

The thoughts of architects C. F. Møller:

"The idea was to create an industrial building that would go beyond the typical standardized solutions for logistic facilities and create a building with a strong identity that would add an experiential quality to its surroundings. Fire safety is usually a limiting factor in the design of high-bay storage, but the use of Trimoterm fireproof panels enabled the entire façade to be clad with wooden slats to create an appearance completely different from standard industrial architecture.

There has been a strong focus on sustainability in the planning, using the British environmental standard BREEAM Industrial, including recycled materials in the construction process, flat large-scale green roofs, ... As a first for this type of building, it is rated Energy class 1 according to Danish codes."

REDUCE WASTE AND SAVE TIME BY QUICKLY INSTALLING A PREFABRICATED LOAD-BEARING BACKING-WALL SYSTEM

Trimoterm FTV product for Backing-wall insulated façade system with an extreme load-bearing capacity of up to 60 kg/m² is prefabricated in a controlled environment. BASE, as one component Backing-wall system ensures quick installation with fewer workers and reduces construction waste compared to Build-up systems.

SAVE MONEY BY CHANGING THE BUILDING APPEARANCE DURING OPERATING TIME

Trimoterm FTV product for Backing-wall insulated facade system enables completely compatible solution for various final cladding and ensures changing the building appearance during the operating time and save money in term of TCO.

WELL-BEING COMFORT AND SAFETY GUARANTEED

Trimoterm FTV product for Backing-wall insulated facade system provides a flat internal surface and stable climate with ultimate airtightness and watertightness, exceptional thermal transmittance, and guarantees the safety of people and goods with reaction to fire classification A2-s1, d0.

Unlimited choices of final claddings

The beauty of architecture is in the materials and details. BASE as Backing-wall insulated facade system solution is a canvas for architects, to design architecture with unlimited choices of final claddings. An average weight of the additional final cladding is in the range of up to 20 kg/m².

BE CUBIC

Qbiss Screen, Cassettes, Perforated Cassettes, ...

GO SQUARE

Brick, Tiles, Glass, ...

DO ORGANIC

Profiled Steel Sheet, Membrane, Mesh, ...

SO LINE

Wooden Slats, Metal Rails, ...

TRIMOTERM



BASE
BACKING-WALL

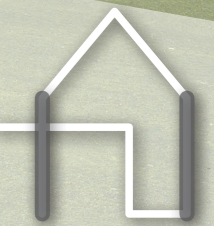
H
ORIZONTAL

Completely Compatible Solution For Various Final Cladding

Brand new BASE as Backing-wall Insulated Facade System solution guarantees true architectural expression as a main structural carrier wall for various final cladding.

The first fully tested mineral wool cored panel for Backing-wall system including optimized details design was done for the mechanical behavior in collaboration with the independent institutions; iS-engineering GmbH and Technische Universität Darmstadt, Germany - Institute for Steel Construction and Materials Mechanics for testing.

BASE, BACKING-WALL
INSULATED FACADE SYSTEM
TRIMOTERM FTV



Benefit without compromise

System Description

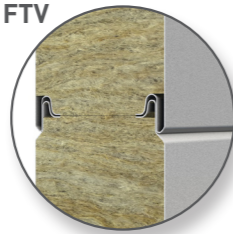
The BASE solution represents the so-called Backing-wall Insulated Façade System, which is made up of customized unique product formula of Trimoterm FTV panel. The robust single-span system works as a load-bearing wall, where an additional final cladding is fixed through the Omega Rails. The internal steel sheet of the panels remains intact, as the Omega Rails are fixed only on the external steel sheet. The system is flexible and modified for the building for horizontal or vertical installation. Contact us for bespoke custom-made product formula of Trimoterm FTV for your building at your location.

Product Specification

TRIMOTERM FTV panel



TRIMOTERM FTV longitudinal joint



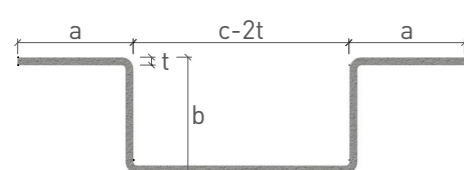
INSTALLATION	Horizontal	
COLOR RANGE	Bright, Medium, Dark	
COLOR PROTECTION	Northern Europe - Zone 1 Inland locations	Colorcoat Prisma
WARRANTY	Colorcoat Prisma	up to 25 years
UNIT DIMENSION	T (mm)	100-240
	M (mm)	1000-1200
	L (mm)	up to 6000
EXTERNAL STEEL SHEET	Thickness t (mm)	0.7
	Profile	G
INTERNAL STEEL SHEET	Thickness t (mm)	0.5-0.7
	Profile	G, S, V, V2, M2, M3
FEATURES	Mineral Wool core [EN 14509]	Power S
	Weight (kg/m ²)	22.1-39.0
	Reaction to fire	A2-s1, d0
	Fire resistance (i→o)	EI 120*
	Thermal transmittance U (W/m ² K)	as low as 0.17
	Airborne sound insulation R _w [C:C _{tr}] [dB]	up to 32 [-1;-2]
	Water permeability [EN 14509]	class A (1200Pa)
	Air permeability [EN 14509]	n=1.5: C=0.00005
	Burglary resistance class [EN 1627]	RC3
	Certificates	CE, LPCB, FM

*Valid for elements up to 6 m span (according to EN 1364-1) with secondary façade weight up to 30 kg/m².

OMEGA Rail

DIMENSION	min.	max.
a (mm)	30	AR*
b (mm)	30	AR*
c (mm)	60	AR*
t (mm)	2.0	6.0
l (mm)	M-20	3M-20

AR* as requested by project



Upper side

Slotted hole Ø 7 x 15

SLG 6.5x20 screws are fixed in slotted holes and carry the load from wind suction acting on the final cladding and transferred through these into the panel through the outer steel sheet. Each screw carries an equal load in the pull-out direction.

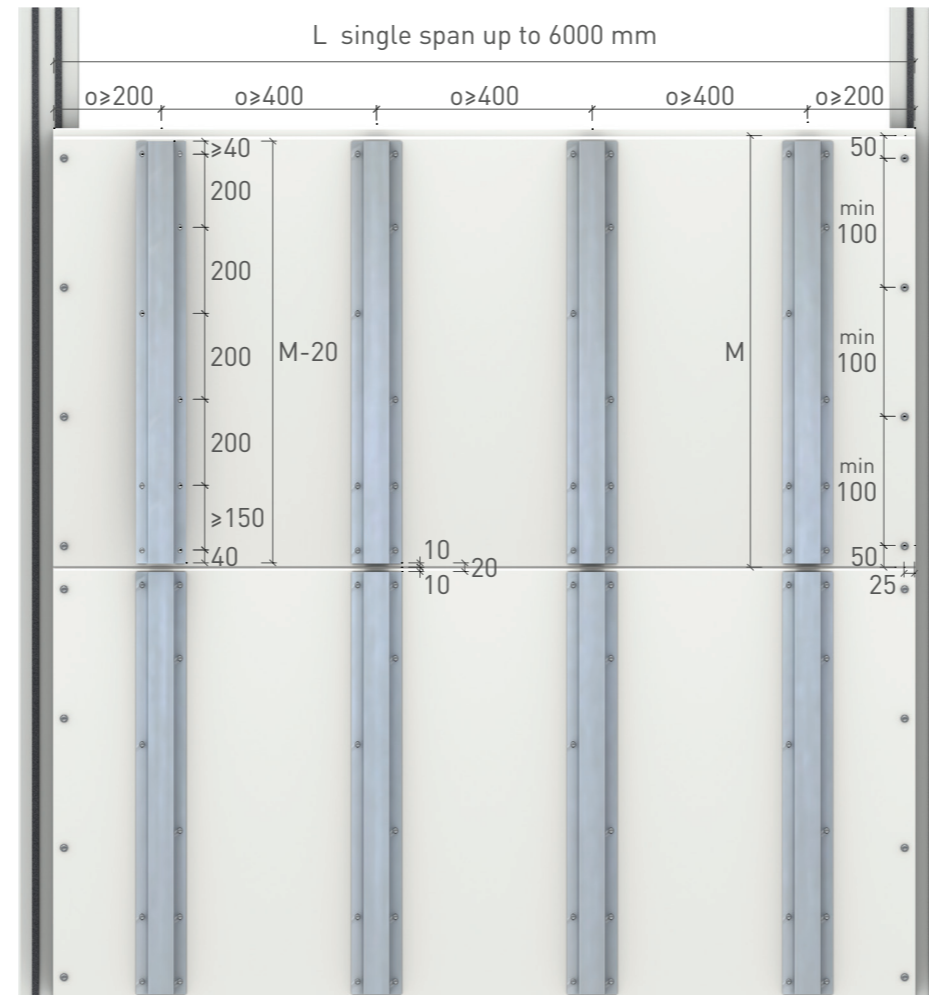
Round hole Ø 7

Two SLG 6.5x20 screws are fixed through round holes at the bottom of the Omega Rail and carry the effective weight of the final cladding including its own substructure.

Bottom side

System Components and Dimensioning Guidelines

- **Trimoterm FTV panel** is high-quality fireproof and sustainable product with 99% recyclability.
- **Fixing material** for panels has load-bearing capacity according to approvals for Trimoterm FTV (AbZ Nr. Z-10.49-624); for Omega Rails has load-bearing capacity according to testing and approval by iS-engineering GmbH in line with ETA - 10/0198.
- **Sealing material** continuously laid ensures airtightness and water tightness at the joints between the structure and the panel and between the panel and Omega Rail.
- **Steel sheet flashings** finalize details according to the Backing-wall insulated facade system.
- **Omega Rails** is substructure that carries the weight of the final cladding.



1 Omega Rail

2 Screw SLG 6.5x20

3 EPDM sealing tape

4 Screw SXC5 6.3xL

5 Sealing washer

6 PE sealing tape

OMEGA Rail Material

I. C3: hot-dip galvanized steel sheet (DX51D + Z275)

II. C4: I. + powder-coated

TRIMO

TRIMO D.O.O.
PRIJATELJEVA CESTA 12
8210 TREBNJE | SLOVENIJA
T: +386 (0)7 34 60 200
E: TRIMO@TRIMO-GROUP.COM
W: WWW.TRIMO-GROUP.COM



Architectural details
BACKING-WALL
Insulated
Facade System
Trimoterm FTV

Your Input is our Output

Trust the basic input data to our Trimo design team and we will provide you efficient product formula and customize the Trimoterm FTV product and Omega Rails to your needs for your building at your location.

Input data

Design wind load

Final cladding data



building location
building dimensions
cladding location
base wind speed
terrain category

size a x b x c
weight
gap distance
fixing method
substructure dimension
substructure material
temperature difference

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CONTACT US

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

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