ARCHITECTURAL SOLUTIONS

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COMPANY PROFILE





50+
YEARS OF EXPERIENCE

PROJECTS IN MORE THAN

100 COUNTRIES WORLDWIDE MORE THAN

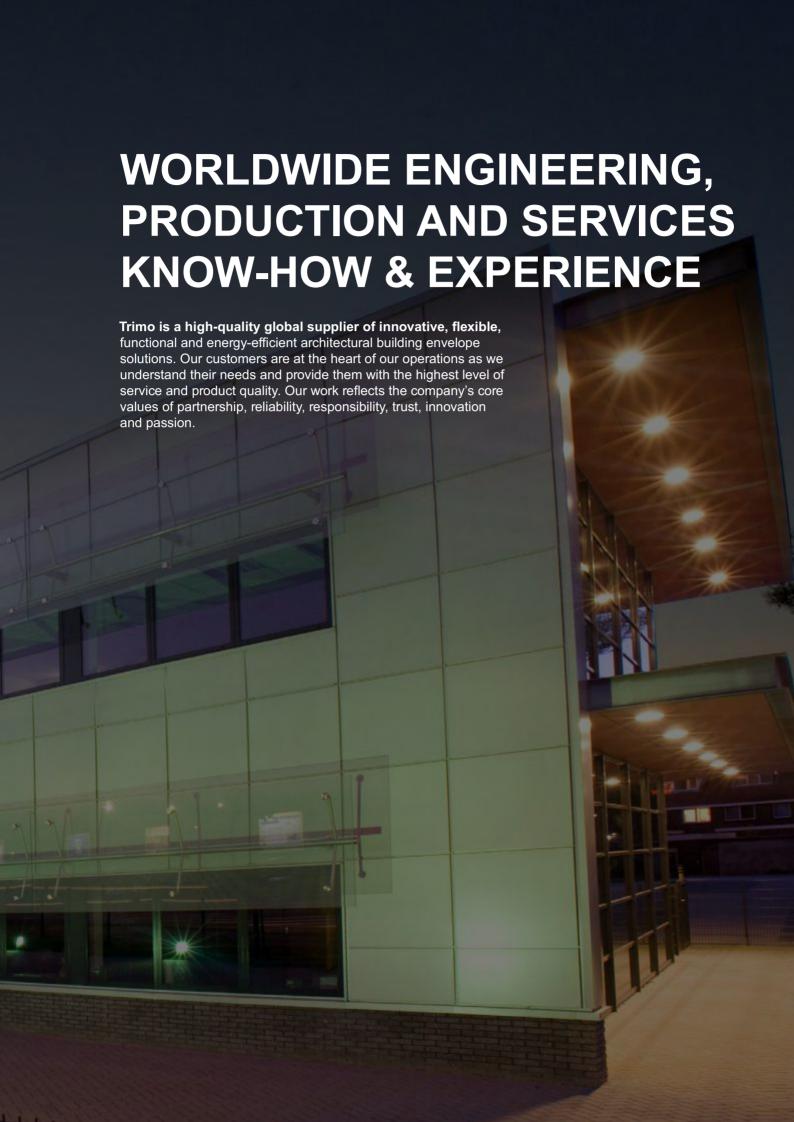
50 MILLION M² OF FAÇADES AND ROOFS PRODUCED

MORE THAN

20,000 CUSTOMERS & PARTNERS

CE MARKED & CERTIFIED



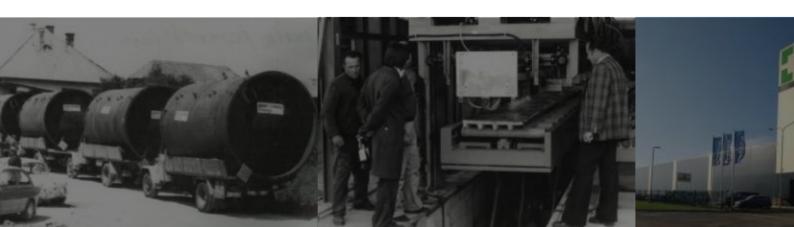


HISTORY

DEFINING MOMENTS IN THE HISTORY OF THE TRIMO GRO

First in the world to

produce Trimoterm fireproof panels with mineral wool core on Production **Establishment of Trimo** continuous line begins in Serbia 1974 1987 1989 2007 1961 Production start of First container thermal-insulated produced



PU panels

OUP

Innovative
 Qbiss One
 façade system
 introduced to the
 market

New corporate identity for Trimo Group

2008

2009

2010

2016

2019

Supply of façade panels for construction of the first CO₂-neutral building in the world ArtMe unique façade design receives "red dot" product design award Global launch of **Qbiss Screen -** innovative metal rainscreen system

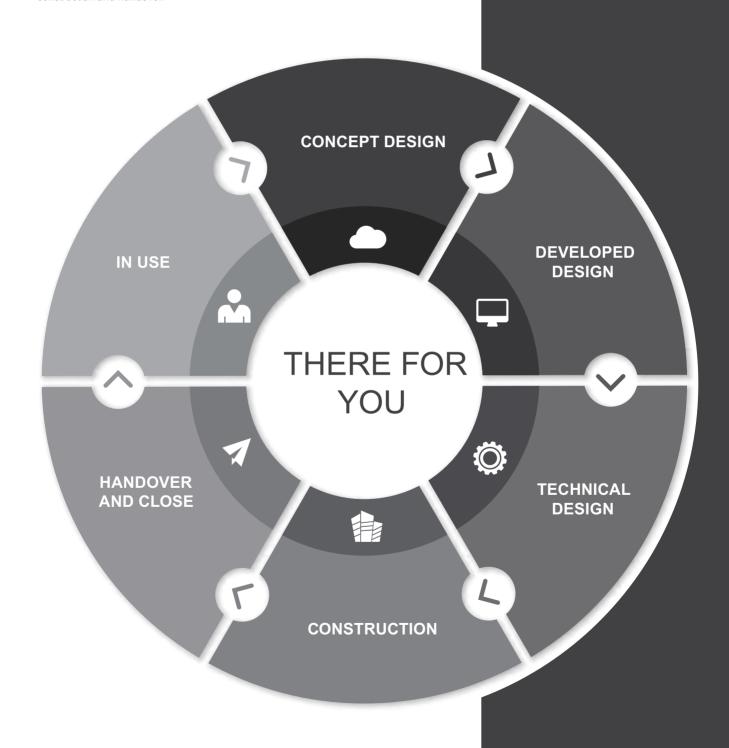






TECHNICAL SUPPORT AND CONSULTING

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

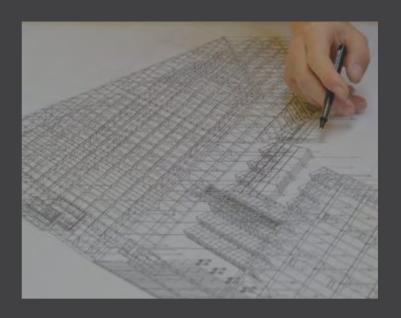


DESIGN

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.

The Trimo 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 specific 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

We have developed BIM libraries of our products for the most sophisticated engineering 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

The Trimo 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.



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 embossed corners, unmatchable flatness and advanced technical characteristics place Qbiss One among the best façade systems in the world.

TOTAL WALL SOLUTION

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

VERSATILE DESIGN POSSIBILITIES

- · Embossed element corner design
- · Extensive range of interfaces and bespoke elements
- Pre-fabricated corners and curved elements
- 3D corners
- · Integrated windows, doors and louvre systems

MAXIMUM SAFETY

- · Class A1 non-combustible mineral wool insulation core
- High-level insulation values up to 0.15 W/r*K
- Fire resistance: up to class El120 minutes integrity and insulation
- · Watertightness up to 1200 Pa
- Highest environmental credentials and A+ BREEAM rating
- Flexible coating guaranteed up to 30 years and lifetime expectancy up to 50 years





QBISS ONE DESIGN

Qbiss One and Qbiss Screen are distinguished by the unique embossed corner of the element which results in superior

aesthetics without any cuts, folds or welds.



JOINT OPTIONS

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

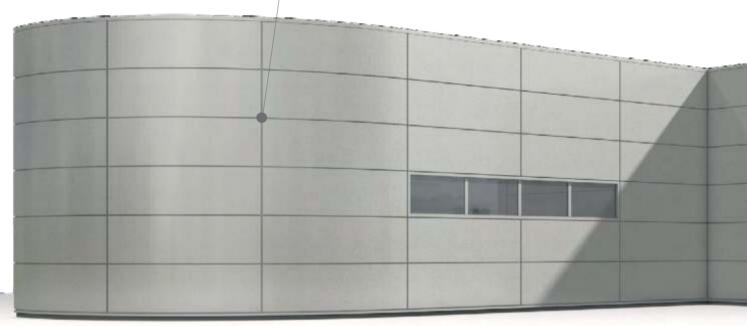
JOINT OPTIONS FOR HORIZONTAL INSTALLATION





JOINT OPTIONS FOR VERTICAL INSTALLATION





COLOUR RANGE

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. Nonstandard colours are available upon request.

SOLID COLOURS



Grey White RAL 9002





Anthracite

RAI 7016







SPECIAL METALLIC



Basalt Grey Sapphire Blue RAL 7012 RAL 5003 **ELEMENTS**



Seren Silver



Traffic Red





Seren Black

Black

STAINLESS STEEL







RAL 9007

5WL Lucido





Sirius Sparkle Orion Sparkle Zeus Sparkle

*Colorcoat Prisma and Seren are trademarks of Tata Steel UK Limited

**Stainless steel is a bespoke solution and shall be discussed with the Trimo technical department on an individual project basis from an application and availability perspective.

Colours may deviate slightly due to different monitors and prints compared to original colours. We can send you the real metal sample on request.

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TYPICAL INSTALLATION DETAILS



BASE DETAIL



TOP PARAPET DETAIL



WINDOW FIXED GLASS



WINDOW

CORNER ELEMENTS



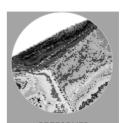
PREFORMED HORIZONTAL SHARP-EDGED CORNER



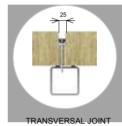
SHARP-EDGED CORNER FLASHING



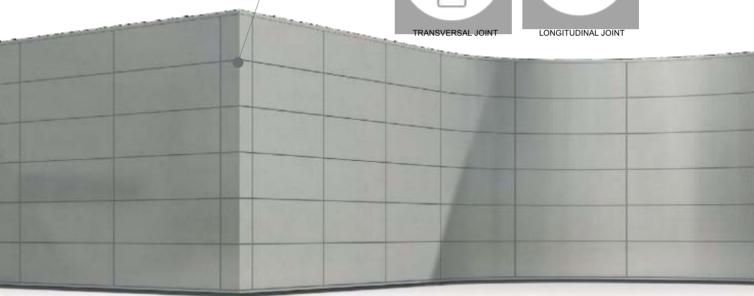
ROUNDED CORNER



3D CORNER







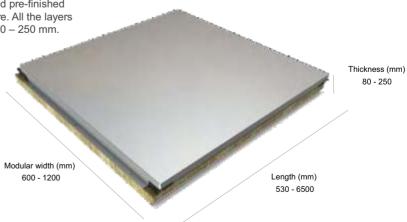
The Qbiss One **façade element** consists of two galvanised and pre-finished steel sheets bonded to a non-combustible A1 mineral wool core. All the layers together make a solid element with a thickness ranging from 80-250 mm.

The Qbiss One system consists of:

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







FIRE RESISTANCE CLASS UP TO EI 120 U VALUE UP TO 0.15 Wdd²K WATER PERMEABILITY UP TO 1200 P

QBISS SCREEN

An innovative metal **rainscreen system** designed for ventilated façade applications and for both new-build and refurbishment use. It is comprised of an aluminium **honeycomb core**, bonded between two metal skins, with an **embossed corned design**.

It is equally applicable as an exterior and interior wall and soffits bringing a system approach to the building envelope, which can be fully combined with the Qbiss One insulated architectural building envelope solutions

With an extremely flat design, the Qbiss Screen is also engineered to meet the highest A2 non-combustibility fire classification demands and can withstand high wind loads to larger spans than conventional rainscreen systems.

HIGH-QUALITY RAINSCREEN SYSTEM

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

VERSATILE DESIGN POSSIBILITIES

- · Fully 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 carrier sub-frame system up to 60%
- Lightweight elements for simple on-site handling and installation





QBISS SCREEN DESIGN

Qbiss One and Qbiss Screen are

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

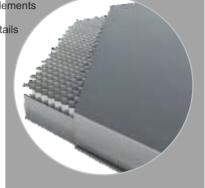


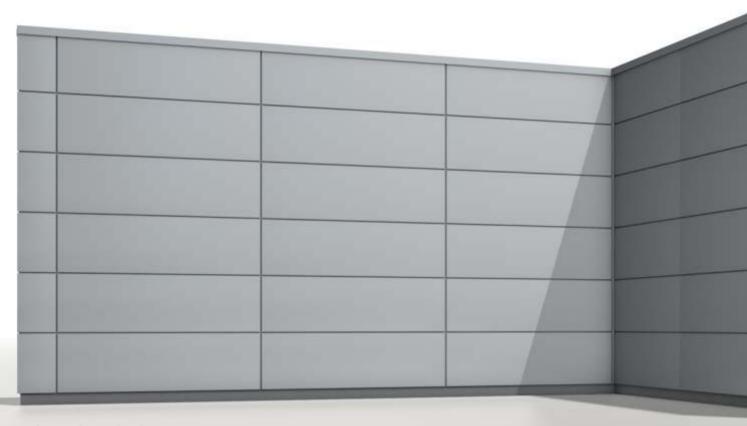
QBISS SCREEN SYSTEM:

Modular rainscreen façade elements

Fixing and sealing material Architectural performance details

Corner elements





JOINT OPTIONS

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

HORIZONTAL INSTALLATION VERTICAL INSTALLATION







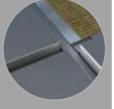
QBISS SCREEN HR F-B



TYPICAL INSTALLATION DETAILS







JOINT DETAIL



DRIP DETAIL

CORNER ELEMENTS



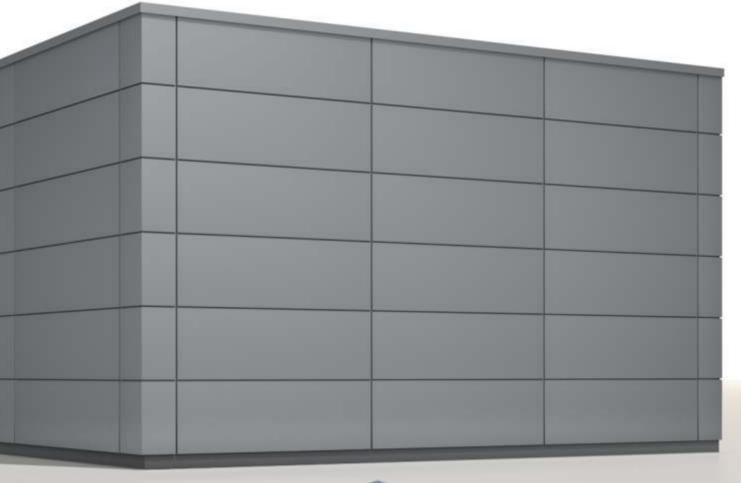
PREFORMED HORIZONTAL SHARP-EDGED CORNER

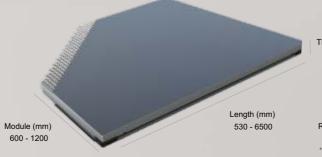


SHARP-EDGED CORNER FLASHING



ROUNDED CORNER FLASHING





Thickness (mm) 50

REACTION TO FIRE - ELEMENT (EN 13501-1) A2*

* According to classification report No. P 1150/17-530-4 (ZAG, 2018)





TRIMOTERM

The Trimoterm fireproof façade system is a high-quality, versatile and environmentally friendly construction product where the highest demands on fire resistance, sound reduction and thermal insulation 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 country-specific requirements and regulations, Trimoterm is suitable for a wide range of external façade and roof cladding, internal partition walls, fire walls and ceilings. In addition to various industrial, logistic and commercial build applications, Trimoterm panels can also be successfully utilized in the most demanding environments, such as the food processing and pharmaceutical industry, power plants, oil and gas industry applications and many others.

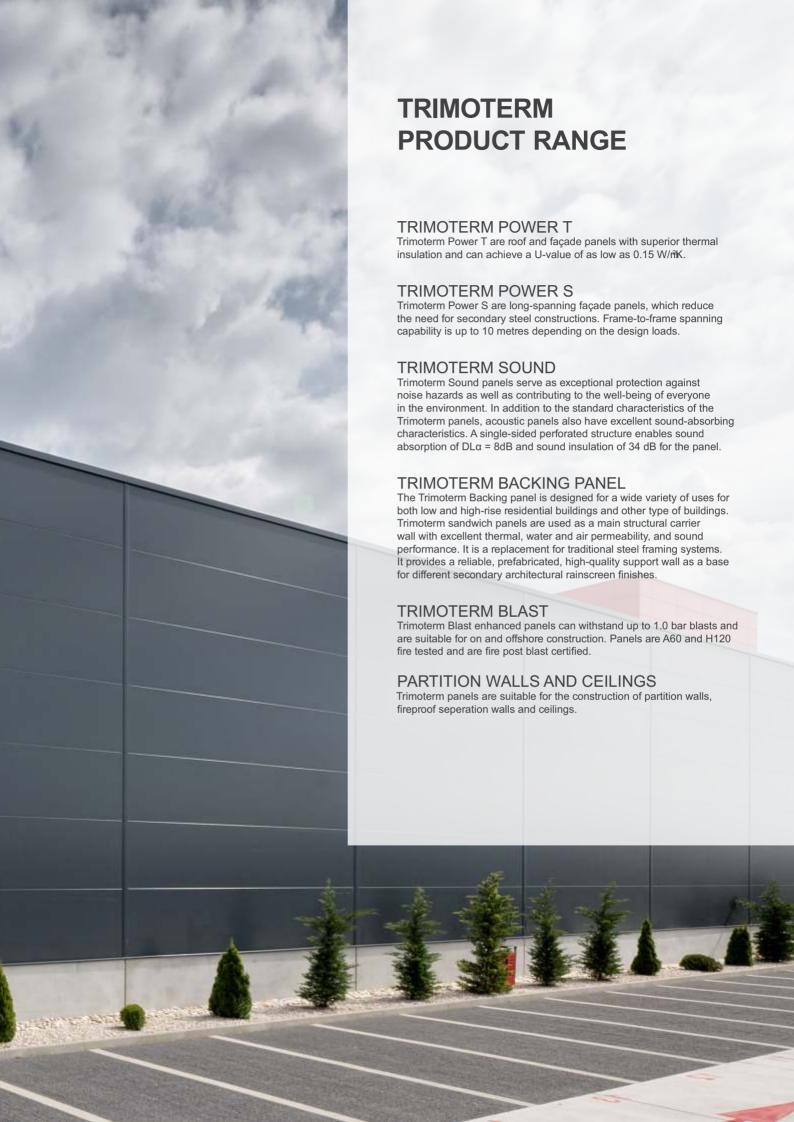
TOTAL WALL AND ROOF SOLUTION

- Wide range of profile finishes and applications
- Range of ancillary interface items, bespoke solutions, pre-fabricated corners, aluminum extrusions and feature details
- Versatile stand-alone system or carrier structural wall for secondary architectural cladding solutions

MAXIMUM SAFETY

- Class A1 non-combustible mineral wool insulation core
- Exceptional fire resistance up to class El 240 minutes of integrity and insulation
- Advanced thermal and sound insulation and structural spanning performance
- Extremely high level of airtightness and watertightness
- Highest environmental credentials and A+ BREEAM rating





TRIMOTERM DESIGN

JOINT OPTIONS

TRIMOTERM FTV (STANDARD JOINT)

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



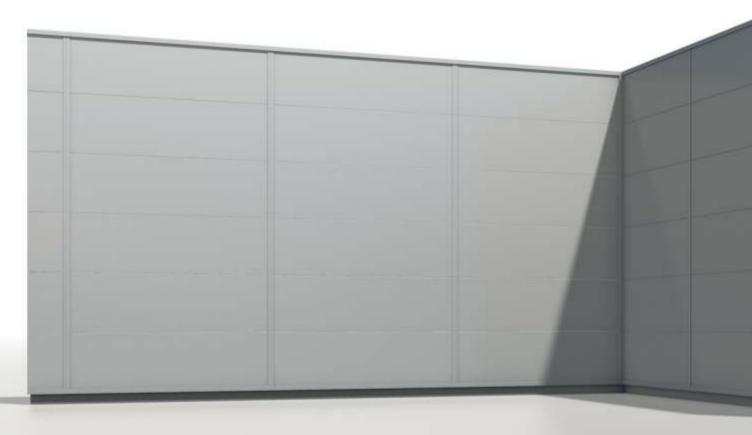
(STANDARD JOINT)

TRIMOTERM FTV HL (HIDDEN JOINT)

The hidden joint system Trimoterm FTV HL offers a clean façade look with no visible fixings. Trimoterm panels with a hidden joint are mainly intended for vertical installation, but under certain conditions and with limitations, can also be used for various horizontal cladding applications.



TRIMOTERM FTV H (HIDDEN JOINT)



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 (DIN EN 10169/1). 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 look of the building design, both internally and externally.

STANDARD COLOURS



PANEL PROFILES

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.



SMOOTH PROFILE (G)



S - PROFILE (S)



MICRO-LINED PROFILE (M)



V - PROFILE (V)

Full range available at: https://www.trimo-group.com/files/downloads/Trimoterm%20technical%20specification.pdf

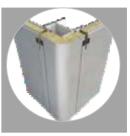
SYSTEM

Trimoterm offers a wide range of versatile accessories, including fasteners for fixing panels and flashings, sealants, aluminium extrusion profiles and flashings.

Rounded and harp-edged pre-fabricated corners from Trimo's portfolio of façade finishing elements, in a creative combination with façade panels, provide special aesthetic effects. They can be used on vertically installed façade panels, or with a combination of horizontally installed façade panels and a vertically installed corner.



PRE-FORMED SHARP-EDGED CORNER



PRE-FORMED ROUNDED CORNER





NON-COMBUSTIBLE MINERAL WOOL CLASS AT FIRE RESISTANCE CLASS UP TO EI 240 U VALUE UP TO 0.15 Wid²K

ARTME

ArtMe surface treatment that allows unlimited shapes, patterns and visual effects to be expressed on the façade for dramatic, individual and creative results. From designs and pictures to inscriptions, logos, brands and bespoke creations.

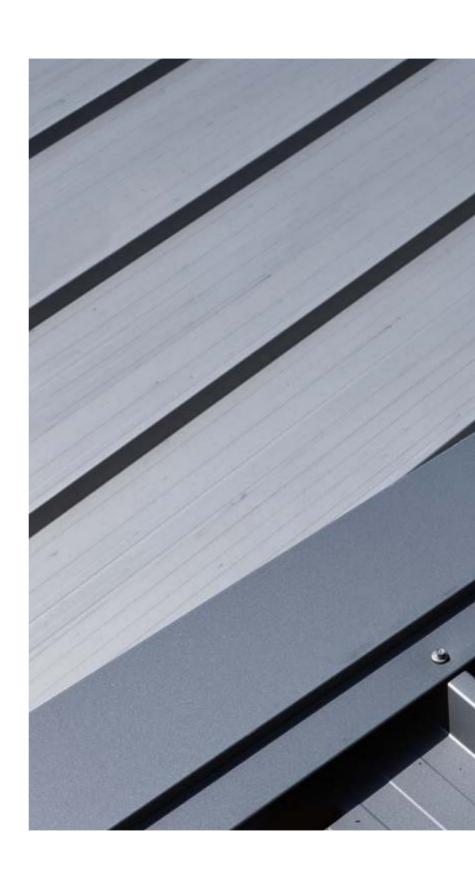
ArtMe uses a highly controlled **3D-forming technology**, which is being used for the first time on complete façade elements with precoated steel-sheet surfaces. Recognising the importance of product performance, the original integrity and characteristics of the façade elements are preserved without compromise.

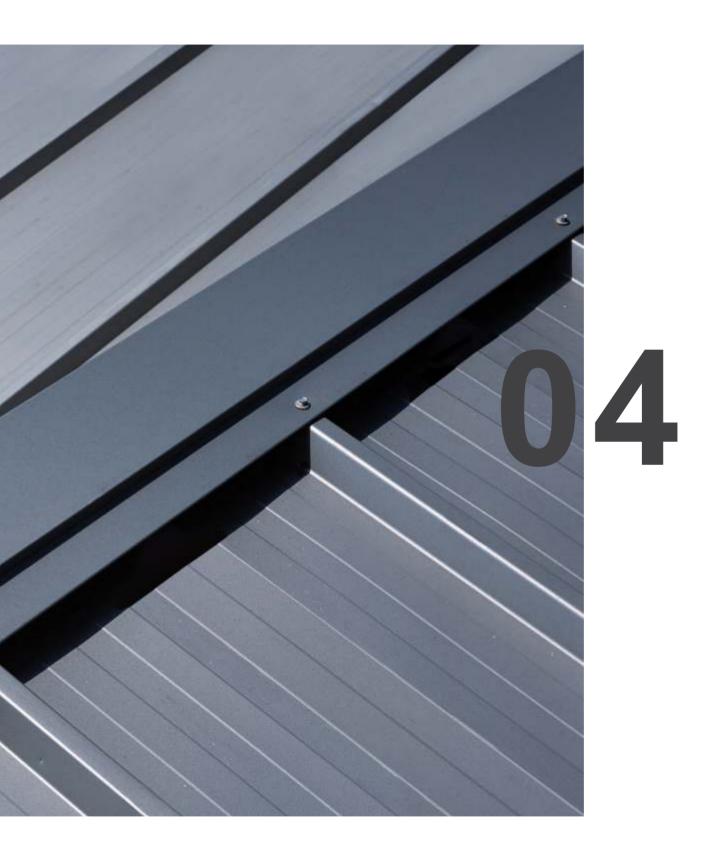




reddot design award







TRIMOTERM SNV (ROOF PANELS)

Trimoterm fireproof roofs 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

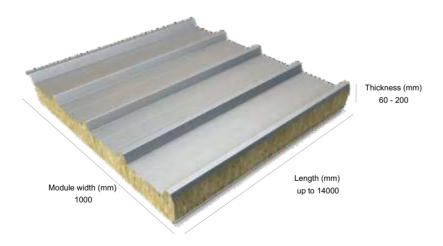
TOP STRUCTURAL PERFORMANCE

QUALITY

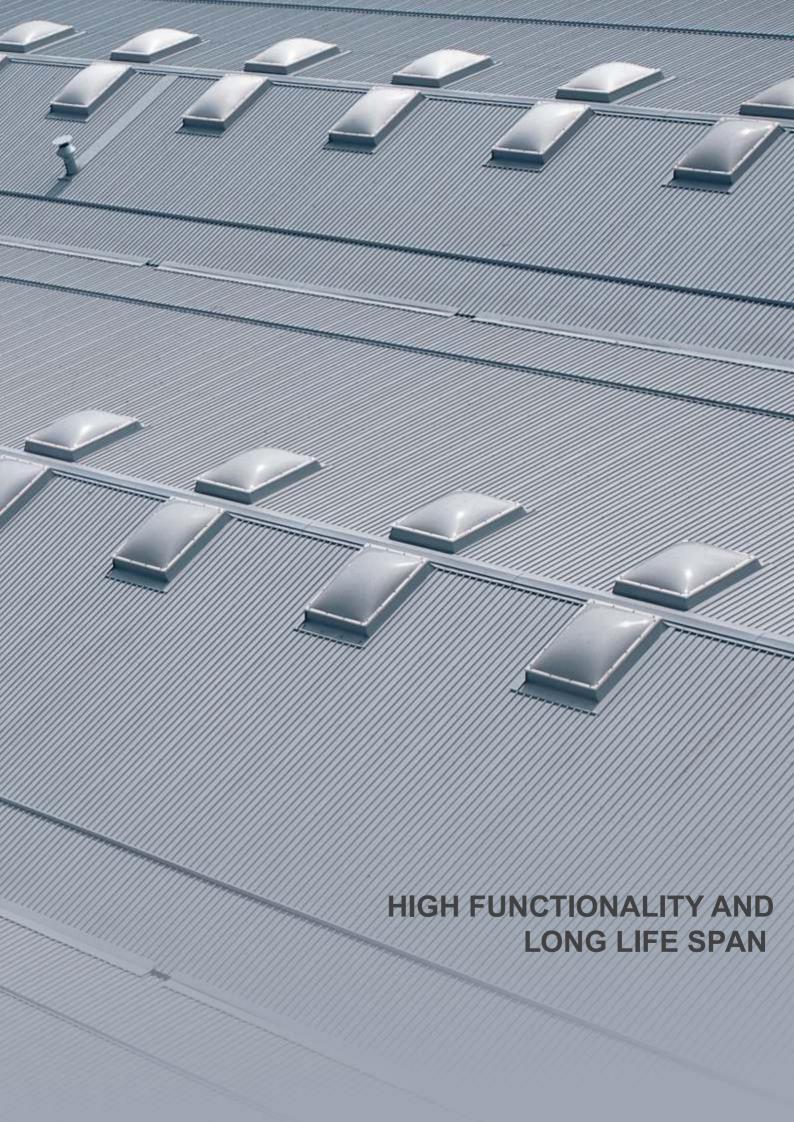
Outstanding quality and functional solutions with a long life span

INSULATION

Excellent thermal and sound insulation







MODULAR SPACE SOLUTIONS





MODULAR SPACE SOLUTIONS

Trimo is one of the leading providers of modular space solutions, with over 25 years of experience and almost 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, infrastructure buildings, etc.

Trimo modular units are efficient, innovative and sustainable; made from natural materials and almost 100% 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. Units can also be easily disassembled after use and transferred to a new location.

PROVEN QUALITY

25+ 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/n³K

FIRE SAFETY

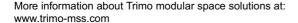
 Wall panels are EI fire resistance class certified (EI 30 – EI 240)

EASY TO TRANSPORT AND RELOCATE

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

LONG-TERM ECONOMIC BENEFITS

 Easy to build and install, designed to be used on many consecutive projects over a long period of time

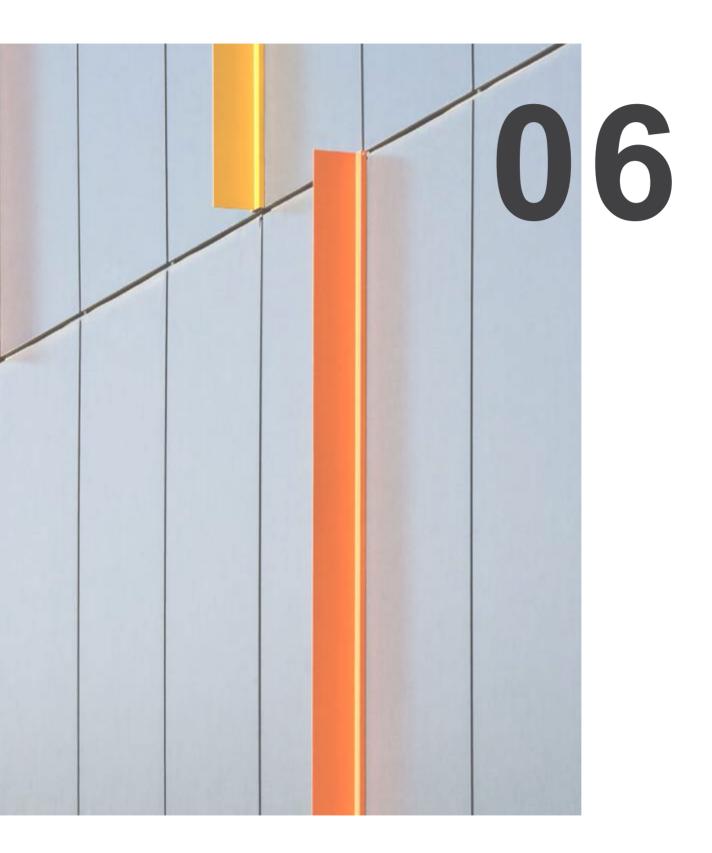






FIXING AND DECORATIVE ELEMENTS





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 ELEMENTS



HF 102 - OMEGA PROFILE





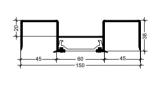
HF140 - DECORATIVE OMEGA PROFILE

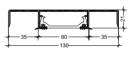


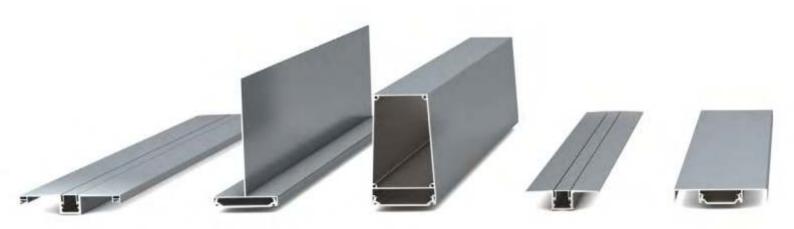
HF6 - DECORATIVE OMEGA PROFILE



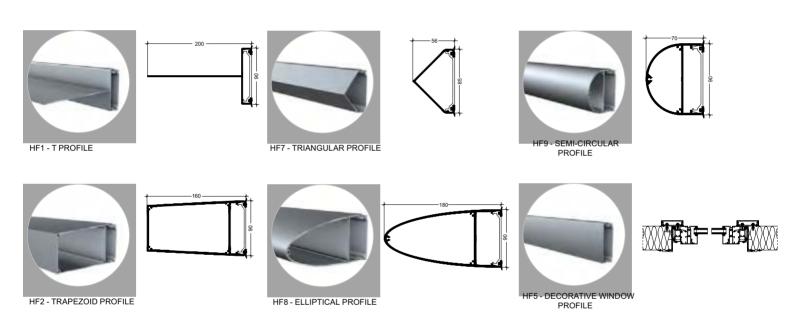
HF4 - DECORATIVE OMEGA PROFILE







DECORATIVE ELEMENTS





MATERIALS







MINERAL WOOL

- Class A1 non-combustible reaction to fire classification
- High density 90-120 kg/m³ for superior structural strength
- Environmentally friendly, landfill disposal as non-hazardous waste
- Recycling costs up to 5 times less vs PIR/PUR insulation
- Does not absorb water
- · 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.

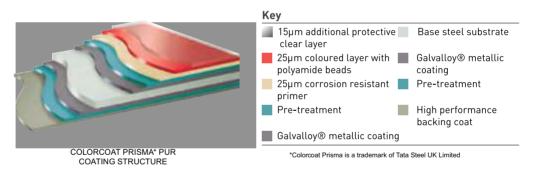
STEEL AND COATING SELECTION

- 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 paint SP 25 micron (suitable for C2-C3 corrosion climate environment)
- Polyvinylidene fluoride paint PVDF 25 to 42 micron (suitable for C3-C4 corrosion climate environment)
- Polyurethane paint PUR 50 to 65 micron (suitable for C4-C5 corrosion climate environment)
- PVC laminate coating PVC 120 to 150 micron (suitable for C3-C4 corrosion INTERNAL climate environment)

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



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

Corrosion risk category	Examples of typical environments	
	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 CQ 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 high levels of pollution
C 5 Very High M	Coastal area with high salinity	

PROJECTS IMPLEMENTED AROUND THE WORLD





MCLAREN PRODUCTION CENTRE



LOCATION UNITED KINGDOM

YEAR OF COMPLETION 2011

ARCHITECTFOSTER + PARTNERS







PORSCHE CAR SHOWROOM





LOCATION SWITZERLAND

YEAR OF COMPLETION 2017

ARCHITECT GOLDBECK RHOMBERG AG





EQUINIX LD6 DATA CENTRE







LOCATION UNITED KINGDOM

YEAR OF COMPLETION 2015

ARCHITECT ARUP ASSOCIATES

COMMERCIAL CENTRE MANGO









LOCATION SPAIN

YEAR OF COMPLETION 2015

ARCHITECTGCA ARQUITECTURA

COMMERCIAL CENTRE HOME







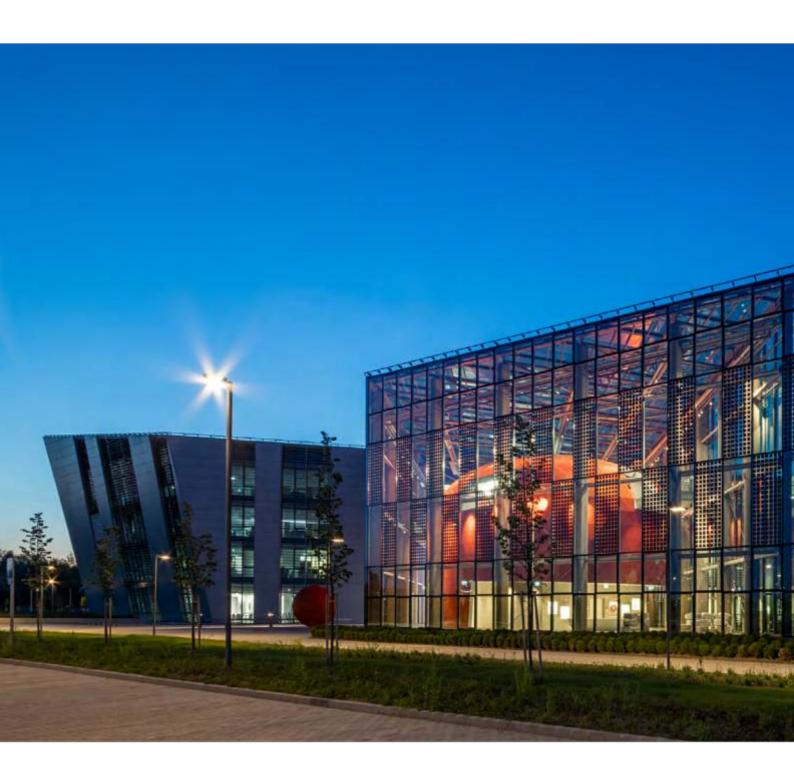


LOCATION UNITED KINGDOM

YEAR OF COMPLETION 2015

ARCHITECTMECANOO ARCHITECTEN B.V.

RESEARCH INSTITUTE ELI-ALPS

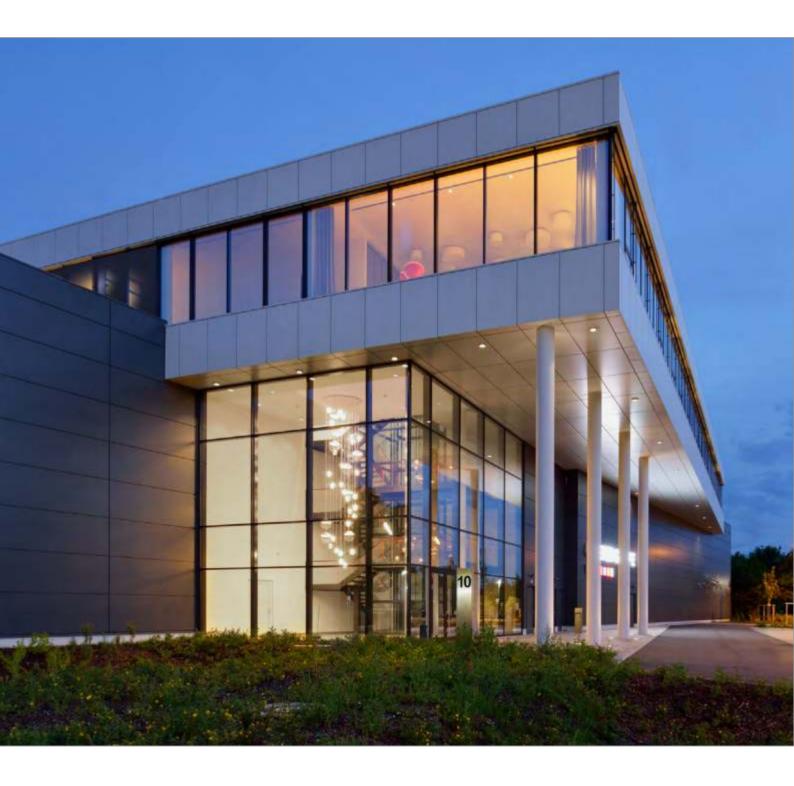




LOCATION HUNGARY YEAR OF COMPLETION 2017 PRODUCT QBISS ONE



ORTERER GRUPPE LOGISTICS CENTRE





LOCATIONGERMANY

YEAR OF COMPLETION 2016

ARCHITECT KEHRBACH PLANWERK



HEADQUARTERS HEKA HERZOG







LOCATION GERMANY

YEAR OF COMPLETION 2018

PARTYRENT LOGISTICS CENTRE









LOCATION GERMANY

YEAR OF COMPLETION 2013

ARCHITECTJAROSCH ARCHITEKTUR DARMSTADT

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GLOBAL PRESENCE

Find your local contact



DOWNLOADS

BROCHURES

- Façade systems
- Roof systems
- General



DESIGN TOOLS

- CAD details
- BIM product libraries



TECHNICAL DOCUMENTS

- Façade systems
- Roof systems
- Structural performance



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