

ROMA INSULATION SYSTEMS

Fire protection, soundproofing and thermal insulation

Quick-assembly insulating panel,
types FP, FV and AFP Acoustic



SO EVERYTHING FITS. **ROMA**

ROMA quick-assembly insulating panel, types FP and FP+

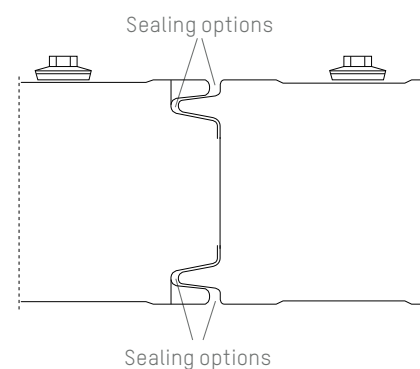


Cladding layers	Continuously galvanized steel sheet with organic plastic coating, further cladding layers available on request
Surface finish	Standard: Profiled internal/external face (58mm)
Insulating core	Noncombustible stone wool (A1), oriented, water-resistant
Density	FP panel: 100kg/m ³ ; FP+ panel: 135kg/m ³
Fire tests	Euro class A2-s1, d0; FM Approval
Fire resistance* in acc. with classification report	FP060-EI45; FP080-EI90; FP100-EI120 (4m, vertical)
Fire resistance D	FP100-EI30; FP100-EI60 (4m, vertical); FP100-EI90 (3m, vertical)
Approval	General building authority and building law approval for use as walls/roofs. Approval Z-10.49-511 of DIBt, Berlin.
System dimensions	Unit width 1170mm; Module width 1150mm
Available lengths	Up to 15m, depending on panel thickness
Production tolerances	Acc. to EN 14509
Sound insulation	FP approx. 31dB and FP+ approx. 32dB for all panel thicknesses
Statics	See our span tables

Panel type		FP060	FP080	FP100	FP120	FP140	FP150	FP170	FP200	FP240	
Density	kg/m ³	100									
Panel thickness	mm	60	80	100	120	140	150	170	200	240	
Cladding layer thickness	External	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	Internal	mm	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Panel weight approx.	kg/m ²	15.3	17.3	19.3	21.3	23.3	24.3	26.3	29.3	33.3	
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.693	0.516	0.413	0.345	0.297	0.277	0.245	0.208	0.174	

Panel type		FP+060	FP+080	FP+100	FP+120	FP+140	FP+150	FP+170	FP+200	FP+240	
Density	kg/m ³	135									
Panel weight approx.	kg/m ²	17.4	20.1	22.8	25.5	28.2	29.6	32.2	36.3	41.7	
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.751	0.561	0.450	0.376	0.323	0.302	0.267	0.227	0.190	

Two-sided tongue-and-groove for an outstanding seal



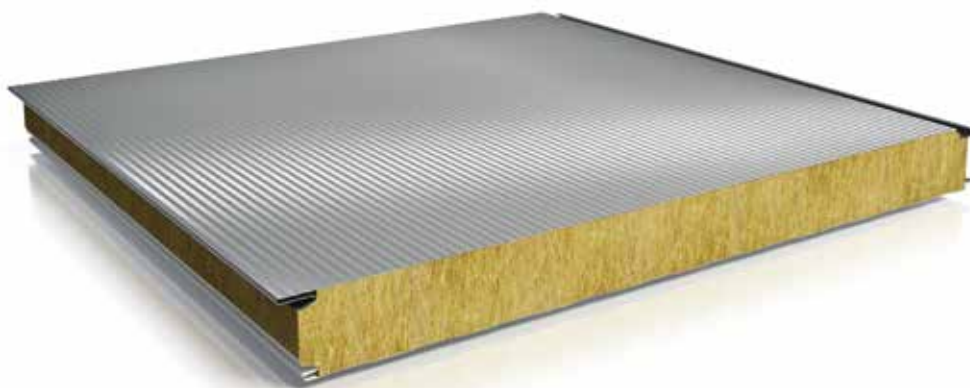
Surfaces

The surfaces of the stone wool panels can be combined with the ROMA PIR sandwich panel surface options. Both panel types can be laid both horizontally and vertically. This gives you more options to choose from as a builder: You can complete building projects with two different insulating panel types and still achieve a consistent facade appearance. Our many material and color options give you a wide range of design options.

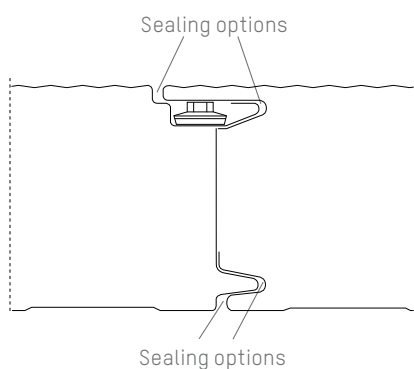


Design L

ROMA quick-assembly insulating panel, types FV and FV+



Concealed fitting as a design element



Three surface profile designs
are available:

M = microprofiled
L = profiled
E = smooth



Design M



Design E

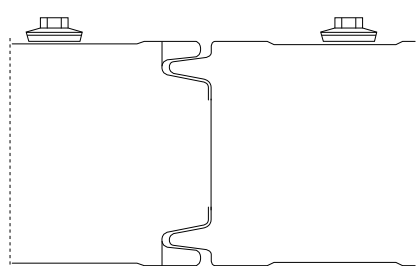
Cladding layers	Continuously galvanized steel sheet with organic plastic coating, further cladding layers available on request
Surface finish	Standard: External face microprofiled (14mm), internal face profiled (55mm)
Insulating core	Noncombustible stone wool (A1), vertical oriented, water-resistant
Density	FV panel: 100kg/m ³ ; FV+ panel: 135kg/m ³
Fire tests	Euro class A2-s1, d0; FM Approval
Fire resistance* in acc. with classification report	FV+060-EI30; FV+100-EI120 (4m, vertical)
Approval	General building authority and building law approval for use as walls/roofs. Approval Z-10.49-511 of DIBt, Berlin.
System dimensions	Unit width 1043mm; Module width 1000mm
Available lengths	Up to 15m, depending on panel thickness
Production tolerances	Acc. to EN 14509
Sound insulation	Approx. 30dB for all panel thicknesses
Statics	See our span tables

Panel type		FV060	FV080	FV100	FV120	FV140	FV150	FV170	FV200	FV240
Density	kg/m ³	100								
Panel thickness	mm	60	80	100	120	140	150	170	200	240
Cladding layer thickn.										
External	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Internal	mm	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Panel weight approx.	kg/m ²	15.6	17.6	19.6	21.6	23.6	24.6	26.6	29.6	33.6
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.798	0.544	0.427	0.354	0.303	0.282	0.248	0.211	0.175
Panel type		FV+060	FV+080	FV+100	FV+120	FV+140	FV+150	FV+170	FV+200	FV+240
Density	kg/m ³	135								
Panel weight approx.	kg/m ²	17.7	20.4	23.1	25.8	28.5	29.6	32.6	36.6	42.0
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.865	0.591	0.465	0.385	0.330	0.308	0.271	0.230	0.191

ROMA quick-assembly acoustic panel, types AFP and AFP+



Acoustic panel for indoor applications



Surface profiles
profiled, smooth and perforated plate
are available.

LB = perforated plate

The ideal surface for enhancing struc-
tural acoustics through the use of round
holes and a stone wool insulating core



Design LB

Cladding layers	Continuously galvanized steel sheet with organic plastic coating, further cladding layers available on request
Surface finish	Standard: Internal smooth, perforated, external face profiled (58mm)
Relative open area	Relative open area 30%, hole diameter 4mm
Insulating core	Noncombustible stone wool (A1), vertical oriented, water-resistant
Density	AFP panel: 100kg/m ³ ; AFP+ panel: 135kg/m ³
Fire tests	Euro class A2-s1, d0; FM Approval
Evaluator Sound absorption coefficient	LW = 1.00 highest sound absorbing class A (evaluated acc. to ISO 11654)
System dimensions	Unit width 1170mm; Module width 1150mm
Available lengths	Up to 15m, depending on panel thickness
Production tolerances	Acc. to EN 14509
Sound insulation	Approx. 34dB for all panel thicknesses
Statics	See our span tables

Panel type		AFP060	AFP080	AFP100	AFP120	AFP140	AFP150	AFP170	AFP200	AFP240
Density	kg/m ³	100								
Panel thickness	mm	60	80	100	120	140	150	170	200	240
Cladding layer thickn.	External	mm	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Internal	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Panel weight approx.	kg/m ²	15.1	17.1	19.1	21.1	23.1	24.1	26.1	29.1	33.1
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.693	0.516	0.413	0.345	0.297	0.277	0.245	0.208	0.174

Panel type		AFP+060	AFP+080	AFP+100	AFP+120	AFP+140	AFP+150	AFP+170	AFP+200	AFP+240
Density	kg/m ³	135								
Panel weight approx.	kg/m ²	17.2	19.9	22.6	25.3	28.0	29.4	32.0	36.1	41.5
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.751	0.561	0.450	0.376	0.323	0.302	0.267	0.227	0.190

Sample applications



MW wall panel, type FP

Safety takes precedence. Especially in connection with the tough fire prevention requirements, ROMA type FP wall panels with noncombustible stone wool insulating core are the perfect solution. Whether for exterior walls or extensions inside a building. The specially developed joint geometry allows integration of sealing bands while also ensuring a high degree of airtightness and sealing against driving rain. ROMA sandwich panel elements are also very lightweight and easy to assemble.

MW wall panel, type FV

Do you have an architect who is as demanding as the fire prevention regulations? ROMA type FV insulating panels can satisfy architectural and safety requirements. The noncombustible stone wool insulating core is available in eight different gauges. And the large selection of materials and colors gives you even more choices. Give your imagination free rein: Our intricate microprofiled and concealed fixing of the ROMA panels allow a high degree of creativity in wall and façade design.

MW acoustic panel, type AFP

For sound absorption and improved room acoustics, the ROMA type AFP acoustic panel with its stone wool insulating core and punched sheet steel is the perfect solution. A layer of black fiberglass matting between the stone wool and perforated plate provides trickling protection. The ROMA acoustic panels reduce sound transmission from sources of noise to the receiver. Already with the AFP060 ROMA reaches the highest sound absorbing class A.

ROMA quick-assembly insulating panel for fire protection, soundproofing and thermal insulation



The most modern production equipment allows ROMA to manufacture high quality insulating panels, which ensure reliable fire protection for wall and façade systems.

ROMA quick-assembly insulating panels, types FP and FV, are components whose cover shells are connected with rock wool in a shear-resistant manner. Rock wool is extremely heat-resistant – and withstands temperatures up to 1000°C.

With this specialized insulating core, ROMA FP and FV panels are able to achieve the best possible values building material class A2-s1, d0. This classification means: The product is noncombustible and does not contribute to the spread of a fully developed fire. In short: You are providing effective fire protection by using ROMA panel types FP and FV.

Builders and planners have two different panel joint types with two respective density values to choose from. With ROMA, you will find a custom solution for every application.

Our two additional panel types FP+ and FV+ offer you two product variants with greater mineral wool insulation density. These specialized panel types are the right choice for more demanding structural requirements.

Product properties

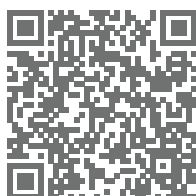
- Building material class A2-s1, d0 acc. to EN 14509 – noncombustible
- Defined fire resistance classes acc. to the European standard
- FM Approval
- Good airborne sound insulation
- Sound insulation for interior applications
- Four different surface profile variants available
- Several surface coatings available, also as a food-grade design
- Steam-tight cover shells
- High thermal insulation
- Highly precise joint geometry
- Rapid assembly

Insulating core

Rock wool is a water-resistant, noncombustible insulating material derived from natural volcanic rock. The vertical oriented processing of this insulating material allows high blocks and wide support intervals to be achieved. In the basic version of the ROMA quick-assembly insulating panel, types FP and FV, the mineral wool insulating core has a high specific density of 100kg/m³. This makes it suitable for use in buildings with strict fire protection regulations.

Areas of use

- Façades
- Room-sealing building components
- Partition walls subject to fire protection regulations
- Ventilation channel cladding
- False ceilings
- Cladding for installation shafts
- Noise-absorbing cabins
- Noise-absorbing walls



For more information, please visit our website:
www.roma-daemmsysteme.de

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