

# TRI MO TRIMOTERM

**m** **59**  
ÜZLETTİ PARK

TRIMOTERM FIREPROOF PANELS



<b>1</b>	<b>TRIMOTERM FIREPROOF PANELS</b>
2	Trimoterm Power
6	Trimoterm Perform
10	Trimoterm Sound
<b>13</b>	<b>TYPES OF TRIMOTERM PANELS AND PANEL PROFILES</b>
14	Types of Trimoterm panels
16	Trimoterm panel profiles
<b>19</b>	<b>FIXING AND DECORATIVE ELEMENTS FOR TRIMOTERM FAÇADE PANELS</b>
20	Fixing and decorative elements for Trimoterm façade panels

## TRIMOTERM FIREPROOF PANELS

The Trimoterm fireproof façade and roof 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**. With strong **fire resistance**, excellent **thermal** and **sound insulation**, as well as excellent **hygienic characteristics**, Trimoterm panels can also be successfully used in the most demanding environments, such as in the energy production and food-processing sectors as well as in the pharmaceutical industry.

### Advantages:

- ✓ Outstanding quality
- ✓ Strong fire resistance up to 240 min
- ✓ Excellent thermal and sound isolation
- ✓ Market leading water resistance and air tightness performance
- ✓ Contribution to better LEED and DGNB rating
- ✓ Top structural performance
- ✓ Design flexibility
- ✓ Worldwide realised projects and certificates
- ✓ Excellent customer service

### Product range:

#### **Trimoterm Power**

Façade and roof system with supreme thermal insulation and structural spanning capabilities

#### **Trimoterm Perform**

Versatile, robust and compact façade and roof system

#### **Trimoterm Sound**

Façade system with exceptional protection against noise hazards

# TRIMOTERM POWER

- ✓ Supreme thermal insulation
- ✓ Structural superiority
- ✓ Up to 100% faster installation
- ✓ Cost and energy savings
- ✓ Stable indoor climate and air quality

## TRIMOTERM POWER T

Trimoterm Power T façade and roof system guarantees extremely high thermal insulation, stable indoor climate, air quality and energy savings through reduced heat loss and lower running costs even in most demanding climate environments.

### TECHNICAL PROPERTIES

#### FAÇADE PANELS

Panel thickness (mm)	60	80	100	120	133	150	172	200	240
Weight FTV (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	14,40	16,20	18,00	19,80	21,00	22,50	24,50	27,00	30,60
Weight FTV HL (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	14,60	16,40	18,20	20,00	21,20	22,70	24,70	27,20	30,80
Max. achievable fire resistance FTV (EN 14509)*	-			up to EI120			up to EI180		
Max. achievable fire resistance FTV HL(EN 14509)*	-	up to EI30	up to EI60	up to EI120	up to EI180	up to EI240			
U Thermal transmittance [W/m <sup>2</sup> k] **	0,60	0,46	0,37	0,31	0,28	0,25	0,22	0,19	0,16
Airborne sound insulation Rw (C;Ctr) dB (EN 14509)	N/A	N/A	N/A	30 [-1;-3]					
Combustibility of material core (EN 13501-1)	Mineral wool non combustible Class A1								
Water permeability (EN 14509)	Class A (1200Pa)								



Cert. No. 650a to LPS 1208  
Cert. No. 650b to LPS 1181  
Cert. No. 650d to LPS 1181



#### ROOF PANELS

Panel thickness (mm)	60	80	100	120	150	172	200
Weight SNV (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	15,70	17,50	19,30	21,10	23,90	25,90	28,40
Max. achievable fire resistance SNV (EN 14509)*	-	up to REI30	up to REI120				
U Thermal transmittance W/m <sup>2</sup> k (EN 14509)	0,59	0,45	0,37	0,31	0,25	0,22	0,19
Airborne sound insulation Rw (C;Ctr) dB (EN 14509)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Combustibility of material core (EN 13501-1)	Mineral wool non combustible Class A1						
Water permeability (EN 14509)	Class B (900Pa)						



Cert. No. 650a to LPS 1208  
Cert. No. 650b to LPS 1181



\*REQUEST FOR FIRE RESISTANCE MUST BE CLEARLY SPECIFIED BY CUSTOMER.  
EXACT FIRE RATING WITH REGARDS TO SYSTEM, ORIENTATION AND SPAN CAN BE FOUND UNDER THE CERTIFICATION SUBPAGE ON TRIMO WEB PAGE: <https://www.trimo-group.com/en/downloads/certificates-and-data-sheets/certificates>  
\*\* VALUES VALID ONLY FOR FEATURED APPLICATION IN THE CENTRE OF PANEL

# TRIMOTERM POWER S

Trimoterm Power S façade system ensures higher structural spanning capabilities, while also achieving superior strength that is capable of withstanding high wind loads. Trimoterm Power S also enables up to 100% faster installation and durable performance.

## TECHNICAL PROPERTIES

### FAÇADE PANELS

Panel thickness (mm)	50	60	80	100	120	133	150	172	200	240
Weight FTV (Fe 0,55/0,5) [kg/m²]	16,10	17,30	19,70	22,10	24,50	26,10	28,10	30,80	34,20	39,00
Weight FTV HL (Fe 0,55/0,5) [kg/m²]	16,30	17,50	20,00	22,40	24,80	26,30	28,40	31,10	34,40	39,20
Max. achievable fire resistance FTV (EN 14509)*	-	up to EI 30	up to EI 60	up to EI120			up to EI180			
Max. achievable fire resistance FTV HL (EN 14509)*	-	up to EI 30	up to EI 60	up to EI120			up to EI180	up to EI240		
U Thermal transmittance W/m²k**	0,77	0,65	0,50	0,41	0,34	0,31	0,28	0,24	0,21	0,17
Airborne sound insulation Rw (C;Ctr) dB (EN 14509)	N/A	30 [-2;-3]	31 [-2;-3]	32 [-1;-3]			32 [-1;-2]			
Combustibility of material core (EN 13501-1)	Mineral wool non combustible Class A1									
Water permeability (EN 14509)	Class A (1200Pa)									



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# TRIMOTERM PERFORM

- ✓ Supreme performance
- ✓ Versatile applications
- ✓ Long-life
- ✓ Special project requirements fulfilment

# TRIMOTERM PERFORM R

Trimoterm Perform R is a high-quality façade and roof system that can be fitted to almost any building and is suitable for internal and external applications.

## TECHNICAL PROPERTIES

### FAÇADE PANELS

Panel thickness (mm)	60	80	100	120	133	150	172	200	240
Weight FTV (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	15,00	17,00	19,00	21,00	22,30	24,00	26,20	29,00	33,00
Weight FTV HL (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	15,20	17,20	19,20	21,20	22,50	24,20	26,40	29,20	33,20
Max. achievable fire resistance FTV (EN 14509)*	-	up to EI30	up to EI120			up to EI180		up to EI240	
Max. achievable fire resistance FTV HL (EN 14509)*	-	up to EI60	up to EI120			up to EI180		up to EI240	
U Thermal transmittance W/m <sup>2</sup> **	0,63	0,48	0,39	0,33	0,30	0,26	0,23	0,20	0,17
Airborne sound insulation Rw (C;Ctr) dB (EN 14509)	30 [-2;-3]	31 [-2;-3]	32 [-1;-3]			32 [-1;-2]			
Combustibility of material core (EN 13501-1)	Mineral wool non combustible Class A1								
Water permeability (EN 14509)	Class A (1200Pa)								



Cert. No. 650a to LPS 1208  
Cert. No. 650b to LPS 1181  
Cert. No. 650d to LPS 1181

### ROOF PANELS

Panel thickness mm	60	80	100	120	150	172	200
Weight SNV (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	16,30	18,30	20,30	22,30	25,30	27,60	30,30
REI Fire resistance (EN 14509)*	-	up to REI30	up to REI120				
U Thermal transmittance W/m <sup>2</sup> **	0,62	0,47	0,39	0,32	0,26	0,23	0,20
Airborne sound insulation Rw (C;Ctr) dB (EN 14509)	32 [-1;-4]		33 [-1;-4]				
Combustibility of material core (EN 13501-1)	Mineral wool non combustible Class A1						
Water permeability (EN 14509)	Class B (900Pa)						



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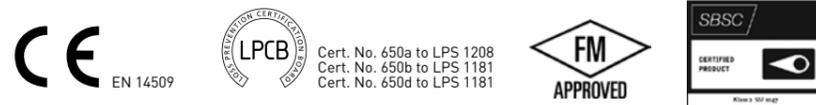
# TRIMOTERM PERFORM C

Trimoterm Perform C is versatile, robust and compact façade and roof system where building safety and longevity are paramount. Furthermore, Trimoterm Perform C is made of carefully selected materials to meet highest national demands of different markets.

## TECHNICAL PROPERTIES

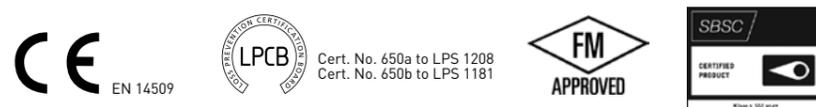
### FAÇADE PANELS

Panel thickness (mm)	50	60	80	100	120	133	150	172	200	240
Weight FTV (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	14,90	16,10	18,50	20,90	23,30	24,90	27,00	29,70	33,00	37,80
Weight FTV HL (Fe 0,55/0,5) [kg/m <sup>2</sup> ]	15,10	16,30	18,70	21,10	23,50	25,10	27,10	29,80	33,20	38,00
Max. achievable fire resistance FTV (EN 14509)*	-	up to EI30	up to EI60	up to EI120			up to EI180		up to EI240	
EI Fire resistance FTV HL (EN 14509)*	N/A	up to EI30	up to EI60	up to EI120			up to EI180		up to EI240	
U Thermal transmittance W/m <sup>2</sup> k (EN 14509)**	0,75	0,64	0,49	0,40	0,33	0,30	0,27	0,24	0,20	0,17
Airborne sound insulation Rw (C;Ctr) dB (EN 14509)	N/A	30 [-2;-3]	31 [-2;-3]	32 [-1;-2]			32 [-1;-3]			
Combustibility of material core (EN 13501-1)	Mineral wool non combustible Class A1									
Water permeability (EN 14509)	Class A (1200Pa)									

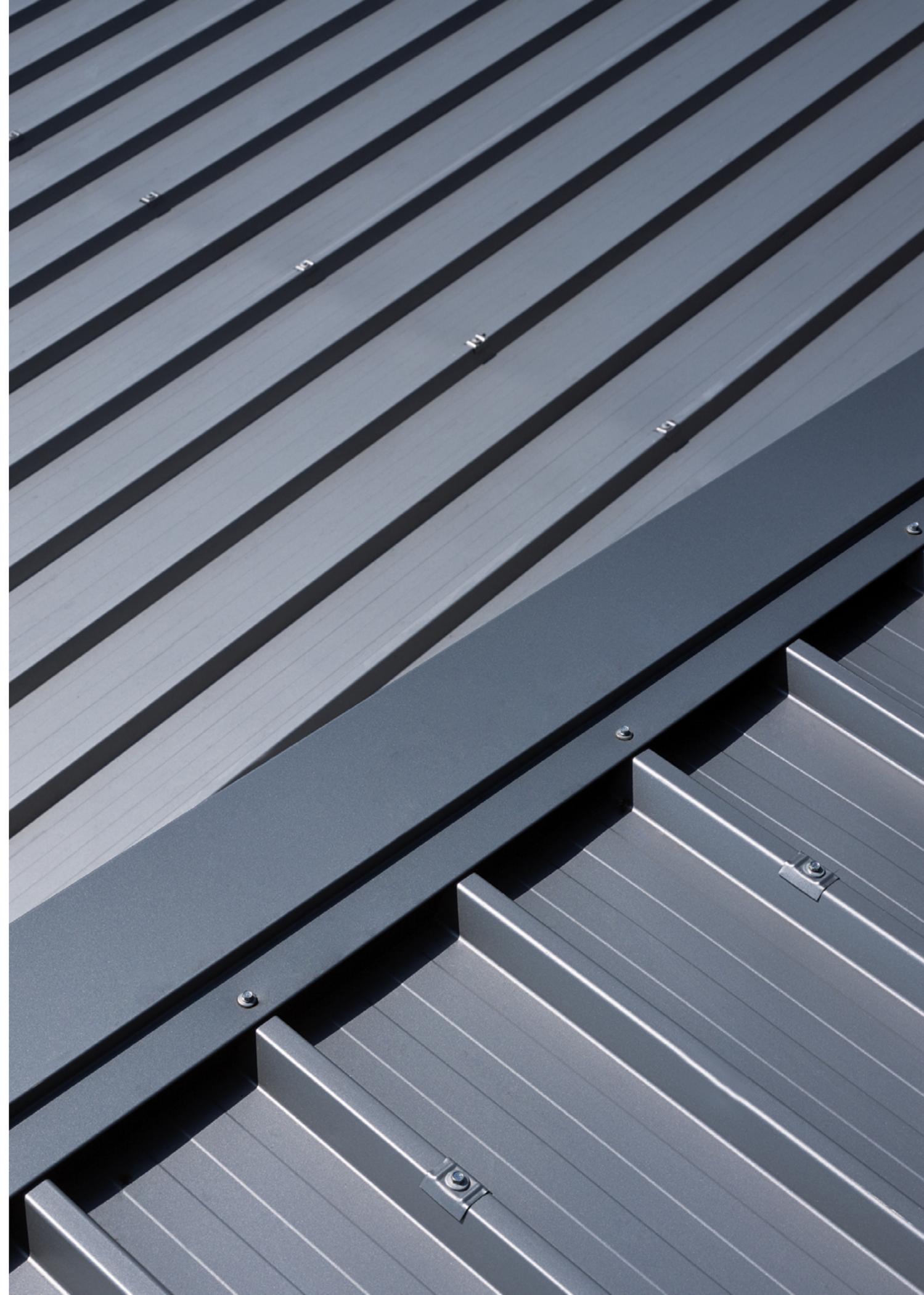


### ROOF PANELS

Panel thickness mm	60	80	100	120	150	172	200
Mass kg/m <sup>2</sup> SNV	17,50	19,90	22,30	24,70	28,30	31,00	34,30
REI Fire resistance (EN 14509)*		up to REI60	up to REI120		up to REI180		
U Thermal transmittance W/m <sup>2</sup> k (EN 14509)	0,63	0,48	0,40	0,33	0,27	0,24	0,20
Rw Airborne sound insulation (C;Ctr) dB (EN 14509)	32 [-1; -4]		33 [-1; -4]				
Combustibility of insulant core (EN 13501-1)	Mineral wool non combustible Class A1						
Water permeability (EN 14509)	Class B (900Pa)						



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# TRIMOTERM SOUND

- ✓ Excellent sound absorption
- ✓ Pleasant living and working environment
- ✓ Meets the highest sound insulation requirements
- ✓ Simple and fast installation



## TRIMOTERM SOUND

Trimoterm Sound panels offer exceptional protection against noise hazards as well as contributing to the well-being of everyone within the surrounding environment. Trimoterm Sound panel's excellent sound absorbing characteristics are in addition to the standard characteristics of the Trimoterm panels.

### TECHNICAL PROPERTIES

#### FAÇADE PANELS

Panel thickness (mm)	60	80	100	120	133	150	172	200	240
Airborne sound insulation $R_w$ (C;Ctr) (dB) EN 14509	30 [-2; -3]	31 [-2; -3]		32 [-1; -3]				32 [-1; -2]	
Sound absorption dB (EN 14509)	$\alpha_w = 0,85$								

Technical properties of the panels are defined in technical specifications of Trimoterm Perform R.

#### ROOF PANELS

Panel thickness (mm)	60	80	100	120	150	172	200
Airborne sound insulation $R_w$ (C;Ctr) (dB) EN 14509		32 [-1; -4]			33 [-1; -4]		
Sound absorption dB (EN 14509)	$\alpha_w = 0,85$						

Technical properties of the panels are defined in technical specifications of Trimoterm Perform R.



## TYPES OF TRIMOTERM PANELS AND PANEL PROFILES

The Trimoterm façade system is enhanced by the availability of different panel types for walls and roofs with standard or hidden joints. Numerous panel profiles are also available extending its applications and design possibilities to meet the individual needs of every architectural project.

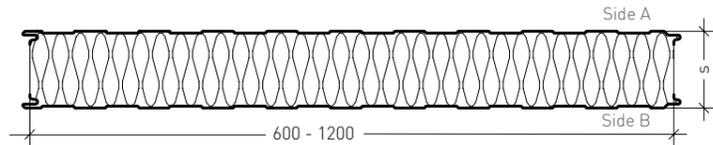
# TYPES OF TRIMOTERM PANELS

The availability of the widest range of Trimoterm panels makes possible the most aesthetic architectural creations, whilst its excellent technical characteristics, facilitate true creative freedom for customised building design for any type of building.

## TRIMOTERM FAÇADE PANELS WITH STANDARD JOINT (FTV)



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

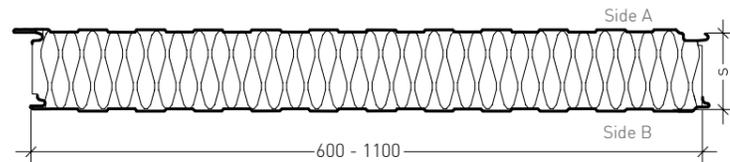


Panel lengths range up to 14 m.  
Standard panel widths are 1000 and 1200 mm.  
Non-standard panel widths can be made by special request.

## TRIMOTERM FAÇADE PANELS WITH HIDDEN JOINT (FTV HL)

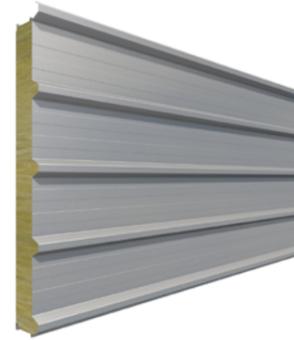


The hidden joint system (FTV HL) offers a clean façade outlook with no visible fixings. Trimoterm panels with hidden joint are mainly intended for vertical installation, but under certain conditions and with limitations, can also be used for various horizontal cladding applications.

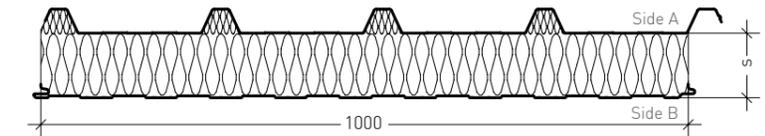


Panel lengths range up to 14 m.  
Standard panel width is 1000 mm.  
Non-standard panel widths can be made by special request.

## TRIMOTERM ROOF PANELS (SNV)

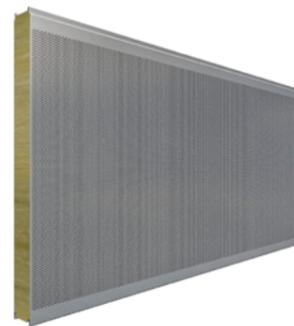


Trimoterm fireproof roof panels are the perfect solution for roofs with inclines. Due to the excellent technical characteristics and complete range of technical solutions and elements, Trimoterm roofing systems enable active and creative adaptations to all demands on buildings. Their versatility makes them suitable for installation as façades, partition walls and ceilings.



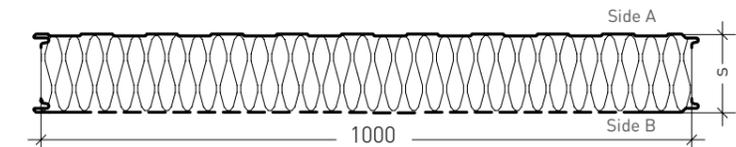
Panel lengths range up to 14 m.  
Standard panel width is 1000 mm.

## TRIMOTERM SOUND PANELS (FTV, FTV HL, SNV)

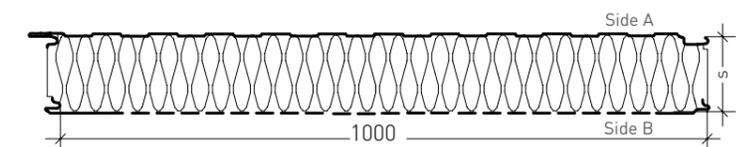


Trimoterm sound panels are used as sound absorbing panels for sound damping in internal applications only. They can be erected as cladding of sound-absorbing cabins, as partition walls and additional cladding on façades and roofs.

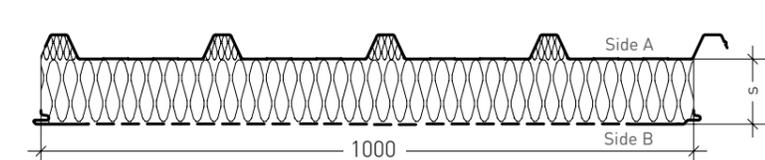
### FTV



### FTV HL



### SNV



Panel lengths range up to 14 m.  
Standard panel width is 1000 mm.

# TRIMOTERM PANEL PROFILES

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

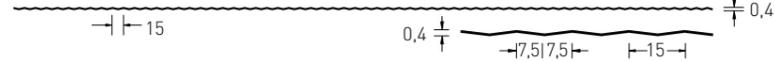
## PROFILE TYPES



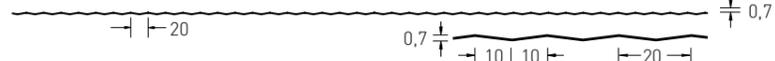
SMOOTH PROFILE (G)



MICRO-LINED PROFILE (M)



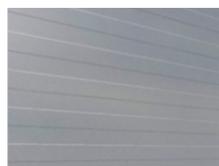
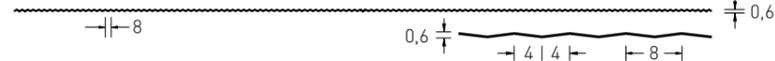
MICRO-LINED PROFILE (M2)



MICRO-LINED PROFILE (M3)



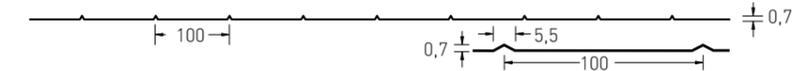
MICRO-LINED PROFILE (M8)



S - PROFILE (S)



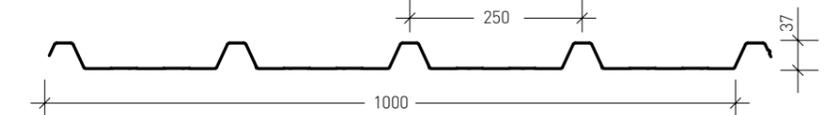
V - PROFILE (V)



V - PROFILE (V2)



TRAPEZOID PROFILE



## FAÇADE PANELS (FTV)

PROFILE TYPE	A	B
S - profile (S)	✓	✓
V - profile (V, V2)	✓	✓
Smooth profile (G)	✓	✓
Micro-lined profile (M, M3, M8)	✓	✓
Micro-lined profile (M2)		✓
S - profile (perforated)		✓

## FAÇADE PANELS (FTV HL)

PROFILE TYPE	A	B
S - profile (S)	✓	✓
V - profile (V, V2)	✓	✓
Smooth profile (G)	✓	✓
Micro-lined profile (M, M3, M8)	✓	
Micro-lined profile (M2)		✓
S - profile (perforated)		✓

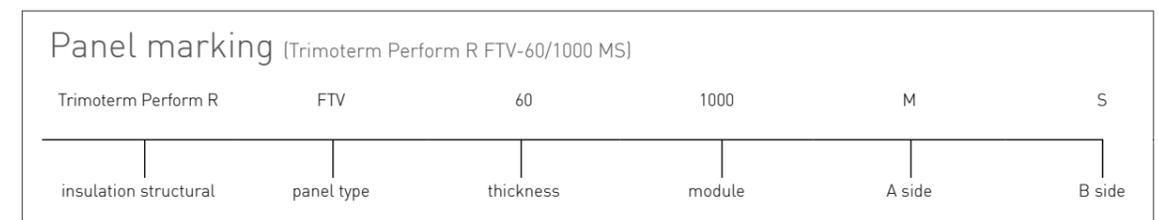
## ROOF PANELS (SNV)

PROFILE TYPE	A	B
Trapezoid profile	✓	
S - profile (S)		✓
V - profile (V)		✓
Smooth profile (G)		✓
Micro-lined profile (M2)		✓
S - profile (perforated)		✓

External side of a panel is side A and internal side of panel side B.

Also, 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 an optimal smooth surface for building façades external side of the panel 0,7 mm steel sheet thickness must be used in lieu of standard 0,55 mm.



A photograph of a modern building facade at dusk. The building features a dark, metallic-looking panel system. Two large, illuminated 'KJG' signs are mounted on the facade, glowing against the dark sky. The building has a flat roof and a series of windows on the left side. The foreground shows a paved area and some landscaping.

KJG KJG

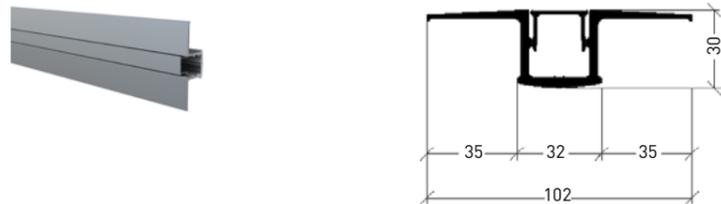
## FIXING AND DECORATIVE ELEMENTS FOR TRIMOTERM FAÇADE PANELS

An extensive selection of different panel and profile types combined with various decorative elements results in almost limitless design possibilities for any building type.

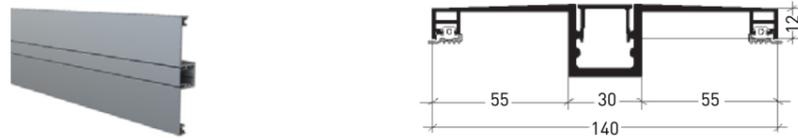
# FIXING AND DECORATIVE ELEMENTS FOR TRIMOTERM FAÇADE PANELS

Trimo decorative elements emphasise the selected façade line, cover visible panel joints and give the building a touch of superior attractiveness. You can choose from numerous different versions, manufactured from thin sheet metal and extruded and dyed aluminium, respectively.

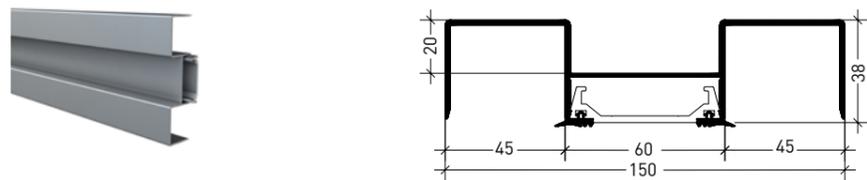
**HF 102 - OMEGA PROFILE**



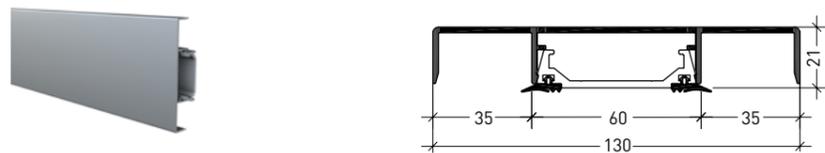
**HF140 - DECORATIVE OMEGA PROFILE**



**HF6 - DECORATIVE OMEGA PROFILE**



**HF4 - DECORATIVE OMEGA PROFILE**



**HF1 - T PROFILE**



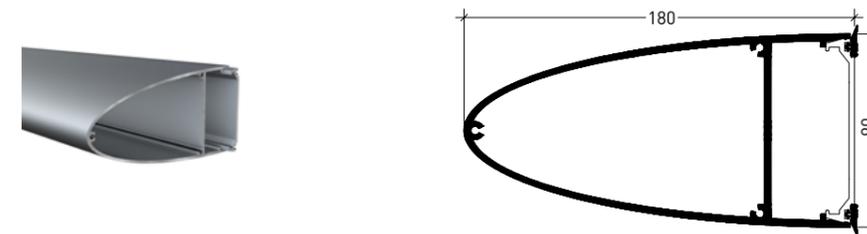
**HF2 - TRAPEZOID PROFILE**



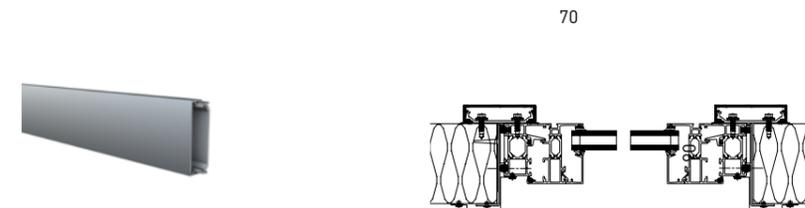
**HF7 - TRIANGULAR PROFILE**



**HF8 - ELLIPTICAL PROFILE**



**HF5 - DECORATIVE WINDOW PROFILE**



# COMPANY PROFILE

Trimo is a one of the leading European companies developing original and complete building envelope solutions in the areas of fire-proof façades and roofs.

Located in Trebnje, Slovenia, Trimo sells products and services under its own brand cross more than 100 countries worldwide and has a sales network in almost 30 countries. We are a reliable, trustworthy global supplier of innovative, flexible, energy-efficient and environmentally friendly architectural building solutions.

Our customers are at the heart of our operations as we deeply understand their needs and provide them with the highest level of service and product quality. The list of outstanding and reputable partners such as Airbus, London Heathrow, Nestle, Philips, DHL, Porsche, IKEA, Prologis, Mercedes Benz, Coca Cola and many others is a true reflection of our passion, responsibility and commitment to our work.



Mitglied des:  
**IFBS** Industrieverband  
für Bausysteme  
im Metalleichtbau

# TRIMO

## TRIMO D.O.O.

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