# TRIMO MARCHITECTURAL SOLUTIONS

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# COMPANY PROFILE





60+ MILLION m<sup>2</sup>
OF FAÇADES AND ROOFS PRODUCED

120+
COUNTRIES WORLDWIDE

25,000+
CUSTOMERS & PARTNERS

#### CE MARKED & CERTIFIED

#### WORLDWIDE ENGINEERING, PRODUCTION AND SERVICES KNOW-HOW & EXPERIENCE

Trimo is a high-quality global supplier of innovative, flexible, functional and energy-efficient architectural building envelope solutions. Our customers are at the heart of our operations as we understand their needs and provide them the highest level of service and product quality. Our work reflects the company's core values of partnership, reliability, responsibility, trust, innovation and passion.

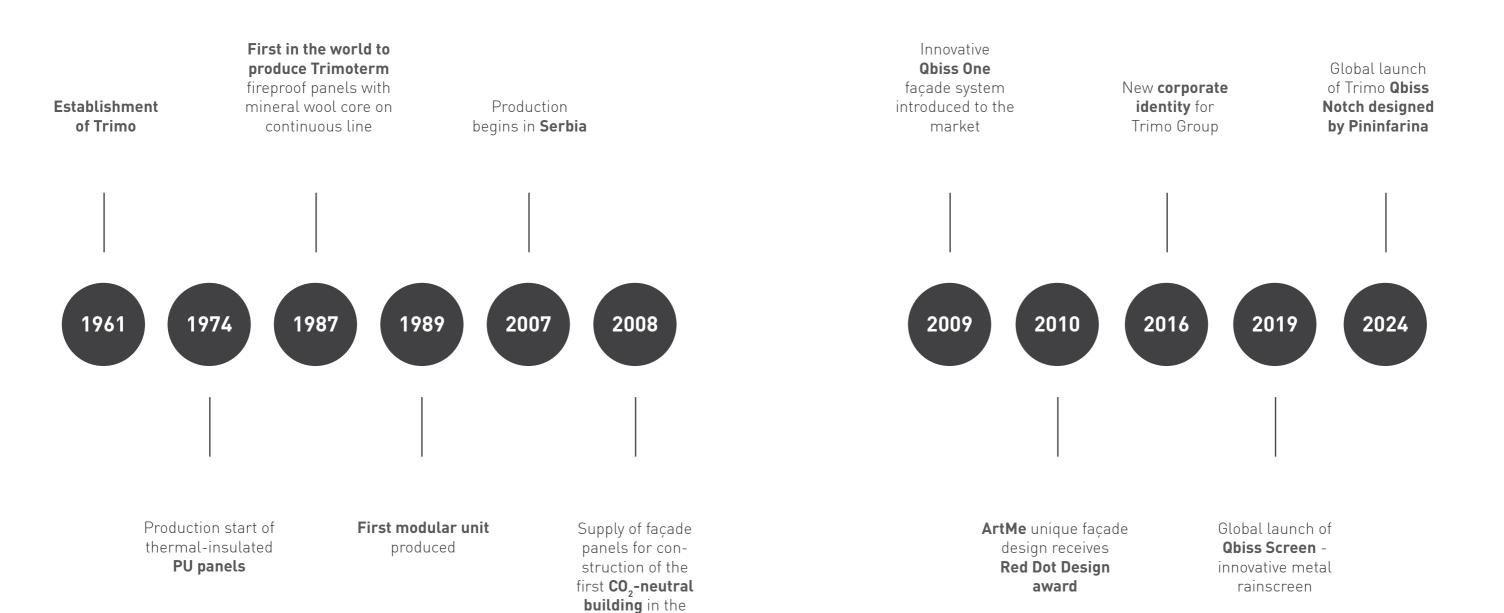
Trimo as part of Recticel Group commits to reach net-zero greenhouse gas emissions across the value chain by 2050 from a 2021 base year (SBTi approved).

#### **RECTICELGROUP**



#### **HISTORY**

#### DEFINING MOMENTS IN THE HISTORY OF THE TRIMO GROUP



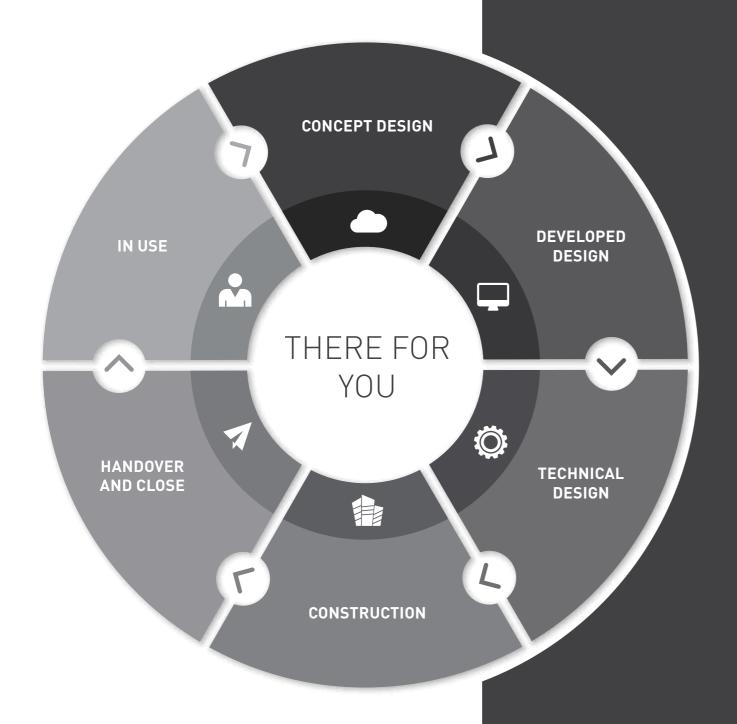
world





### TECHNICAL SUPPORT AND CONSULTING

From an initial idea to the final implementation: Trimo's expert team supports you at every phase of your project, from planning and architectural design to construction and handover.



#### DESIGN

Trimo's design team is comprised of architects, designers, structural engineers, and design and project managers who together make design plans and drawings quickly, efficiently, professionally and with an understanding of the customers' needs and expectations.

Trimo's team of experts monitors the global market by recognising design requirements in accordance with the latest **standards** – European EN norms, German, Russian SNIP, American ASTM, and various others and designs projects according to the individual and regional requirements.

Trimo provides a large range of architectural and engineering principle details for sandwich panel façades, walls and roofs. Its team of dedicated technical support and product development specialists is known for giving professional advice on bespoke details and individual custom-made solutions.

#### BUILDING INFORMATION MODELLING - BIM

Trimo has developed BIM libraries of its products for the most sophisticated engineering BIM software Archicad and Revit in order to support and speed up the building design process.

Trimo BIM libraries are available at https://trimo-group.com/en/trimo/downloads/design-tools/bim/.

#### **TECHNICAL SUPPORT**

Trimo's technical consulting team is a partner you can count on to provide **comprehensive support** throughout the entire duration of your project.

Technical support includes visualisations, rendering, detailing, BIM engineering, virtual and augmented reality, structural calculations and management of changes, information and resources.

The technical consulting team also provides special product solutions designed to perfectly suit your project.

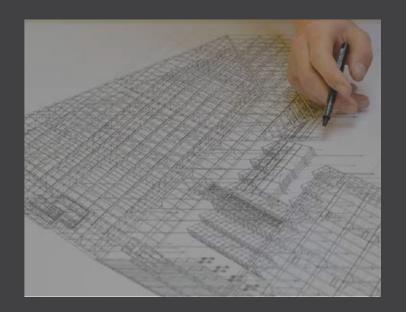
#### TRIMO LIBRARY MOBILE APP

Trimo recognises the importance of providing correct, current, and neatly structured information, whenever and wherever is needed. The new Trimo Library Mobile App meets these needs offering on-the-go access to all of Trimo's technical documentation, brochures, guides, and videos both on- and offline.

Find the application in











# FAÇADE SYSTEMS



#### **QBISS ONE**

Qbiss One is a world-class engineered, prefabricated, A1 mineral wool-insulated, metal façade system that offers a through wall solution within a single piece of construction element. Façade elements with rounded corners, unmatchable flatness and advanced technical characteristics place Qbiss One among the best façade systems in the

#### TOTAL WALL SOLUTION

- Single component pre-engineered and pre-fabricated construction element
- Self-supporting column to column horizontal or floor to floor vertical installation

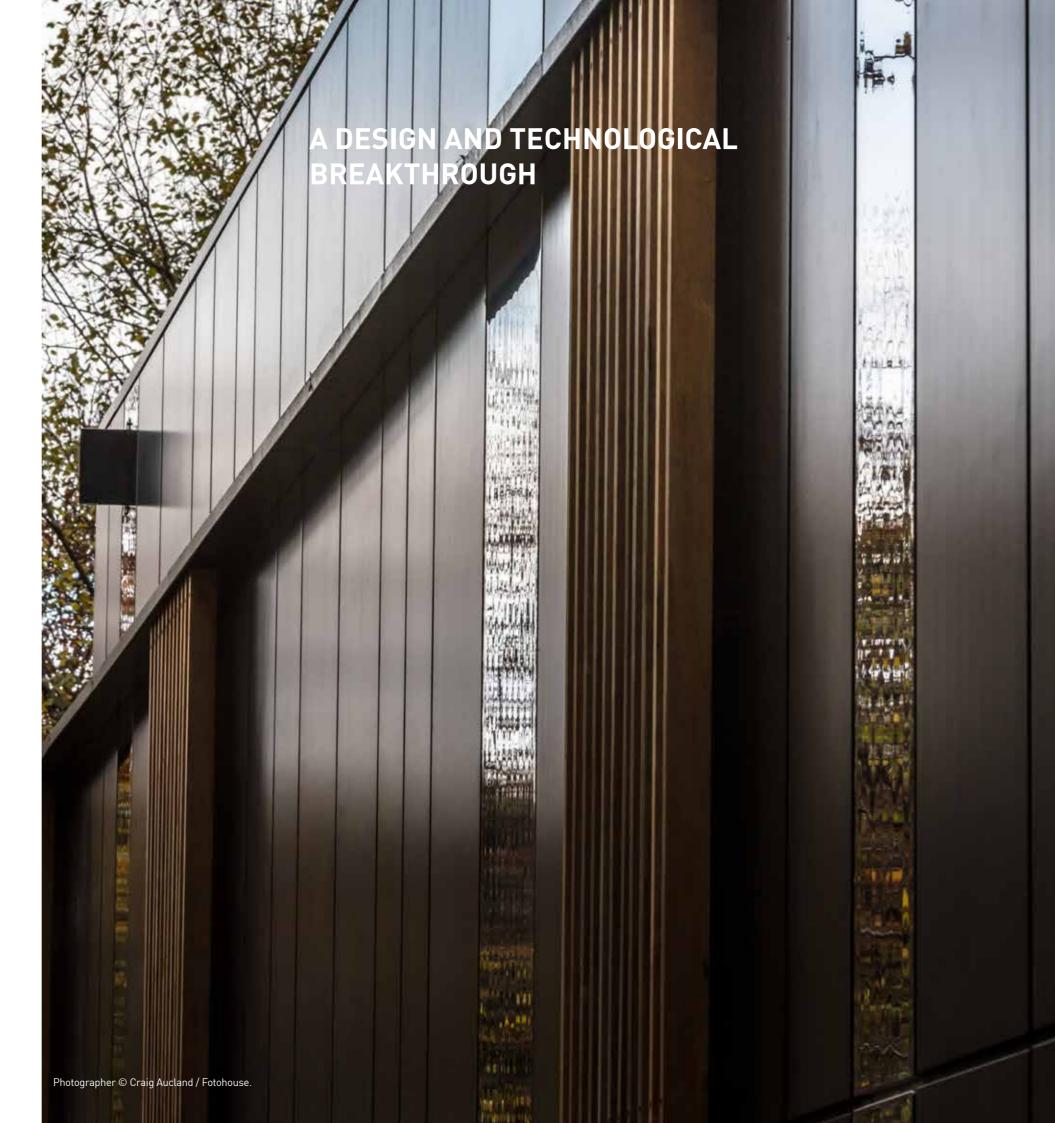
#### LIMITLESS DESIGN POSSIBILITIES

- Extensive range of interfaces and bespoke elements Integrated windows, doors and louvers systems
- Prefabricated corners and rounded corners without cuts,
- folds or welds
- 3D corner elements, curved elements, trapezoidal elements
- Extreme flatness
- Multiple joint possibilities

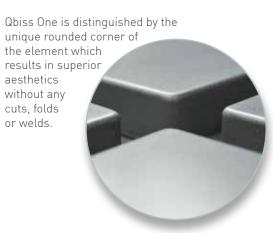
#### MAXIMUM SAFETY

- Class A1 non-combustible mineral wool insulation core
- High-level insulation values as low as 0.15 W/m<sup>2</sup>K
- Fire resistance: up to class El 120 minutes integrity and
- Watertightness up to 1200 Pa
- Flexible coating guaranteed up to 30 years and lifetime expectancy up to 50 years\*

\*terms and conditions apply







#### **JOINT OPTIONS**

Qbiss One system allows various combinations of recessed and flush joints.

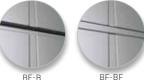
#### JOINT OPTIONS FOR HORIZONTAL INSTALLATION





#### JOINT OPTIONS FOR VERTICAL INSTALLATION





#### **JOINTS**

LONGITUDINAL JOINT F

LONGITUDINAL JOINT B

TRANSVERSAL IOINT

LONGITUDINAL JOINT

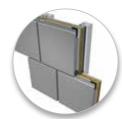
# TYPICAL INSTALLATION DETAILS













**ACCESSORIES / CORNER ELEMENTS** 

TRANSVERSAL CORNER ELEMENT





U-SHAPED CORNER ELEMENT



3D CORNER ELEMENT

#### **COLOUR RANGE**

15

External steel skin is available for different corrosion environments of up to C5 (according to classification in EN12944) and is available in a variety of colours.

#### SOLID COLOURS



Sapphire Blue Traffic Red Anthracite RAL 5003 RAL 3020 RAL 7016













Light Silver





Light Graphite

#### STAINLESS STEEL\*\*

SPECIAL METALLIC





**ELEMENTS**\*



Seren Black Sirius Sparkle Orion Sparkle Zeus Sparkle Anthracite Solet



















Pelle Lucido



The Qbiss One  $\ensuremath{\mathbf{façade}}$   $\ensuremath{\mathbf{element}}$  consists of two galvanised and pre-finished steel sheets bonded to a non-combustible A1 mineral wool core. All the layers together make a solid element with a thickness ranging from 80 – 250 mm. The Qbiss One system consists of:

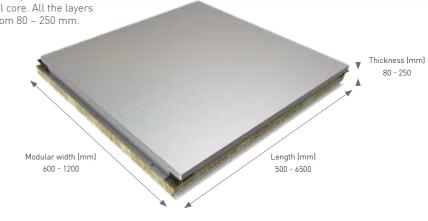
- Modular façade elements
- Fixing and sealing material Architectural performance details
- Corner elements
- Adjustable sub-structure (optional)
- Windows (optional)



CURVED FAÇADE ELEMENT



FLAT FAÇADE ELEMENT



FIRE RESISTANCE CLASS UP TO EI 120 U VALUE AS LOW AS 0.15 W/m²K WATER PERMEABILITY UP TO 1200 Pa

#### **QBISS SCREEN**

An innovative metal **rainscreen** designed for ventilated façade applications and for both **new-build** and **refurbishment use**. It is comprised of a mineral wool or of an aluminium honeycomb core, bonded between two metal skins, with a **rounded corner design**. It is equally applicable as an **exterior and interior wall** and **soffits** bringing a system approach to the building envelope. With an extremely flat design, Qbiss Screen is also engineered to meet the A2-s1, d0 fire classification and withstands high wind loads to larger spans than conventional rainscreen systems.

#### HIGH-QUALITY RAINSCREEN

- Fully prefabricated and self-supporting elementRounded corners without cuts, folds or welds
- Extreme element flatness

#### LIMITLESS DESIGN POSSIBILITIES

- Compatible with Qbiss One façade elements
- Various joint and installation options
- Wide range of colours and material finishes

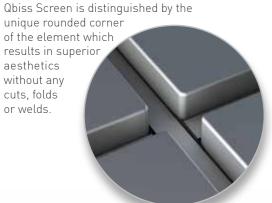
#### MAXIMUM SAFETY

- Class A2 limited combustibility classification
- Quick installation with reduced amount of bearing sub-frame system up to 60%
- Lightweight elements for simple on-site handling and installation



#### **QBISS SCREEN DESIGN**

unique rounded corner of the element which results in superior aesthetics without any cuts, folds or welds.









#### **QBISS SCREEN TYPES**

**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 unmatchable flatness are prefabricated in controlled environment and delivered to construction site, cut to size.

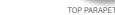
Qbiss Screen H, a 50 mm thick element is a composite made of two pre-painted galvanized steel sheets with joints and honeycomb core. The composition of materials gives elements visibly higher level of surface flatness, high load-bearing capacity, minimal thermal expansion, thermal deflection and resistance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

Qbiss Screen H+ 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.

#### **JOINTS**

TRANSVERSAL JOINT







JOINT DETAIL





**ACCESSORIES / CORNER ELEMENTS** 





SHARP-EDGED CORNER



FLASHING

INTERNAL HORIZONTAL CORNER

#### **JOINT OPTIONS**

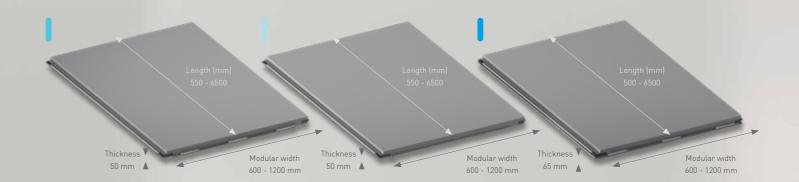
Qbiss Screen rainscreen allows various combinations of recessed and flush joints for horizontal and vertical installation.

#### JOINT OPTION FOR HORIZONTAL INSTALLATION



#### JOINT OPTION FOR VERTICAL INSTALLATION







#### **TRIMOTERM**

The Trimoterm fireproof façade system is a high-quality, versatile and environmentally friendly construction product for use where the highest demands of **fire resistance**, **thermal insulation**, **water and airtightness** are required. It offers the perfect combination of functionality and durability, whilst also delivering true architectural expression.

Available with a complete system of matching components and meeting local-specific requirements and regulations, Trimoterm is suitable for a wide range of insulated external façade, backing-wall for final cladding and roof cladding, internal walls, fire internal walls, food and hygiene walls and ceilings.

In addition to various industrial, logistic and renovation applications, Trimoterm panels can also be successfully utilized in the most demanding environments, such as food processing and pharmaceutical industry, power plants, oil and gas industry applications and many others.

#### TOTAL WALL AND ROOF SOLUTION

- Wide range of profile types and applications
- Range of ancillary interface items, bespoke solutions, pre-fabricated corners, aluminium extrusions and feature details
- Versatile stand-alone system or carrier structural wall for final cladding.

#### **MAXIMUM SAFETY**

- Class A1 non-combustible mineral wool insulation core
- Exceptional fire resistance up to class EI 240 minutes of integrity and insulation
- Advanced thermal and sound insulation and structural spanning performance
- Extremely high level of airtightness and watertightness



#### TRIMOTERM DESIGN

#### **JOINT OPTIONS**

#### TRIMOTERM FTV (STANDARD FIXING)

The standard fixing system Trimoterm FTV represents the visible fixing method of Trimoterm panels and is suitable for the horizontal, vertical and segmental curved installation of panels.



TRIMOTERM FTV JOINT (STANDARD FIXING)

#### TRIMOTERM FTV HL (HIDDEN FIXING)

The hidden fixing system Trimoterm FTV HL offers a clean façade appearance with no visible fixings. Trimoterm panels with a hidden joint are mainly intended for vertical installation, but under certain conditions, can also be used for horizontal installations.



TRIMOTERM FTV HL JOINT (HIDDEN FIXING)

#### **PROFILE TYPES**

Trimoterm fireproof panels are distinguished by a wide range of profiles that enable the design of a large number of different solutions, tailored to individual buildings.





S - PROFILE (S)

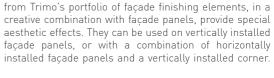
V - PROFILE (V)

Sharp-edged and rounded pre-fabricated corners from Trimo's portfolio of façade finishing elements, in a creative combination with façade panels, provide special

Trimoterm offers a wide range of versatile accessories,

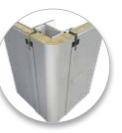
including fasteners for fixing panels and flashings,

sealants, aluminium extrusion elements and flashings.





**SYSTEM** 



PRE-FORMED SHARP-EDGED

PRE-FORMED ROUNDED

#### **COLOUR RANGE**

Trimoterm steel sheet metal is hot galvanised in compliance with EN 10346, and additionally protected by an organic coating in accordance with the coil-coating process (EN 10169).

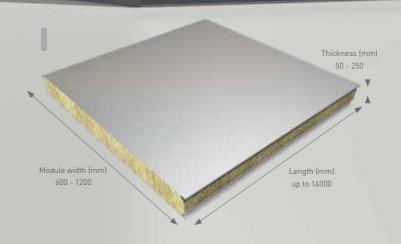
The following basic types of organic coatings are applied to steel sheet metal based on:

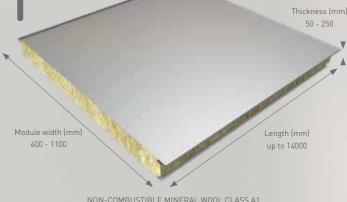
- SP polyester
- PVDF polyvinylidene fluoride
- PUR polyurethane
- PVC polyvinyl chloride, coating or film

A wide range of colour finishes is available for any building, which are engineered to capture the perfect appearance of the building design, both internally and externally.



Colours may deviate slightly due to different monitors and prints compared to original colours. Trimo can send you a metal swatch upon request. Colour range does not in any case define delivery terms or any other terms of specific skin colour. Colour range presented shows only a fraction of most usable colours within the variety of colours available.





FIRE RESISTANCE CLASS UP TO EI 240 U VALUE AS LOW AS 0.15 W/m²K

All Trimoterm DWG details and BIM libraries are available at: https://trimo-group.com/en/trimo/downloads/design-tools.

#### **ARTME**

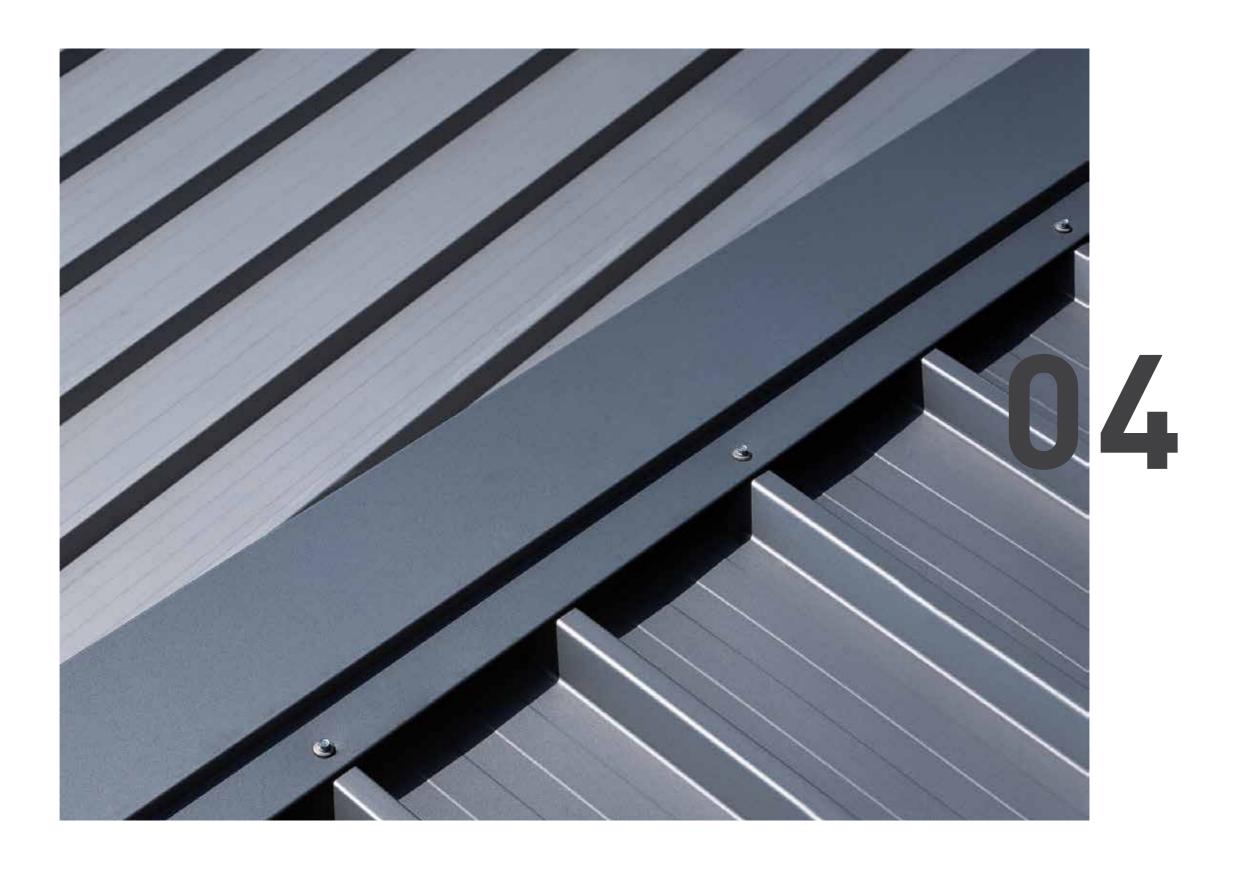
ArtMe is a unique façade design that allows a wide range of shapes, patterns and visual effects to be expressed on the façade for dramatic, individual and creative results. It enables many design possibilities - from pictures to inscriptions, logos, brands and bespoke creations.

By using highly controlled, **3D-forming technology** the embossed design is achieved without any need for adhesives, additional elements, or structural devices and most importantly, the original structural integrity and characteristics of the façade elements are preserved without compromise.





reddot design award



## TRIMOTERM SNV (ROOF PANELS)

Trimoterm SNV fireproof panels are the perfect solution for pitched roofs. Thanks to the excellent technical characteristics and the complete range of technical solutions and elements, the Trimoterm roof system provides the perfect protection against harsh weather conditions. Trimoterm roofing systems are an excellent product to provide protection from weather and climate influences.

#### FIRE RESISTANCE

• Excellent fire resistance of up to 180 min

#### TOP STRUCTURAL PERFORMANCE

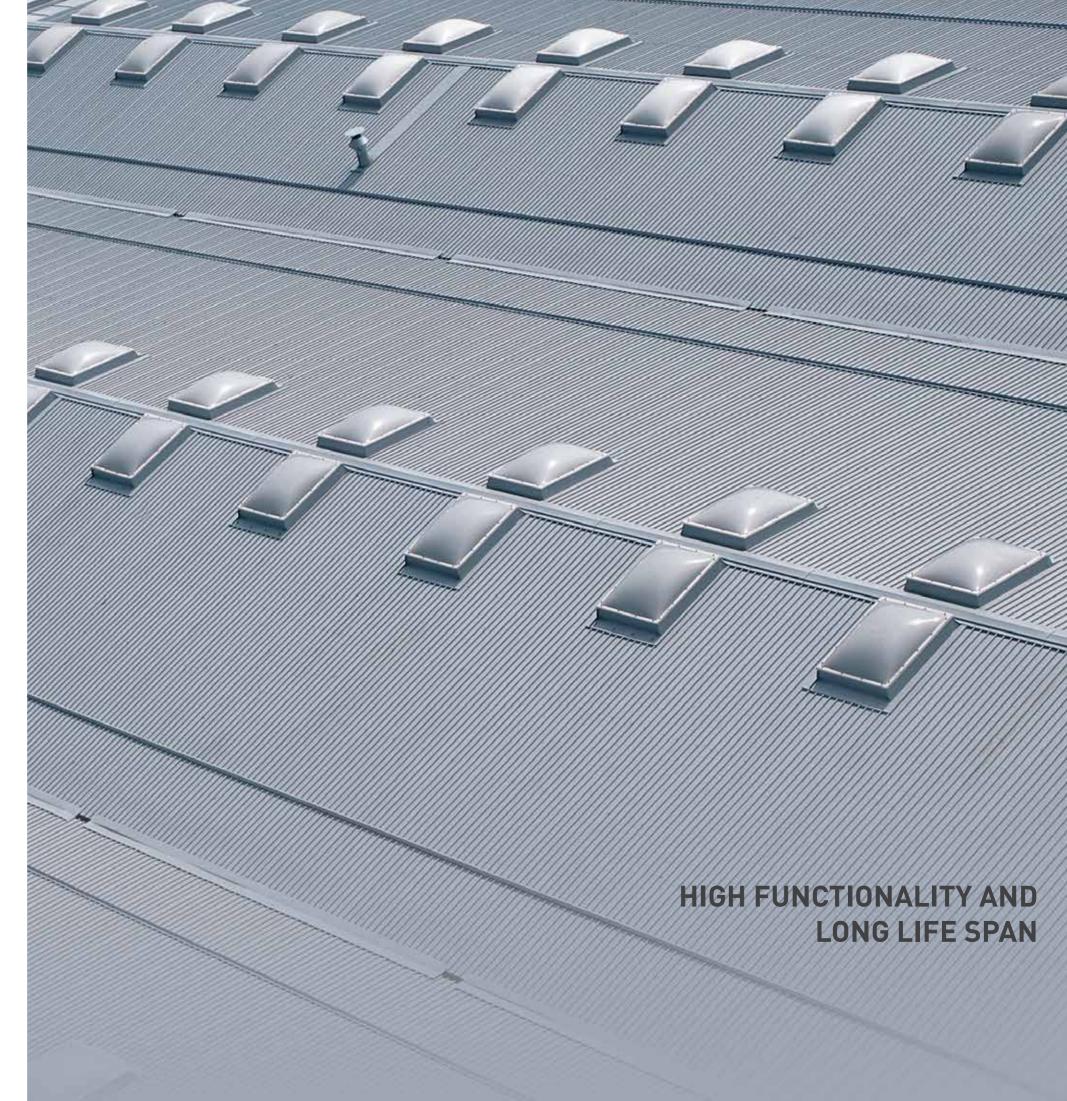
#### QUALITY

• Outstanding quality and functional solutions with a long life span

#### **INSULATION**

• Excellent thermal and sound insulation







### MODULAR SPACE SOLUTIONS

Trimo is one of the leading providers of modular space solutions, with over 30 years of experience and more than 100,000 units manufactured and supplied worldwide to date.

Trimo modular space solutions are used extensively by private and public companies as **temporary or permanent, easy to set up and efficient** accommodation, offices, showrooms, hotels, schools and nurseries and infrastructure buildings, etc.

Trimo modular units are efficient, innovative and sustainable; made from natural materials and almost 99% recyclable. Modular units can be shipped assembled or, to keep transport costs to a minimum, supplied flat-packed for on-site installation with the minimum number of tools

#### PROVEN QUALITY

• + 30 years of experience

#### FLEXIBLE DIMENSIONS

• Length up to 30 ft, width up to 10 ft, height up to 12 ft, non-standard modular unit sizes are available too

#### **ENERGY-EFFICIENT**

• Thermal conductivity values (U) for walls, floor and ceiling as low as 0.15 W/m²K

#### FIRE SAFETY

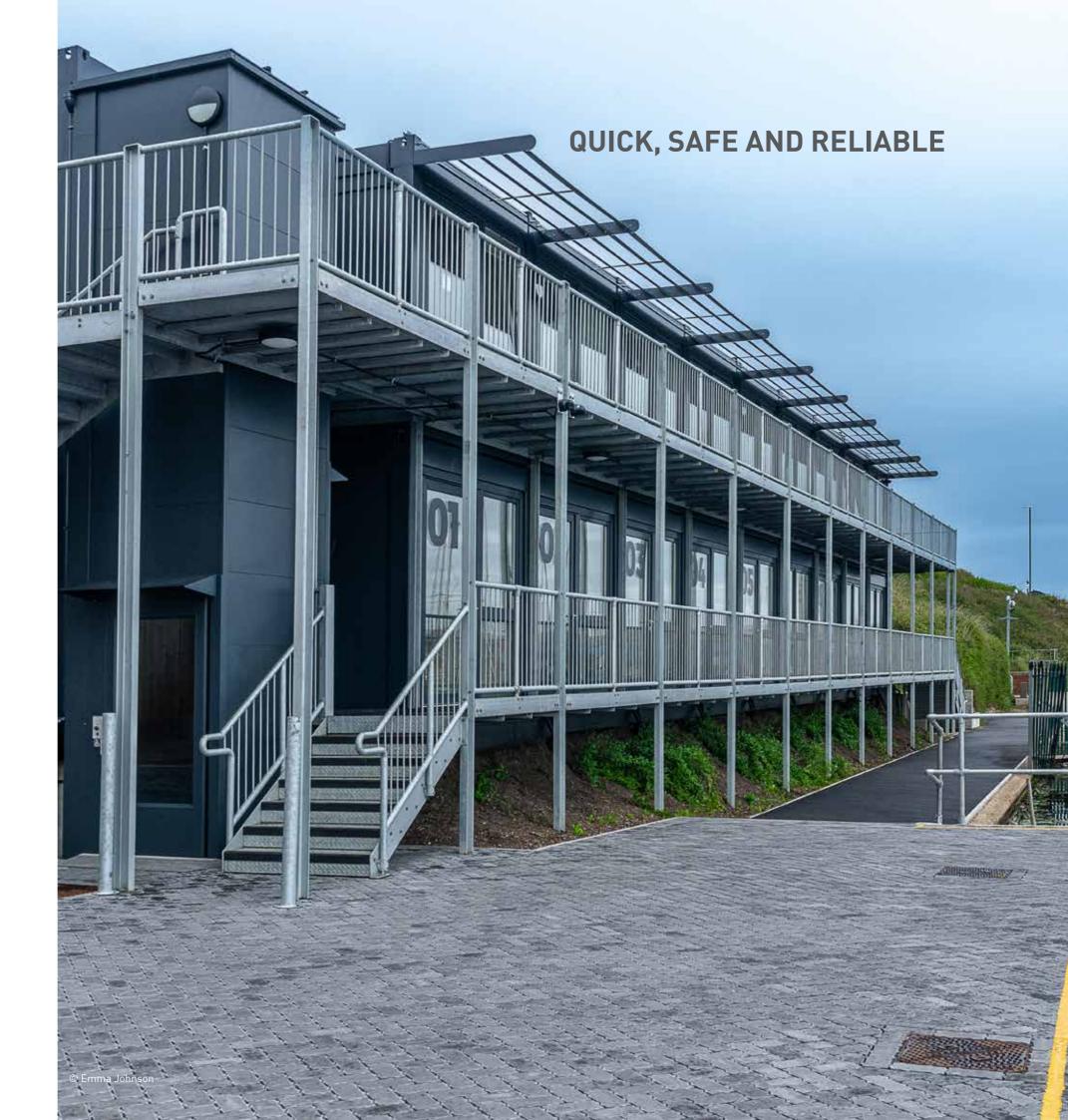
- Ceiling & roof REI 90 and REI 60 (basic unit), certificated according to EN 13501-2
- Load-bearing wall REI 60 and REI 30 (basic unit), certificated according to EN 13501-2
- Wall panels are EI fire resistance class certified (EI 30 EI 240)

#### EASY TO TRANSPORT AND RELOCATE

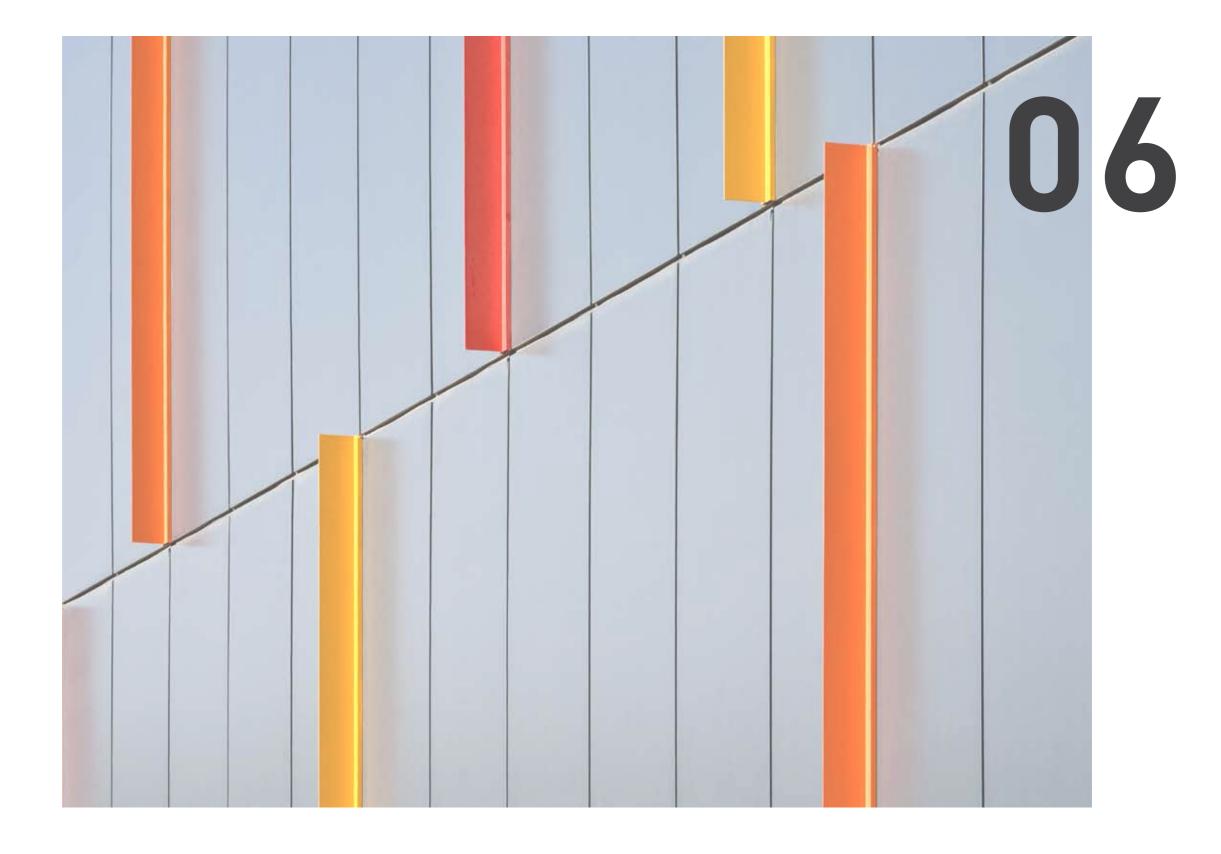
• Flat-packed or fully factory assembled, completely interchangeable wall panels

#### LONG-TERM ECONOMIC BENEFITS

• Easy to build and install for long-term use.



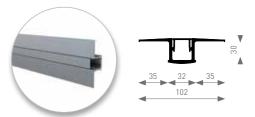
# FIXING AND DECORATIVE ELEMENTS



#### **STUNNING FINISHES**

Trimo decorative elements emphasise the selected façade line, cover visible panel joints and give the building a touch of elegance. You can choose from various different options, manufactured from extruded and powder-coated aluminium.

#### FIXING PROFILES

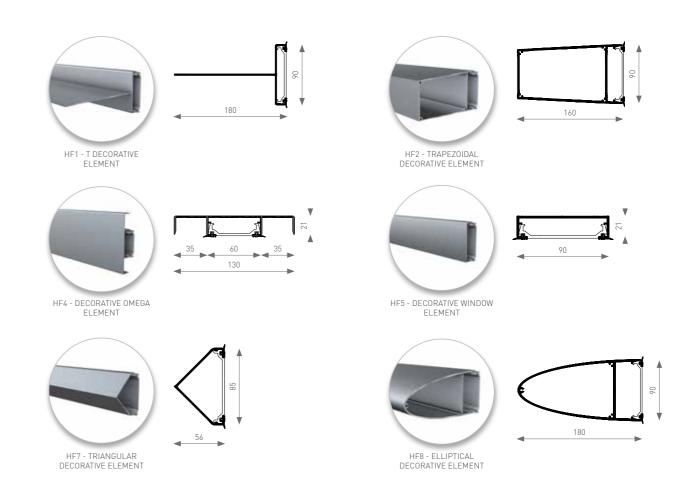


HF 102 - OMEGA PROFILE



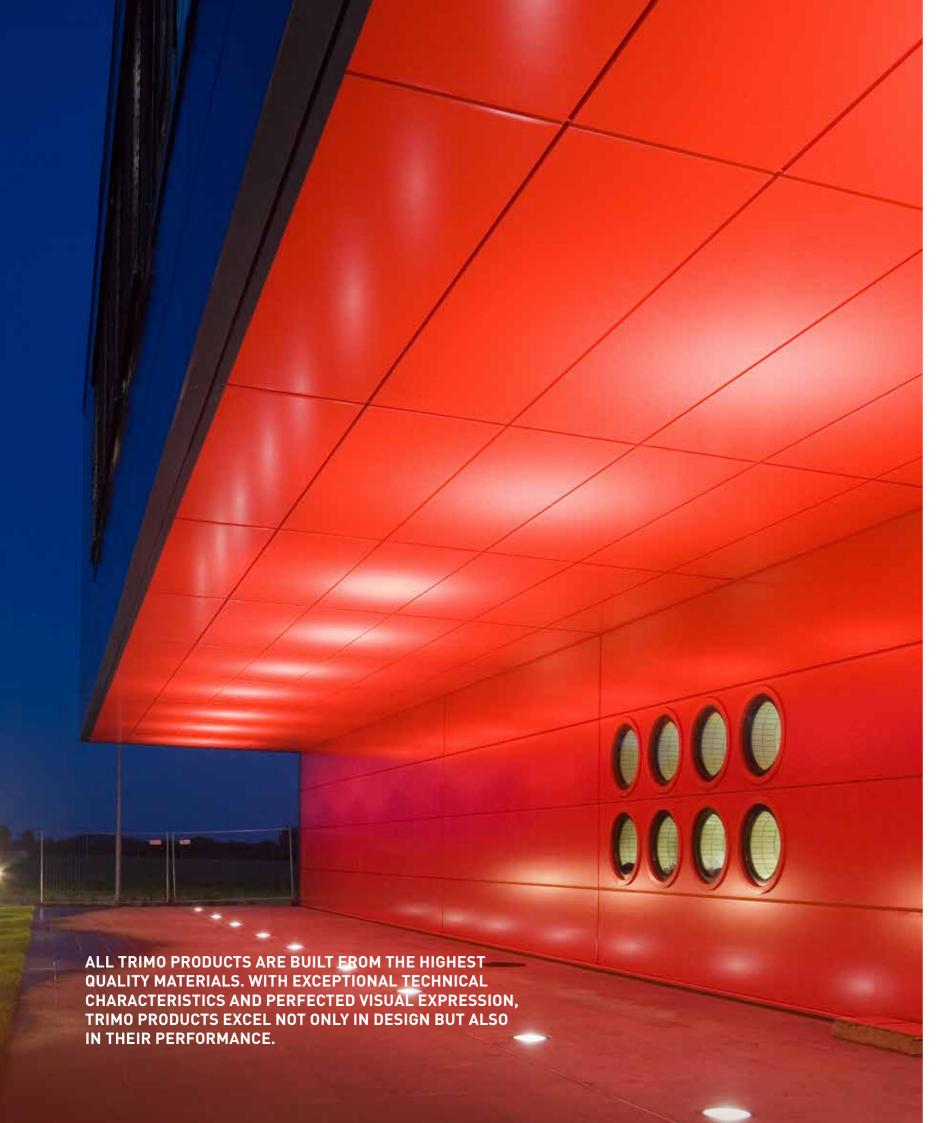
HF140 - OMEGA PROFILE

#### **DECORATIVE ELEMENTS**









#### MINERAL WOOL

- Class A1 non-combustible reaction to fire classification
- High density 90-120 kg/m<sup>3</sup> for superior structural strength
- Environmentally friendly, landfill disposal as non-hazardous waste
- Recycling costs up to 5 times less vs PIR/PUR insulation
- Retains the thermal and structural performance throughout its lifetime
- Does not provide the environmental conditions for bacteria growth and rodent animals, thus is also suitable for construction in the food & pharmaceutical industries, clean rooms, etc.

#### STEEL AND COATING SELECTION

- External steel sheet thickness 0.50 to 0.70 mm
- Internal steel sheet thickness 0.50 to 0.60 mm
- Base substrate galvanised (Zn, ZnMg, ZnAl)

#### PAINT COATING TYPES

- Standard polyester coating SP 25 microns (suitable for C1-C3 corrosion climate environment)
- Polyvinylidene fluoride coating PVDF 25 to 57 microns (suitable for C1-C4 corrosion climate environment)
- Polyurethane coating PUR 50 to 65 microns (suitable for C1-C5 corrosion climate environment)
- Polyamide-modified polyurethane coating PUR-PA 50 to 65 microns (suitable for C1-C5 corrosion climate
- Polyvinyl chloride laminated film PVC(F) 120 to 150 microns (suitable for C1-C4 corrosion INTERNAL climate
- Polyethylene terephthalate laminated film PET(F) 50 microns (suitable for C1-C4 corrosion INTERNAL climate environment)
- Polyvinyl chloride plastisol coating PVC(P) 200 microns (suitable for C1-C5 corrosion climate environment)

#### Guarantee period is directly influenced by the selected paint coating and corrosion climate environment



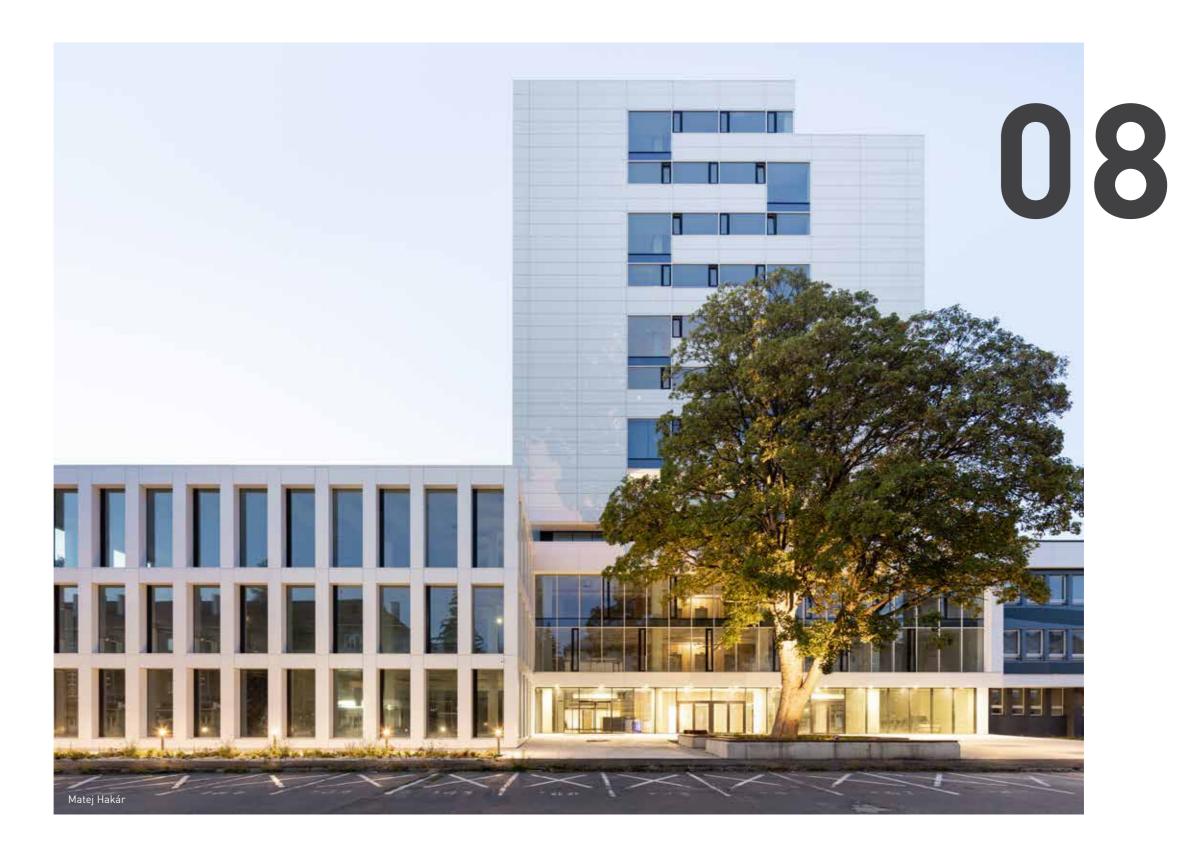
COATING STRUCTURE

#### Risk of corrosion - Classification of ambient conditions according to EN ISO 12994-2

	Examples of typical environments		
Corrosion risk category	External	Internal	
C1 Very low	-	Isolated building. Relative humidity of air: less than 60%	
C 2 Low	Slightly polluted atmosphere, dry climate e.g. rural areas	Non-isolated building with temporary water condensation e.g. warehouses, sport halls	
C 3 Medium	Urban or industrial atmosphere with low level of CO <sub>2</sub> pollution or coastal areas with low salinity	Premises characterised by high relative humidity of the air and impurities, e.g. breweries, laundries, diaries	
C 4 High	Industrial or coastal atmosphere with low salinity	Swimming pools, chemical factories	
C 5 Very High I	Industrial atmosphere with considerable humidity and aggressive atmospheres	Buildings or areas with almost continuous water condensation and	
C 5 Very High M	Coastal area with high salinity	high levels of pollution	

coating

# PROJECTS IMPLEMENTED AROUND THE WORLD



#### PORSCHE CAR SHOWROOM



LOCATION SWITZERLAND

ARCHITECT

GOLDBECK RHOMBERG AG

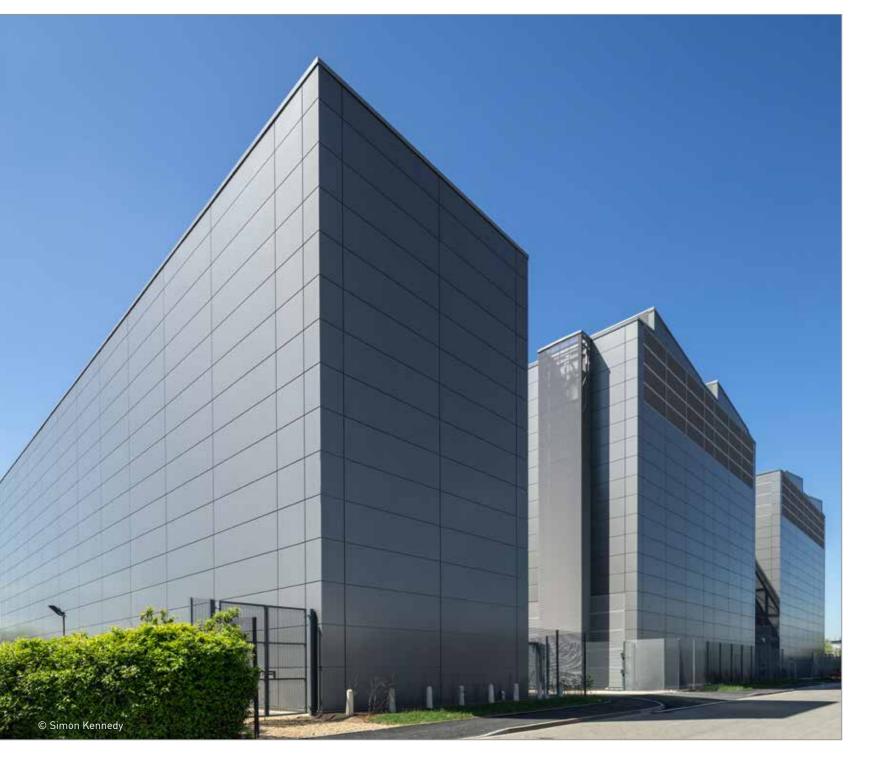
PRODUCT

QBISS ONE





#### EQUINIX LD6 DATA CENTRE







LOCATION
UNITED KINGDOM

ARCHITECT
ARUP ASSOCIATES

PRODUCT
QBISS ONE

#### COMMERCIAL CENTRE MANGO







LOCATION SPAIN

**ARCHITECT**GCA ARQUITECTURA

PRODUCT QBISS ONE

#### BRUNNER INNOVATION FACTORY







LOCATION GERMANY

**ARCHITECT**HENN, WOLFRAM SCHNEIDER

PRODUCT

QBISS ONE

#### RESEARCH INSTITUTE ELI-ALPS



LOCATION HUNGARY

ARCHITECT

ARTONIC DESIGN ARCHITECTS

PRODUCT QBISS ONE



#### INDUSTRIEWEG 2 TE BLADEL







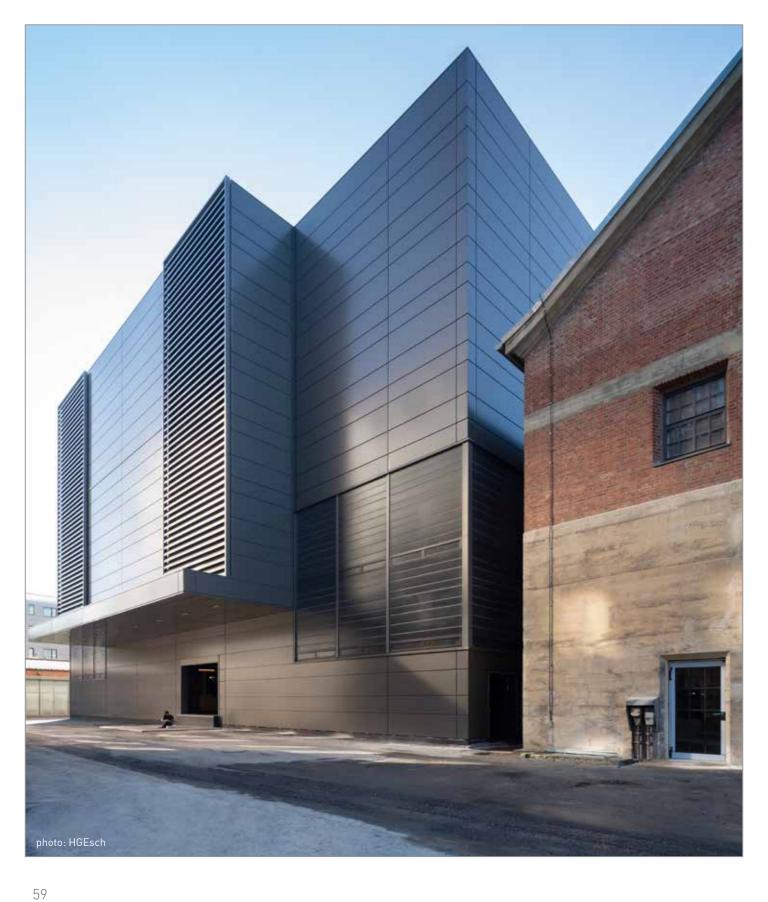
**LOCATION**THE NETHERLANDS

**ARCHITECT**VALERES INDUSTRIEBOUW

58

PRODUCT
QBISS ONE 57

#### GASTEIG HP8 ISARPHILHARMONIE







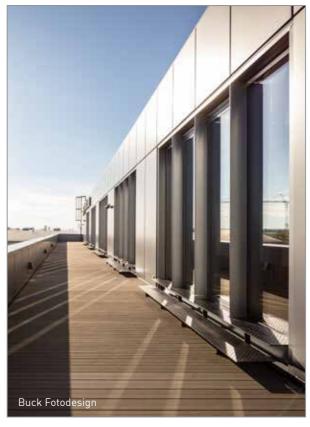
LOCATION GERMANY

**ARCHITECT**GMP INTERNATIONAL GMBH

PRODUCT
QBISS ONE

#### PARTYRENT LOGISTICS CENTRE MUNICH







LOCATION GERMANY

ARCHITECT

JAROSCH ARCHITEKTUR DARMSTADT

PRODUCT

QBISS ONE

#### CENTER OF WATER SPORTS ŽUSTERNA







LOCATION SLOVENIA

ARCHITECT ACMA D.O.O.

PRODUCT

MODULAR SPACE SOLUTIONS

#### CARGO-PARTNER D.O.O.







#### LOCATION SLOVENIA

**ARCHITECT** PROTIM, RŽIŠNIK-PERC

#### PRODUCT

QBISS ONE, TRIMOTERM FTV HL

#### MDM D.O.O.







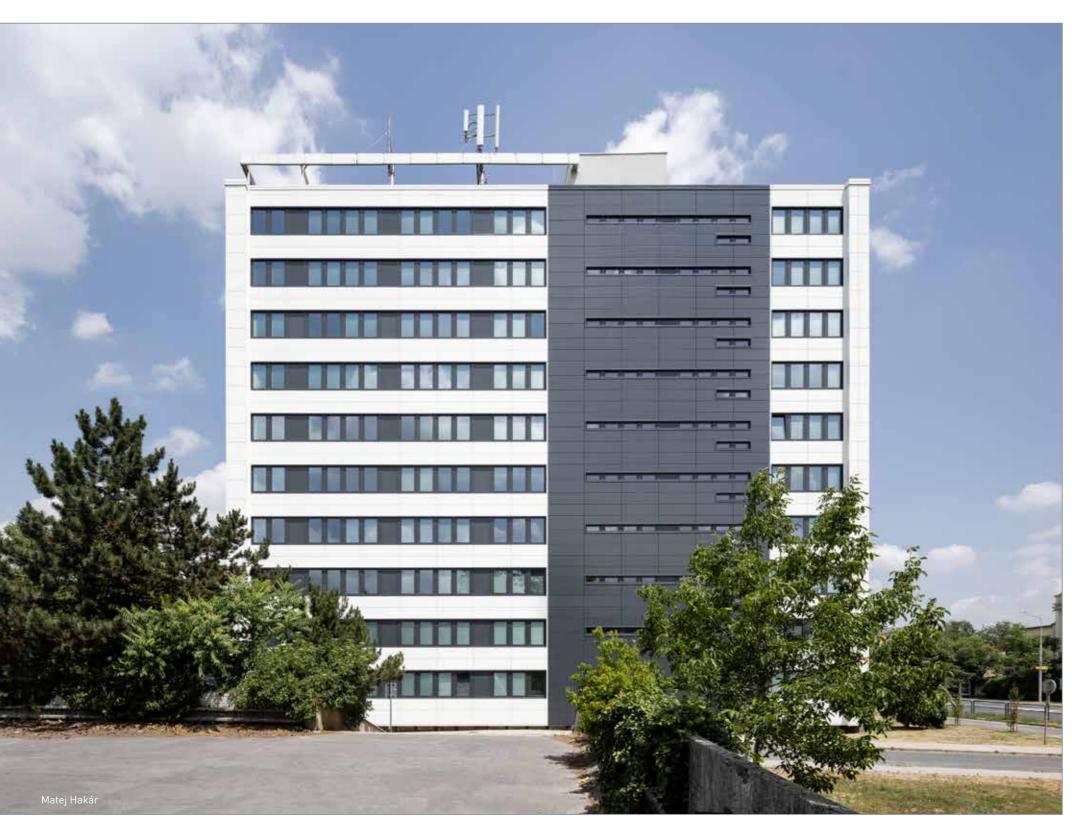
#### LOCATION

SLOVENIA

#### **ARCHITECT**GENIUS LOCI D.O.O. LJUBLJANA

#### **PRODUCT**TRIMOTERM FTV HL

#### OFFICE OF MINISTRY OF LABOUR, SOCIAL AFFAIRS AND FAMILY OF THE SLOVAK REPUBLIC IN NITRA





#### LOCATION SLOVAKIA

ARCHITECT

ATELIÉR NEUTRA, ING. ARCH. PETER MIZIA

70

PRODUCT
QBISS ONE,
QBISS SCREEN,
ARTME



#### DUNA ARENA







LOCATION HUNGARY

ARCHITECTS

NAPUR ARCHITECT,
TECTON ARCHITECT

AND CONSULTING

PRODUCT
TRIMOTERM FTV

#### HYDRAULIC ENGINEERING LABORATORY BOKU





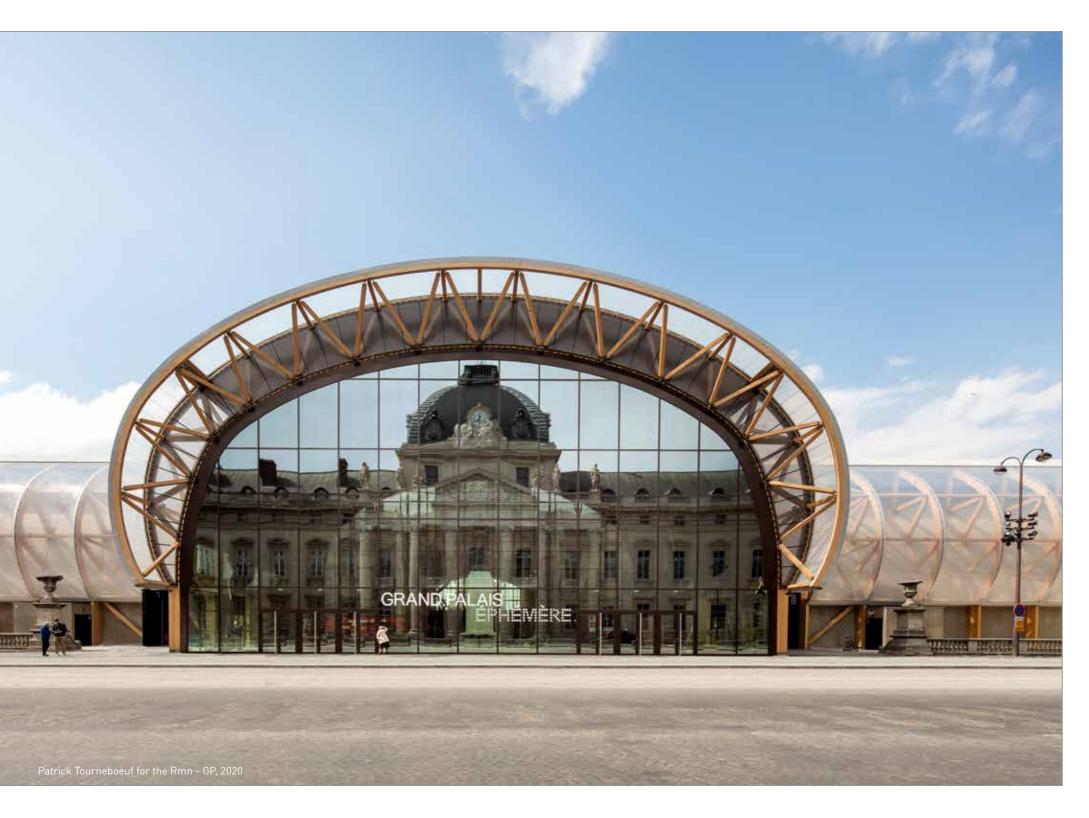


LOCATION AUSTRIA

ARCHITECTS
ATP PLANUNGS- UND
BETEILIGUNGS AG

**PRODUCT**TRIMOTERM FTV

#### GRAND PALAIS EPHÉMÈRE



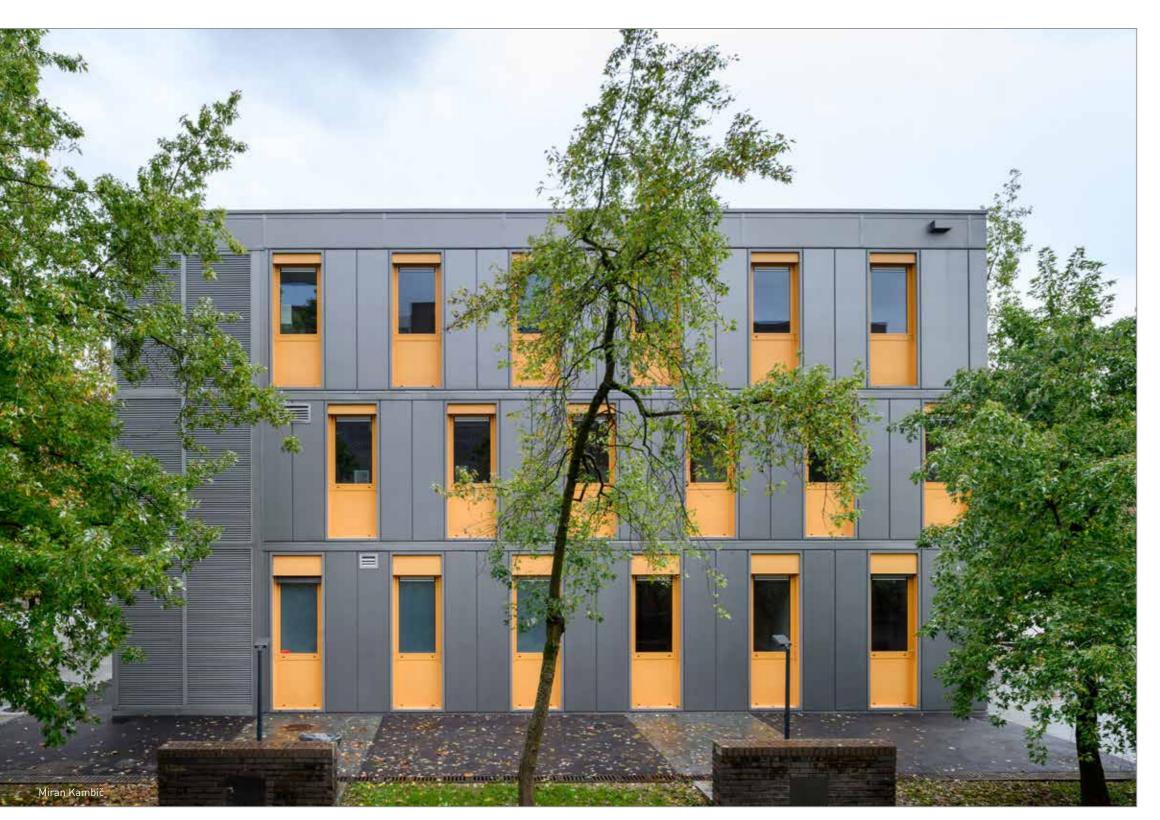
#### LOCATION France

ARCHITECTS
WILMOTTE &
ASSOCIÉS SA

PRODUCT
TRIMOTERM FTV



#### FACULTY OF MEDICINE, UNIVERSITY IN LJUBLJANA







78

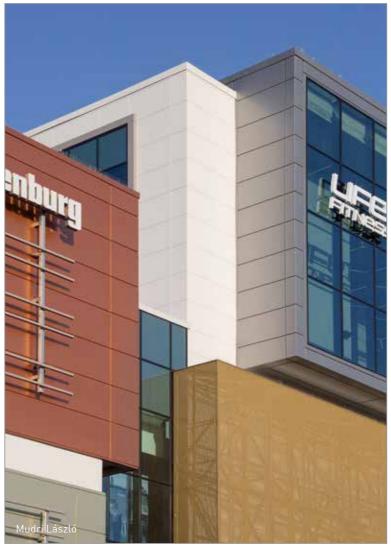
#### LOCATION SLOVENIA

**ARCHITECTS** DIA D.O.O.

**PRODUCT**MODULAR SPACE SOLUTIONS

#### ETELE PLAZA





#### LOCATION HUNGARY

ARCHITECTS
PAULINYI&PARTNERS, GROUP DYER

**PRODUCT**QBISS ONE, TRIMOTERM FTV

#### **HEADQUARTERS**

#### TRIMO D.O.O.

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#### **GLOBAL PRESENCE**

Find your local contact



#### TRIMO LIBRARY MOBILE APP

**GOOGLE PLAY** 



APP STORE



#### **DOWNLOADS**

#### BROCHURES

- Façade systems
- Roof systems
- General



TECHNICAL DOCUMENTS - Façade systems

- Roof systems
- Structural performance



**HANDBOOK** Data Centre



**DESIGN TOOLS** 

- CAD details
- BIM product libraries



**HANDBOOK** Renovation



**HANDBOOK** Warehouse



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