ROMA INSULATION SYSTEMS

Architectural design

Quick-assembly insulating panel, type M, with concealed fixing

SO EVERYTHING FITS. ROMA

ROMA quick-assembly wall panel, type M
For the most demanding architectural standards

Our microprofiled insulating panels with concealed fixing are the high-tech product used in the most advanced façade designs. This ROMA sandwich panel element has precise profiling technology and evenly distributed foaming across the entire panel cross-section.

This means we produce a panel which has a smooth cladding with the subtle play of light and shadow on its surface. Despite its intricate profiling, the rugged metal cladding of the 1000mm panels have a high degree of stability and stiffness.

An exceptionally large selection of surface finishes and color schemes allow many different design ideas for the building exterior – in short: visually appealing architecture with an emphasis on efficiency.

Microprofiled ROMA panels with concealed fixing
for beautiful façade designs.

Your benefits:

- Smooth surface free of screw-heads due to concealed fixing
- Two high-grade steel cladding layers
- Excellent thermal insulation with rigid PIR foam core
- Various insulating thicknesses available
- Airtight, impermeable to driving rain, with joint technology having no thermal bridges
- Long-term corrosion protection
- Available in various lengths of up to 20m
- Can be laid horizontally or vertically
- Rapid and easy assembly without load distribution plate

*) Foam System ROMA5 based on organic waste (Bio-Naphtha). Mass Balance Technology monitored by TÜV Nord.

Assembly and joint technology

Double tongue-and-groove joint

Intelligent joint technology
You benefit twice from the ROMA, type-M, quick-assembly wall panel: Thanks to our innovative joint technology, construction elements can be assembled without using load distribution plates or pressing tools. This reduces craft hours in assembly – lowering your project costs.

A mature system in every detail
Elaborate construction physics go into our products so that the ROMA sandwich panel elements will be highly energy-efficient, yet ensure a very pleasant room climate. The basis for this is the double tongue-and-groove joint with a labyrinth effect and integrated sealing. The labyrinth effect means the joints are highly resistant to wind and driving rain and free of thermal bridges. Another clear advantage is our high-precision manufacturing: The rigid foam profiles are not milled until after they have completely cooled down.

Version with foundation

Horizontal and vertical laying

Efficient building construction with ROMA

We firmly believe that a streamlined, cost-efficient design should not come at the expense of architectural design. That is why our ROMA product development team systematically gears its quick-assembly insulating panels to meet modern architectural requirements.

Selected façade colors blend in with natural tones.

koeberl doeringer architects

Aesthetic façade design with ROMA quick-assembly insulating panels, type M.

A wide range of products gives you many design options

The many surface finishes give you complete creative freedom – with ROMA, there is almost no limit to what is possibile. In addition to our proven standard coatings, our panels can be custom-made in many unique styles, such as a wood or stone appearance or an attractive reflective surface. Top quality coating systems ensure that all surfaces are rugged and durable.

The creative possibilities are endless.

Four surface profiles are available:

M = microprofiled
L = profiled
E = smooth
W = w-profiled

Design M

Design E

Design L

Design W

A wide range of industrial building applications

Complete freedom for your ideas
ROMA sandwich panel elements with concealed fixing give you total design freedom. Our ROMA quick-assembly insulating panels accommodate a large number of construction methods. This means you are completely free to choose the load-bearing structure, doors, windows and wall penetrations you prefer. Our economic grid planning system, industry-proven panel lengths and wide distances between purlins mean you are free to choose any floor plan and building height. ROMA construction elements are highly versatile and can range from the smallest construction projects to many different types of building structures, all the way up to very large warehouses.

How you benefit
ROMA quick-assembly insulating panels give you many options in planning and implementing your project – thanks to our wide range of materials and extensive choice of colors. In addition, ROMA construction elements can be laid horizontally, vertically or diagonally.

No limits to what you can plan – with ROMA quick-assembly insulating panels

The Ice Crystal surface finish has captivating light effects.

Wood grain and anthracite finishes give surfaces attractive elegance.

Choose from a wide variety of corner solutions.

Properties, technical data, product overview

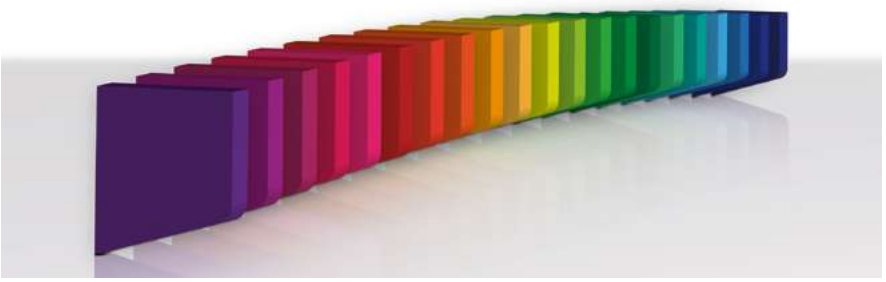
ROMA is a leading manufacturer of wall and roof sandwich panel elements for industrial and cold-store construction.

We develop, manufacture and market complete systems for industrial construction engineering as well as cold-store and deep-freeze cell and cell-door construction. Climate test chambers, cleanrooms and specialized climate-control applications are also part of the ROMA product portfolio. We have over 75 years of success and experience in highly specialized construction sectors. Ever since its founding, our family-run company has always manufactured top-quality products Made in Germany.

Approval
General building authority and building law approval for use as walls/roofs/ceiling. Notification of approval Z-10.4-549 of the DIBt, Berlin and and CE marking in accordance with DIN EN 14509.

Planning details
Please consult our most recent technical data sheets for detailed planning specifications.

www.romakowski.com/en/insulation-systems/downloads



We offer you a wide range of attractive colors.
Please see our color chart for more information on cladding layers and color options.

Cladding layers	
Standard version:	Galvanized sheet steel with 25µm polyester paint coating, RAL 9002, 9006, 9007, 7016
	External face microprofiled (14mm), internal face profiled (56 mm)

Fire tests	
D	B1 acc. to DIN 4102 – fire-resistant
CH	Class 5.3 acc. to VKF Bern
EU	Euro-Class B-s2, d0 (DIBt approval), Euro-Class B-s1, d0, acc. to EN 13501-1
FM	FM Approval (4880, 4881, 4882, 4471)

System dimensions	
Unit width	1050mm
Module width	1000mm
Available length	Up to 20m, depending on panel thickness
Custom sizes	On request
Insulating thicknesses	60, 80, 100, 120, 140, 170 mm

Weights, thermal insulation

ROMA quick-assembly insulating panels	**Insulation thickness**	**Panel weight approx.**[1]	**U-value** certified to EN 14509 with joint[2]
Type	**mm**	**kg/m²**	**W/(m²·K)**
ROMA M 60	60	12.7	0.448
ROMA M 80	80	13.5	0.300
ROMA M 100	100	14.3	0.234
ROMA M 120	120	15.1	0.192
ROMA M 140	140	15.9	0.163
ROMA M 170	170	17.1	0.133

[1] Element weights refer to the standard version (external 0.6mm/internal 0.5mm)
[2] $\lambda_{declared}$ = 0,022 [W/mK]

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