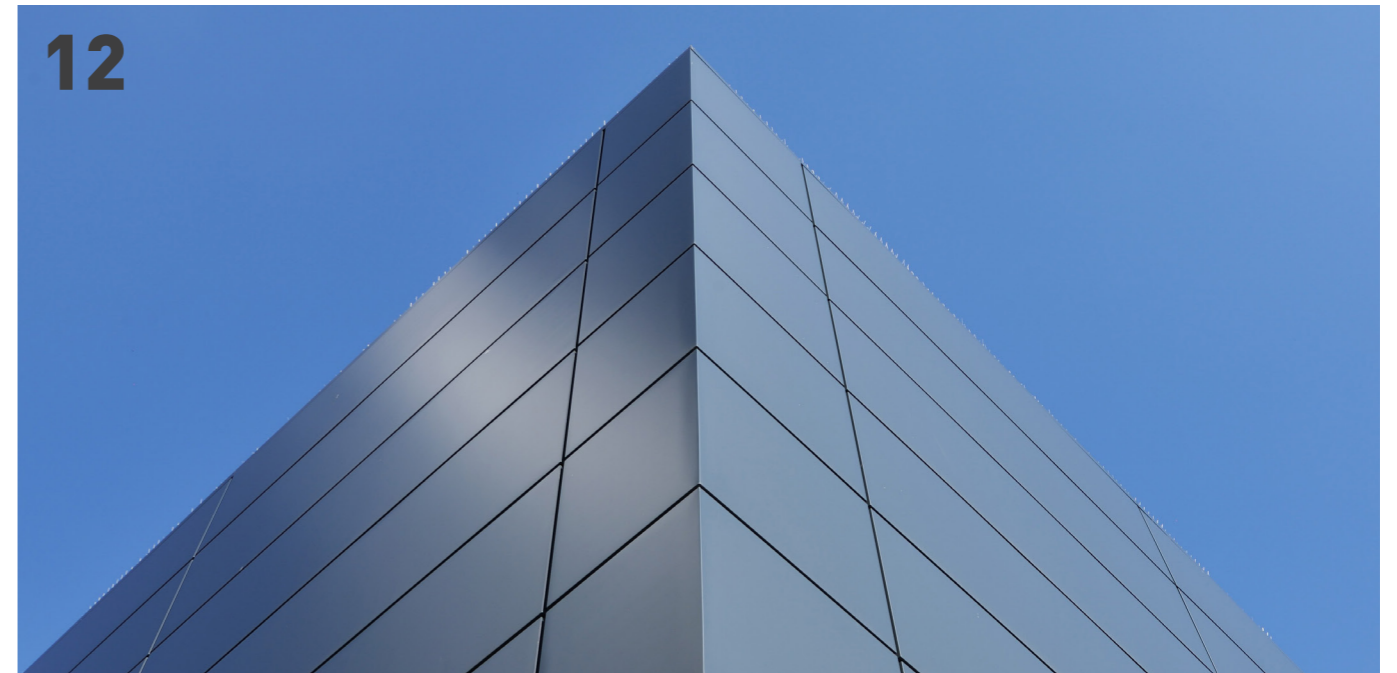
FUNCTIONAL SEGMENT:	RENOVATION
BUILDING SEGMENT:	PUBLIC; TICKET POINT AND MUSEUM
INVESTOR:	POSTOJNA CAVE
LOCATION:	SLOVENIA
PRODUCT:	QBISS ONE

Initial purpose of the building, built in 1972 was an indoor swimming pool. Its main bearing structure was reinforced concrete. After 40 years of indoor swimming, the building slowly started to lose its initial function and original cladding material aged. As a result, the visual appearance was no longer preserved. Due to highly increased tourist visits to Postojna cave, investor decided to renovate and totally change the building use.

Investor choose Trimo's products as the most suitable construction elements to reach a great minimalistic clean facade look, drastically improve thermal performance of

the building and fire safety. The most exposed sides of facade use 150 mm thick Qbiss One system in Anthracite colour. Average length of the elements is 4 m. The entrance uses prefabricated transversal inclined corner elements that seamlessly finishes composition of facade. Fourth facade was renovated using Trimoterm FTV fire resistant sandwich panels. Completely renovated facade used 821 m² of Qbiss One system and 223 m² of Trimoterm FTV sandwich panels. Flashings for a base detail, corner elements, parapets, windows were all delivered by Trimo.

The most famous Slovenian cave ticket point building uses 821 m² of Qbiss One elements and 223 m² of Trimoterm FTV sandwich panels.



Prefabricated Qbiss One elements seamlessly connecting two facades.

From initial indoor swimming pool, the function of the building changed to ticket point and museum building.



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**CONTINENTAL BARUM OTROKOVICE,
CZECH REPUBLIC**

Fast installation, solid elements with excellent thermal properties, air and water tightness, convinced the investor and general contractor to use Qbiss One elements as their solution for renovation.

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INSPIRATION

FUNCTIONAL SEGMENT: RENOVATION, FAÇADE SYSTEM CHANGE
BUILDING SEGMENT: TIRE PRODUCER ADMINISTRATIVE CENTER
INVESTOR: CONTINENTAL BARUM OTROKOVICE, A.S.
LOCATION: CZECH REPUBLIC
PRODUCT: QBISS ONE

Administrative center Continental Barum Otrokovice the producer of car tires, buses and mostly agriculture mechanizations, is based at the entrance to the production plant. It consists of the main 44 m or 12 floors high administrative building and smaller L-shaped and 2 floors high administrative part. It was built in 1970 together with the first production halls of the Barum company. Original façade system used Boletycké panely as a cladding system. It was made of steel frame, filled with glass wool and finished with glass cover. The kind of cladding system was typically used as a cladding

for administrative and civil/public buildings all around former Czechoslovakia.

Initial façade system's warranty was no longer valid and technical characteristics did not fulfill thermal insulation, air and water tightness requirements, so the investor decided to replace it as part of the total renovation of the existing building. Primer renovation idea, an build-up system, has been replaced with Trimo's Qbiss One system the last moment before the release of a tender. Advantages of the Qbiss One system such as

Elements in RAL 5003 are produced and designed in the highest possible gloss recommended by Voest (architects' requirement)



At the time of renovation, this was the highest building where Qbiss One system was installed (44,00m).



The height of the building is stunning 44 m.

fast installation, solid element with excellent thermal properties, air and water tightness, convinced the investor and general contractor to change their decision. Trimo's responsive technical support was able to change existing plans accordingly and finished the 3 – 6 months load of work in just 6 weeks, to not interfere construction plans. During that process, the benefits of Qbiss One system started to show and were confirmed by the installation company. In the end economic impact of choosing the Qbiss One system was obvious.

200 mm thick Qbiss One elements were designed in non-typical width of 825 mm (due to previous raster and architectural design), 1,2 – 2,4 – 3,6 m length (module of windows) and in 3 colour shades (RAL 9006, RAL 5003 (colour shade of Barum) and RAL 1028 (colour shade of Continental)). Horizontally installed system uses prefabricated corner elements.



METALMETRONE, ITALY

The smooth profiled Trimoterm FTV panels match the surrounding buildings.



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METALMETRONE, ITALY

The complete redevelopment of the abandoned industrial area in the size of 115.000 m².



Source: <https://earth.google.com/>

INSPIRATION

FUNCTIONAL SEGMENT: REDEVELOPMENT
BUILDING SEGMENT: HOTEL WITH PARKING FACILITIES
INVESTOR: NEW CO. SAVONA SPA
LOCATION: ITALY
PRODUCT: TRIMOTERM FTV

Metalmetrone was one of the country's largest textile machinery factories closed down in 1992. After fifteen years and the various proposals to reuse the large area where the factory stood, Studio 5+1AA the architecture firm of Alfonso Femia and Giancarlo Pelfuffo, was chosen for a complete redevelopment of the abandoned industrial site 115.000 m² in size. The long curved representative building of that time is the only one that survived complete demolition and is closely connected with the new Le Officine Metalmetrone complex built behind it. The new complex became the multifunctional centre of mixed-use from retail, business to the hotel with parking facility. To

the 102-room and 4.000 m² big hotel, built as a tower, a vertical Trimoterm FTV facade system in 5 colours from green to blue is installed. The Architects made a colourful composition with vertically installed Trimoterm FTV prefabricated panels. The colours unify the complex and also the newly created public square.

Catched statement of the studio Studio 5+1AA: Thanks to a treatment of the facade that works in an expressive way as "pixel" by using Trimo panels of different colours.

Colors unify the complex and also the newly created public square.



Vertically installed Trimoterm FTV facade system includes prefabricated L-shaped corners.

Quantity of over 2500 m² Trimoterm FTV panels were manufactured in 5 colors; RAL 5013, RAL 5015, RAL 6017, RAL 6018, RAL 6026.



DERBY LOGISTIC CENTER, SLOVENIA

The unique architecture of the building follows the colors of the brand logo and further strengthens it in the market.



INSPIRATION

FUNCTIONAL SEGMENT:	RENOVATION AND EXTENSION
BUILDING SEGMENT:	DISTRIBUTION & LOGISTIC CENTER
INVESTOR:	RASTODER D.O.O.
LOCATION:	SLOVENIA
PRODUCT:	TRIMOTERM FTV

The logistics center for the storage and distribution of fruit is located within the motorway ring of the capital Ljubljana in Slovenia. In the BTC shopping center area, this was originally a warehouse. After the change of ownership, with the renovation, the building also changed its purpose into a distribution center for Bananas, citrus fruits, and exotic fruits. The existing building from 1976 is built as a three-nave skeletal structure from prefabricated reinforced concrete columns, horizontal ties, and arched roof beams. The filling between the columns is made of autoclaved aerated concrete blocks.

In addition to the renovation of the existing building, an extension made of steel construction and an arched roof with a radius of 16.2 m were added. The architecture of the new extension is unified with the existing building. The investor decided to renovate with Trimo because our design team has provided a unique architecture and a comprehensive solution that follows the existing architecture and has a uniform appearance throughout the building. The facade of the building is made of horizontally installed Trimoterm FTV panels. The colors of the building follow the company logo and further strengthen and emphasize the brand.

The basic purpose of the existing building was a warehouse in the form of a three-nave skeleton.



The visualization of the unique architecture, which is prepared in Trimo by architects for customers according to their needs, convinced the investor to entrust the renovation and extension of the building to Trimo.

The building was renovated and extended with horizontally installed Trimoterm FTV panels in the colors: RAL 1023, RAL 5010, and RAL 9007.



PRODUCT PORTFOLIO OVERVIEW

Over the years, our product portfolio grew and developed in tune with market requirements. Trimo is known as the market leader in its sector and a trendsetter company as proven by numerous international awards for innovation and cooperation on projects which have received the most respected prestigious architectural awards: **Red Dot Award, Golden Kiwi Award, BIO 20, MIPIM, EFQM.**

QBISS

QBISS ONE
QBISS BX



QBISS SCREEN

QBISS SCREEN MW
QBISS SCREEN H
QBISS SCREEN H+



PROFILE TYPES

TRIMOTERM

TRIMOTERM FTV
TRIMOTERM FTV HL
TRIMOTERM SNV



ADD-ONS

ARTME,
DECORATIVE ELEMENTS

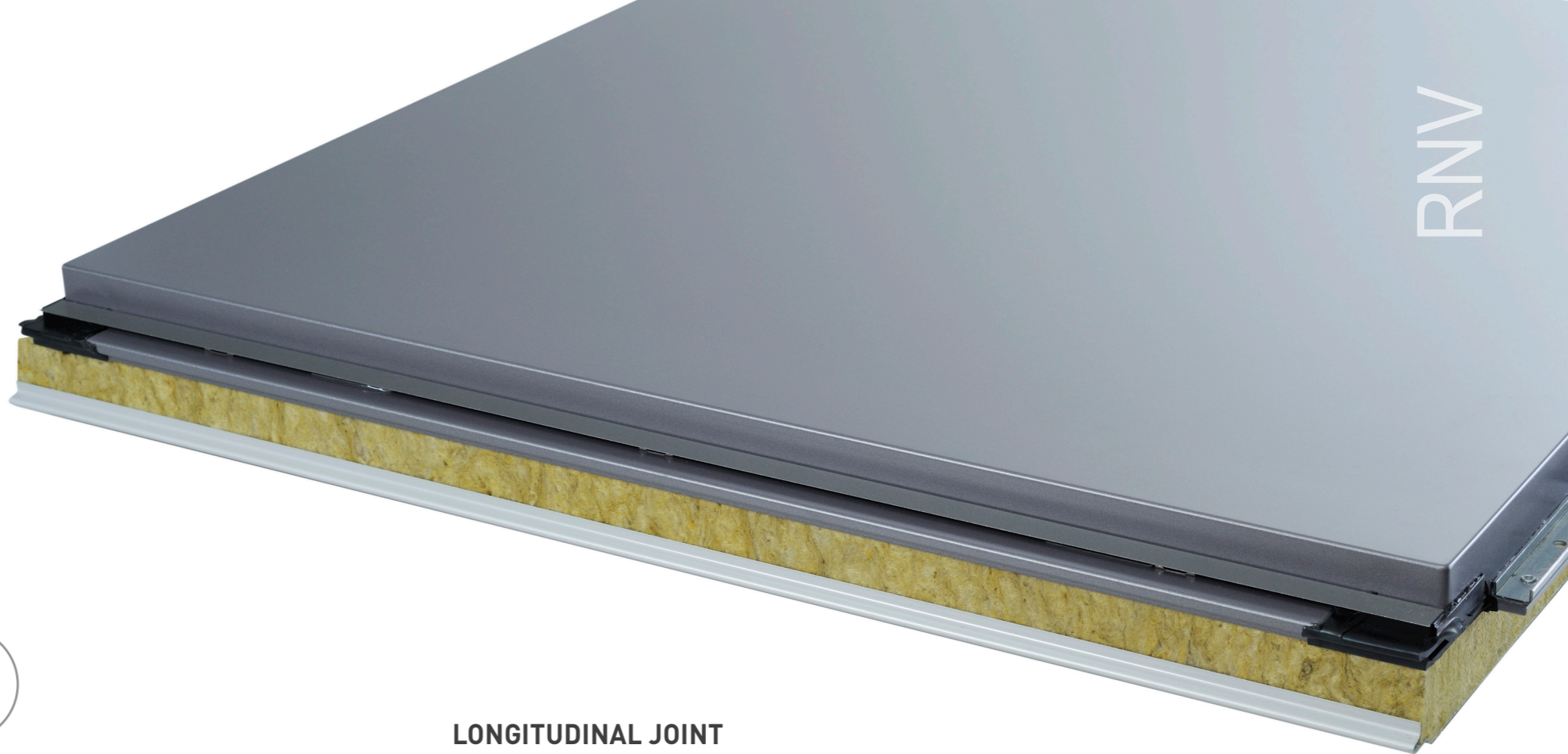
MODULAR UNITS



PRODUCT OVERVIEW

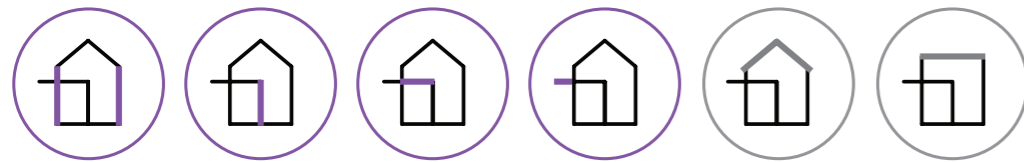
QBISS ONE

Qbiss One is a world-class engineered, prefabricated, A1 mineral wool insulated, metal facade system that offers a complete wall solution, within a single construction element. With its rounded corners, unmatched flatness and advanced technical characteristics, Qbiss One is among the best facade systems in the world.



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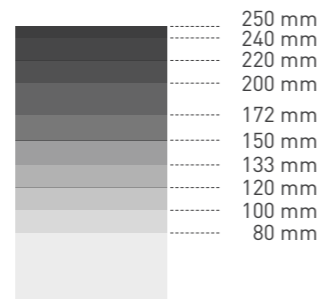
APPLICATION OPTION



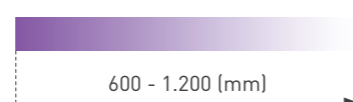
NAVIGATOR

Horizontal installation	█
Vertical installation	█
Segmental installation	█
Variable module	█
Invisible fixing	█
Single span	█
Multi span	█
Thermal performance	█
Water and air tightness	█
BIM supported	█

THICKNESS



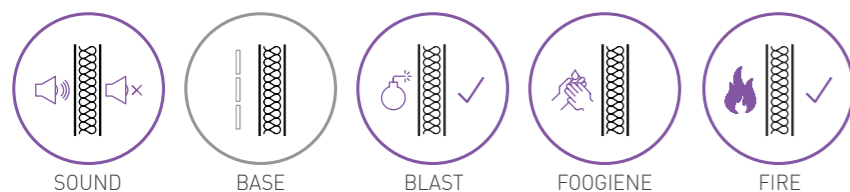
MODULE



RASTER



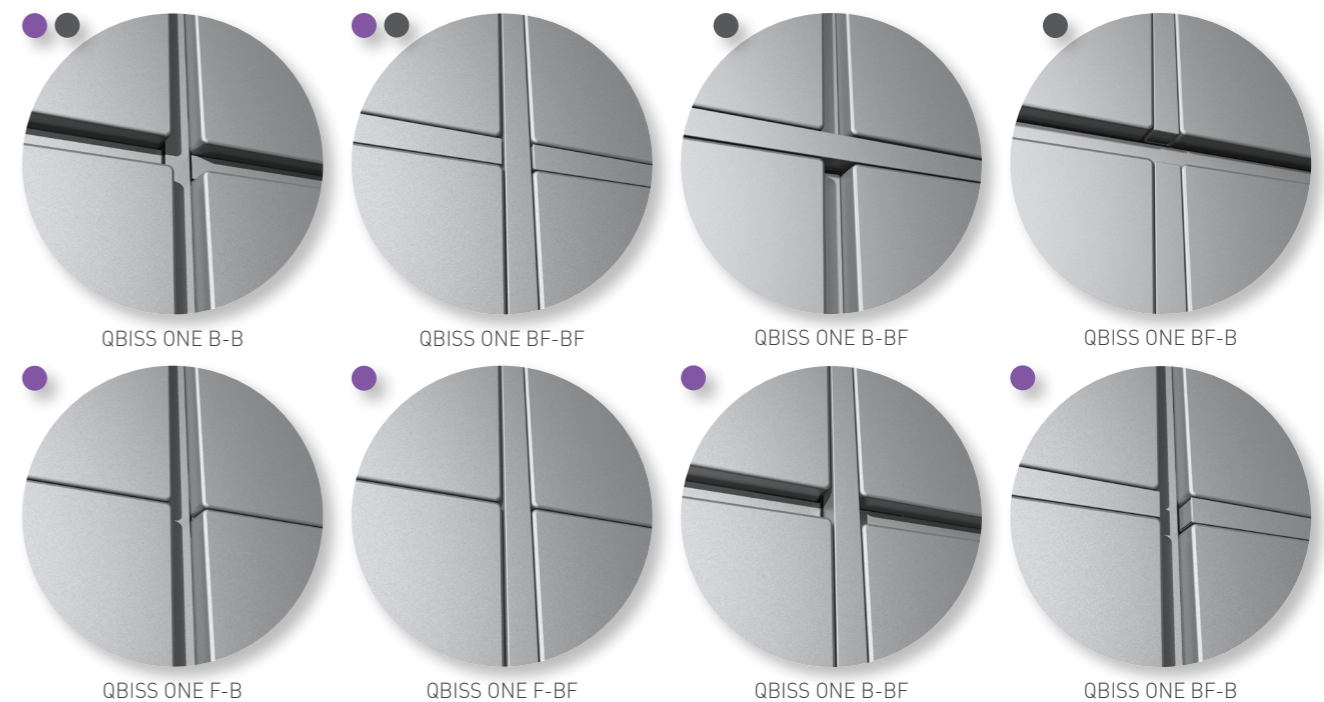
FUNCTION OPTION

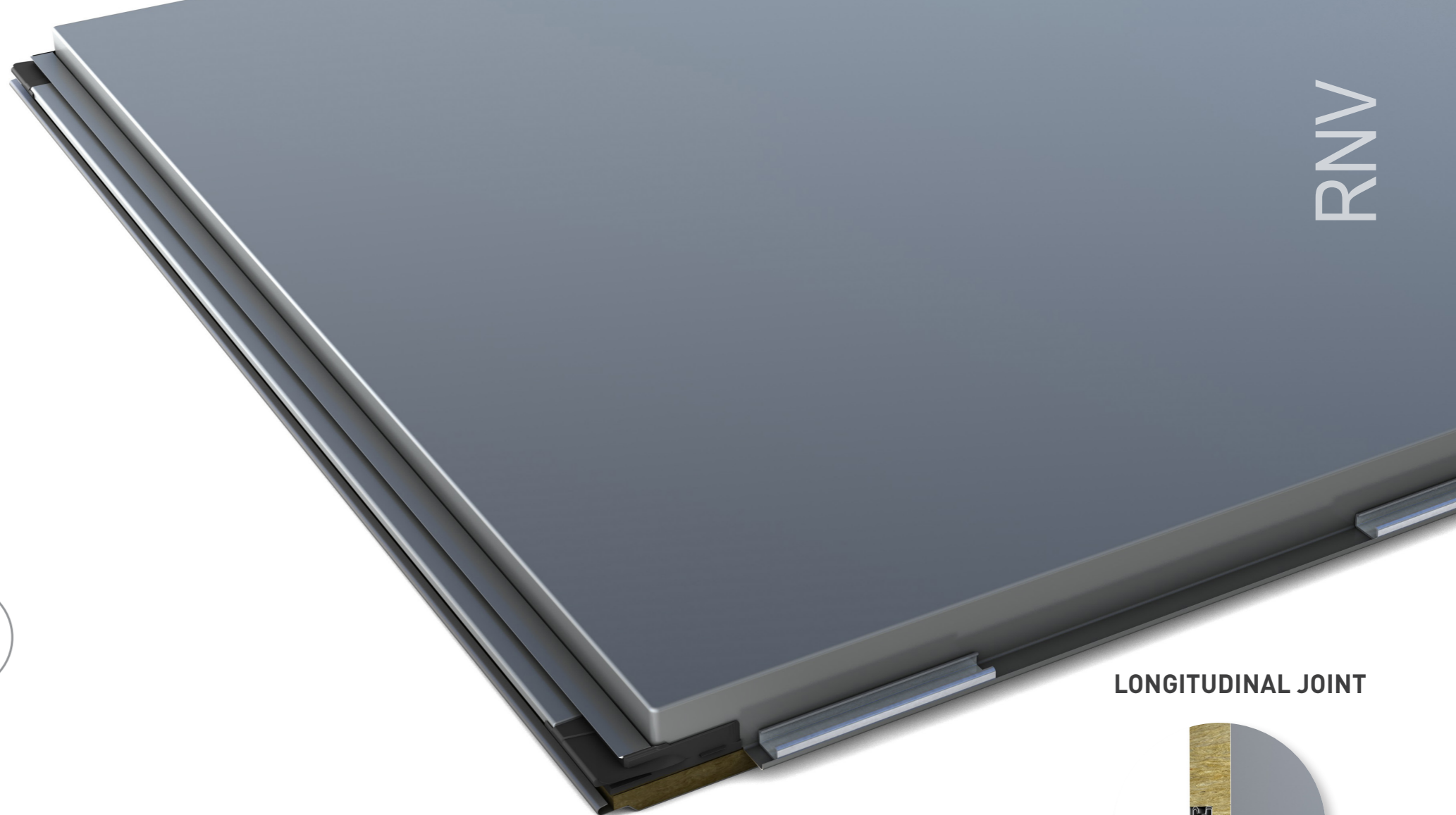


LONGITUDINAL JOINT



JOINT OPTIONS I ● Horizontal installation I ● Vertical installation I

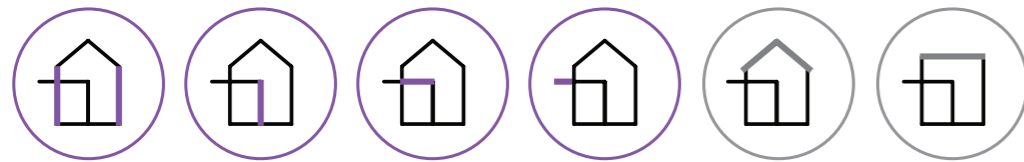




QBISS SCREEN MW

Qbiss Screen MW is sophisticated modular rainscreen, providing superior protection against weather while keeping the building safe from corrosion atmospheric pollutants. Light, 65 mm thick and easy to install rainscreen elements with rounded corners and unmatched flatness are prefabricated in controlled environment and delivered to construction site, cut to size.

APPLICATION OPTION



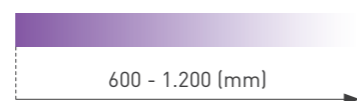
NAVIGATOR

Horizontal installation	█
Vertical installation	█
Segmental installation	█
Variable module	█
Invisible fixing	█
Single span	█
Multi span	█
Thermal performance	█
Water and air tightness	█
BIM supported	█

THICKNESS



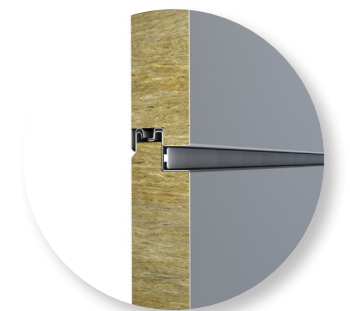
MODULE



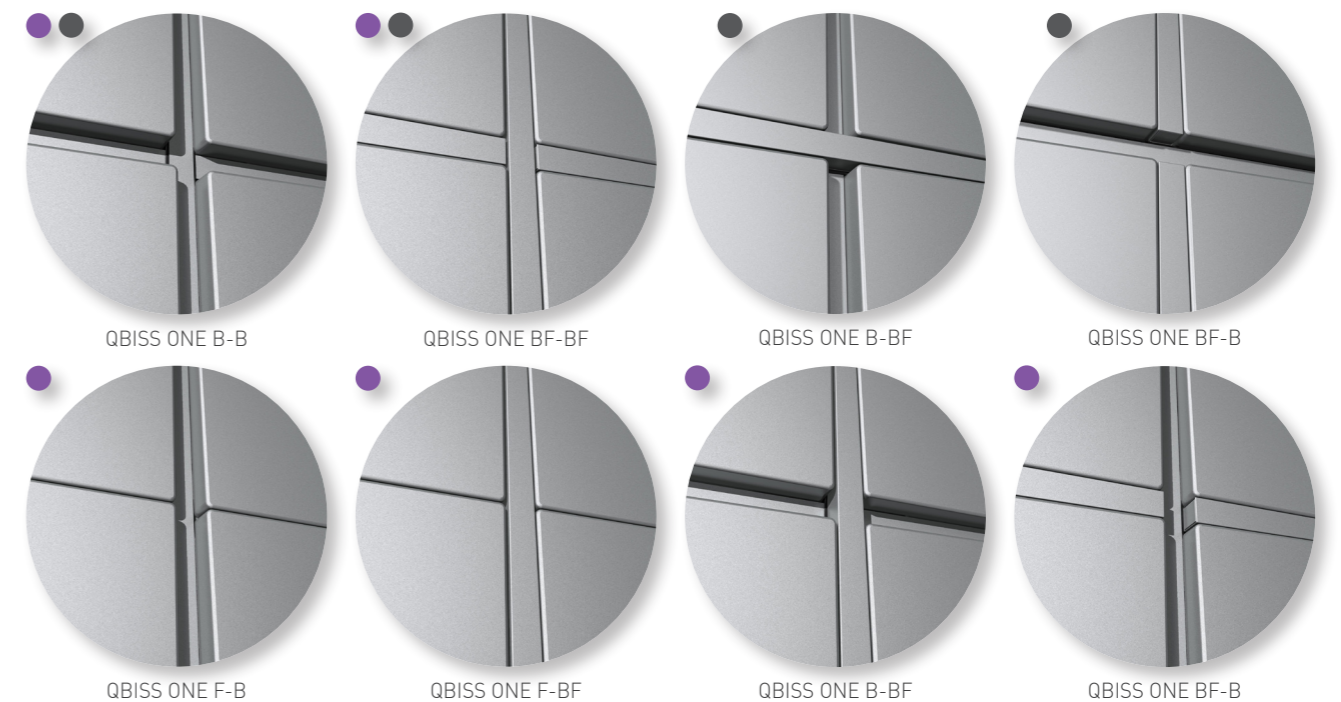
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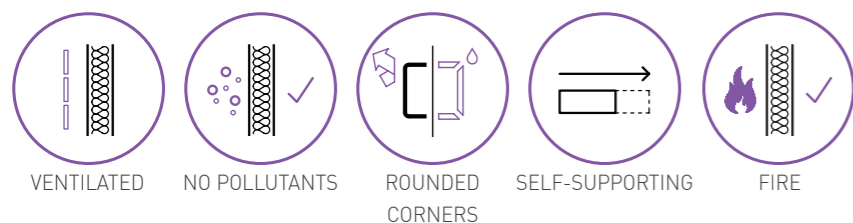
LONGITUDINAL JOINT

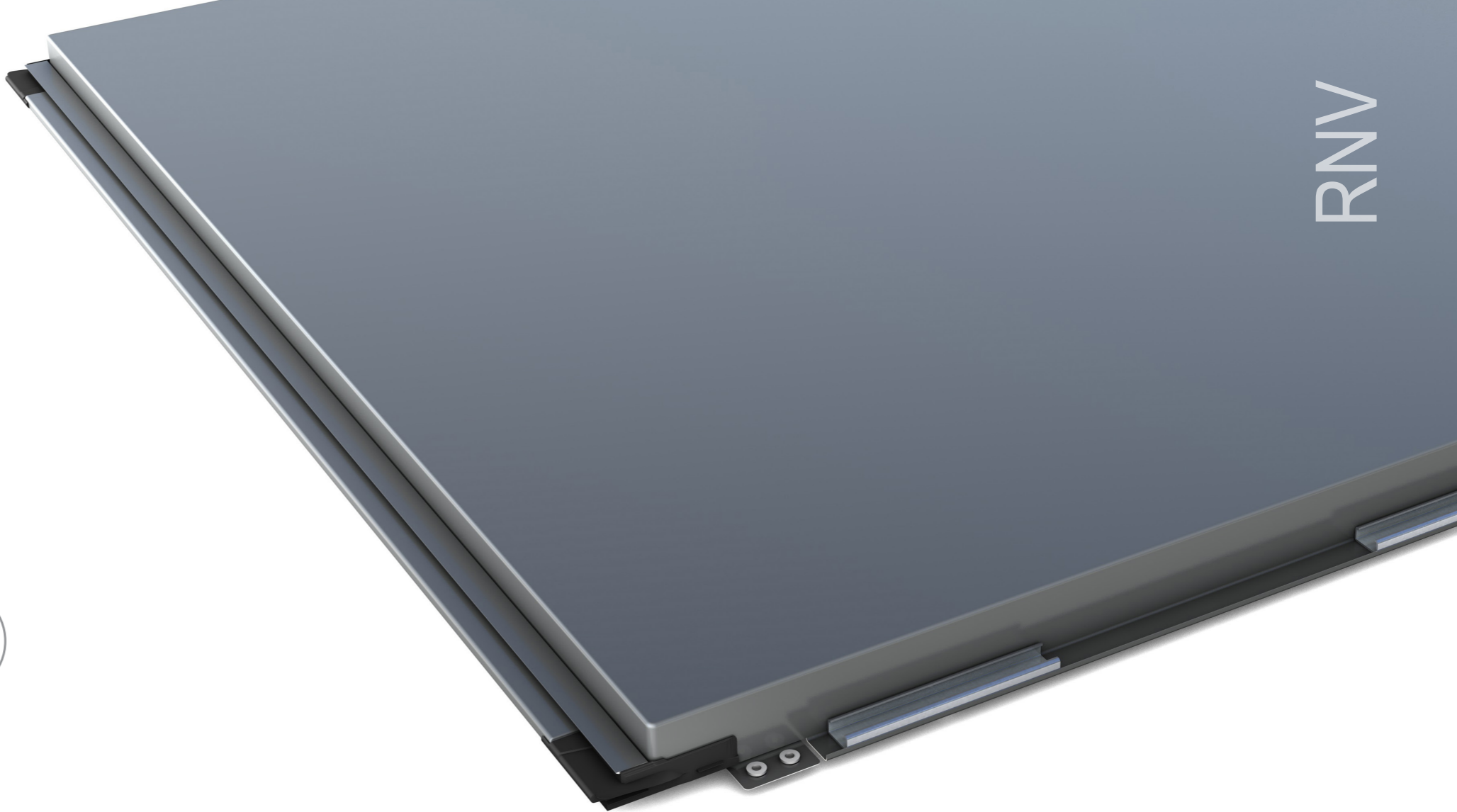


JOINT OPTIONS I ● Horizontal installation I ● Vertical installation I



FEATURES

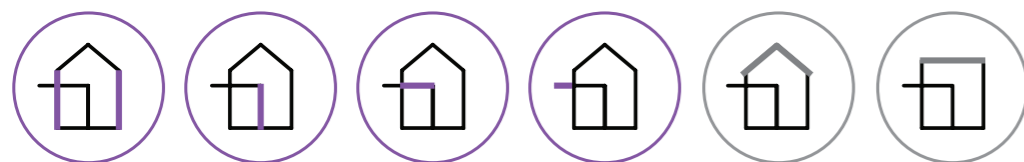




QBISS SCREEN H

The 50 mm thick element is a composite made of two pre-painted galvanized steel sheets with joints and honey-comb core. The composition of materials gives elements visibility higher level of surface flatness, high load-bearing capacity, minimal thermal expansion, thermal deflection and resistance to humidity.

APPLICATION OPTION



NAVIGATOR

Horizontal installation	<input checked="" type="checkbox"/>
Vertical installation	<input checked="" type="checkbox"/>
Segmental installation	<input type="checkbox"/>
Variable module	<input checked="" type="checkbox"/>
Invisible fixing	<input checked="" type="checkbox"/>
Single span	<input checked="" type="checkbox"/>
Multi span	<input type="checkbox"/>
Thermal performance	<input type="checkbox"/>
Water and air tightness	<input checked="" type="checkbox"/>
BIM supported	<input type="checkbox"/>

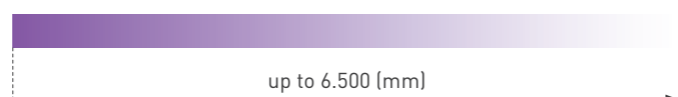
THICKNESS



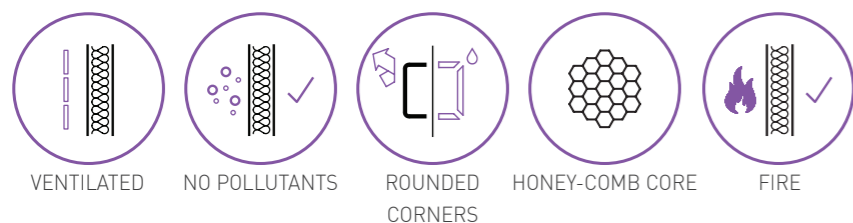
MODULE



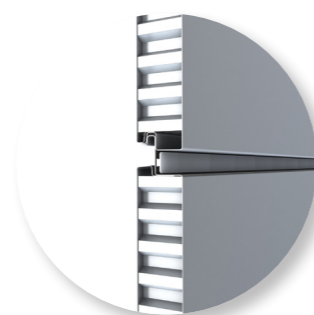
RASTER



FEATURES



LONGITUDINAL JOINT



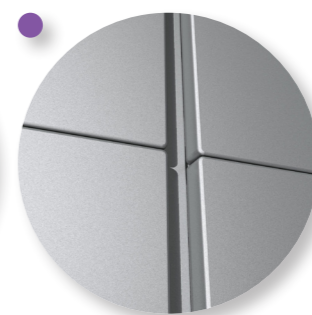
JOINT OPTIONS I ● Horizontal installation I ● Vertical installation I



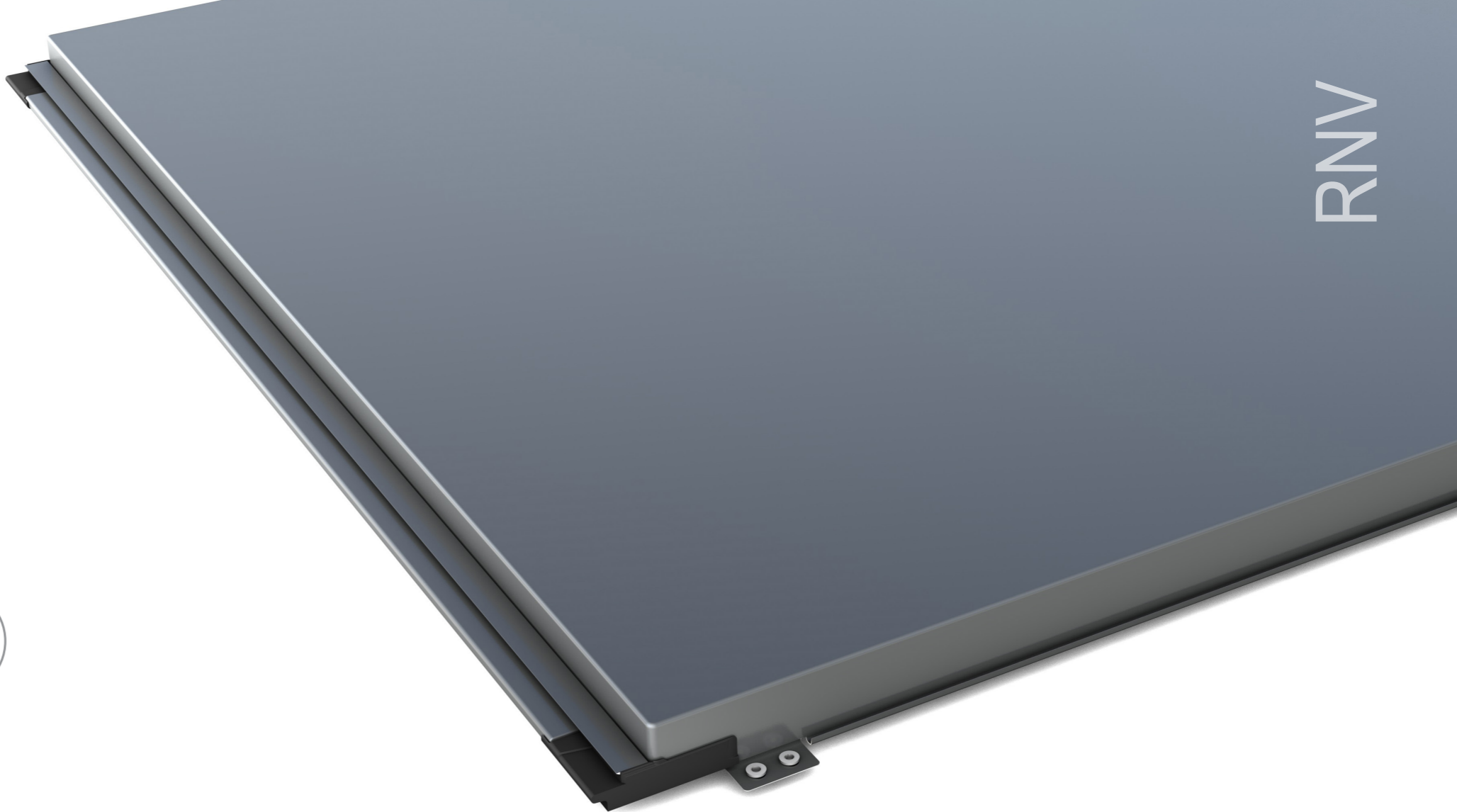
QBISS SCREEN B-B



QBISS SCREEN B-B



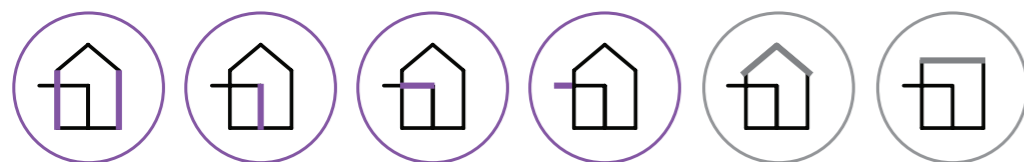
QBISS SCREEN F-B



QBISS SCREEN H+

Qbiss Screen H+ rainscreen comprises of an aluminium honeycomb core, inserted between two metal skins, with each element corner formed without cutting or folding. All joints are specially formed for fixing and sealing, with prefabricated lap joint on the side for self-weight fixing.

APPLICATION OPTION



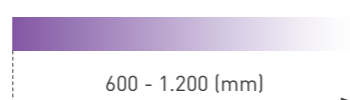
NAVIGATOR

Horizontal installation	✓
Vertical installation (internal wall application)	✓
Segmental installation	✓
Variable module	✓
Invisible fixing	✓
Single span	✓
Multi span	✓
Thermal performance	✓
Water and air tightness	✓
BIM supported	✓

THICKNESS



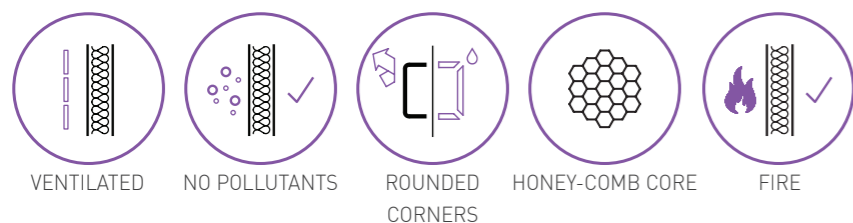
MODULE



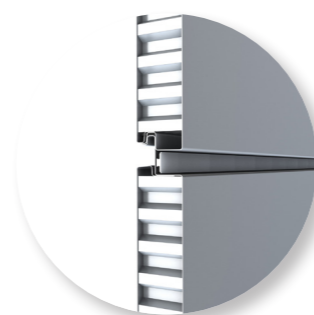
RASTER



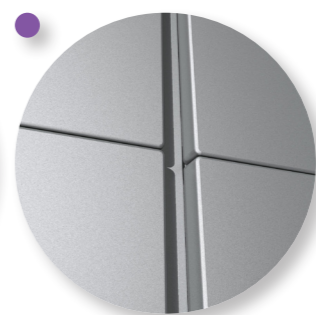
FEATURES



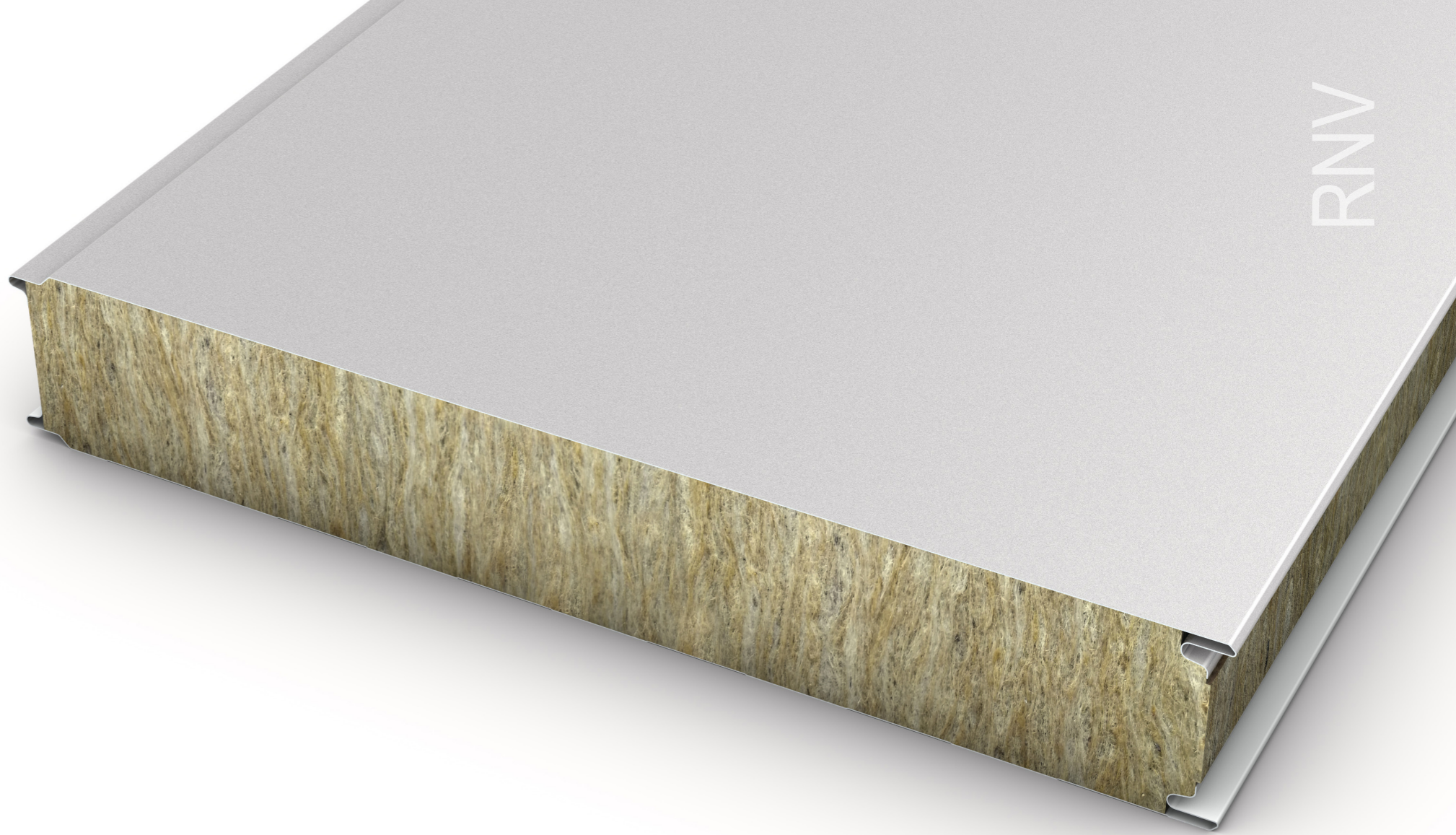
LONGITUDINAL JOINT



JOINT OPTIONS I ● Horizontal installation I ● Vertical installation I



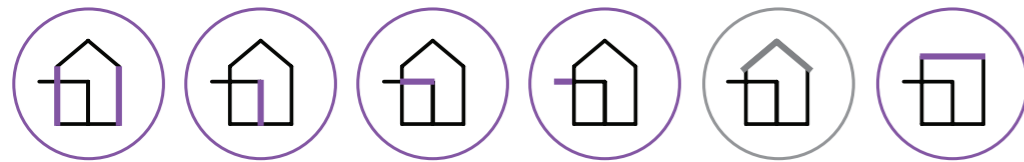
* Qbiss Screen vertical element is allowed to be used as an internal wall application only.



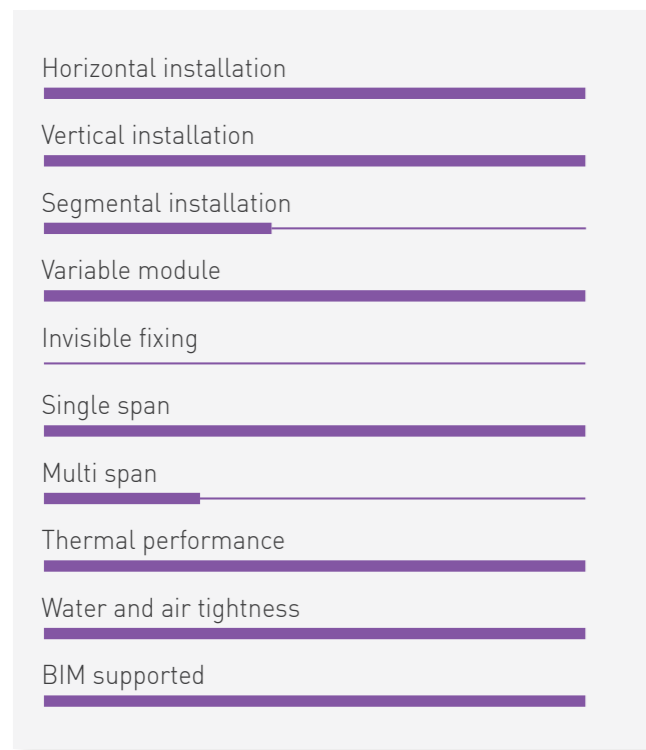
TRIMOTERM FTV

Trimoterm FTV is the first panel in the world made with a mineral wool core in the year 1987. It covers a total envelope system solution from a flat roof, facade, soffits, internal wall, and ceilings. When meets the functional options Trimoterm FTV is the real monster. It works as an acoustic panel, carrier backing wall for secondary cladding, blast panel with the protection of 1 bar blast, a hygienic panel with a smooth surface, and a powerful fire panel with fire resistance up to 4 hours.

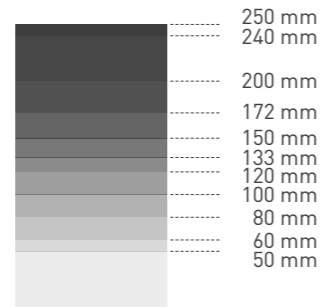
APPLICATION OPTION



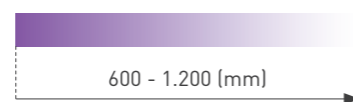
NAVIGATOR



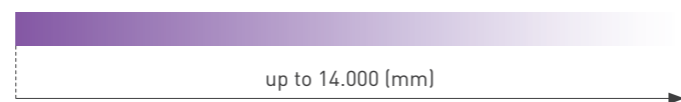
THICKNESS



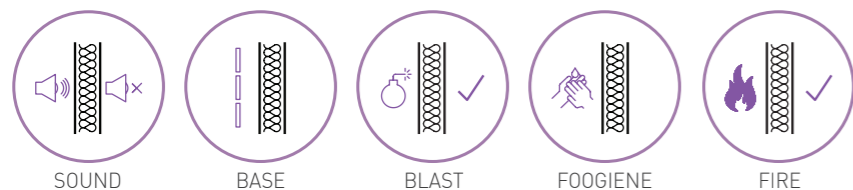
MODULE



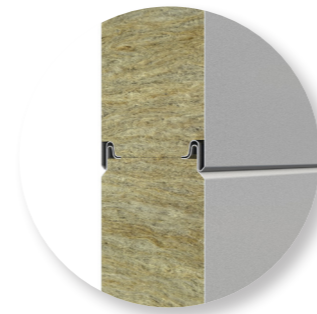
LENGTH



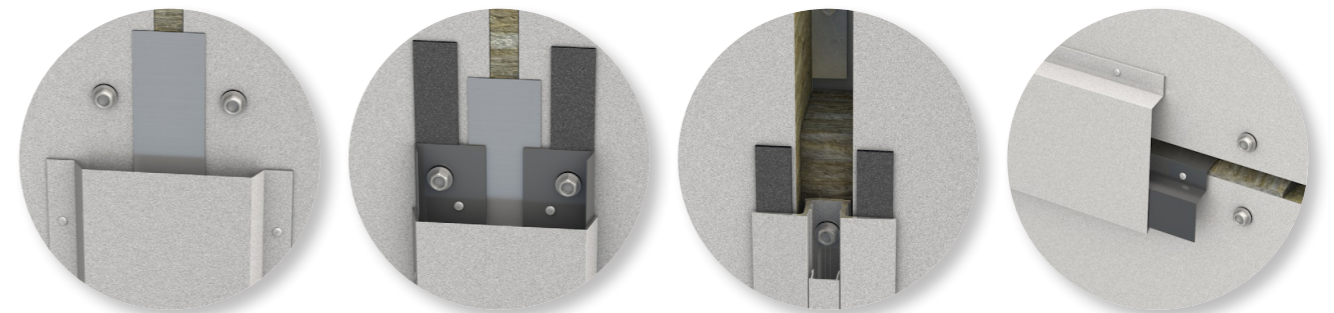
FUNCTION OPTION

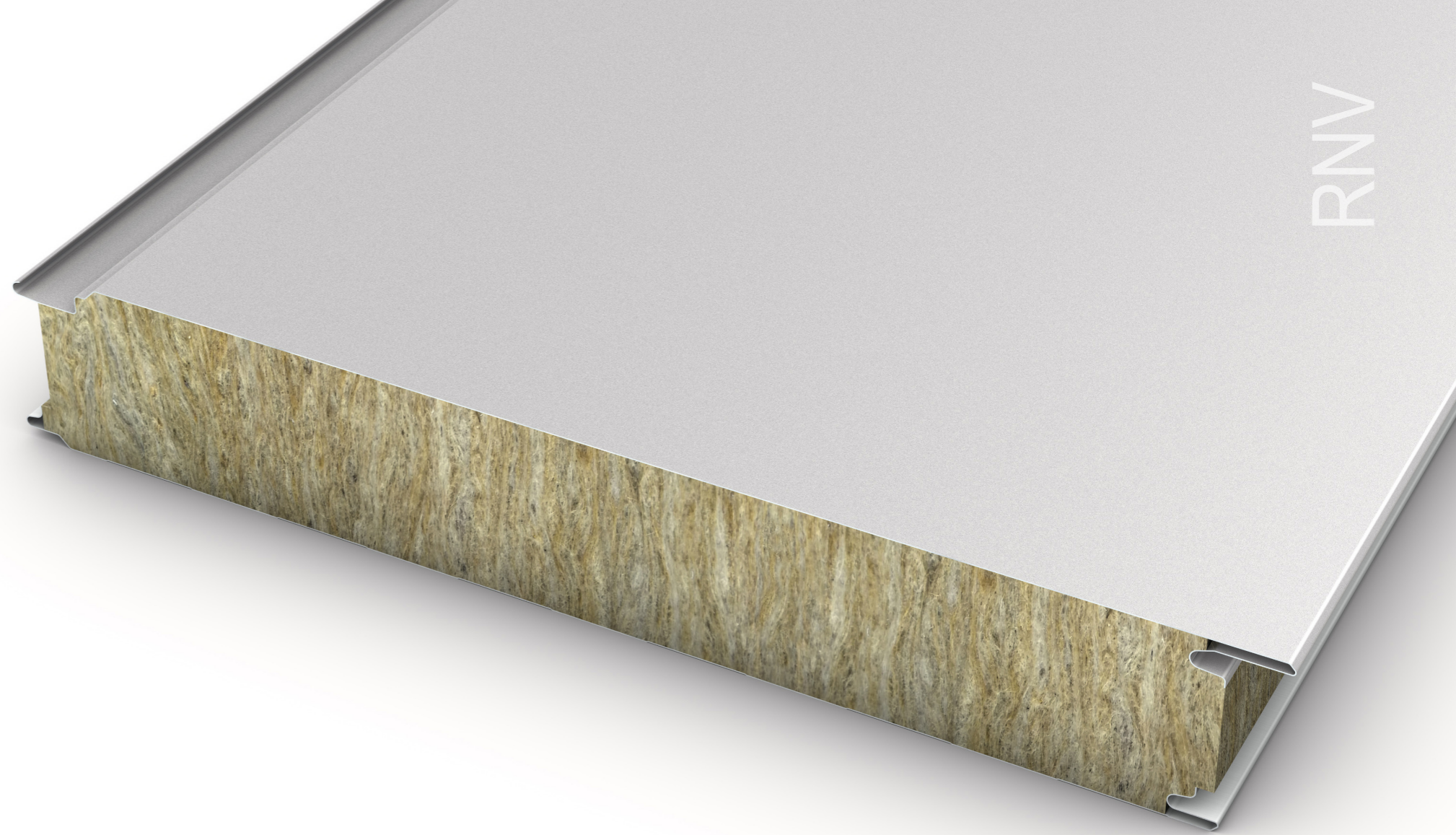


LONGITUDINAL JOINT



TRANSVERSAL TYPICAL JOINT HORIZONTAL AND VERTICAL INSTALLATION

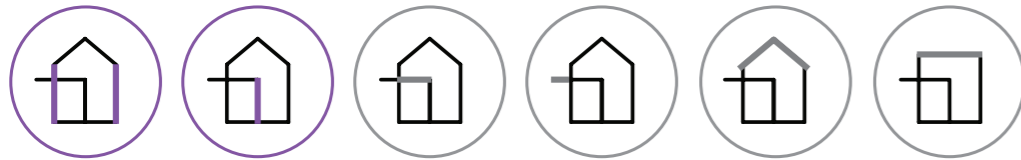




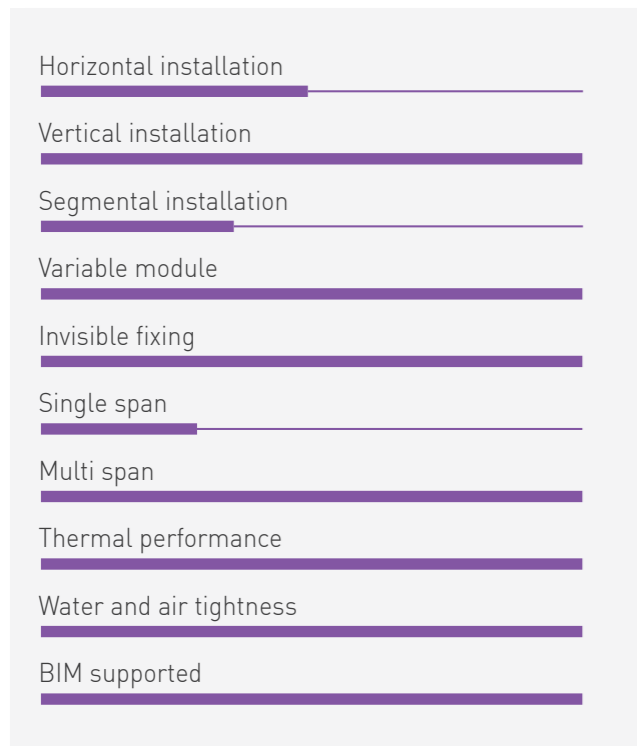
TRIMOTERM FTV HL

Trimoterm FTV HL fireproof facade panel is a powerful sandwich panel with a focus on design. The technological progression of standard joint design results in a hidden fixing solution while retaining all the advantages of Trimoterm FTV. Combinations of various profile type options and plentiful application options make Trimoterm FTV HL a perfect solution for unique architectural minimalistic facade design with superb characteristics.

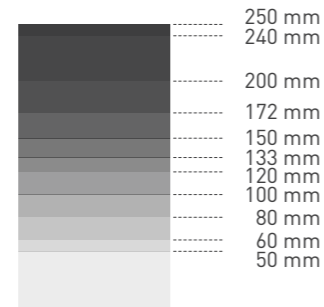
APPLICATION OPTION



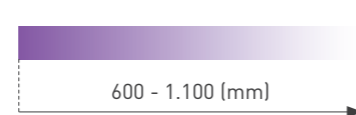
NAVIGATOR



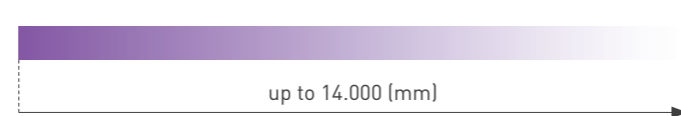
THICKNESS



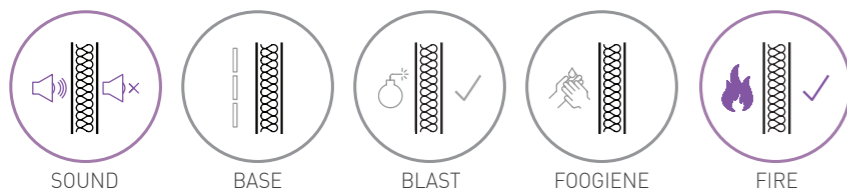
MODULE



LENGTH



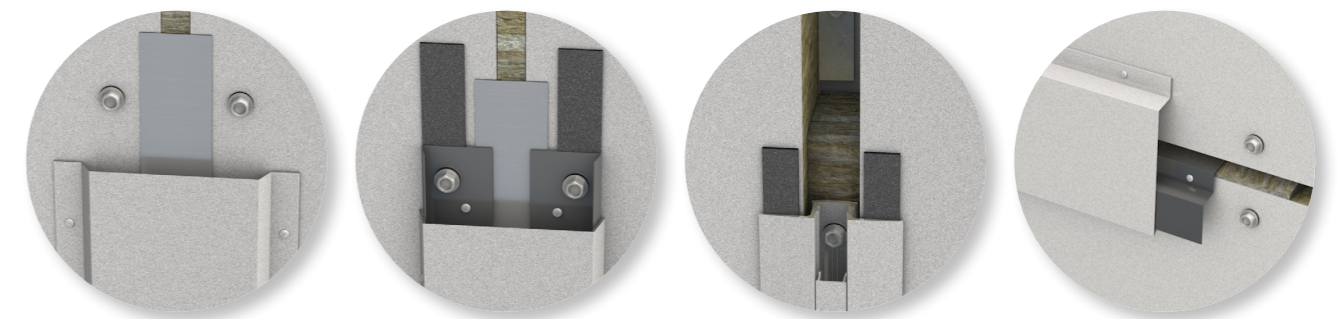
FUNCTION OPTION

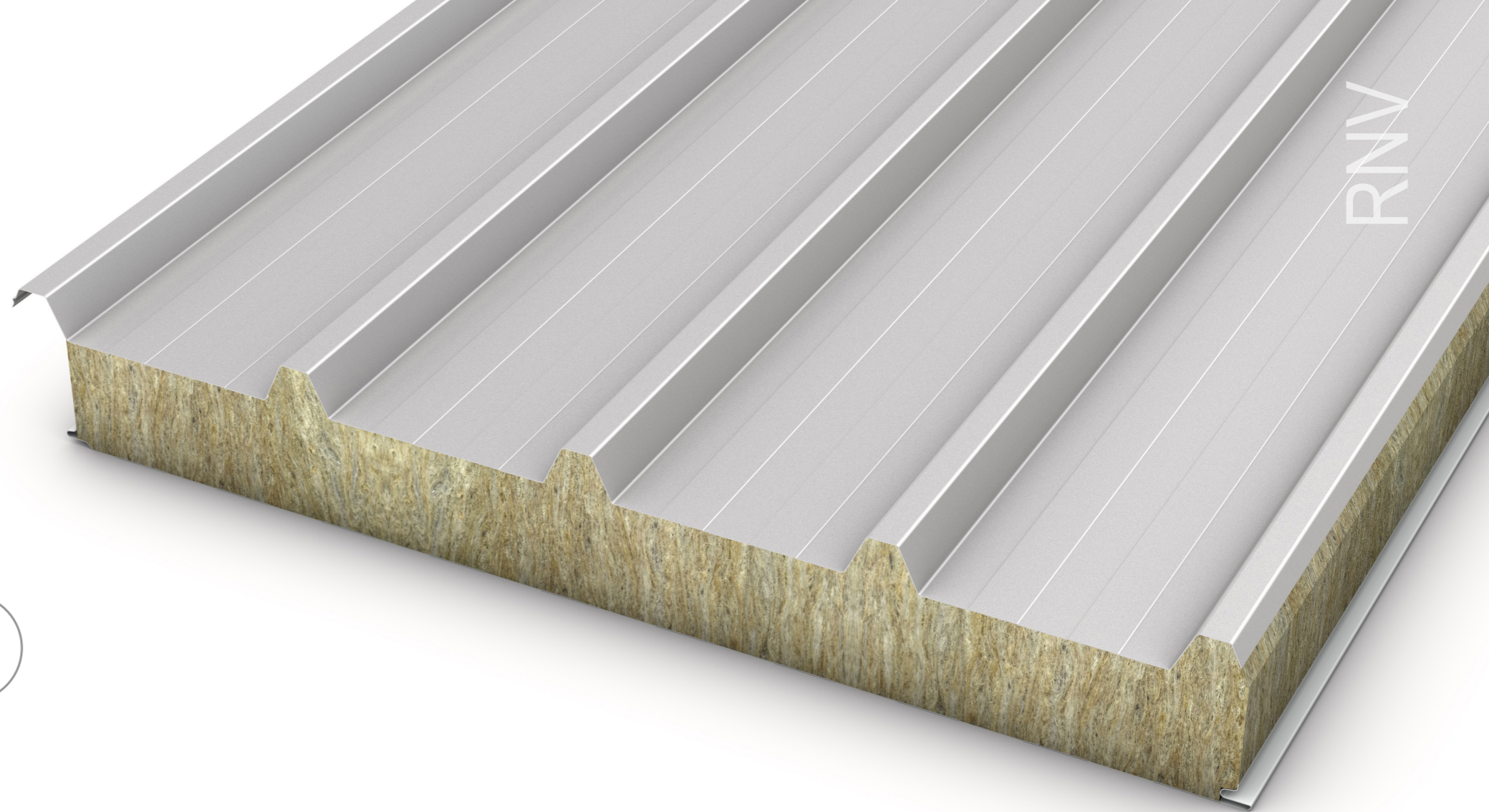


LONGITUDINAL JOINT



TRANSVERSAL TYPICAL JOINT HORIZONTAL AND VERTICAL INSTALLATION

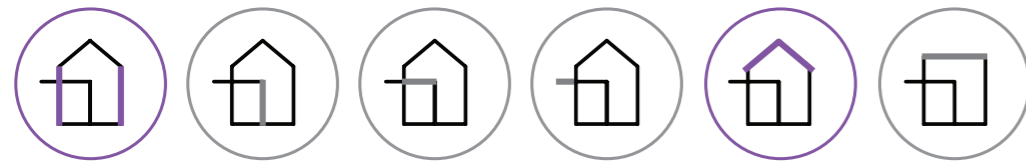




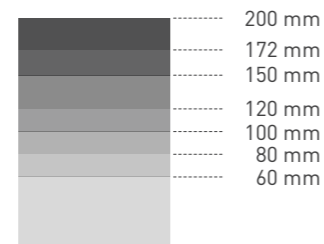
TRIMOTERM SNV

Trimoterm SNV is mainly a roofing panel, composed of two metal sheet coverings, connected by an insulating, non-combustible mineral wool layer. The upper side of the panel has a trapezoidal profile, to make the roof more resistant to snow and wind loads while reaching longer spans. Lap-joint between two panels with the sealing tape between them increases the system water-tightness and air-tightness.

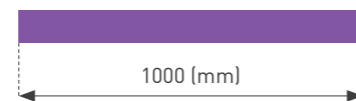
APPLICATION OPTION



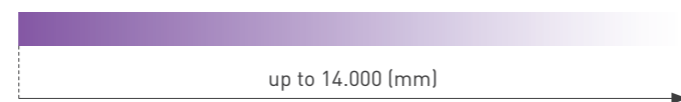
THICKNESS



MODULE

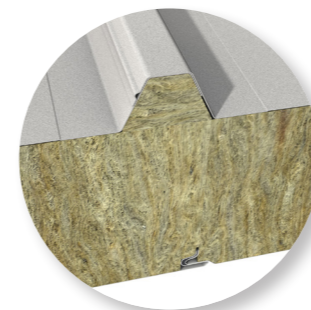


LENGTH

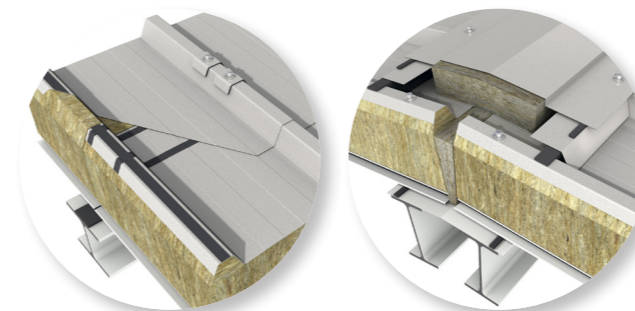


- Horizontal installation
- Vertical installation
- Segmental installation
- Variable module
- Invisible fixing
- Single span
- Multi span
- Thermal performance
- Water and air tightness
- BIM supported

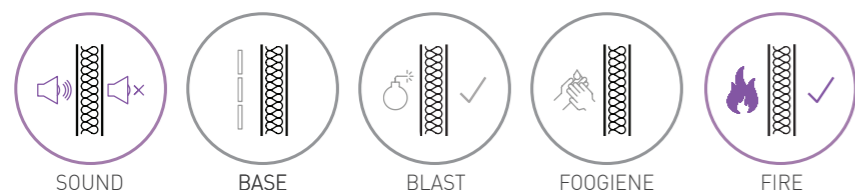
LONGITUDINAL JOINT



TRANSVERSAL TYPICAL JOINT AND RIDGE JOINT



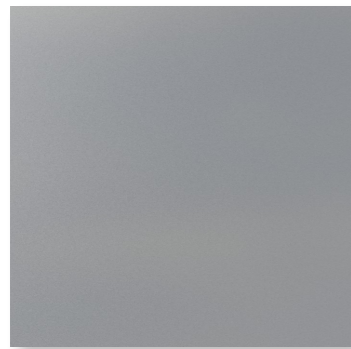
FUNCTION OPTION



PROFILE TYPES OVERVIEW

Achieving compelling visual effect with different types of Trimoterm panels is easy. Design requirements of any projects can be met with a vast array of different panel profiles.

Additional options and variations of "V" profiles are available upon request. Smooth profile (G) can be used either for external or internal side of the panel. To ensure the optimal surface smoothness of the facade, 0,7 mm thick steel sheet must be used.



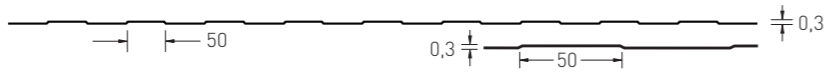
SMOOTH PROFILE (G)



FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	✓	SNV	INTERNAL SIDE	✓
	EXTERNAL SIDE	✓		EXTERNAL SIDE	✓		EXTERNAL SIDE	



S PROFILE (S)



FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	✓	SNV	INTERNAL SIDE	✓
	EXTERNAL SIDE	✓		EXTERNAL SIDE	✓		EXTERNAL SIDE	



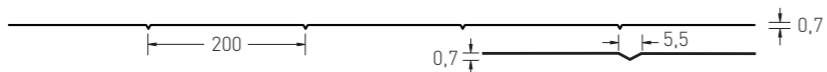
V PROFILE (V)



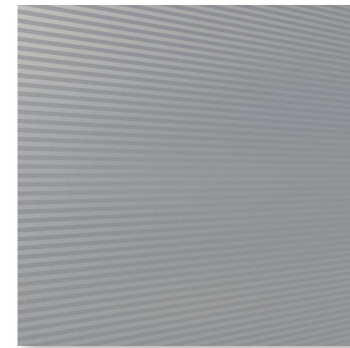
FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	✓	SNV	INTERNAL SIDE	✓
	EXTERNAL SIDE	✓		EXTERNAL SIDE	✓		EXTERNAL SIDE	



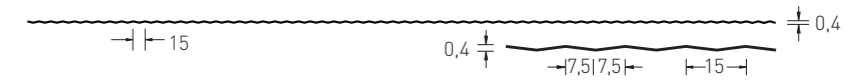
V PROFILE (V2)



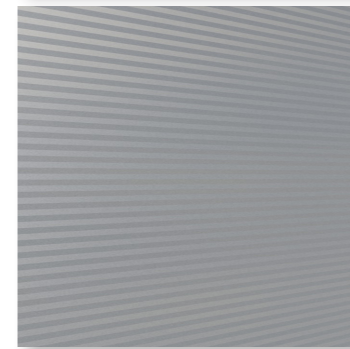
FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	✓
	EXTERNAL SIDE	✓		EXTERNAL SIDE	✓



MICRO-LINED PROFILE (M)



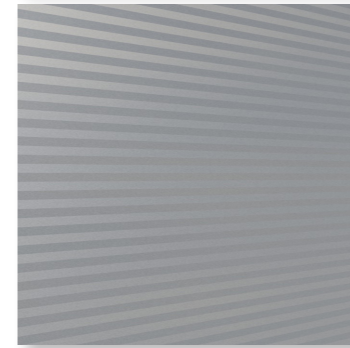
FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	
	EXTERNAL SIDE	✓		EXTERNAL SIDE	✓



MICRO-LINED PROFILE (M2)



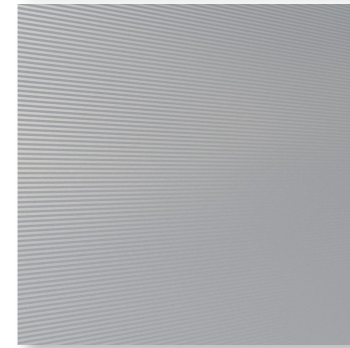
FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	✓	SNV	INTERNAL SIDE	✓
	EXTERNAL SIDE			EXTERNAL SIDE			EXTERNAL SIDE	



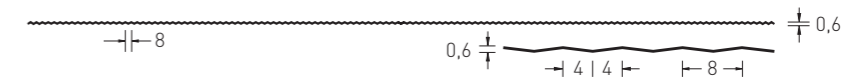
MICRO-LINED PROFILE (M3)



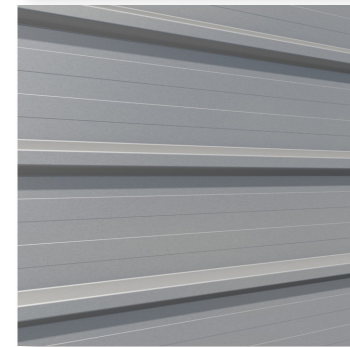
FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	
	EXTERNAL SIDE	✓		EXTERNAL SIDE	✓



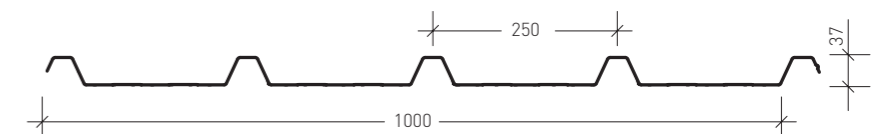
MICRO-LINED PROFILE (M8)



FTV	INTERNAL SIDE	✓	FTV HL	INTERNAL SIDE	
	EXTERNAL SIDE	✓		EXTERNAL SIDE	✓



TRAPEZOID PROFILE



SNV	INTERNAL SIDE	
	EXTERNAL SIDE	✓

ADD-ONS OVERVIEW

DECORATIVE ELEMENTS

The range and the variety of decorative elements capture our attention and charm us with the luxuriously decorated façades. Set of our aluminium decorative elements is powder coated to match the colour of your façade or you can choose a colour you wish.

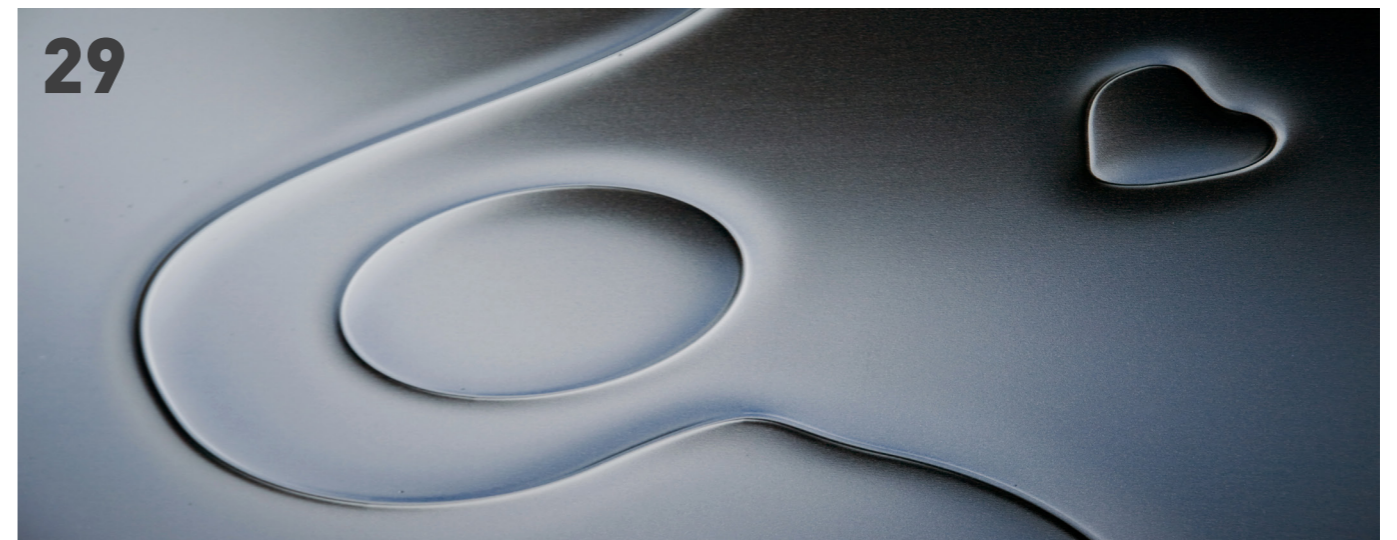


ARTME

With Artme it's possible to extend your vision and design creativity onto a large façade canvas. As with every introduction, first impressions are crucial and you may wish to consider the importance of this for your building. Artme design can introduce your building to the public in a distinctive way and ensure not only a powerful first but also an everlasting impression. Choose, design, and impose almost any eye-catching graphical element to your building, tell your own story and stand out!

Artme uses a highly controlled, 3D-forming technology, which is being used for the first time on completed façade elements with pre-coated steel-sheet surfaces. Recognising the importance of product performance, the original integrity and characteristics of the façade elements are preserved without compromise. Artme won the prestigious Red Dot Product Design Award, which makes it the only product from the fireproofed roofs and facades sector to receive this award.

Artme, a unique product for unique personalities



reddot design award
winner 2010

APPLICATION & FUNCTION SOLUTION OVERVIEW

Navigating through the document is interactive. By clicking on and selecting a product family from the table links you to the product portfolio overview panel. Click on a selected product, will navigate you to the product overview. By choosing and clicking on a type of application or function, the navigation takes you to a selected solution overview. In this way the comprehensive comparison between different products and solutions can be done.

Table represents how Trimo's products are used depending on application and function. Solutions with solid bullet points are described in this document, empty bullet points mark possible application and function of the product, available upon request.

COMPANY	PRODUCT FAMILY	PRODUCT	APPLICATION							FUNCTION					
			FLAT ROOF	PITCHED ROOF	INSULATED FACADE	VENTILATED FACADE	SOFFIT	INTERNAL WALL	CEILING	ACOUSTIC SOUND	BACKING WALL BASE	ANTI-BLAST BLAST	FOOD & HYGIENE FOOGIENE	RESISTANCE FIRE	ADD-ON
TRIMO	QBISS	QBISS ONE			●		○	○	●	○			○	●	●
		QBISS BX			○			○		○			○	○	○
	QBISS SCREEN	QBISS SCREEN MW				●	○	○	○				○	●	●
		QBISS SCREEN H				○	○	○	○				○		
		QBISS SCREEN H+				○		○					○		
	TRIMOTERM	TRIMOTERM FTV	●		●		○	●	○	○	●	○	●	●	●
		TRIMOTERM FTV HL			●			○		○				●	●
		TRIMOTERM SNV		●	○					○				●	

- Approved
- Approved, available upon request
- Approved on internal steel sheet available upon request

Hint!

We accept challenges and develop tailor-made solutions for your unique architecture for your location. Contact us by e-mail or phone:

✉ technical@trimo-group.com
 📞 +386 (0)7 34 60 200



SOLUTION OVERVIEW

INSULATED FIRE-RESISTANT FACADE SYSTEM **QBISS ONE** PRODUCT



TECHNICAL FEATURES INSULATED FIRE-RESISTANT FAÇADE SYSTEM **QBISS ONE** PRODUCT

Product	QBISS ONE	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	80-250
	M (mm)	600-1200
	R (mm)	530-6500
External steel sheet	Thickness t (mm)	0.7
	Profile	Gladio (G)
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	S, V, V2, M, M3
Features	Mineral Wool core (EN 14509)	Power T, Power S, Perform C
	Weight (kg/m ²)	18.7-41.5
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	up to EI120
	Thermal transmittance U (W/m ² K)	as low as 0.15
	Airborne sound insulation R _w [C:C _v] (dB)	up to 30 (-1;-3)
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=0.97: C=0.0046
	Burglary resistance class (EN 1627)	RC3 *pending certification
	Certificates	CE, LPCB, FM

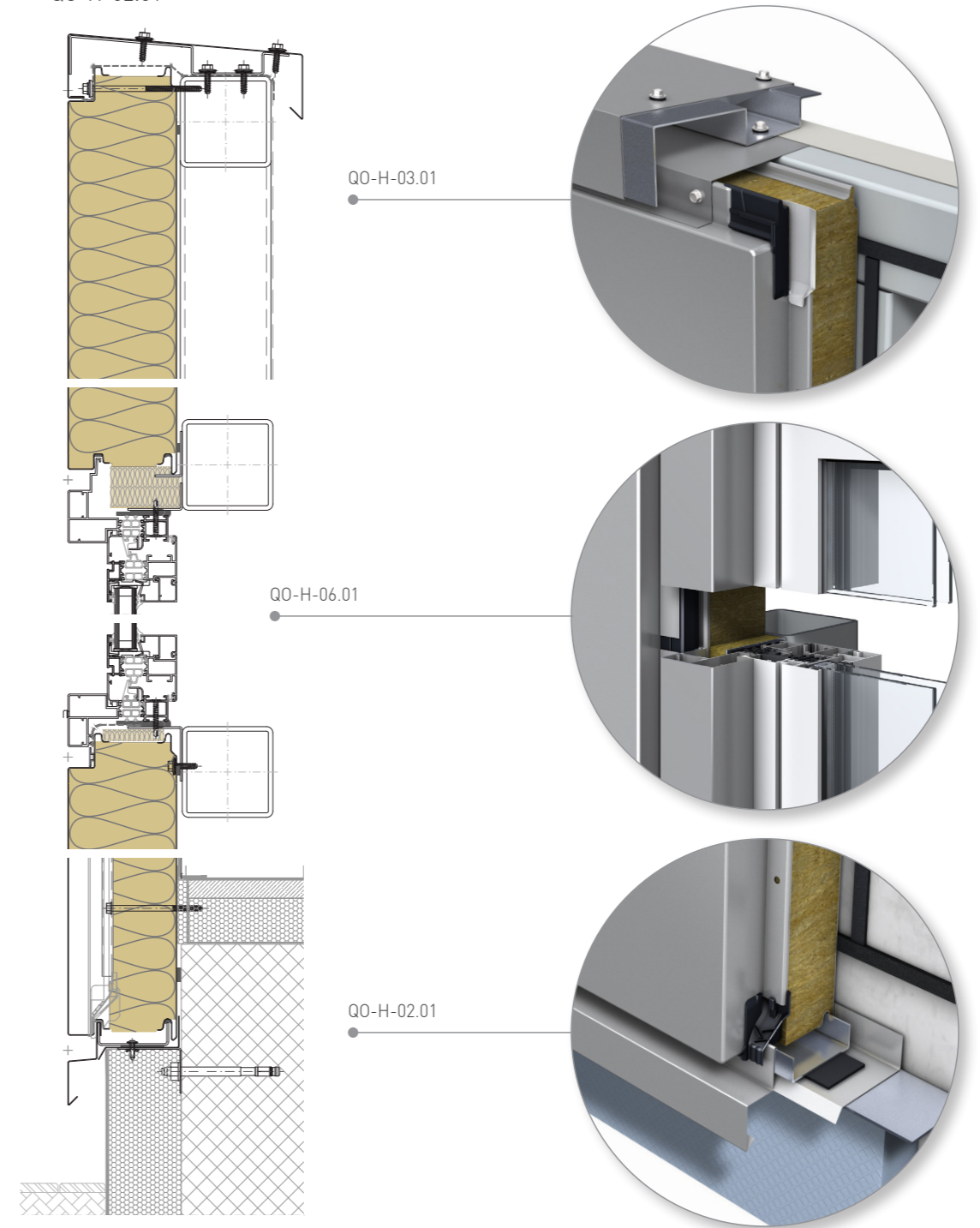
HORIZONTAL INSULATED FIRE-RESISTANT FAÇADE SYSTEM **QBISS ONE** PRODUCT

LONGITUDINAL JOINT



FIRE-RESISTANT FACADE OPTION VERTICAL CUT

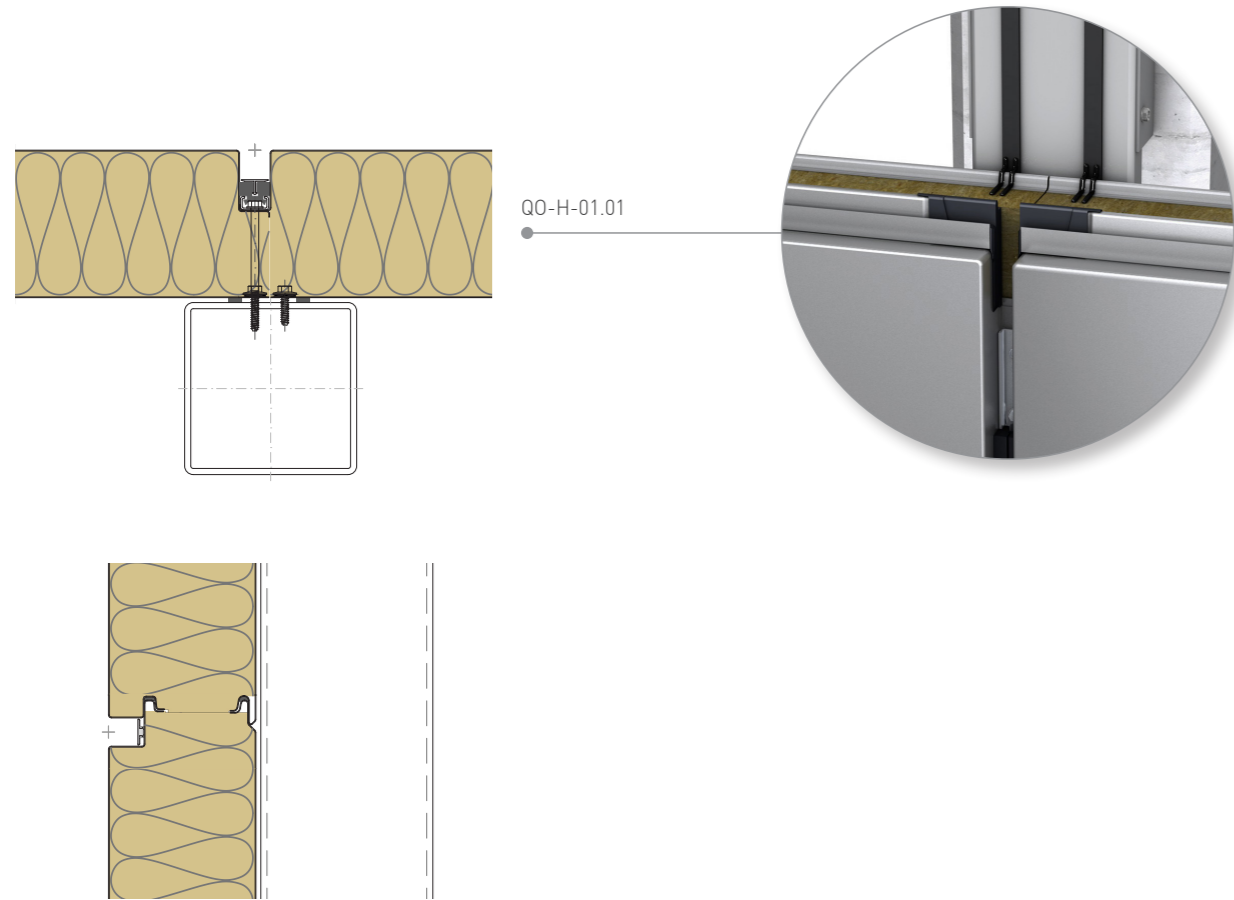
PARAPET	QO-H-03.01
WINDOW	QO-H-06.01
BASE	QO-H-02.01



INDICATIVE •

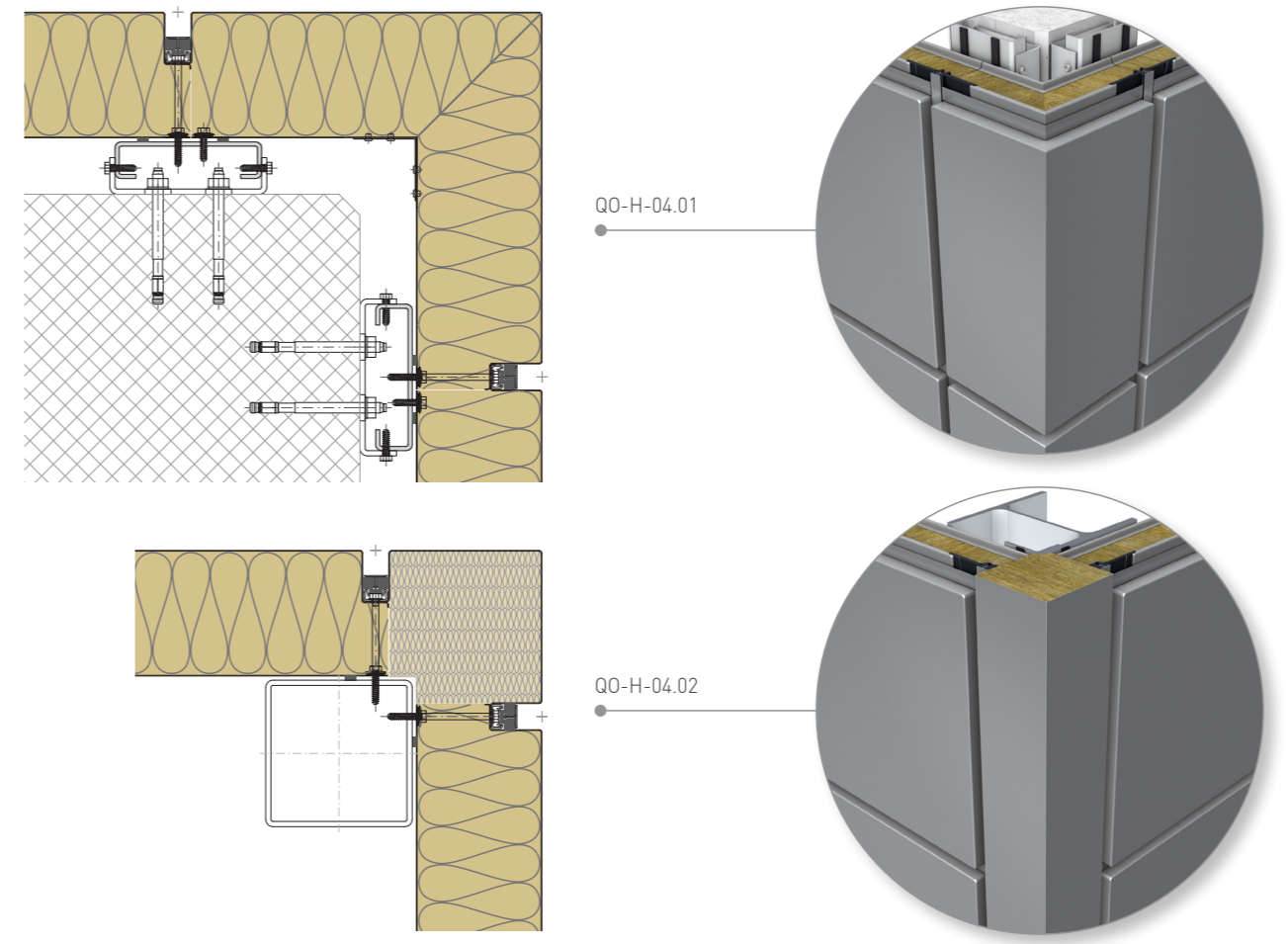
FIRE-RESISTANT JOINT OPTION:
HORIZONTAL AND VERTICAL CUT

JOINT QO-H-01.01



FIRE-RESISTANT CORNER OPTION:
HORIZONTAL CUT

EXTERNAL CORNER QO-H-04.01
EXTERNAL CORNER QO-H-04.02



INDICATIVE •

BENEFITS INSULATED FIRE-RESISTANT FACADE SYSTEM **QBISS ONE** PRODUCT



SPAN

Long, single-span elements enable fast installation and reduced amount of substructure.



ROUNDED CORNER

Rounded corners without any cut or welds, offer superb anticorrosion protection.



EXCELLENT THERMAL PROPERTIES

Considering environmental aspect while renovating, Qbiss One gives an excellent thermal properties to the building's envelope, resulting in low energy consumption for HVAC.



SOUND

An outstanding acoustic characteristics of Qbiss One provide an ideal working and living environment.

CEILING
SYSTEM
QBISS ONE
PRODUCT



TECHNICAL FEATURES
CEILING SYSTEM
QBISS ONE
PRODUCT

Product	QBISS ONE	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	80-250
	M (mm)	600-1200
	R (mm)	530-6500
External steel sheet	Thickness t (mm)	0.7
	Profile	G
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	S, V, V2, M, M3
Features	Mineral Wool core (EN 14509)	Power T, Power S, Perform C
	Weight (kg/m ²)	18.7-41.5
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	/
	Thermal transmittance U (W/m ² K)	as low as 0.15
	Airborne sound insulation R _w [C:C _v] (dB)	up to 30 (-1;-3)
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=0.97: C=0.0046
	Burglary resistance class (EN 1627)	RC3 *pending certification
	Certificates	CE, LPCB, FM

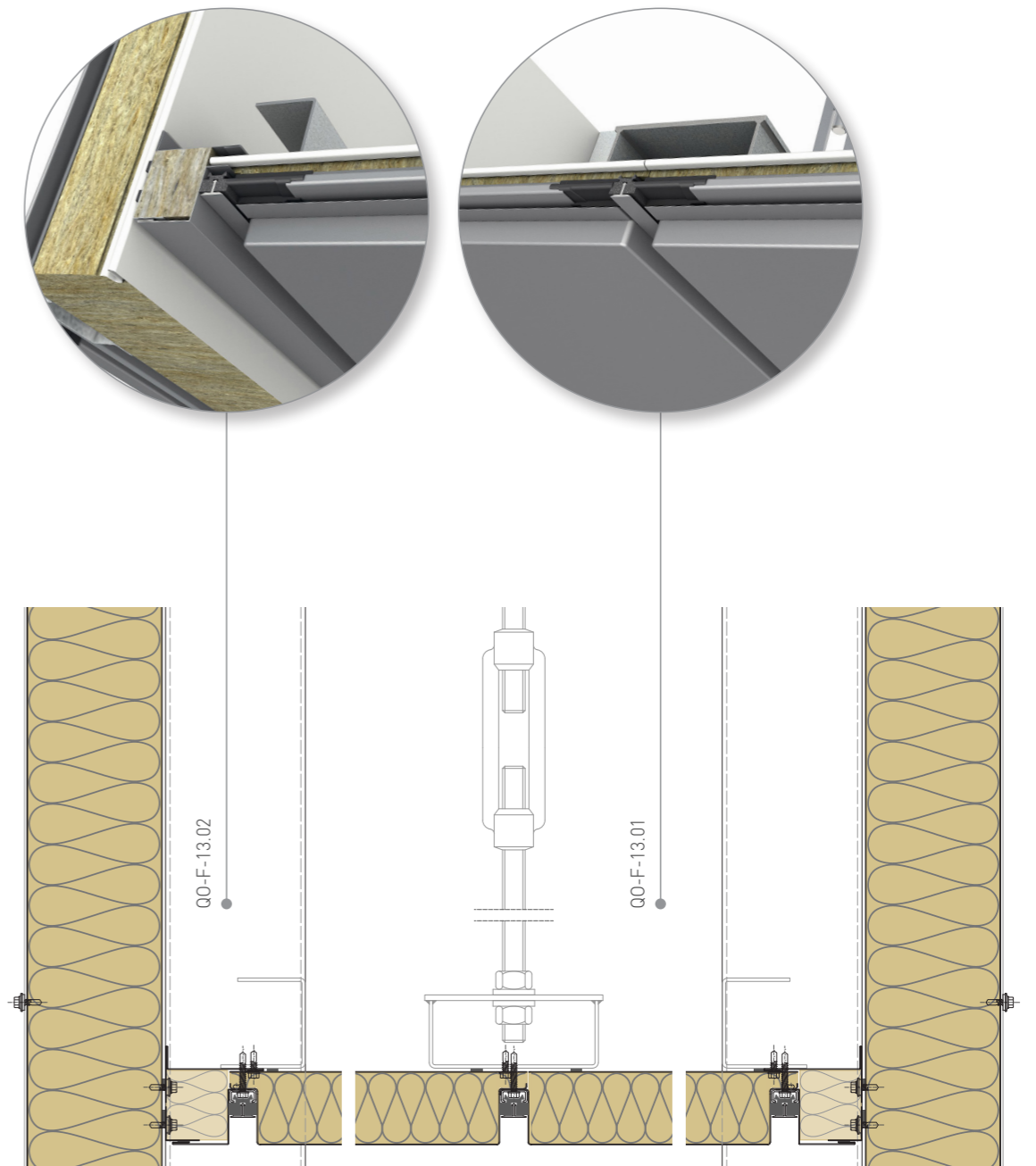
CEILING SYSTEM **QBISS ONE** PRODUCT

INDICATIVE •

FLAT CEILING OPTION VERTICAL CUT

CEILING	QO-F-13.01
CEILING	QO-F-13.02

LONGITUDINAL JOINT



BENEFITS CEILING SYSTEM **QBISS ONE** PRODUCT



FLATNESS

Composite panel composed of two pre-painted galvanized steel sheet and mineral wool core give elements visibly higher level surface flatness.



INSTALLATION

Qbiss One ceiling elements enables easy cut-out for recessed light installation.



MINERAL WOOL CORE

Mineral wool core gives elements high load-bearing capacity, minimal thermal expansion and thermal deflection.



ECOLOGY

98% recyclable compounds builds Qbiss Screen MW, making a Qbiss Screen one of the most eco-friendly rainscreen on the market.

Hint!

We know how to help you.
Contact us by e-mail or phone:

✉ technical@trimo-group.com
☎ +386 (0)7 34 60 200



VENTILATED
FIRE-RESISTANT
FAÇADE SYSTEM
QBISS SCREEN MW
PRODUCT

TECHNICAL FEATURES
VENTILATED FIRE-RESISTANT
FAÇADE SYSTEM
QBISS SCREEN MW
PRODUCT

Product	QBISS SCREEN MW	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	65
	M (mm)	600-1200
	R (mm)	530-6500
External steel sheet	Thickness t (mm)	0.7
	Profile	G
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G
Features	Mineral Wool core (EN 14509)	Power S
	Weight (kg/m ²)	20.1
	Reaction to fire (EN 13501-1)	A2-s1, d0
	Certificates	CE

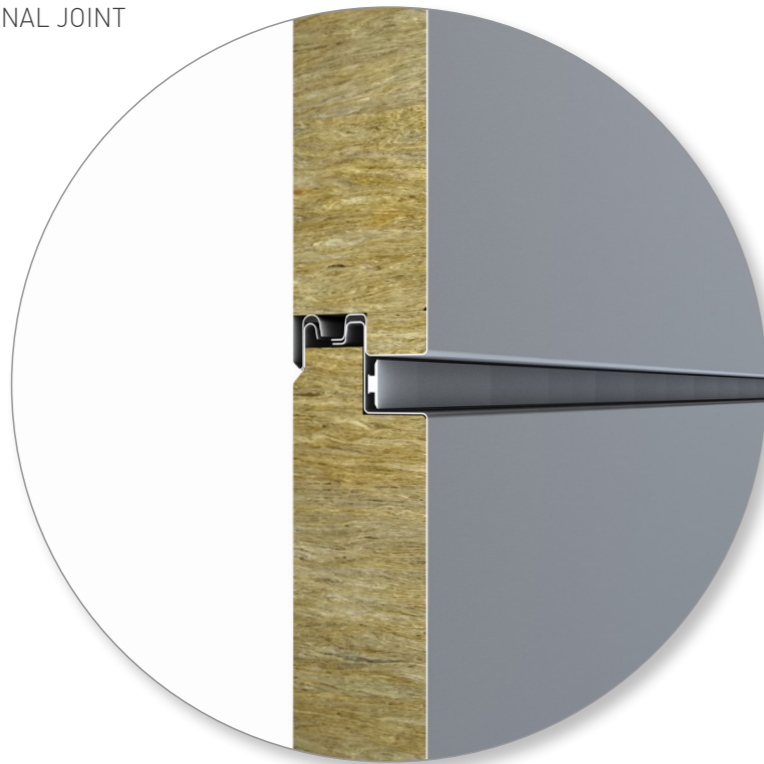
Hint!

We know how to develop and optimize product formula for your unique architecture for your location. Contact us by e-mail or phone:

✉ technical@trimo-group.com
☎ +386 (0)7 34 60 200

VENTILATED FIRE-RESISTANT FAÇADE SYSTEM **QBISS SCREEN MW** PRODUCT

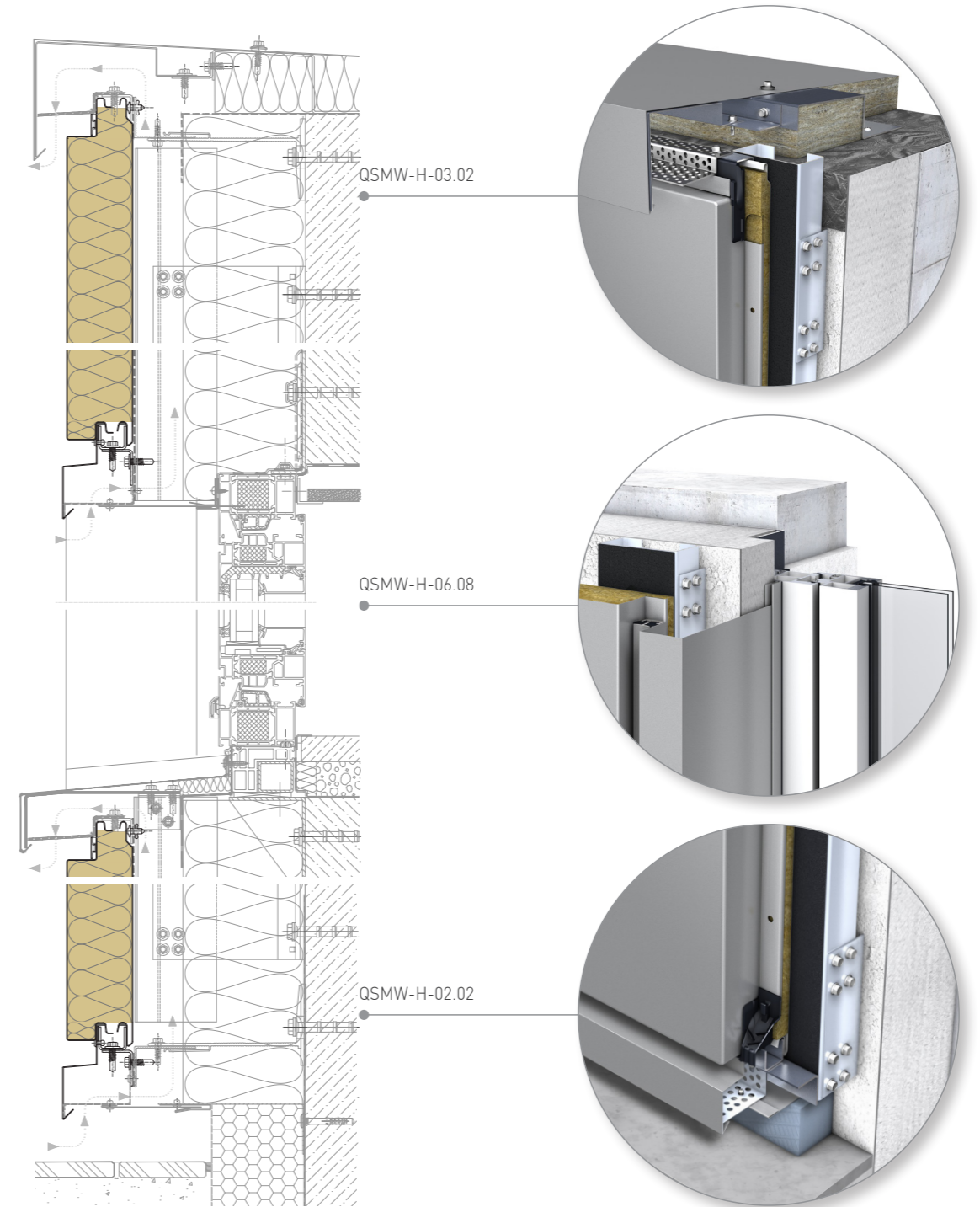
LONGITUDINAL JOINT



VENTILATED FACADE OPTION VERTICAL CUT

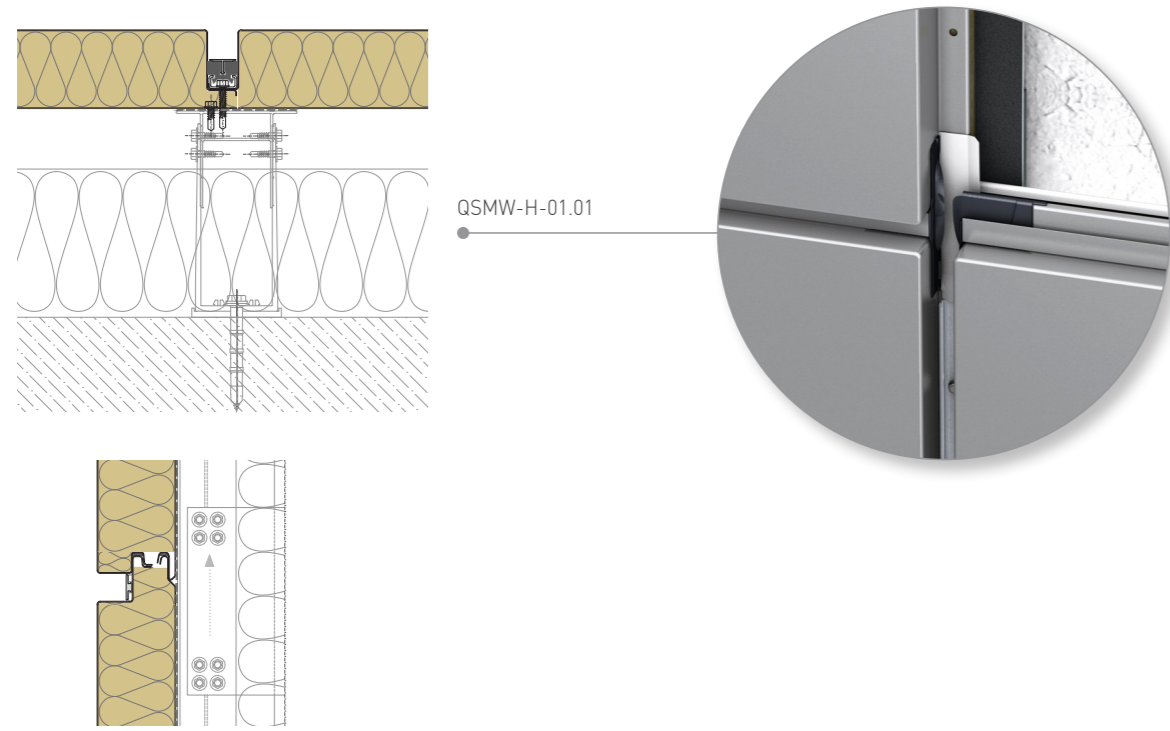
PARAPET	QSMW-H-03.02
WINDOW	QSMW-H-06.08
BASE	QSMW-H-02.02

INDICATIVE •



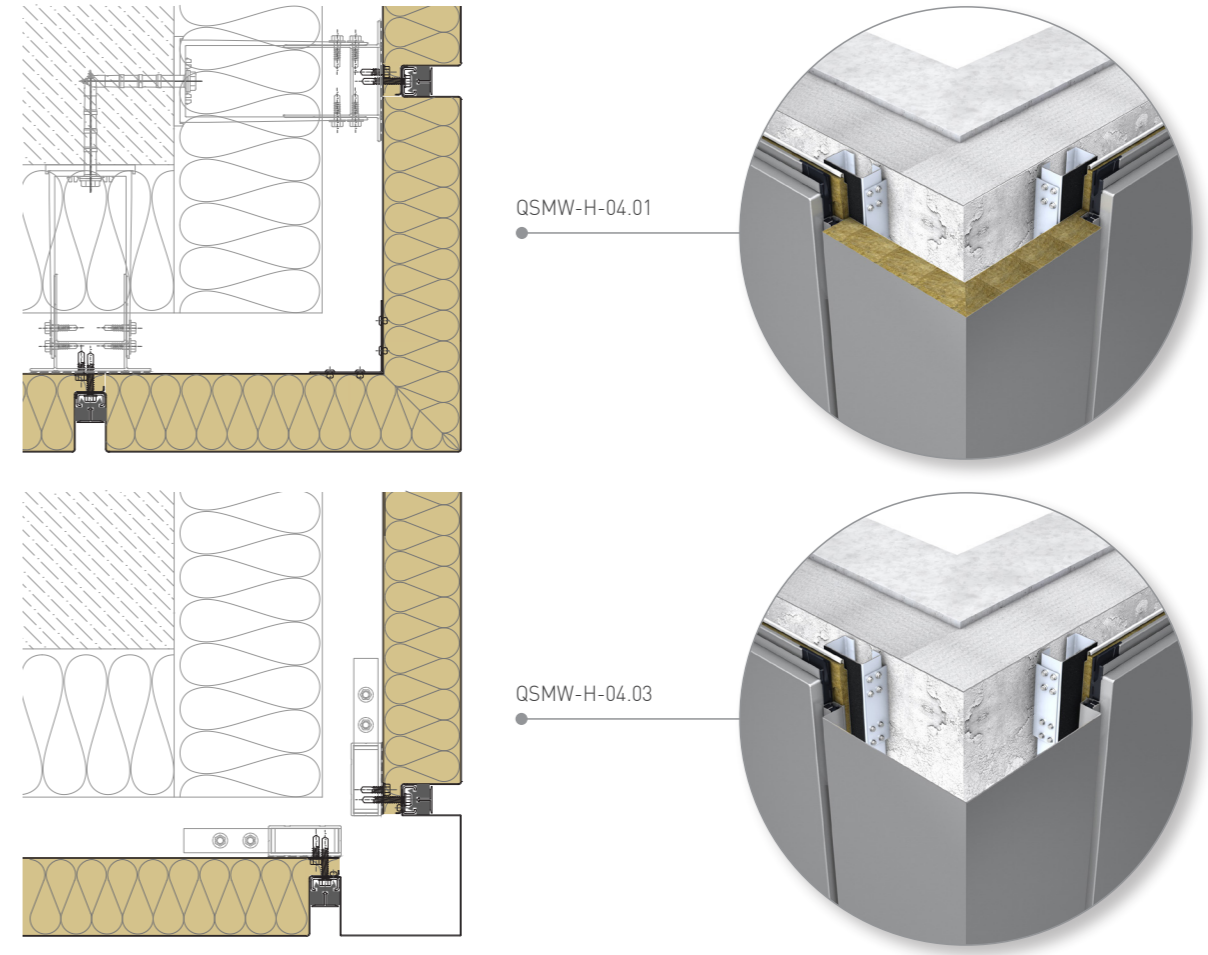
VENTILATED FACADE JOINT OPTION:
HORIZONTAL AND VERTICAL CUT

JOINT QSMW-H-01.01



VENTILATED FACADE CORNER OPTION:
HORIZONTAL CUT

EXTERNAL CORNER QSMW-H-04.01
EXTERNAL CORNER QSMW-H-04.03



INDICATIVE •



BENEFITS

VENTILATED FIRE-RESISTANT FACADE SYSTEM

QBISS SCREEN MW

PRODUCT



SPAN

Qbiss Screen MW in conjunction with Trimoterm backing panel, brings a system approach to ventilated facade with exceptional thermoregulation properties.



LIGHT WEIGHT

Combination of light weight and long span, makes Qbiss Screen MW easy and fast to install.



PREFABRICATED/PRE-ENGINEERED

All Qbiss Screen MW elements are produced in controlled environment and delivered to construction site ready to install.



ECOLOGY

98% recyclable compounds build Qbiss Screen MW, making it one of the most eco-friendly rainscreen on the market.

INSULATED
BACKING WALL
FAÇADE SYSTEM
TRIMOTERM FTV
PRODUCT

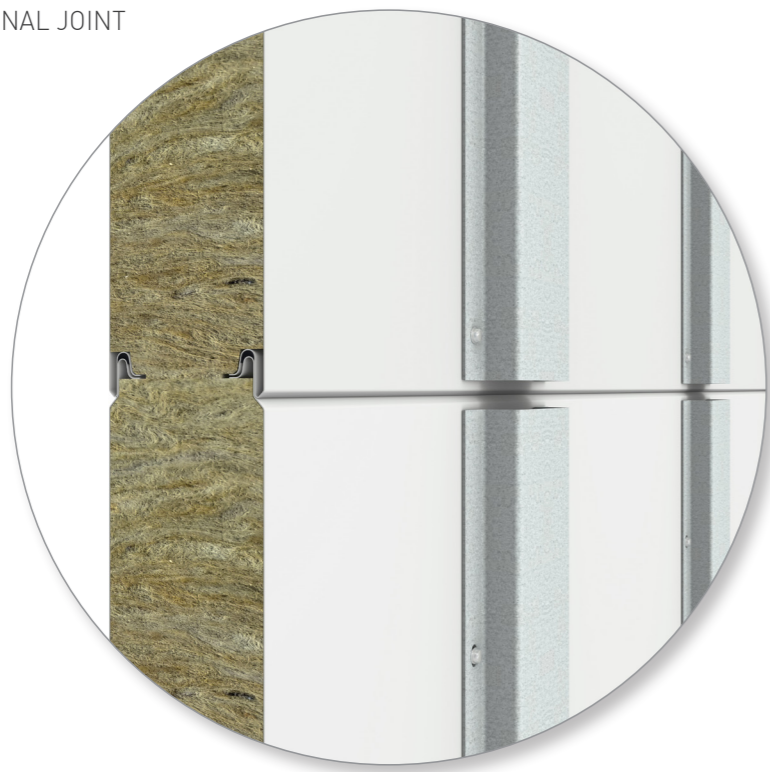


TECHNICAL FEATURES
INSULATED BACKING WALL
FAÇADE SYSTEM
TRIMOTERM FTV
PRODUCT

Product	TRIMOTERM FTV	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	100-240
	M (mm)	1000
	L (mm)	up to 6000
External steel sheet	Thickness t (mm)	0.7
	Profile	G
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M3
Features	Mineral Wool core (EN 14509)	Power S
	Weight (kg/m ²)	22.1-39.0
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	NPD
	Thermal transmittance U (W/m ² K)	as low as 0.16
	Airborne sound insulation R _w (C:C _r) (dB)	up to 32 (-1;-2)
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=1.5: C=0.00005
	Burglary resistance class (EN 1627)	RC3
	Certificates	CE, LPCB, FM

HORIZONTAL,
INSULATED
BACKING WALL
FAÇADE SYSTEM
TRIMOTERM FTV
PRODUCT

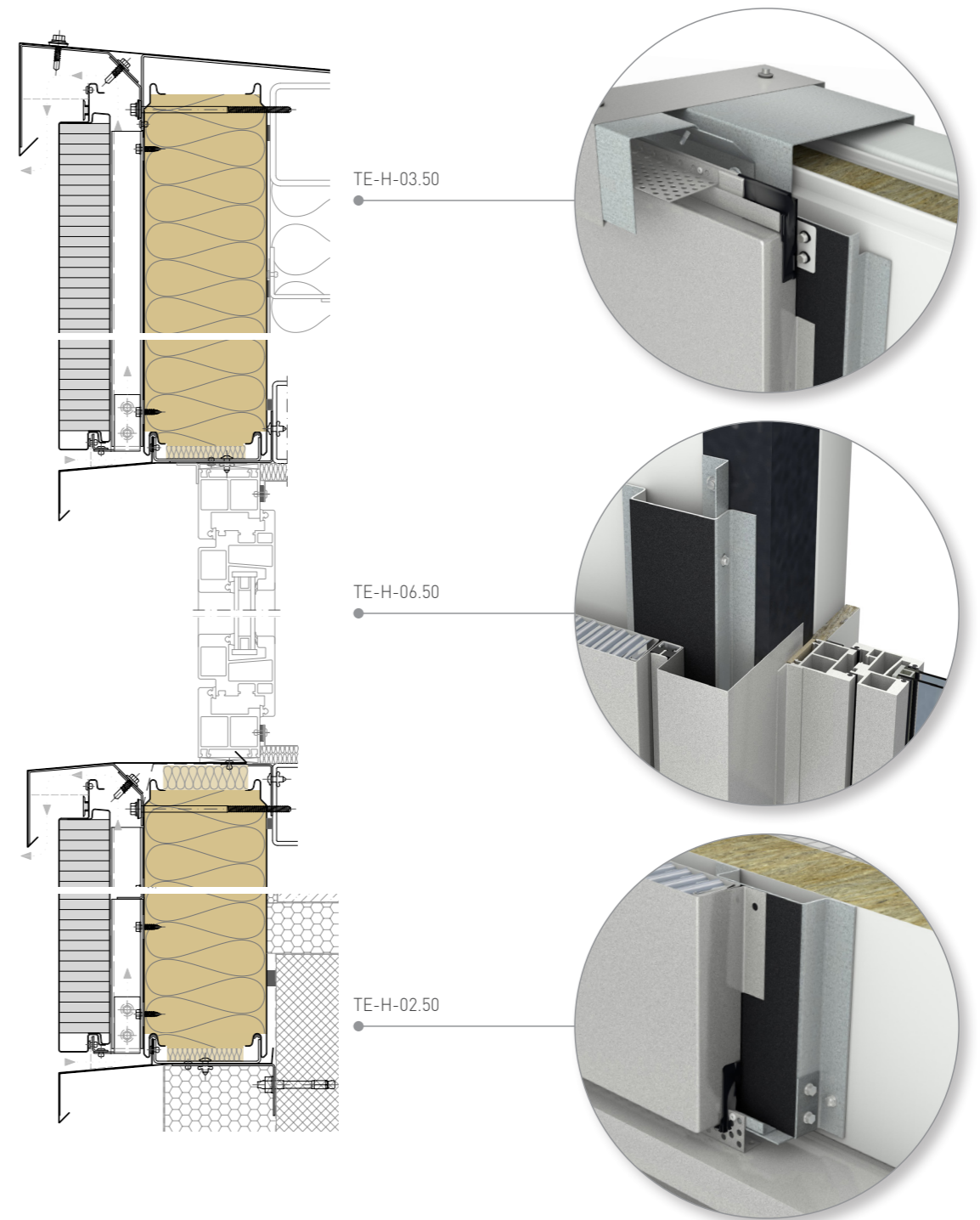
LONGITUDINAL JOINT



INSULATED FACADE OPTION
VERTICAL CUT

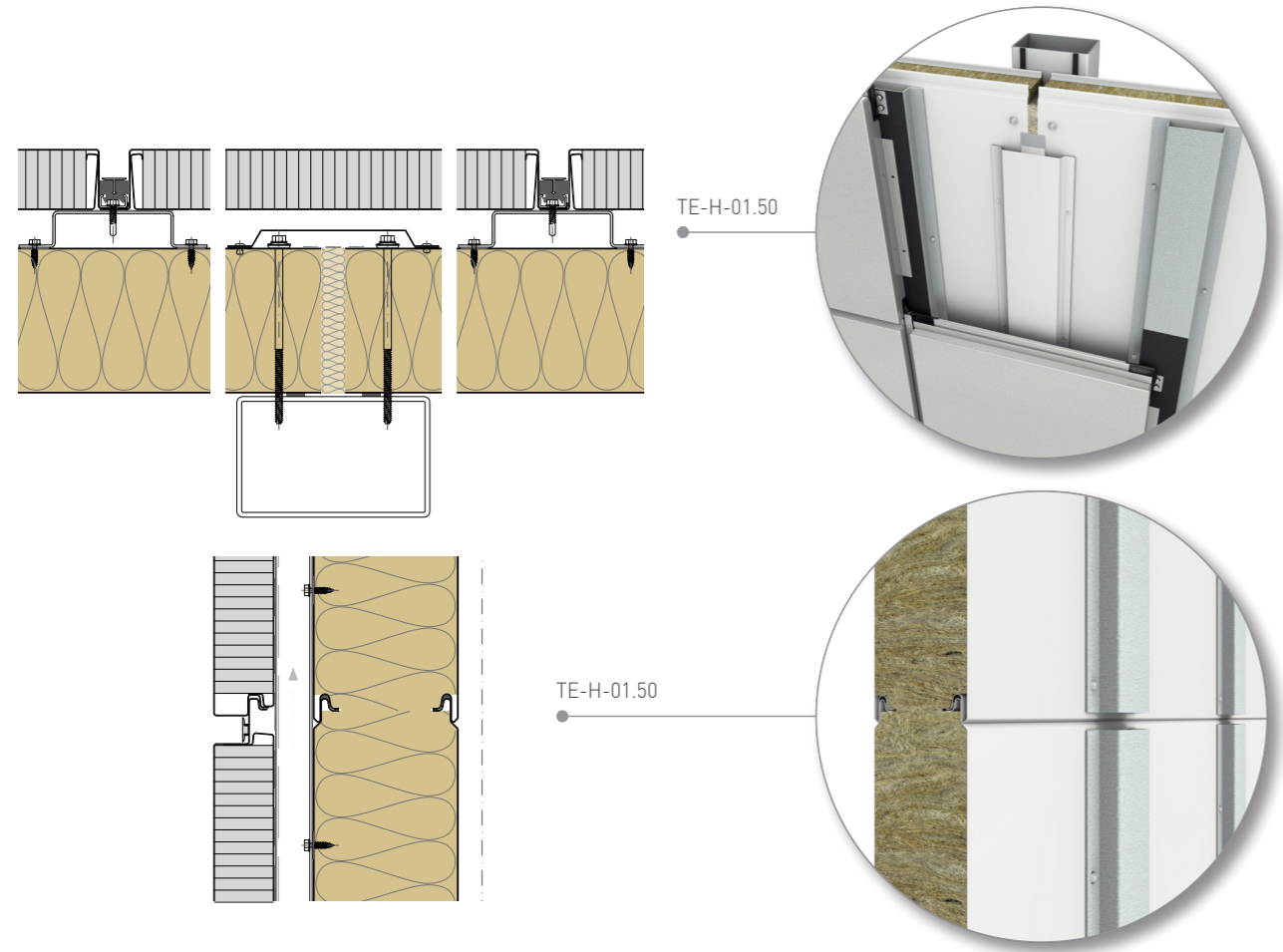
PARAPET	TE-H-03.50
WINDOW	TE-H-06.50
BASE	TE-H-02.50

INDICATIVE •



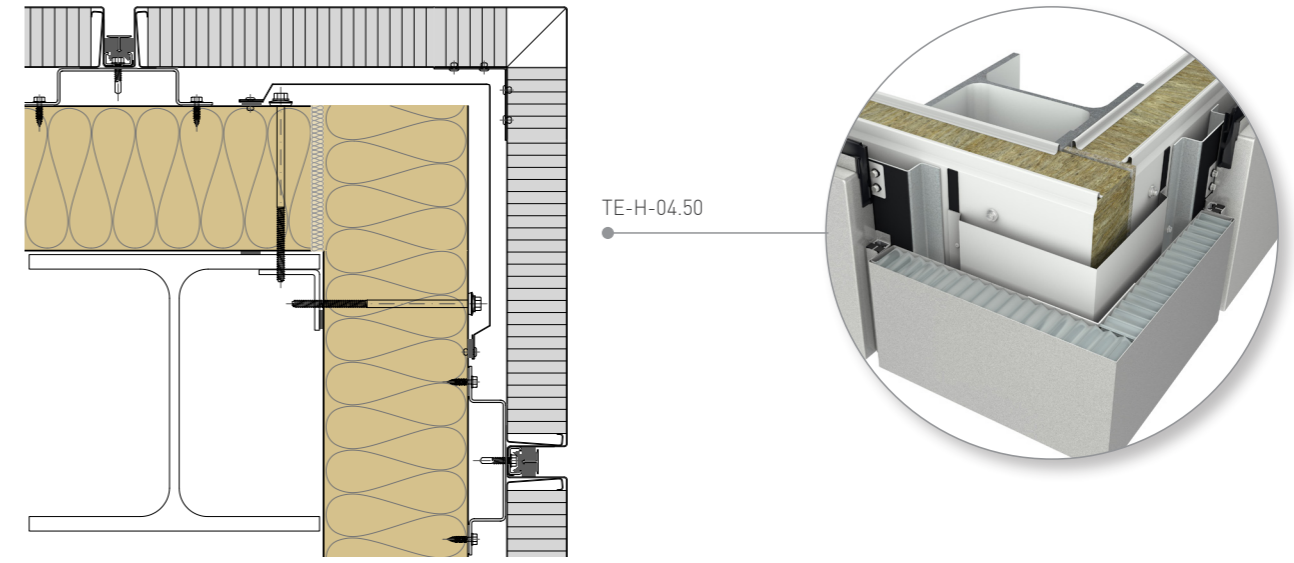
INSULATED FACADE JOINT OPTION:
HORIZONTAL AND VERTICAL CUT

JOINT TE-H-01.50



INSULATED FACADE CORNER OPTION:
HORIZONTAL CUT

EXTERNAL CORNER TE-H-04.50



INDICATIVE •



BENEFITS
INSULATED BACKING WALL
FAÇADE SYSTEM
TRIMOTERM FTV
PRODUCT



COMPATIBILITY

Trimoterm FTV backing wall system enables various final cladding with an extreme additional cladding load up to 60 kg/m².



FLEXIBLE INSTALLATION

The flexibility and simplicity of Trimoterm FTV backing wall system enable its quick installation in a horizontal or vertical direction.



STABLE CLIMATE

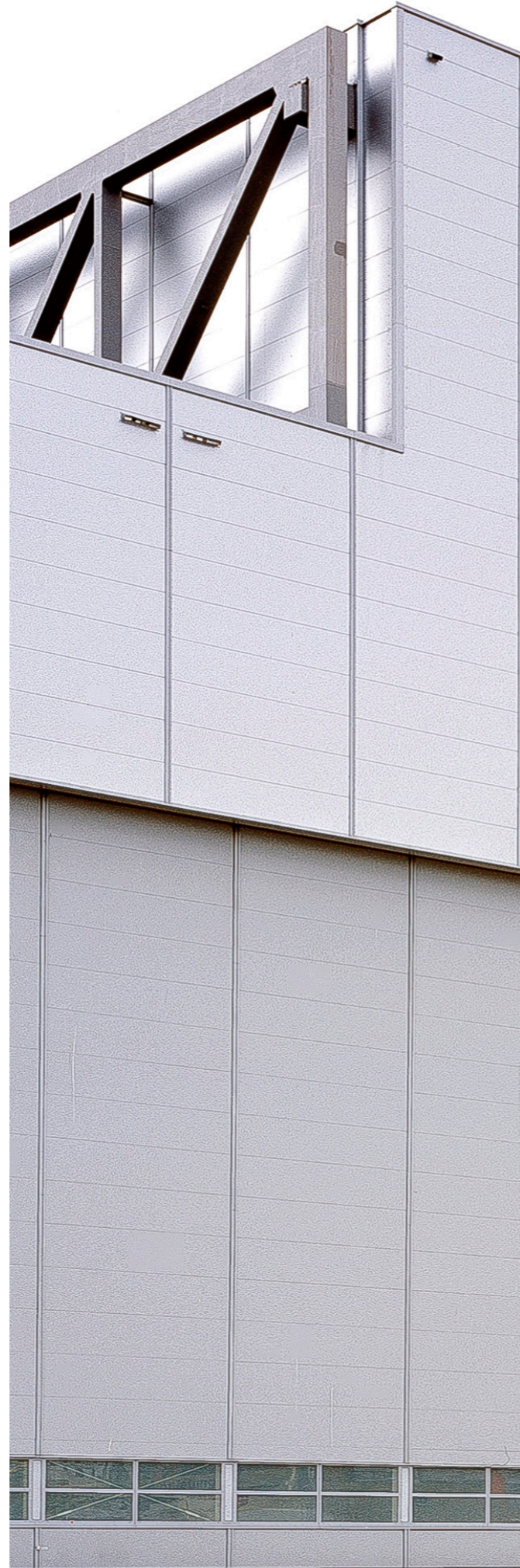
Trimoterm FTV backing wall facade system provides a stable climate with the best airtightness and water tightness in the market, exceptional thermal transmittance, and guarantees the safety of goods with reaction to fire classification A2-s1, d0.



OPERATING TIME

Trimoterm FTV backing wall system allows the renovation or replacement of the final cladding during the operating time of the building.

INSULATED
FIRE-RESISTANT
FAÇADE SYSTEM
TRIMOTERM FTV
PRODUCT




TECHNICAL FEATURES
INSULATED FIRE-RESISTANT
FAÇADE SYSTEM
TRIMOTERM FTV
PRODUCT

Product	TRIMOTERM FTV	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	60-250
	M (mm)	600-1200
	L (mm)	up to 14000
External steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M2, M3, M8
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M2, M3, M8
Features	Mineral Wool core (EN 14509)	Power T, Power S, Perform C, Perform R
	Weight (kg/m ²)	up to 40.2
	Reaction to fire	A2-s1, d0
	Fire resistance (i->o)	up to EI 240
	Thermal transmittance U (W/m ² K)	as low as 0.15
	Airborne sound insulation R _w (C:C _{tr}) (dB)	up to 32 [-1;-2]
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=1.5: C=0.00005
	Burglary resistance class (EN 1627)	RC3
	Certificates	CE, LPCB, FM

Hint!

Trimoterm FTV facade is a smart choice for cost effective energy efficient facade envelope. Contact us by e-mail or phone:

✉ sales@trimo-group.com
☎ +386 (0)7 34 60 200 

HORIZONTAL INSULATED FIRE-RESISTANT FAÇADE SYSTEM **TRIMOTERM FTV** PRODUCT

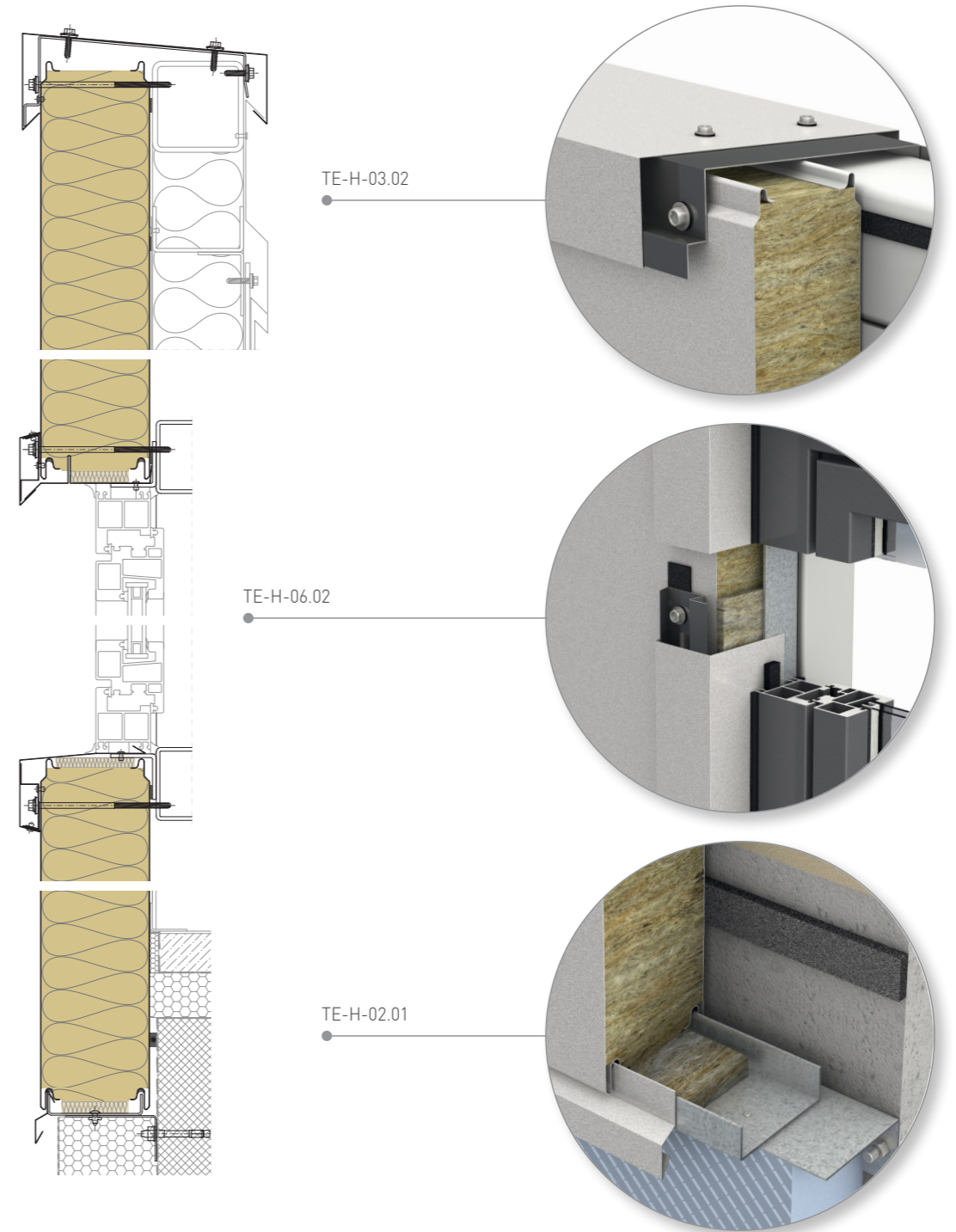
LONGITUDINAL JOINT



FIRE RESISTANCE FAÇADE OPTION VERTICAL CUT

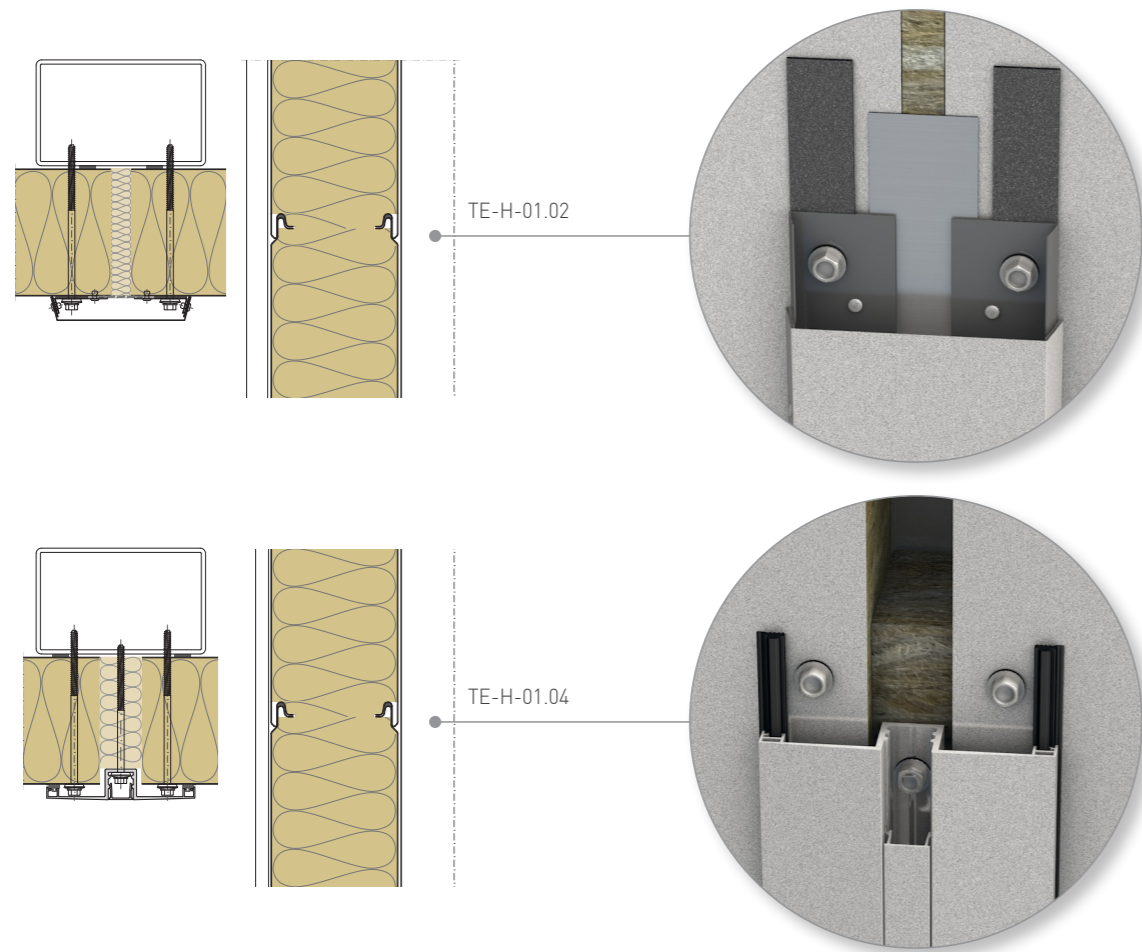
PARAPET	TE-H-03.02
WINDOW	TE-H-06.02
BASE	TE-H-02.01

INDICATIVE •



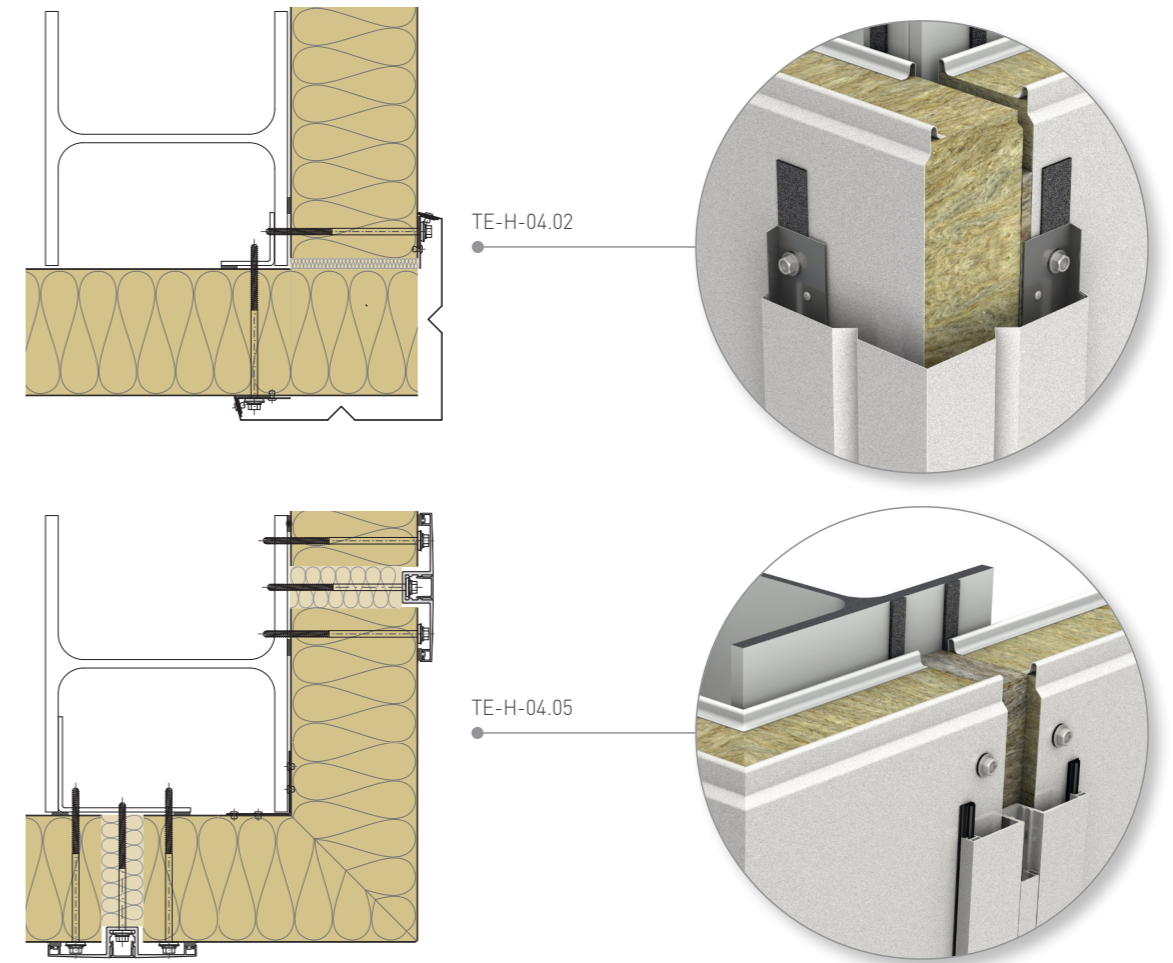
FIRE RESISTANCE JOINT OPTION:
HORIZONTAL AND VERTICAL CUT

JOINT TE-H-01.02
JOINT TE-H-01.04



FIRE RESISTANCE CORNER OPTION:
HORIZONTAL CUT

EXTERNAL CORNER TE-H-04.02
EXTERNAL CORNER TE-H-04.05



INDICATIVE •



BENEFITS

INSULATED FIRE-RESISTANT FAÇADE SYSTEM

TRIMOTERM FTV

PRODUCT



PREFABRICATION

Completely optimized, prefabricated Trimoterm FTV facade system ensures time-saving with quick and easy installation. Long single-span fixed panels up to 10 m reduce the amount of structure.



FIRE-RESISTANCE

Non-combustible mineral wool core ensures ultimate fire safety up to 240 minutes and reaction to fire classification A2-s1, d0.



BURGLARY RESISTANCE

The Class RC3 of Burglary resistance certificate ensures safety for people and valued goods in the building renovated with the Trimoterm FTV façade system.



ECOLOGY

Up to 99% recycled Trimoterm FTV product is made from up to 56% recycled materials and is eco-friendly and highly sustainable.



INSULATED
FIRE-RESISTANT
FAÇADE SYSTEM
TRIMOTERM FTV HL
PRODUCT

TECHNICAL FEATURES
INSULATED FIRE-RESISTANT
FAÇADE SYSTEM
TRIMOTERM FTV HL
PRODUCT

Product	TRIMOTERM FTV HL	
Colour range	Bright	
Unit dimension	T (mm)	60-250
	M (mm)	600-1100
	L (mm)	up to 14000
External steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M3, M8
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M2
Features	Mineral Wool core (EN 14509)	Power T, Power S, Perform C, Perform R
	Weight (kg/m ²)	up to 40.4
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	up to EI 240
	Thermal transmittance U (W/m ² K)	as low as 0.15
	Airborne sound insulation R _w (C:C _{tr}) (dB)	up to 32 [-1;-2]
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=1.5: C=0.00005
	Burglary resistance class (EN 1627)	RC3
	Certificates	CE, LPCB, FM

VERTICAL
INSULATED FIRE-RESISTANT
FAÇADE SYSTEM
TRIMOTERM FTV HL
PRODUCT

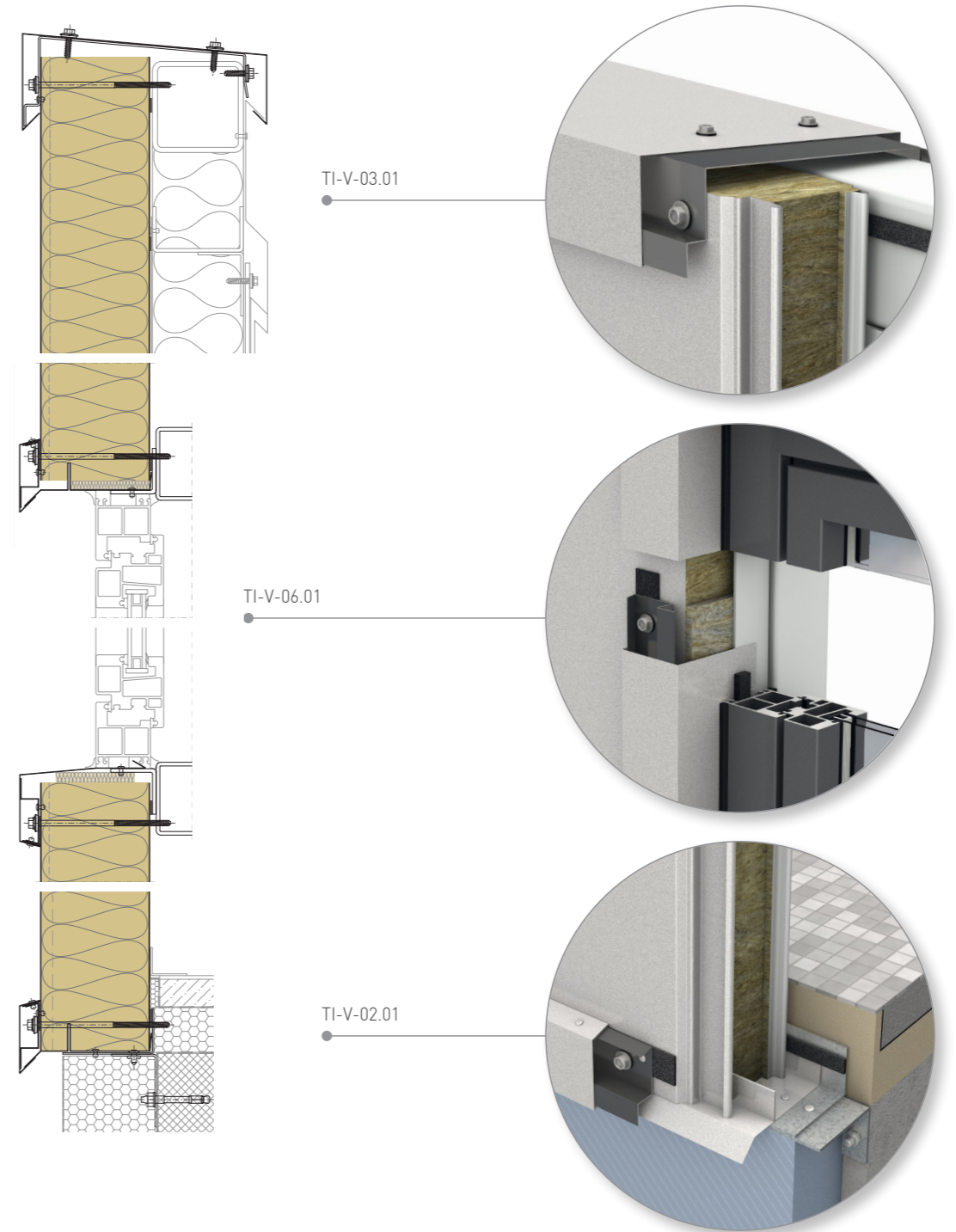
LONGITUDINAL JOINT



FIRE RESISTANCE FAÇADE OPTION
VERTICAL CUT

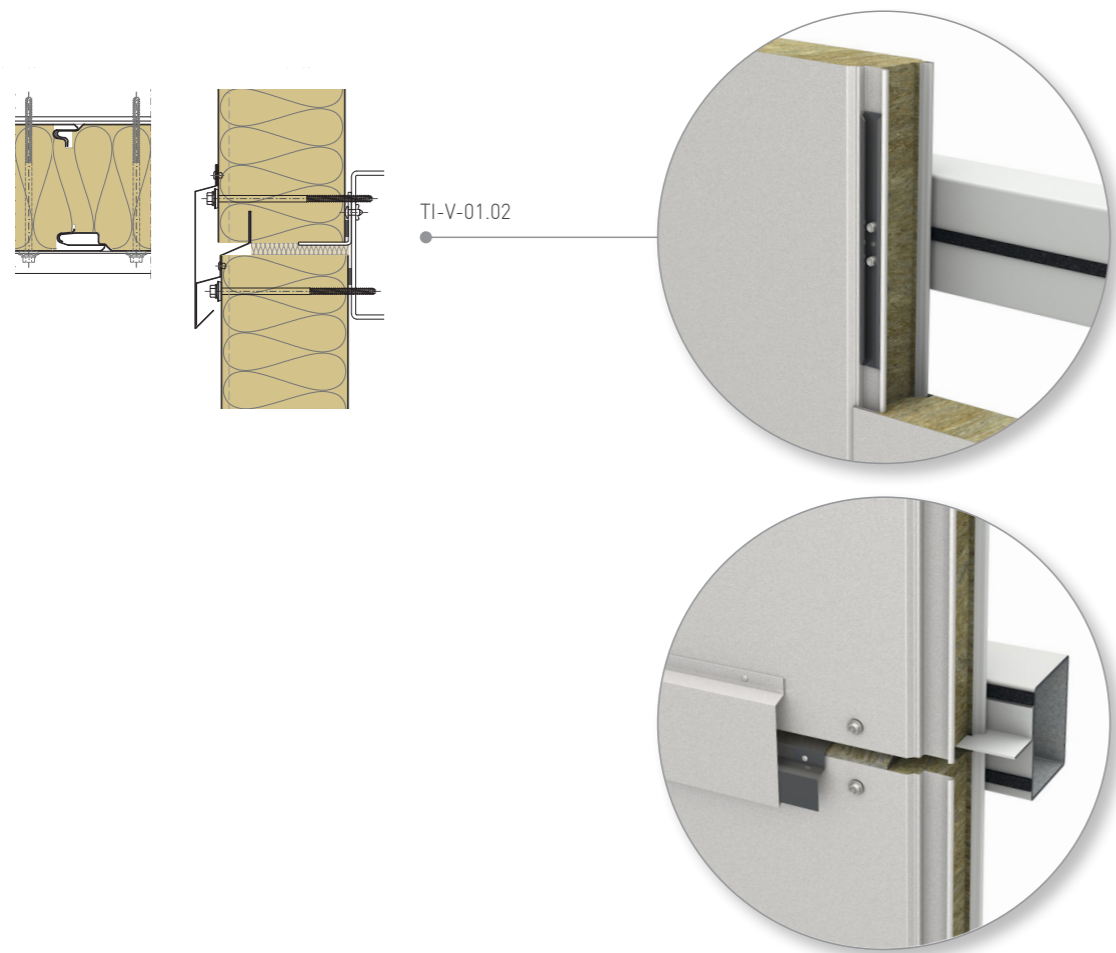
PARAPET	TI-V-03.01
WINDOW	TI-V-06.01
BASE	TI-V-02.01

INDICATIVE •



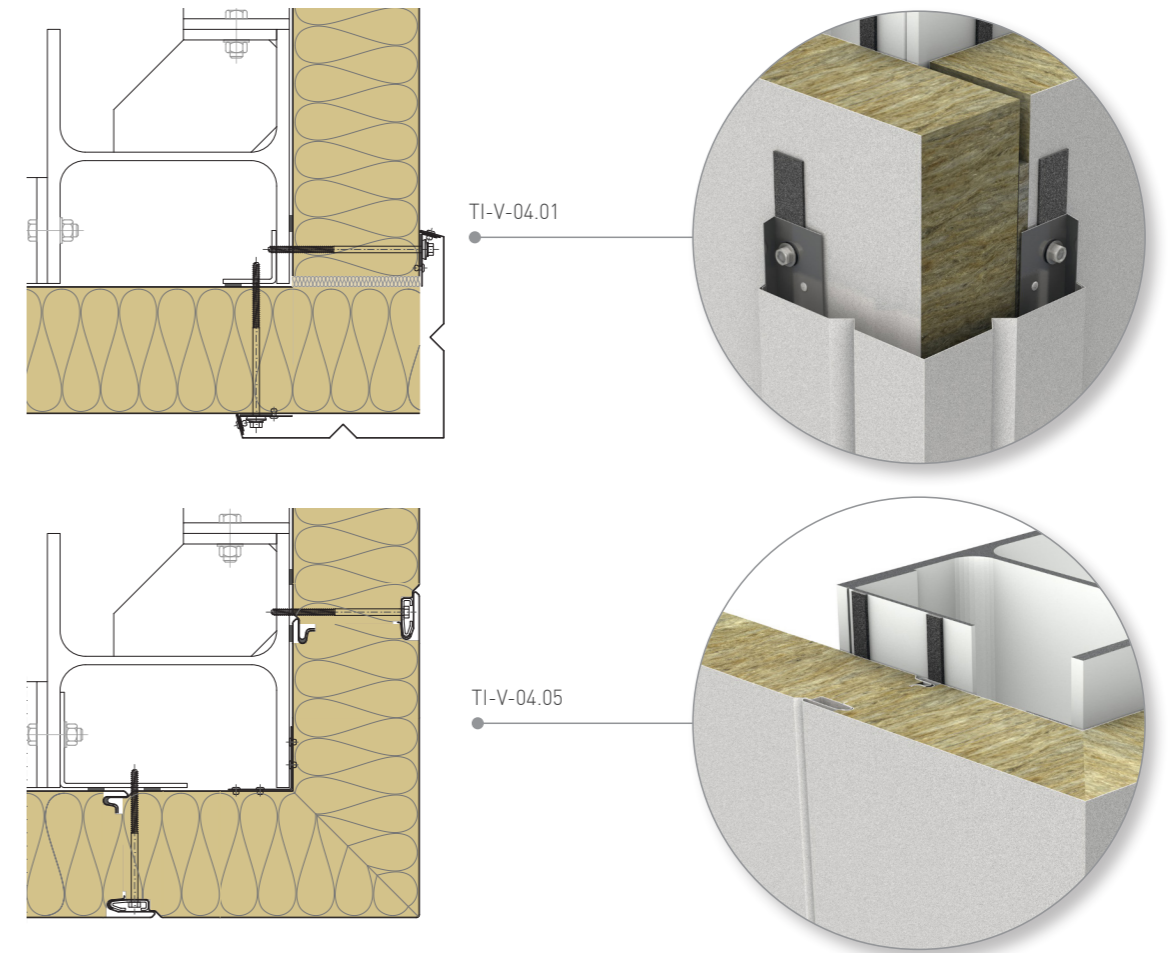
FIRE RESISTANCE JOINT OPTION:
HORIZONTAL AND VERTICAL CUT

JOINT TI-V-01.02



FIRE RESISTANCE CORNER OPTION:
HORIZONTAL CUT

EXTERNAL CORNER TI-V-04.01
EXTERNAL CORNER TI-V-04.05



INDICATIVE •



BENEFITS
 INSULATED FIRE-RESISTANT
 FAÇADE SYSTEM
TRIMOTERM FTV HL
 PRODUCT



TAILOR-MADE SOLUTION

Design experts with over 50+ years of experience provide cost-effective unique architectural details. Diverse profile types and a wide range of colors enable dynamic architectural expression.



MULTI-SPANING

Self-supporting Trimoterm FTV HL product with hidden multi-span fixation can reach up to 14m length and reduce quantity of joint details and enables flush architectural appearance.



THERMAL COMFORT

Trimoterm FTV HL renovation facade system ensures a stable indoor climate meeting the highest standards and reach U value of as low as 0.15 W/m²K and sound insulation of up to 32 dB.



WATER & AIR TIGHTNESS

Extreme class A water tightness ensures complete safety and low air change according to the passive house standards reduces operational cost.

FIRE-RESISTANT INTERNAL WALL SYSTEM **TRIMOTERM FTV** PRODUCT



TECHNICAL FEATURES FIRE-RESISTANT INTERNAL WALL SYSTEM **TRIMOTERM FTV** PRODUCT

Product	TRIMOTERM FTV	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	60-250
	M (mm)	600-1200
	L (mm)	up to 14000
External steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M2, M3, M8
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M2, M3, M8
Features	Mineral Wool core (EN 14509)	Power T, Power S, Perform C, Perform R
	Weight (kg/m ²)	up to 40.2
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	up to EI 240
	Thermal transmittance U (W/m ² K)	as low as 0.15
	Airborne sound insulation R _w (C:C _{tr}) (dB)	up to 32 [-1;-2]
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=1.5: C=0.00005
	Burglary resistance class (EN 1627)	RC3
	Certificates	CE, LPCB, FM

VERTICAL FIRE-RESISTANT INTERNAL WALL SYSTEM **TRIMOTERM FTV** PRODUCT

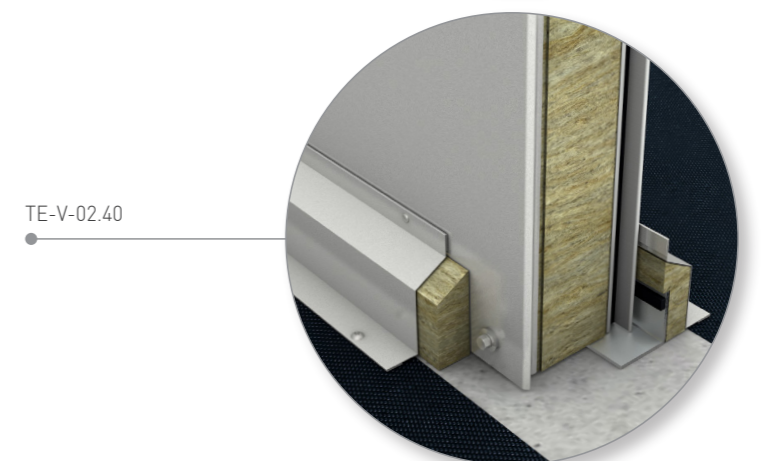
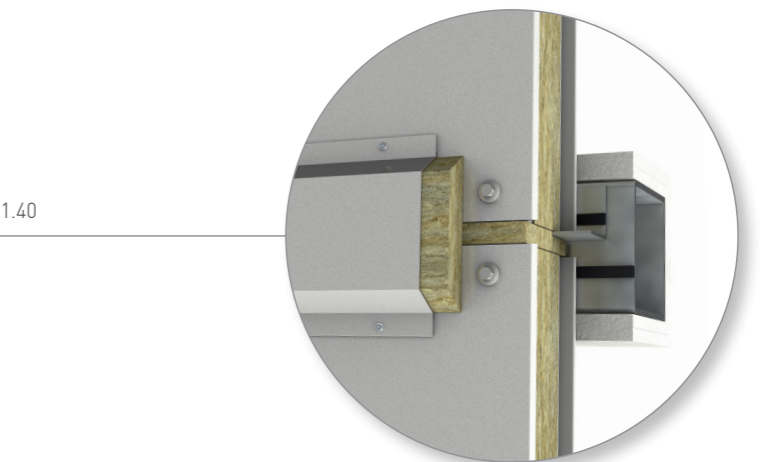
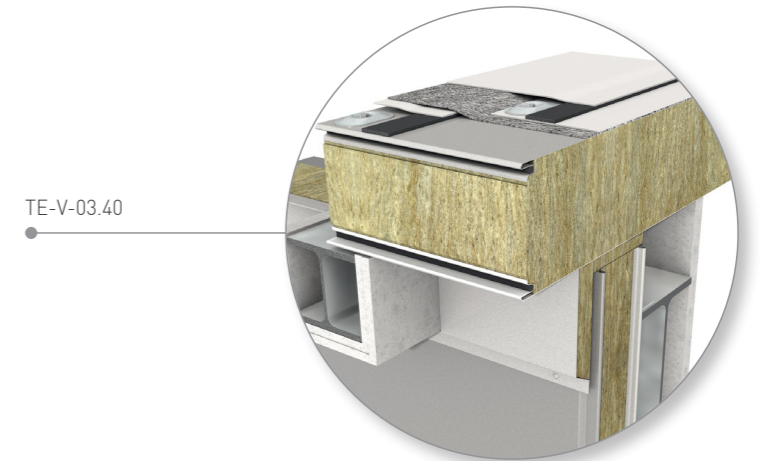
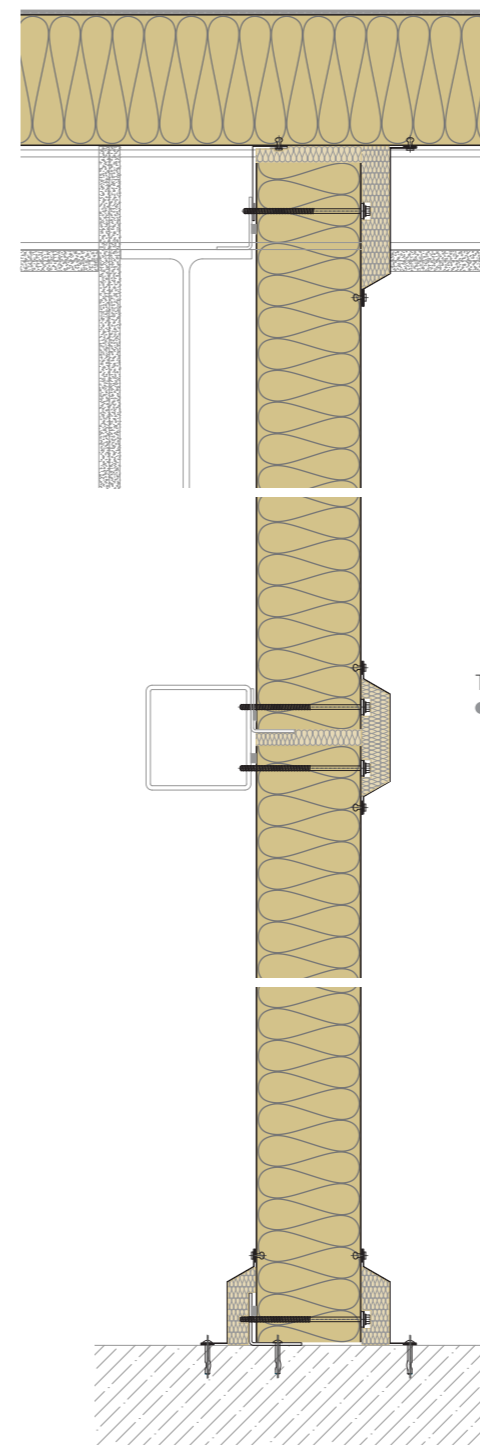
INDICATIVE •

LONGITUDINAL JOINT



FIRE RESISTANT INTERNAL WALL OPTION VERTICAL CUT

PARAPET	TE-V-03.40
JOINT	TE-V-01.40
BASE	TE-V-02.40





BENEFITS FIRE-RESISTANT INTERNAL WALL SYSTEM **TRIMOTERM FTV** PRODUCT



FIRE-RESISTANCE

Fire-resistant Trimoterm FTV product enables fire safety up to 240 minutes and reaction to fire classification A2-s1, d0.



AIR TIGHTNESS

Fire-resistant Trimoterm FTV internal wall system ensures extreme airtightness and provides low air exchange to prevent a quick fire spreading.



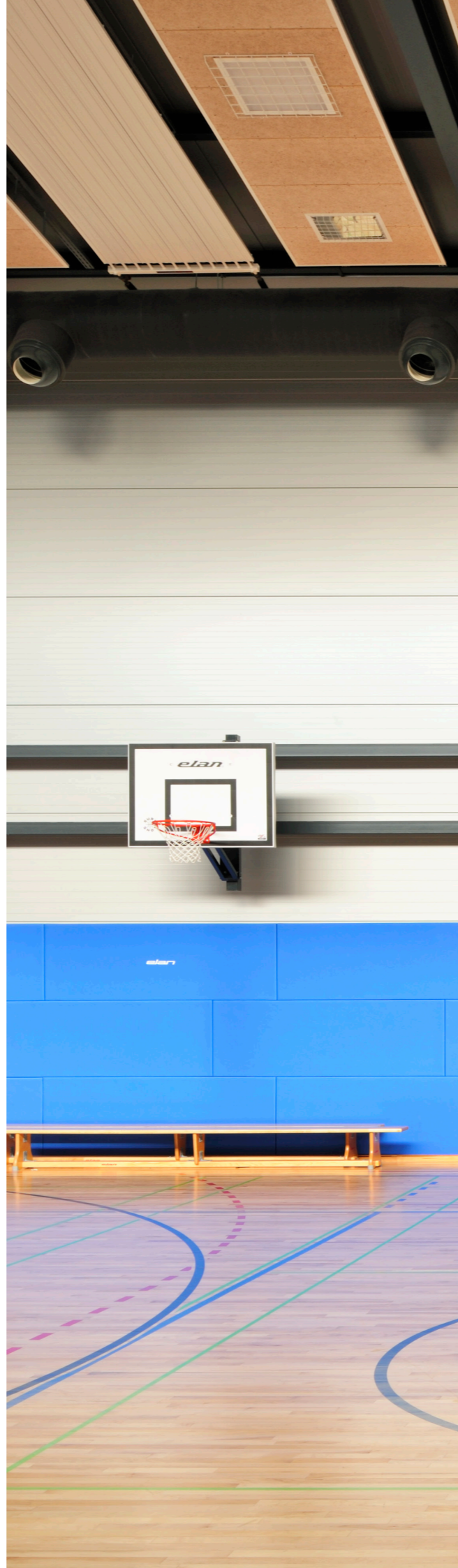
FLEXIBLE INSTALLATION

Fire-resistance Trimoterm FTV internal wall system is flexible for installation in a horizontal and vertical direction including fire-resistant tailor-made designed details.



LONG SPAN

Trimoterm FTV product for fire-resistant internal wall system can reach in horizontally direction up to 10 m long span in a fire-resistant class EI60 with a thickness from 120 mm.



INTERNAL WALL
SYSTEM
TRIMOTERM FTV
PRODUCT

TECHNICAL FEATURES
INTERNAL WALL SYSTEM
TRIMOTERM FTV
PRODUCT

Product	TRIMOTERM FTV	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	60-250
	M (mm)	600-1200
	L (mm)	up to 14000
External steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M2, M3, M8
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M2, M3, M8, SOUND
Features	Mineral Wool core (EN 14509)	Power T, Power S, Perform C, Perform R
	Weight (kg/m ²)	up to 40.2
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	up to EI 240
	Thermal transmittance U (W/m ² K)	as low as 0.15
	Airborne sound insulation R _w (C:C _{tr}) (dB)	up to 32 [-1;-2]
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=1.5: C=0.00005
	Burglary resistance class (EN 1627)	RC3
	Certificates	CE, LPCB, FM

HORIZONTAL INTERNAL WALL SYSTEM **TRIMOTERM FTV** PRODUCT

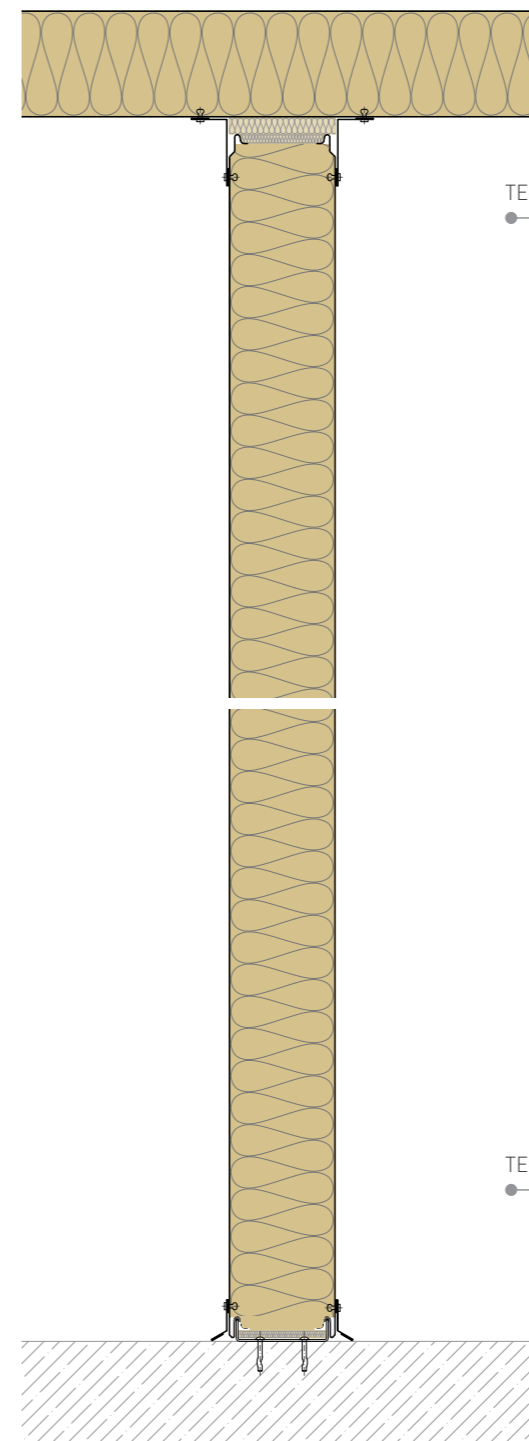
INDICATIVE •

LONGITUDINAL JOINT



FIRE RESISTANT INTERNAL WALL OPTION VERTICAL CUT

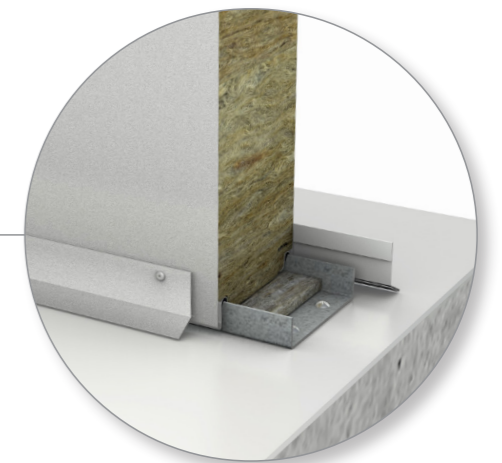
PARAPET TE-H-03.30
BASE TE-H-02.30



TE-H-03.30



TE-H-02.30





BENEFITS INTERNAL WALL SYSTEM **TRIMOTERM FTV** PRODUCT



DESIGN FLEXIBILITY

Trimoterm FTV product for internal walls offers various profile types and a wide range of colour finishes for perfect architectural expression.



NOISE PROTECTION

A sound function possibility of Trimoterm FTV product offers an exceptional protection against noise up to 34 dB and excellent sound-absorbing characteristics up to 8 dB and contributing to the well-being.



FLEXIBLE INSTALLATION

Trimoterm FTV internal wall system is flexible for installation in a horizontal and vertical direction and no main structure is needed in case of floor to ceiling vertical installation.



SIMPLICITY

Simply designed and cost-effective details for Trimoterm FTV internal wall systems are fully compatible with Trimo and other wall and ceiling systems.

FOOD AND HYGIENE
INTERNAL WALL SYSTEM
TRIMOTERM FTV
PRODUCT



TECHNICAL FEATURES
FOOD AND HYGIENE INTERNAL WALL SYSTEM
TRIMOTERM FTV
PRODUCT

Product	TRIMOTERM FTV	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	60-250
	M (mm)	600-1200
	L (mm)	up to 14000
External steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M, M2, M3, M8, SOUND
Features	Mineral Wool core (EN 14509)	Power T, Power S, Perform C, Perform R
	Weight (kg/m ²)	up to 40.2
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	up to EI 240
	Thermal transmittance U (W/m ² K)	as low as 0.15
	Airborne sound insulation R _w (C:C _{tr}) (dB)	up to 32 [-1;-2]
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=1.5: C=0.00005
	Burglary resistance class (EN 1627)	RC3
	Certificates	CE, LPCB, FM

VERTICAL FOOD AND HYGIENE INTERNAL WALL SYSTEM **TRIMOTERM FTV** PRODUCT

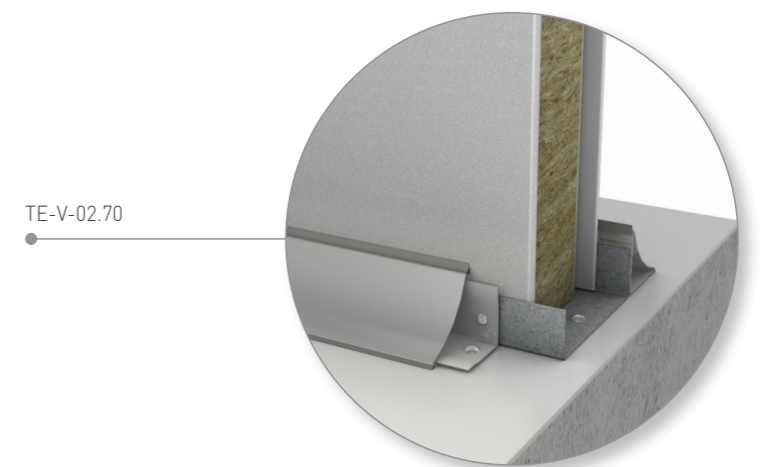
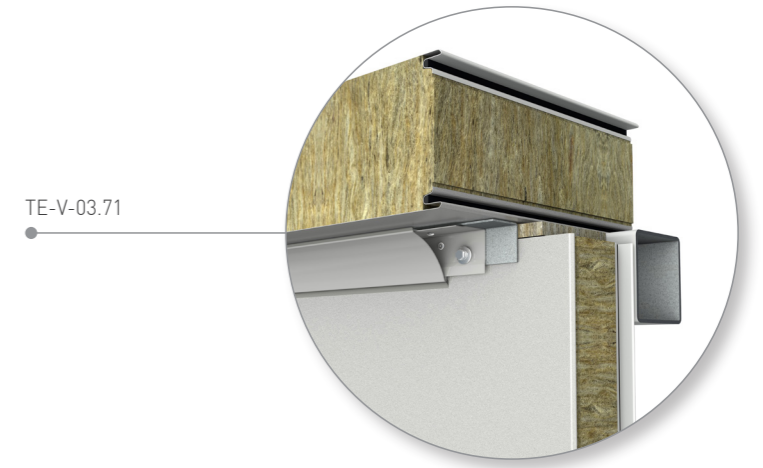
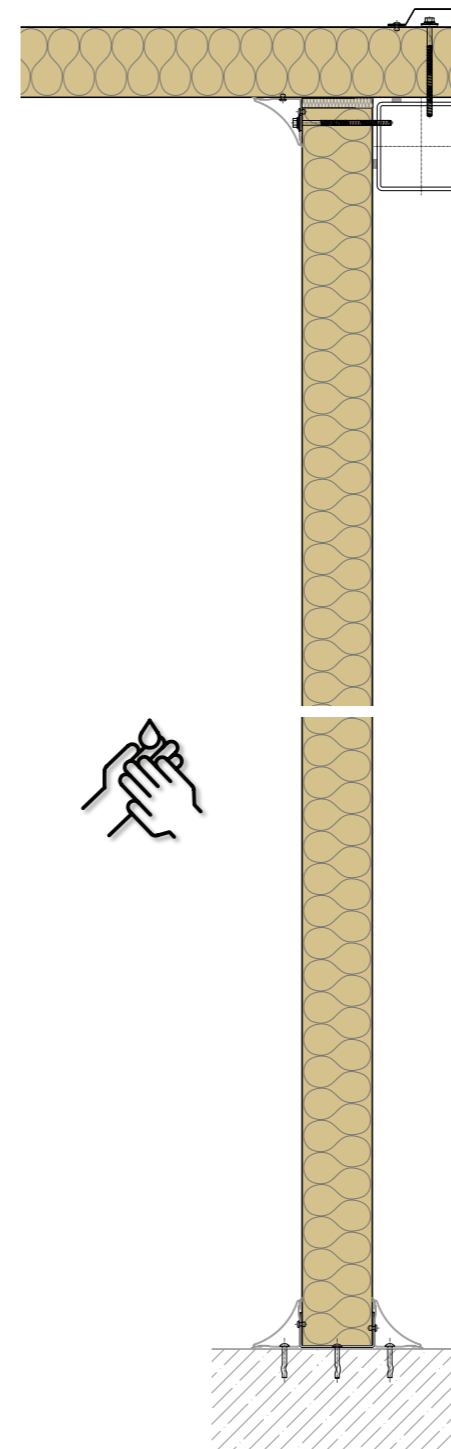
INDICATIVE •

LONGITUDINAL JOINT



INTERNAL FOOD & HYGIENE WALL OPTION VERTICAL CUT

PARAPET TE-V-03.71
BASE TE-V-02.70





BENEFITS

FOOD AND HYGIENE

INTERNAL WALL SYSTEM

TRIMOTERM FTV

PRODUCT



STABLE CLIMATE

Food and hygiene Trimoterm FTV internal wall system guarantees a stable indoor climate, meeting the highest standards in airtightness and water permeability and reach U value of as low as 0.15 W/m²K.



MOISTURE RESISTANT

Food and hygiene Trimoterm FTV internal wall system ensures complete safety of goods and prevents moisture on the internal surface.



EASY CLEANING

Food and hygiene Trimoterm FTV internal wall system guarantees a smooth flat surface and meets hygiene requirements for easy cleaning including tailor-made designed details for food and hygiene rooms.



COMPLETE ROOM SOLUTION

Food and hygiene Trimoterm FTV internal wall system is fully compatible with Trimoterm FTV ceiling system including details solutions and offers a complete solution for food and hygiene rooms.

INSULATED
FLAT ROOF SYSTEM
TRIMOTERM FTV
PRODUCT



TECHNICAL FEATURES
INSULATED FLAT ROOF SYSTEM
TRIMOTERM FTV
PRODUCT

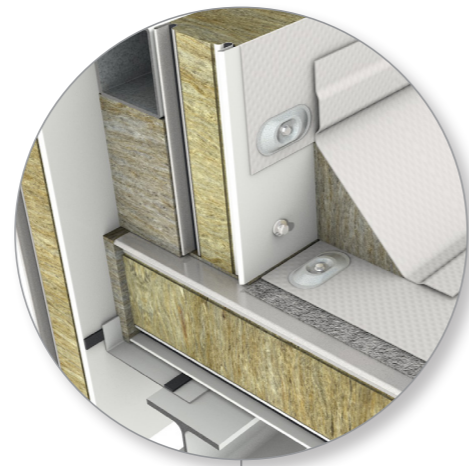
Product	TRIMOTERM FTV	
Colour range	Bright	
Unit dimension	T (mm)	150-250
	M (mm)	1200
	L (mm)	up to 14000
External steel sheet	Thickness t (mm)	0.7
	Profile	S, M
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	S, M2
Features	Mineral Wool core (EN 14509)	Power S
	Weight (kg/m ²)	28.1-40.2
	Reaction to fire	A2-s1, d0
	External fire performance (EN 13501-5)	Broof (t1, t2, t3)
	Thermal transmittance U (W/m ² K)	as low as 0.17
	Airborne sound insulation R _w (C:C _{tr}) (dB)	up to 32 [-1;-2]
	Water permeability (EN 14509)	class A (1200Pa)
	Air permeability (EN 14509)	n=1.5: C=0.00005
	Burglary resistance class (EN 1627)	RC3 *tested as wall
	Certificates	CE

INSULATED FLAT ROOF SYSTEM **TRIMOTERM FTV** PRODUCT

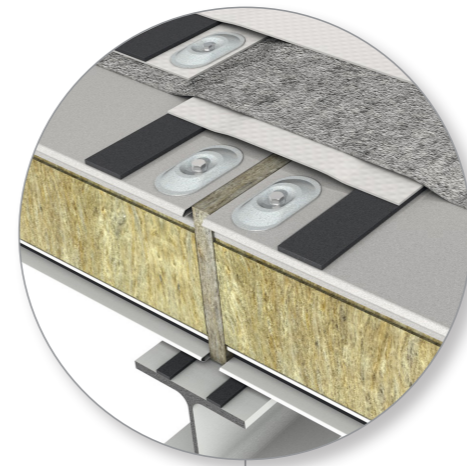
INDICATIVE •

FLAT ROOF OPTION VERTICAL CUT

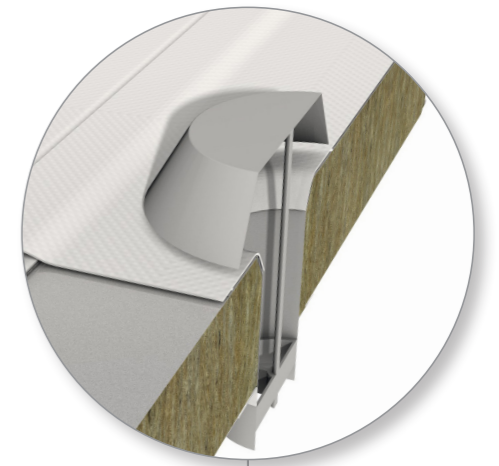
VALLEY	TE-F-06.01
JOINT	TE-F-01.01
PARAPET	TE-F-03.01



TE-F-03.01

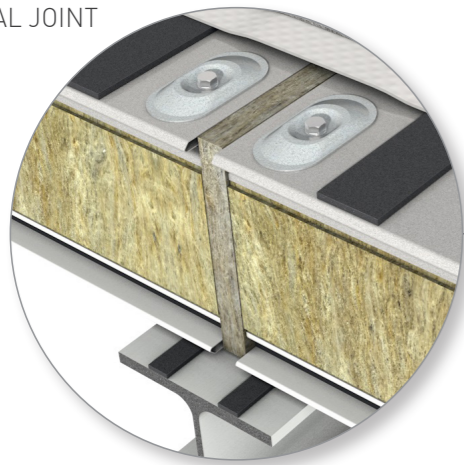


TE-F-01.01

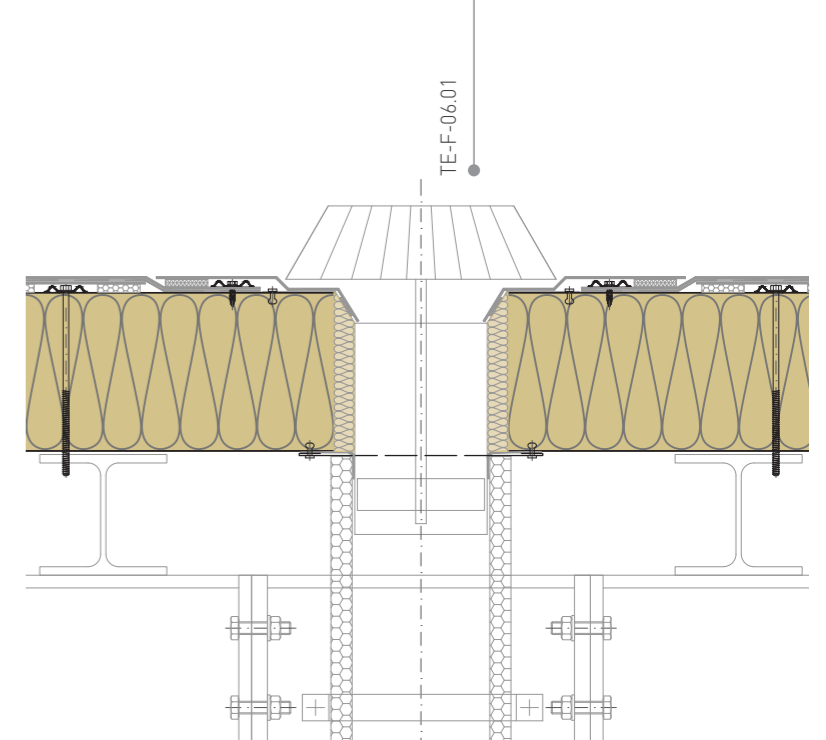
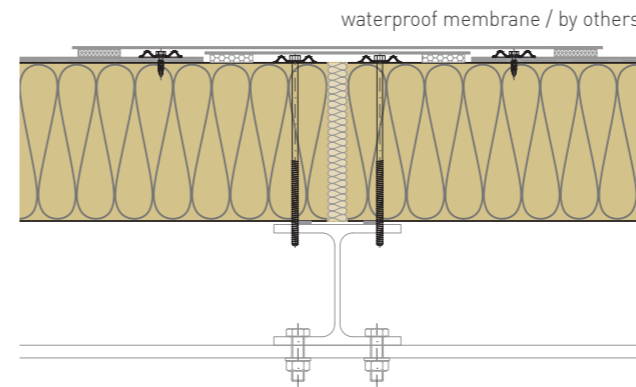
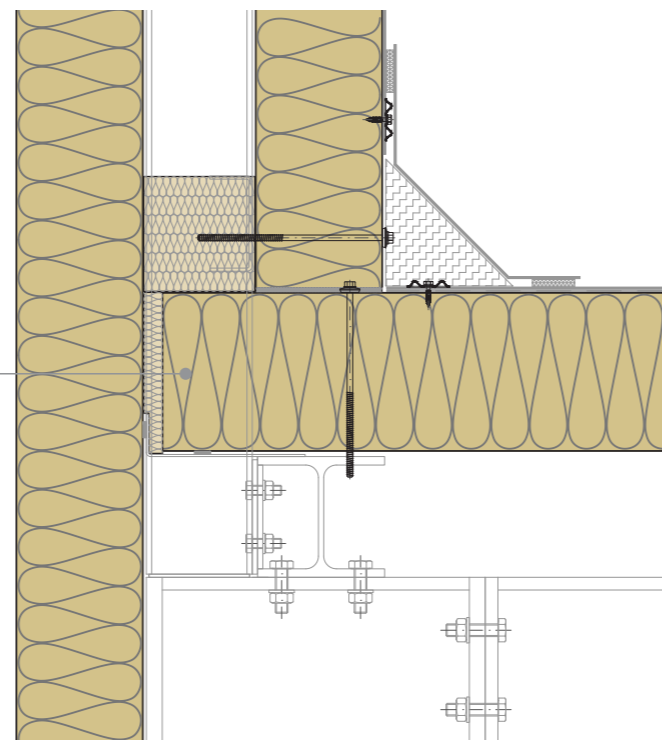


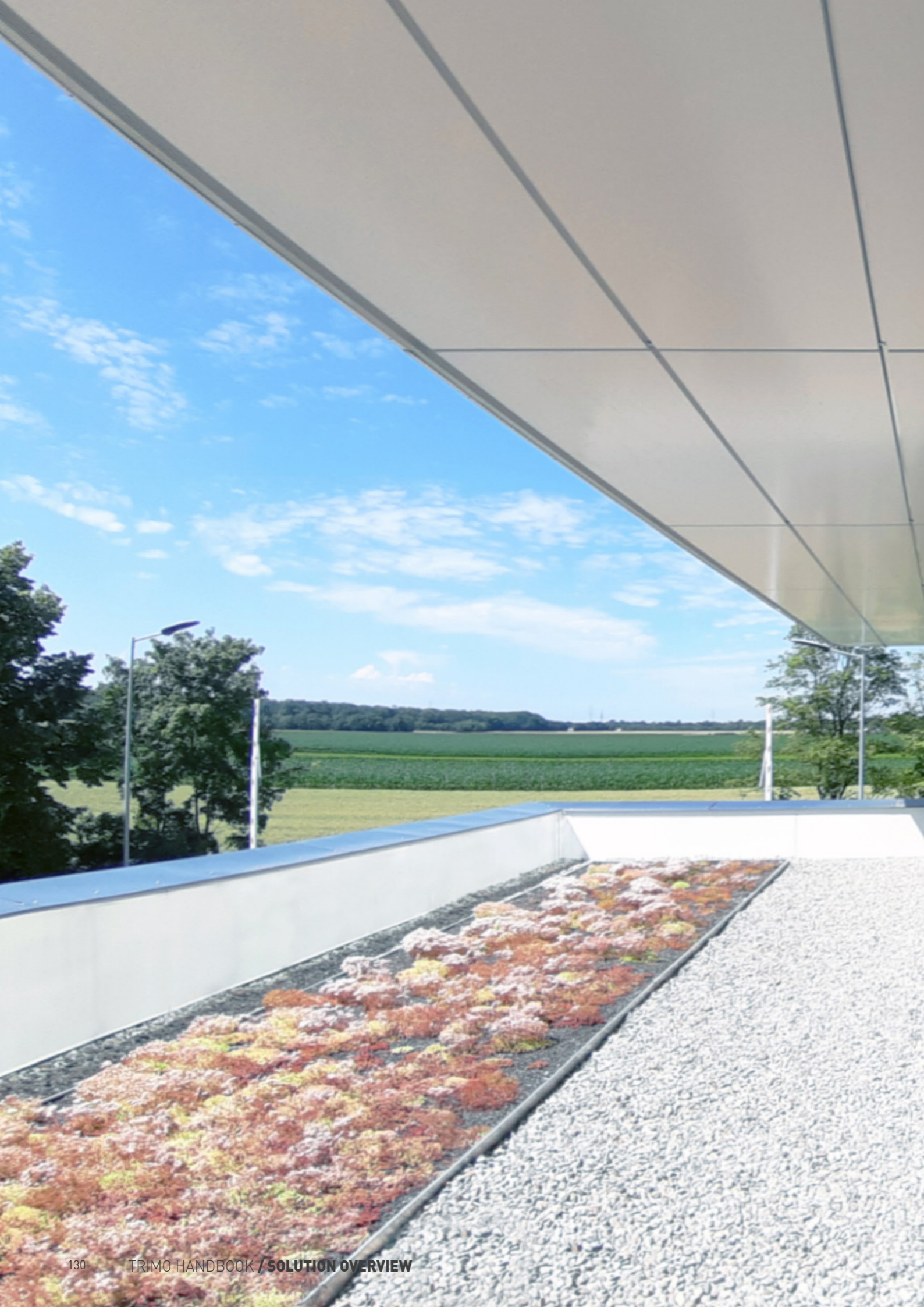
TE-F-06.01

TRANSVERSAL JOINT



TRIMOTERM FTV





BENEFITS INSULATED FLAT ROOF SYSTEM **TRIMOTERM FTV** PRODUCT



FLEXIBILITY & COMPATIBILITY

Trimoterm FTV flat roof system offers complete flexibility for various final finishes and is suitable for occasional foot traffic for access or maintenance without additional protection. Additionally, it is fully compatible with other Trimo products for complete envelope solution.



AIRTIGHTNESS AND HYGIENE

Trimoterm FTV flat roof system guarantees thermal comfort with extreme airtightness and a smooth flat internal surface meets hygiene requirements for easy cleaning.



PREFABRICATION & LOAD-BEARING

Certified Trimoterm FTV product for flat roofs is prefabricated and produced in controlled environment and ensures loadbearing capacity even for green roof applications.



SUSTAINIBILITY

Trimoterm FTV flat roof system contributes to higher rating of building according to sustainability assessment methods such as BREEAM, LEED, DGNB.

Hint!

We know how to develop and optimize product formula for your unique architecture for your location. Contact us by e-mail or phone.



INSULATED
FIRE-RESISTANT
PITCHED ROOF SYSTEM
TRIMOTERM SNV
PRODUCT



TECHNICAL FEATURES
INSULATED FIRE-RESISTANT
PITCHED ROOF SYSTEM
TRIMOTERM SNV
PRODUCT

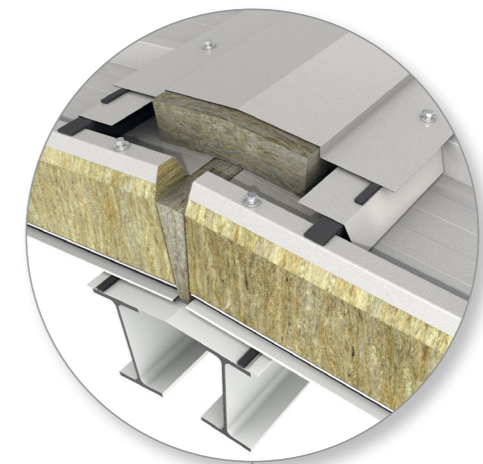
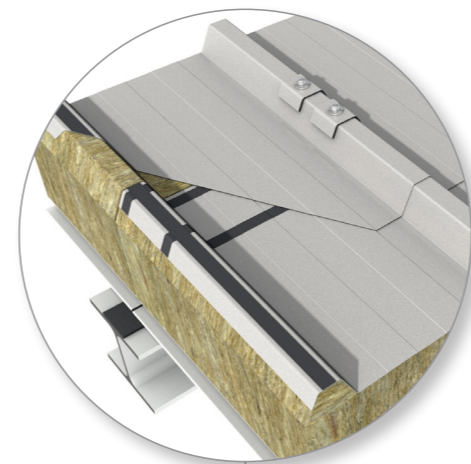
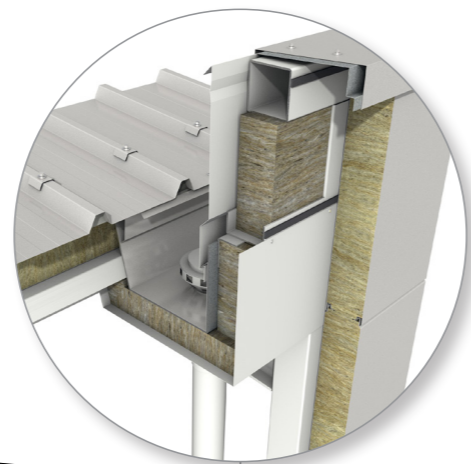
Product	TRIMOTERM SNV	
Colour range	Bright, medium, dark	
Unit dimension	T (mm)	60-220
	M (mm)	1000
	L (mm)	up to 14000
External steel sheet	Thickness t (mm)	0.5-0.7
	Profile	Trapezoid profile
Internal steel sheet	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, M2
Features	Mineral Wool core (EN 14509)	Power T, Perform C, Perform R
	Weight (kg/m ²)	up to 34.3
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	up to REI 180
	Thermal transmittance U (W/m ² K)	as low as 0.17
	Airborne sound insulation R _w (C:C _{tr}) (dB)	up to 33 (-1; -4)
	Water permeability (EN 14509)	class B (900Pa)
	Air permeability (EN 14509)	n=1.0: C=0.00019
	Burglary resistance class (EN 1627)	RC3 * tested as wall
	Certificates	CE, LPCB, FM

INSULATED FIRE-RESISTANT PITCHED ROOF SYSTEM **TRIMOTERM SNV** PRODUCT

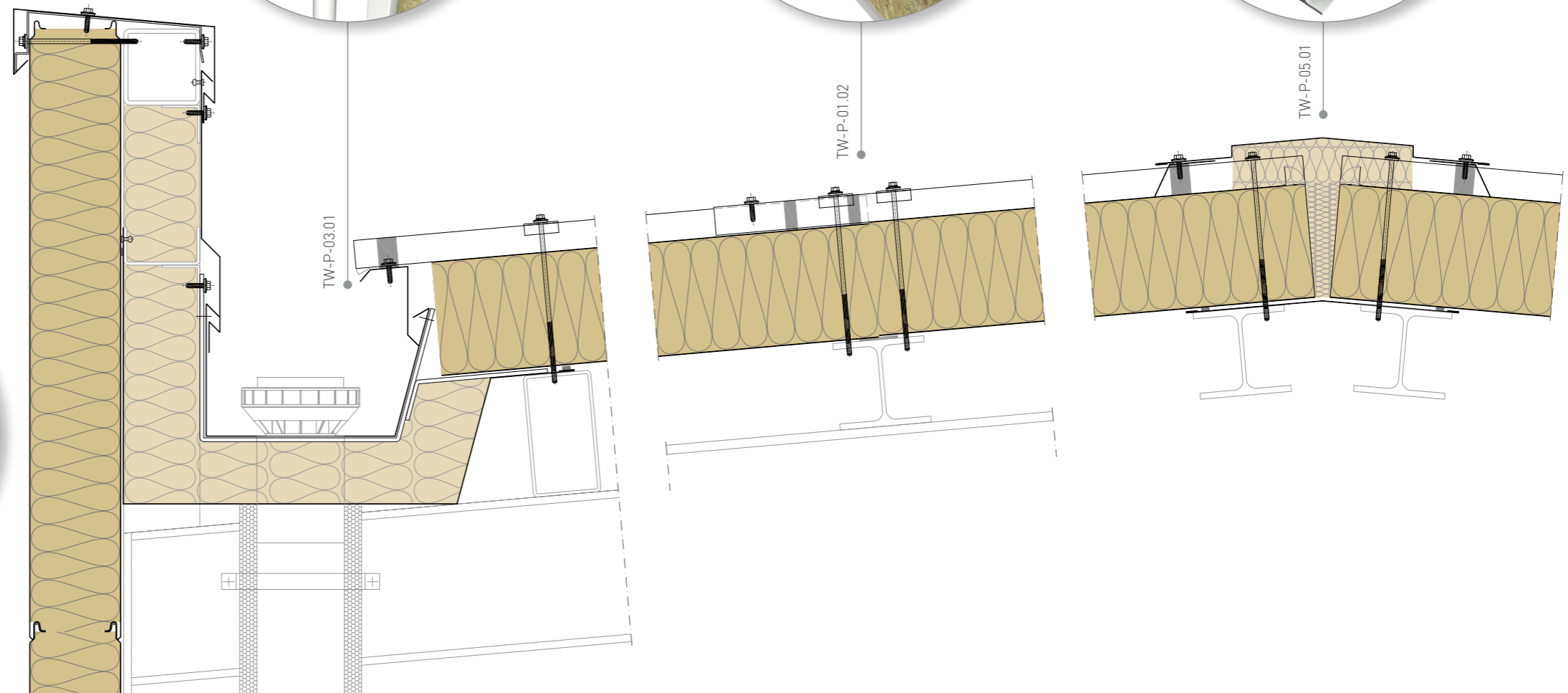
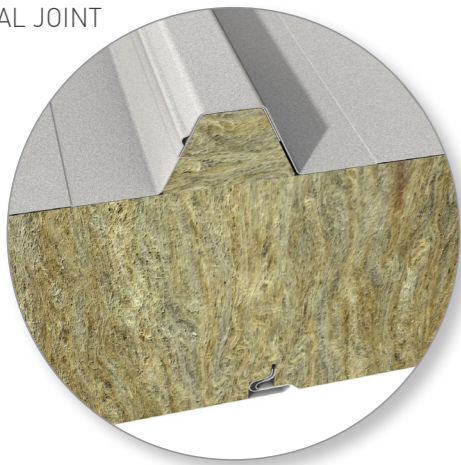
INDICATIVE •

FIRE-RESISTANT ROOF OPTION VERTICAL CUT

RIDGE	TW-P-05.01
JOINT	TW-P-01.02
PARAPET	TW-P-03.01



LONGITUDINAL JOINT



BENEFITS

INSULATED FIRE-RESISTANT PITCHED ROOF SYSTEM

TRIMOTERM SNV

PRODUCT



MINIMUM SLOPE

Pitched roof Trimoterm SNV enables a minimum slope of 5° with additional sealing and saves money due to the reduced height of the required parapet.



COMPATIBILITY

Time and money-saving with one supplier of a complete envelope solution for a building with a Trimoterm SNV pitched roof compatible with the Trimoterm facade system.



SPAN

Completely prefabricated Trimoterm SNV product provides long spans due to a trapezoidal shape on the external steel sheet and enables quick installation.



FIRE-RESISTANCE

Trimoterm SNV product ensures complete safety with fire resistance up to REI180.

TOOLS

The tool is made to serve people during project realization. As a pioneers in our industry, we have developed a user-friendly BIM tool for planning building envelopes that enable faster project planning by up to 20% compared to classic CAD designing.

BIM

The dedicated Trimo BIM libraries include the developed Trimoterm products in line with product formula and associated details. BIM libraries for envelope systems are available for GRAPHISOFT Archicad and Autodesk Revit software.

Trimo BIM software tool ensures insight of product features data. Designing in a 3D environment reduces collisions, raises productivity and enables cost control with a list of quantities, which is a base for a quotation.

GREEN CITY

The green city is represented by architectures built with Trimo's products that are up to 99% recyclable. In the animation, you notice architectures that are already built according to the product formula.

Discover your future renovated building in a vision of urban design, where we have placed our case study buildings made only with Trimo's products.



DOWNLOADS

We constantly strive to keep up with the times and make sure you have the latest information and tools.

BROCHURES

- Facade systems
- Roof systems
- General



TECHNICAL DOCUMENTS

- Facade systems
- Roof systems
- Structural performance



DESIGN TOOLS

- CAD details
- BIM product libraries



HANDBOOKS

- Handbook Warehouse
- Handbook Data Centre



Hint!
In case of a different building segment, scan QR code and check out all available handbooks.

MILAN WEEK EXHIBITION, ITALY

The installation I Will Buy Flowers My Self by designer Nika Zupanc on Milan week exhibition



THE VALUE PROPOSITION

As you design unique architecture, we create the highest performing products to our customized formula whilst tailoring details specifically to your needs.

TRIMO DRESS CODE IS UNIQUE ARCHITECTURE

Hint!

More about the project on the link: www.nikazupanc.com/the-doll-house



HEADQUARTERS

TRIMO D.O.O.

PRIJATELJEVA CESTA 12,

8210 TREBNJE, SLOVENIA

T: +386 (0)7 34 60 200

F: +386 (0)7 34 60 127

TRIMO@TRIMO-GROUP.COM

WWW.TRIMO-GROUP.COM

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