# TRIMO MARCHITECTURAL SOLUTIONS

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# COMPANY PROFILE





50+
YEARS OF EXPERIENCE

MORE THAN

50 MILLION M<sup>2</sup>
OF FACADES AND ROOFS PRODUCED

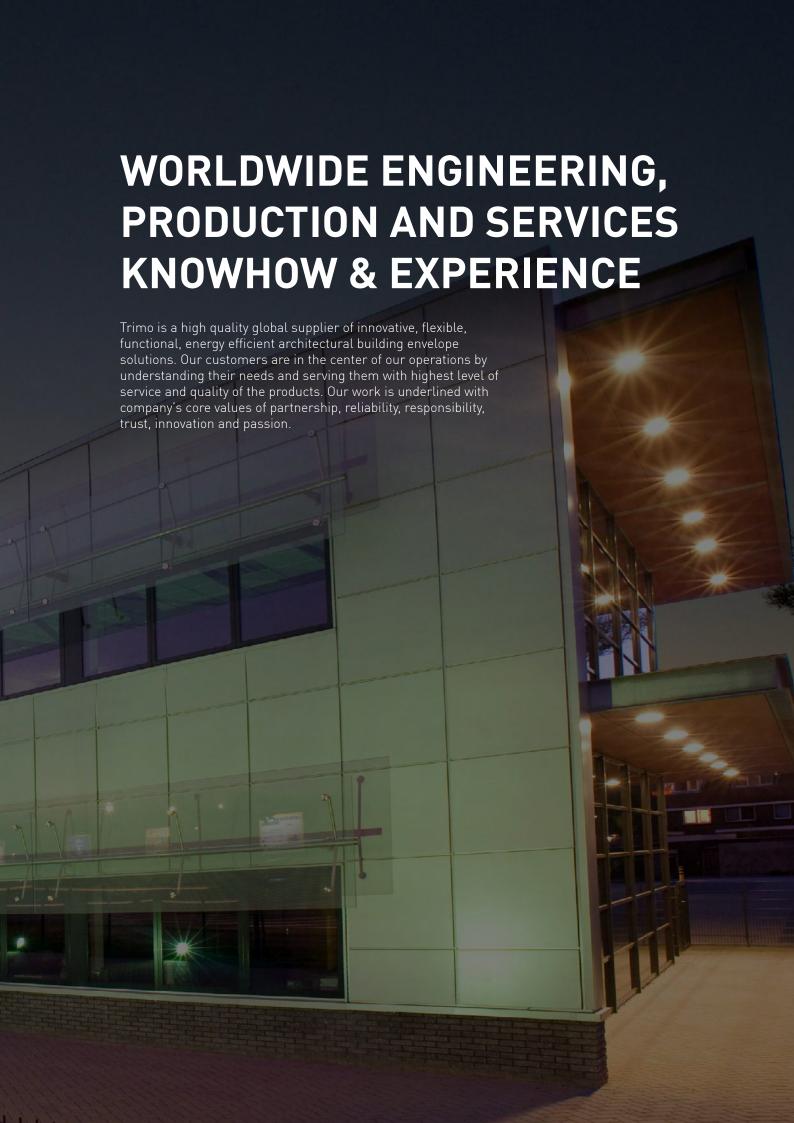
PROJECTS IN MORE THAN

100 COUNTRIES WORLDWIDE MORE THAN

20 000 CUSTOMERS & PARTNERS

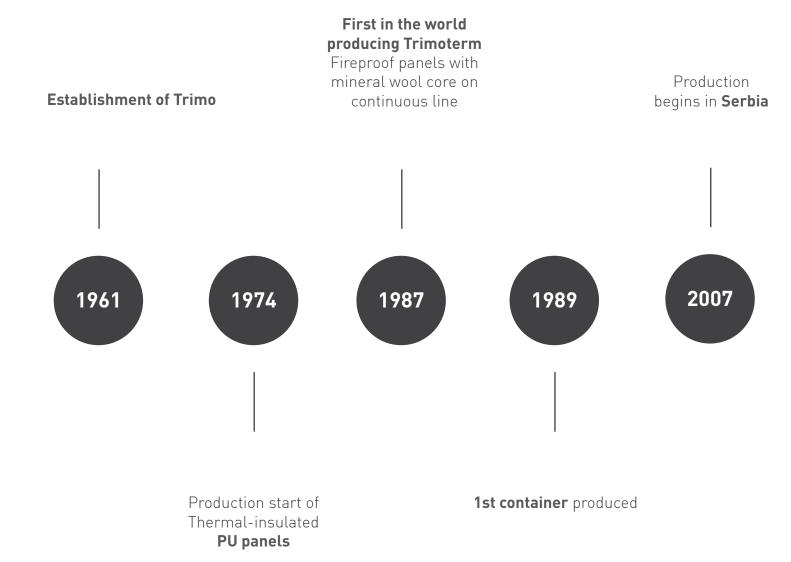
### CE MARKED & CERTIFIED





### **HISTORY**

### DEFINING MOMENTS IN THE HISTORY OF TRIMO GROUP





Innovative **Qbiss One**facade system
introduced to the
market

New **corporate identity** of Trimo Group

2008

2009

2010

2016

2019

Supply of façade panels for construction of the first **CO<sub>2</sub> neutral building** in the world

ArtMe unique facade design received "red dot" product design award

Global launch of **Qbiss Screen** - innovative metal rainscreen system

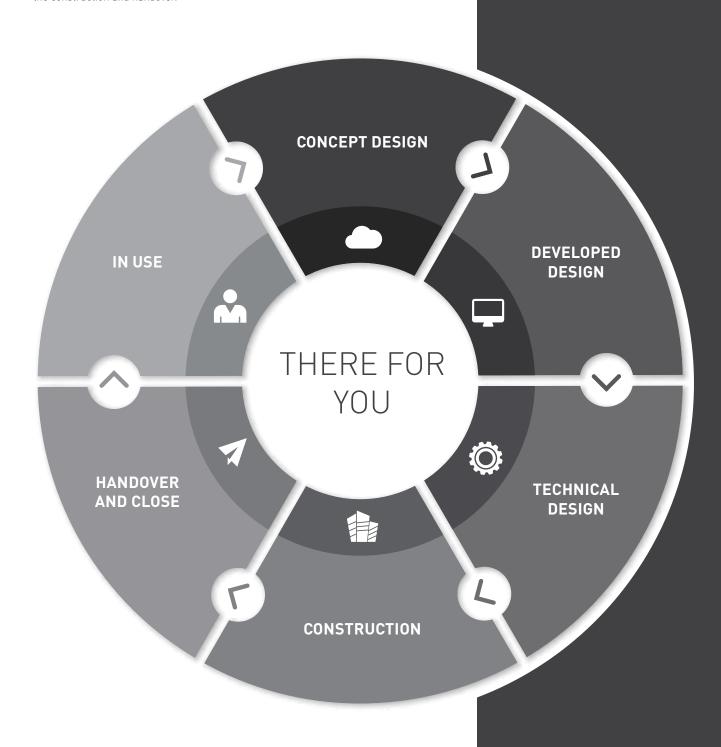






## TECHNICAL SUPPORT AND CONSULTING

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

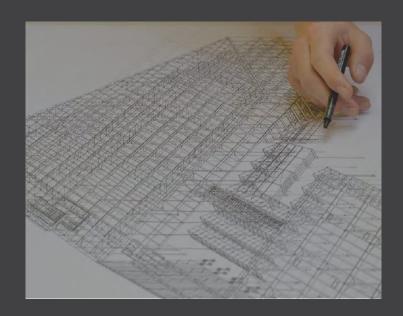


### **DESIGN**

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

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 individual and specific requirements.

Trimo provides a large range of architectural and engineering principle details for sandwich panel facades, walls and roofs as well as is known for giving a professional advice towards bespoke details and individual custom made solutions with a team of dedicated technical support and product development.



### BUILDING INFORMATION MODELLING - BIM

We have developed BIM libraries of our products for most sophisticated engineering software ArchiCAD and Revit in order to support and speed up the building design process

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



### **TECHNICAL SUPPORT**

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.

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 alongside the best facade 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

### LIMITLESS 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 louvers systems

### MAXIMUM SAFETY

- Class A1 non combustible mineral wool insulation core
- Hi-level insulation values up to 0.15 W/m<sup>2</sup>K
- Fire resistance: up to class E1120 minutes integrity and insulation
- Watertightness up to 1200 Pa
- Highest environmental credentials and A+ BREEAM rating
- Flexible coating guarantees up to 30 years and life time 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 variety of colours. Nonstandard colours are available upon request.

### SOLID COLOURS





Traffic Red



Anthracite



Light Silver



SPECIAL METALLIC





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





Seren Silver

Sirius Sparkle Orion Sparkle Zeus Sparkle





Black

STAINLESS STEEL\*\*











15

<sup>\*</sup>Colorcoat Prisma and Seren are trademarks of Tata Steel UK Limited
\*\*Stainless steel is a bespoke solution and shall be discussed with Trimo technical department on individual project basis from application and availability perspective.
Colours may slightly deviate due to different monitors and prints compared to original colours. On request we will send you real metal sample.

### **TYPICAL INSTALLATION DETAILS**



BASE DETAIL



TOP PARAPET DETAIL



WINDOW FIXED GLASS



WINDOW

### **CORNER ELEMENTS**



PREFORMED HORIZONTAL



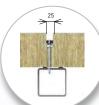
SHARP-EDGED CORNER FLASHING



ROUNDED CORNER



PREFORMED 3D CORNER







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

### The Qbiss One system's consists of:

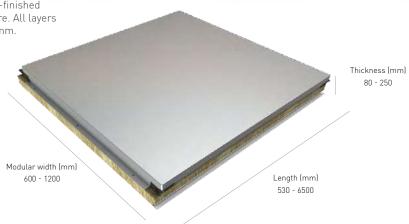
- Modular façade elements Fixing and sealing material
- Architectural performance details
- Corner elements
- Adjustable Sub-structure (optional)
- Windows (optional)



CURVED FAÇADE ELEMENT



FLAT FAÇADE ELEMENT



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

### **QBISS SCREEN**

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

**Extremely flat,** Qbiss Screen is also engineered to meet the **highest A2 non-combustibility fire classification** demands and can withstand high wind loads to larger spans as conventional rainscreen systems.

### HIGH QUALITY RAINSCREEN SYSTEM

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

### LIMITLESS DESIGN POSSIBILITIES

- Fully compatible with Qbiss One facade 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**

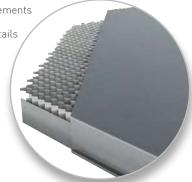
Qbiss One and Qbiss Screen are distinguished by the unique embossed corner of the element which results in superior aesthetics without any cuts, folds or welds.

### **QBISS SCREEN SYSTEM:**

Modular rainscreen façade elements Fixing and sealing material

Architectural performance details

Corner elements





### **JOINT OPTIONS**

Qbiss Screen system allows the **various combinations of recessed** and flush joints by horizontal and vertical installation.

### HORIZONTAL INSTALLATION







QBISS SCREEN HR F-B

### **VERTICAL INSTALLATION**

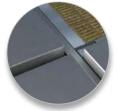


QBISS SCREEN HR B

### **TYPICAL INSTALLATION DETAILS**



TOP PARAPET DETAIL



JOINT DETAIL



DRIP DETAIL

### **CORNER ELEMENTS**



PREFORMED HORIZONTAL SHARP-EDGE CORNER

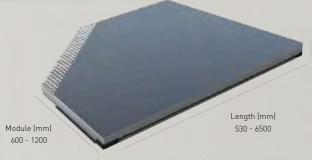


SHARP-EDGED CORNER FLASHING



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**

Trimoterm fireproof façade system is a high quality, versatile and environmentally friendly construction product where the highest demands of **fire resistance**, **sound reduction** and **thermal insulation** are required. It offers the perfect combination of functionality and durability, whilst also supporting true architectural expression.

Available with a complete system of matching components and meeting country- specific requirements and regulations Trimoterm is suitable for 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 food processing and pharmaceutical industry, power plants, oil&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 SAFFTY**

- 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 horizontal, vertical and segmental installation of panels.



TRIMOTERM FTV (STANDARD JOINT)

### TRIMOTERM FTV HL (HIDDEN JOINT)

The hidden joint system Trimoterm FTV HL offers a clean façade outlook with no visible fixings. Trimoterm panels with 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 HL



### **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 protection are applied to steel sheet metal based on:

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

Wide range of colour finishes are available for any building, which are engineered to capture the perfect look internally or externally of the building design.

### STANDARD COLOURS



### **PANEL PROFILES**

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



SMOOTH PROFILE (G)



S - PROFILE (S)



MICRO-LINED PROFILE (M)



V - PROFILE (V)

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

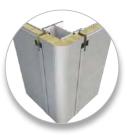
### **SYSTEM**

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

**Rounded** and **sharp edged pre-fabricated corners** from Trimo's pallet 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 by a combination of horizontally installed façade panels and a vertically installed corner.

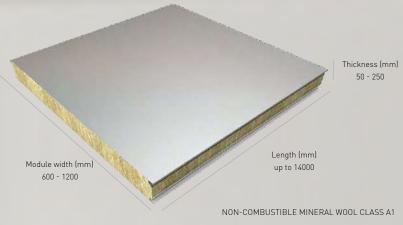


PRE-FORMED SHARP-EDGED CORNER



PRE-FORMED ROUNDED CORNER





NON-COMBUSTIBLE MINERAL WOOL CLASS AT FIRE RESISTANCE CLASS UP TO EI 240 U VALUE UP TO 0.15 W/m²K

### **ARTME**

ArtMe surface treatment that allows literally unlimited shapes, patterns and visual effects to be expressed on the facade 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 completed façade elements with pre-coated steel-sheet surfaces. Recognizing the importance of product performance, the original integrity and characteristics of the façade elements are preserved without compromise.



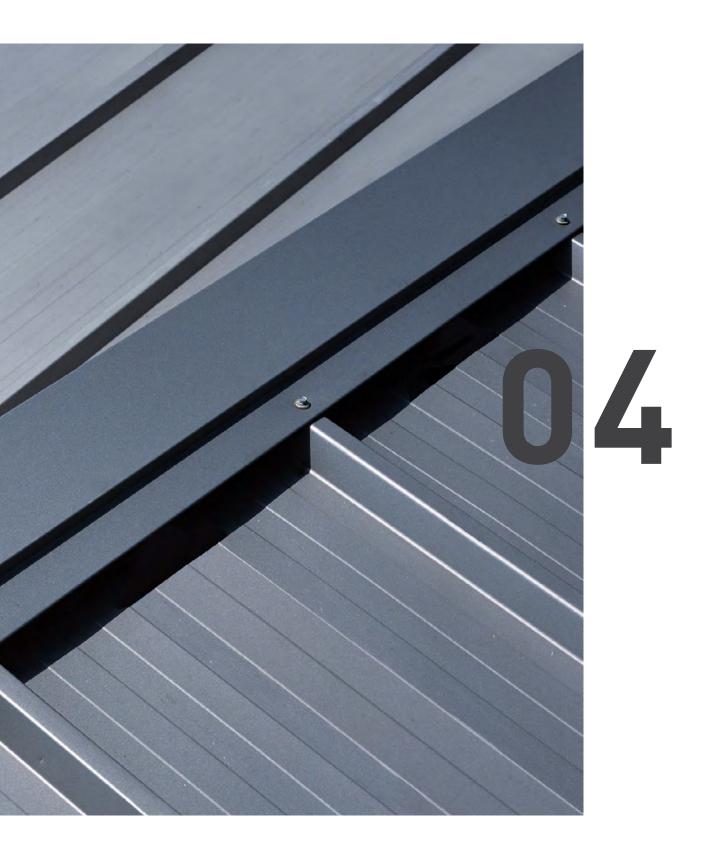


reddot design award



# ROOFS





# TRIMOTERM SNV (ROOF PANELS)

Trimoterm fireproof roofs are perfect solution for pitched roofs. Due to the excellent technical characteristics, a complete range of technical solutions & elements. Trimoterm roofing systems represents an excellent product for protection from weather and climate influence.

### FIRE RESISTANCE

• Excellent fire resistance of up to 180 min

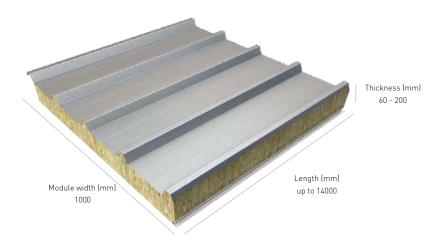
### TOP STRUCTURAL PERFORMANCE

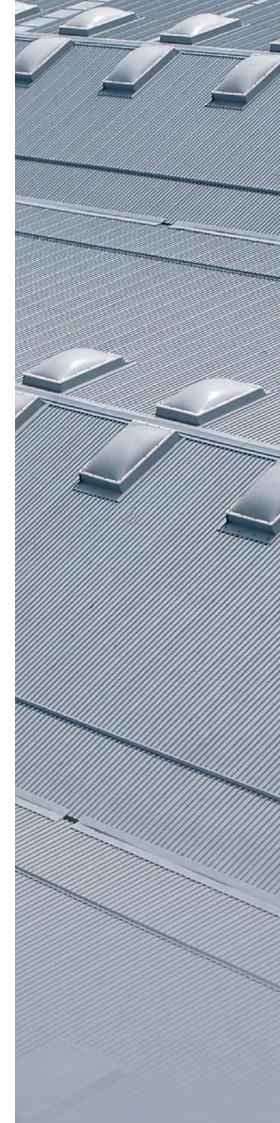
### QUALITY

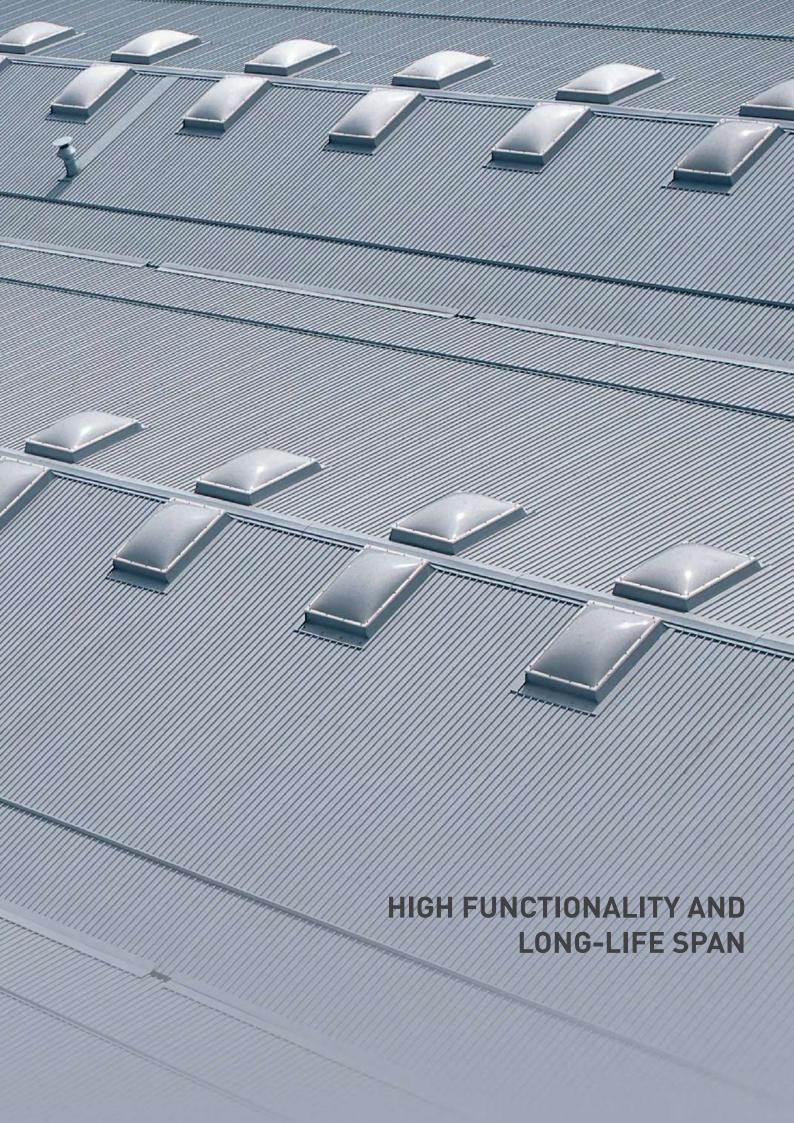
• Outstanding quality and functional solutions with a long-life span

### **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 investors as **temporary or permanent**, **easy to set up and efficient** accommodations, offices, showrooms, hotels, schools and kindergartens, infrastructure buildings, etc.

Trimo modular units are efficient, innovative and sustainable; made of natural materials and almost 100% recyclable. Modular units can be shipped assembled or to keep transport cost to a minimum, supplied flat-packed for on-site installation with just the minimum of tools. Units can also be easily disassembled after use and transferred to a new location.

#### PROVEN QUALITY

• 25+ years of experience

#### FLEXIBLE IN 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

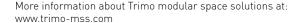
 Wall panels are El Fire resistance class certified (El 30 – El 240)

#### 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

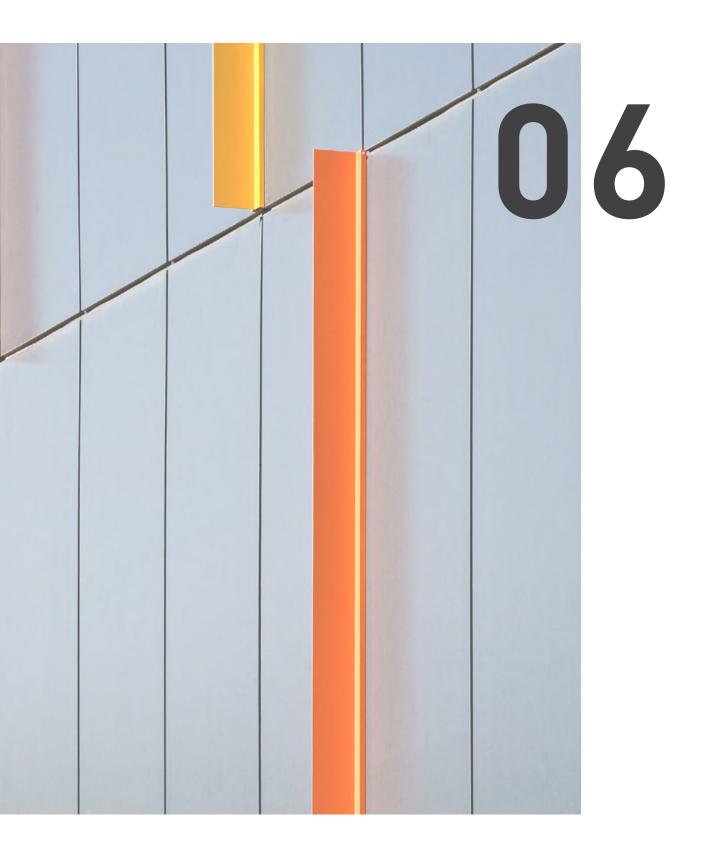






# FIXING AND DECORATIVE ELEMENTS





# **STUNNING FINISHES**

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

### FIXING ELEMENTS





HF 102 - OMEGA PROFILE



HF140 - DECORATIVE OMEGA PROFILE

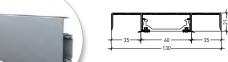


HF6 - DECORATIVE OMEGA PROFILE



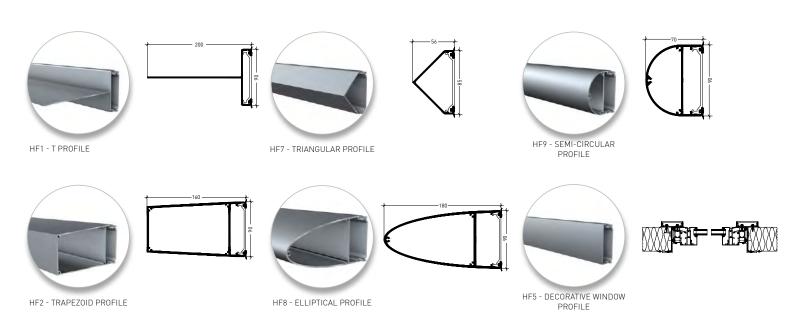
HF4 - DECORATIVE OMEGA PROFILE

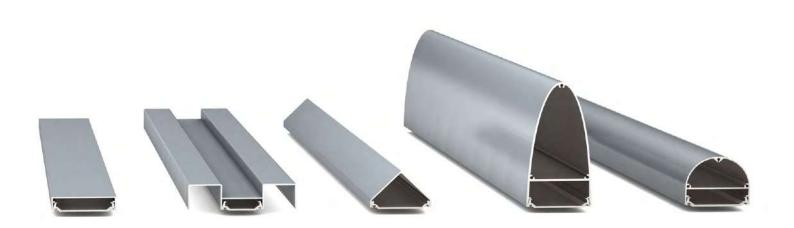




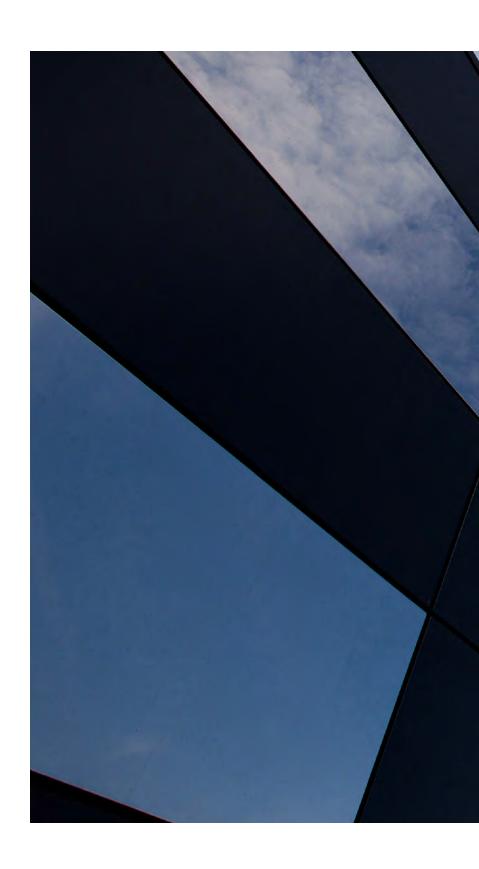


# **DECORATIVE ELEMENTS**





# **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 lower vs PIR/PUR insulation
- Does not absorb water
- Keeps the thermal and structural performance over lifetime
- Does not provide environment conditions for bacteria growth and rodent animals thus suitable also for construction in food & pharmaceutical industry, 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 galvanized (Zn, ZnMg, ZnAl)

#### **PAINT COATING TYPES**

- Standard polyester paint SP 25 micron (suitable for C2-C3 corrosion climate environment)
- Polyvinyl den fluorid 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 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 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 high levels of pollution
C 5 Very High M	Coastal area with high salinity	

# WORLDWIDE REALIZED PROJECTS





# MCLAREN PRODUCTION CENTRE



#### LOCATION

UNITED KINGDOM

#### YEAR OF COMPLETION

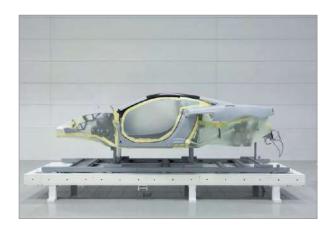
2011

#### ARCHITECT

FOSTER + PARTNERS

#### PRODUCT

QBISS ONE







# PORSCHE CAR SHOWROOM







SWITZERLAND

YEAR OF COMPLETION

2017

**ARCHITECT** 

GOLDBECK RHOMBERG AG

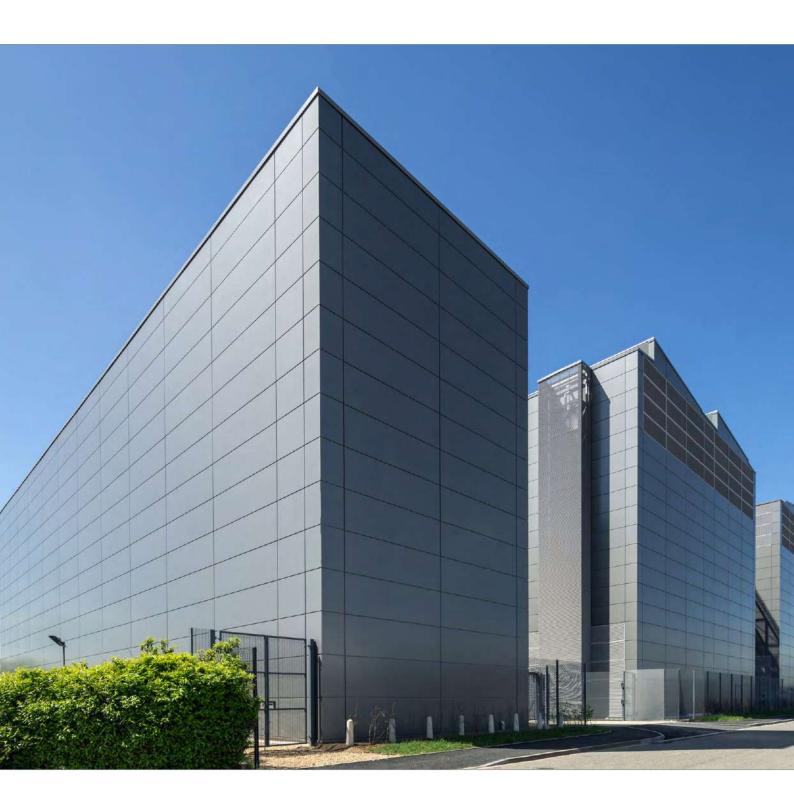
**PRODUCT** 

QBISS ONE





# EQUINIX LD6 DATA CENTRE







#### LOCATION

UNITED KINGDOM

**YEAR OF COMPLETION** 2015

ARCHITECT

ARUP ASSOCIATES

PRODUCT

QBISS ONE

# COMMERCIAL CENTRE MANGO









LOCATION SPAIN

YEAR OF COMPLETION 2015

ARCHITECT GCA ARQUITECTURA

**PRODUCT** QBISS ONE

# COMMERCIAL CENTRE HOME









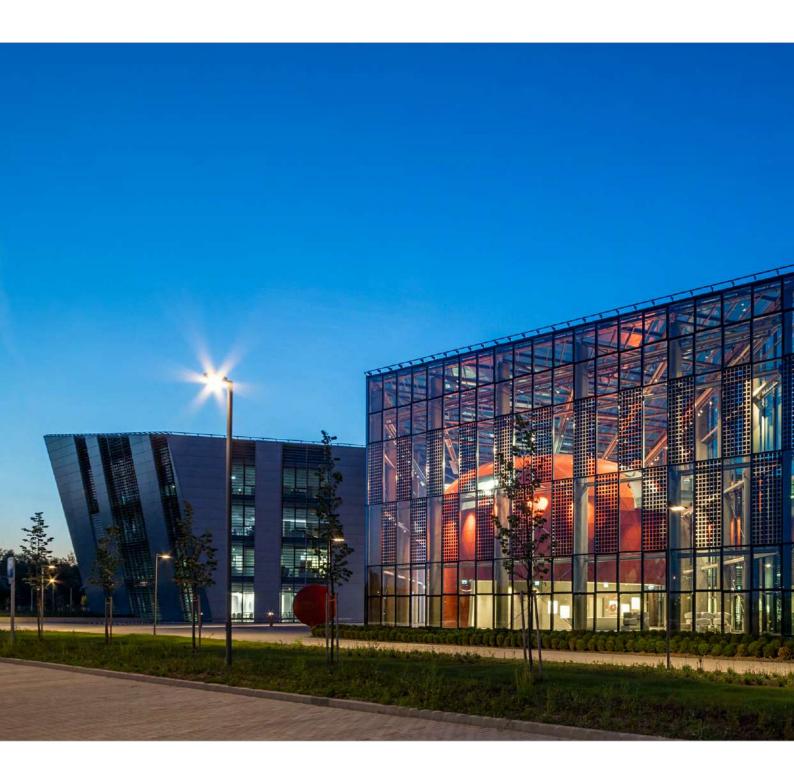
**LOCATION**UNITED KINGDOM

**YEAR OF COMPLETION** 2015

**ARCHITECT**MECANOO ARCHITECTEN B.V.

**PRODUCT**QBISS ONE

# RESEARCH INSTITUTE ELI-ALPS





LOCATION HUNGARY

YEAR OF COMPLETION

2017

PRODUCT
QBISS ONE



# ORTERER GRUPPE LOGISTIC CENTRE





#### **LOCATION**

GERMANY

YEAR OF COMPLETION

2016

ARCHITECT

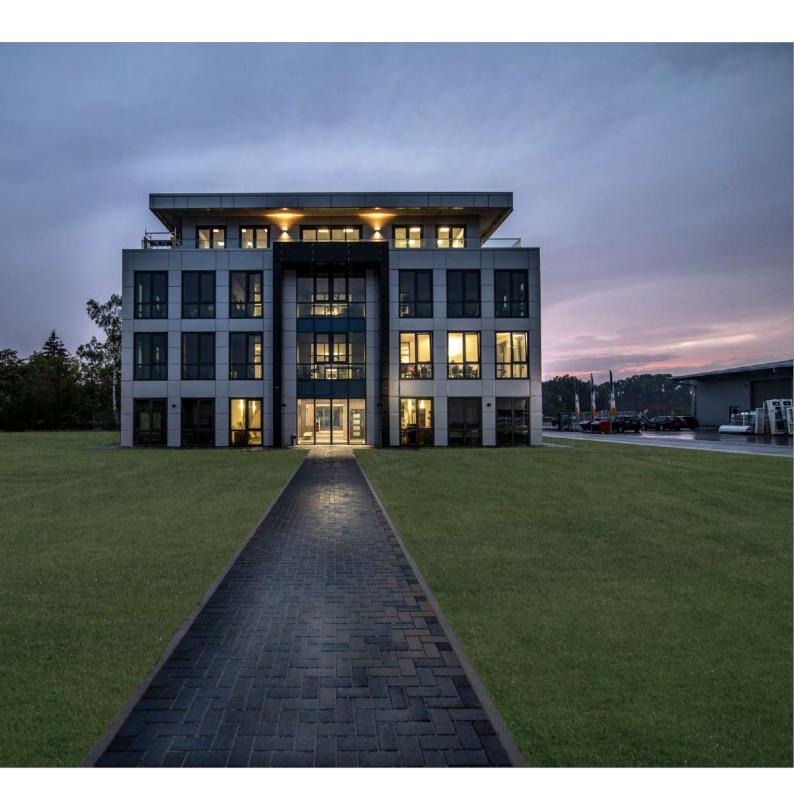
KEHRBACH PLANWERK

PRODUCT

QBISS ONE



# HEADQUARTERS HEKA HERZOG







**LOCATION**GERMANY

**YEAR OF COMPLETION** 2018

PRODUCT
QBISS ONE

#### PARTYRENT LOGISTIC CENTRE









**LOCATION** GERMANY

**YEAR OF COMPLETION** 2013

**ARCHITECT**JAROSCH ARCHITEKTUR DARMSTADT

**PRODUCT**QBISS ONE

#### **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

#### **GLOBAL PRESENCE**

Find your local contact



#### **DOWNLOADS**

#### BROCHURES

- Facade systems
- Roof systems
- Genera



#### **DESIGN TOOLS**

- CAD details
- BIM product libraries



#### TECHNICAL DOCUMENTS

- Facade systems
- Roof systems
- Structural performance



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