

ROMA INSULATION SYSTEMS

Fire protection, soundproofing and thermal insulation

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



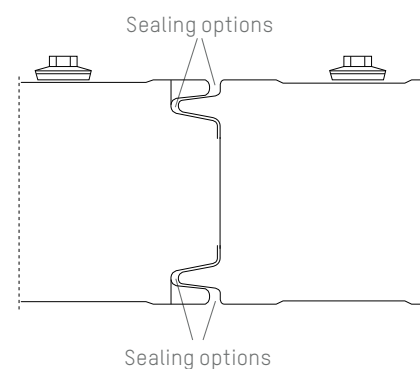
SO EVERYTHING FITS. **ROMA**

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



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	Mineral wool, fiber-adjusted, water-repellent and non-flammable A1
Density	FP panel: 120kg/m ³ ; FP eco panel: 90kg/m ³
Fire tests	Euro class A2-s1 d0 acc. to EN 13501-1; FM Approval (4880, 4881, 4882)
Fire resistance* in acc. with classification report	Notification Z-19.52-2187 of the DIBt Berlin - see fire protection matrix
Fire resistance D	FP100-EI30; FP100-EI60 (vert.); FP100-EI90 (vert.) acc. to EN 13501-2
Approval	Notification of approval ABg Z-10.49-836 and Z-10.49-837 of the DIBt Berlin in acc. with DIN EN 14509 (CE marking)
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 eco approx. 32dB for all panel thicknesses
Statics	See our span tables

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



Panel type		FP060	FP080	FP100	FP120	FP140	FP150	FP170	FP200	FP240	
Density	kg/m ³	120									
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	16.5	18.9	21.3	23.7	26.1	27.4	29.7	33.3	38.1	
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.736	0.550	0.441	0.368	0.317	0.296	0.261	0.222	0.186	
Panel type		FP eco 060	FP eco 080	FP eco 100	FP eco 120	FP eco 140	FP eco 150	FP eco 170	FP eco 200	FP eco 240	
Density	kg/m ³	90									
Panel weight approx.	kg/m ²	14.7	16.5	18.3	20.1	21.9	22.8	24.6	27.3	30.9	
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.648	0.482	0.386	0.322	0.276	0.258	0.228	0.194	0.162	

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.

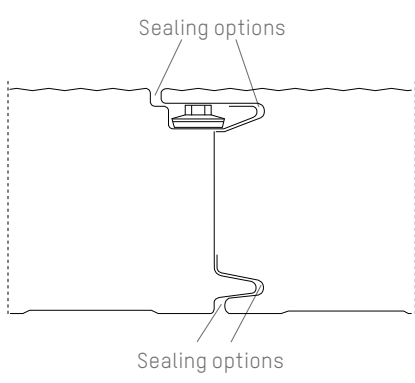


Design L

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



Concealed fitting as a design element



Four surface profile designs are available:

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



Design M



Design E



Design W

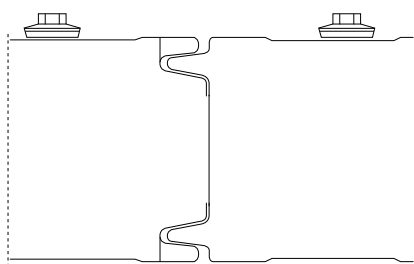
Cladding layers	Continuously galvanized steel sheet with organic plastic coating, further cladding layers available on request
Surface finish	Standard: External face microprofiled (14mm), internal face profiled (55mm)
Insulating core	Mineral wool, fiber-adjusted, water-repellent and non-flammable A1
Density	FV panel: 120kg/m ³ ; FV eco panel: 190kg/m ³
Fire tests	Euro class A2-s1, d0 acc. to EN 13501-1; FM Approval (4880, 4881, 4882)
Fire resistance* in acc. with classification report	Notification Z-19.52-2187 of the DIBt Berlin - see fire protection matrix
Approval	Notification of approval ABg Z-10.49-836 and Z-10.49-837 of the DIBt Berlin in acc. with DIN EN 14509 (CE marking)
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	FV approx. 31dB and FV eco approx. 32dB for all panel thicknesses
Statics	See our span tables

Panel type		FV060	FV080	FV100	FV120	FV140	FV150	FV170	FV200	FV240
Density	kg/m ³	120								
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
	Internal	mm	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Panel weight approx.	kg/m ²	16.8	19.2	21.6	24.0	26.4	27.4	30.0	33.6	38.4
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.861	0.585	0.459	0.380	0.325	0.303	0.267	0.227	0.190
Panel type		FV eco 080	FV eco 100	FV eco 120	FV eco 140	FV eco 150	FV eco 170	FV eco 200	FV eco 240	
Density	kg/m ³	90								
Panel weight approx.	kg/m ²	16.8	18.6	20.4	22.2	23.1	24.9	27.6	31.2	
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.513	0.402	0.332	0.284	0.265	0.233	0.197	0.165	

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



Acoustic panel exclusively for indoor applications



Surface profiles profiled, smooth and perforated plate are available.

LB = perforated plate

The ideal surface for enhancing structural 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	Mineral wool, fiber-adjusted, water-repellent and non-flammable A1
Density	AFP panel: 120kg/m ³ ; AFP eco panel: 90kg/m ³
Fire tests	Euro class A2-s1, d0 acc. to EN 13501-1
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	AFP170	AFP200	AFP240
Density	kg/m ³	120							
Panel thickness	mm	60	80	100	120	140	170	200	240
Cladding layer thicken.	External	mm	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
Panel weight approx.	kg/m ²	15.0	17.4	19.8	22.2	24.6	28.2	31.8	36.6
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.736	0.550	0.441	0.368	0.317	0.261	0.222	0.186
Panel type		AFP eco 060	AFP eco 080	AFP eco 100	AFP eco 120	AFP eco 140	AFP eco 170	AFP eco 200	AFP eco 240
Density	kg/m ³	90							
Panel weight approx.	kg/m ²	13.2	15.0	16.8	18.6	20.4	23.1	25.8	29.4
U-value certified to EN 14509 with joint	W/(m ² ·K)	0.648	0.482	0.386	0.322	0.276	0.228	0.194	0.162

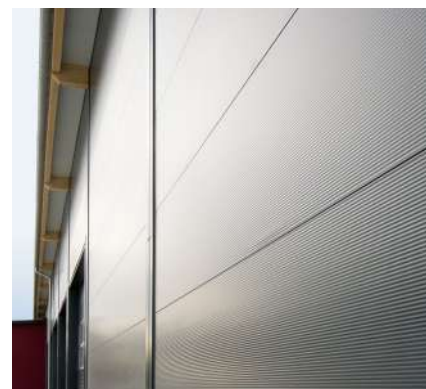
ROMA MW fire protection matrix

Panel		Fire behaviour*	Approval Z-19.52-2187				VKF	Classification report	FM Approval*
Thickness from	Cladding layer	A2-s1, d0	EI 30	EI 60	EI 90	EI 120	(Switzerland)	(EU)	4880
Vertical:									
FP 060	0.6/0.5	✓	-	-	-	-	EI 30 with 4m	EI 45 with 4m	✓
FP 080	0.6/0.5	✓	-	-	-	-	EI 90 with 4m	EI 90 with 4m	✓
FP 100	0.6/0.6	✓	4m	4m	3m	-	EI 120 with 4m	EI 120 with 4m	✓
FP 120	0.6/0.6	✓	6m	6m	5m	-	EI 90 with 5m	EI 90 with 5m	✓
FV 120	0.6/0.6	✓	5m	5m	5m	-	EI 90 with 5m	EI 90 with 5m	✓
Horizontal:									
FP 120	0.6/0.6	✓	6m	6m	6m	-	EI 90 with 7m	EI 90 with 7m	✓
FV 100	0.6/0.6	✓	-	-	-	-	🕒 in progress	EI 60 with 5m	✓
FV 120	0.6/0.6	✓	5m	5m	5m	4m		EI 120 with 5m	✓
Roof:			REI 30	REI 60	REI 90				
FD 142	0.6/0.6	✓	4m	4m	3m		REI 90 with 2m	REI 90 with 3m RE 120 with 2m	✓
FP eco, FV eco, FD eco (all thicknesses)	all	✓	-	-	-		-	-	✓
AFP, AFP eco (all thicknesses)	all	✓	-	-	-		-	-	-

* independent of the panel thicknesses or cladding layers.

Note: Observe longitudinal joint design according to test or classification report.

Sample applications



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. 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.

FP and FV panels with mineral wool insulation core 120 kg/m³

Thanks to our special insulation core, ROMA panels FP and FV achieve the best values in terms of fire resistance. The product is non-combustible and does not contribute significantly to fire growth even in the event of a fully developed fire. The spans are also impressive: With fire resistance class EI 90, a support span of up to six meters is possible with horizontal installation without height limitation. In short: With ROMA panels FP and FV you protect your building effectively against fire.

- Building material class A2-s1, d0 acc. to DIN EN 13501-1
- Insulation core A1
- marketable density
- very good static properties

FP eco, FV eco and AFP eco panels with mineral wool insulation core 90 kg/m³

With the eco variant, we offer you a product with a lower density mineral wool insulation. The optimal solution for all those who need a non-combustible element. The reduced volume weight and the resulting lighter overall weight make the installation and handling of your ROMA sandwich panels even easier. Another important factor in favor of using eco panels is the better insulation value and sound transmission value. Rising raw material prices make building expensive, and both installers and designers are often under enormous price pressure. The comparatively inexpensive ROMA eco panel is the optimal solution here.

- Building material class A2-s1, d0 acc. to DIN EN 13501-1
- Insulation core A1
- lower weight facilitates assembly
- less expensive variant
- better u-value

Acoustic panel types AFP with mineral wool insulation core

For sound absorption and improvement of room acoustics, the ROMA MW acoustic panel type AFP with an insulating core made of mineral wool and perforated steel sheet is optimal. A black fleece is incorporated between the mineral wool and the perforated sheet, which serves as trickle protection. With the AFP, ROMA achieves the highest sound absorber class A.

- Building material class A2-s1, d0 acc. to DIN EN 13501-1
- Insulation core A1
- Sound absorber class A and weighted sound absorption coefficient $\alpha_W = 1.0$ (according to ISO 11654)
- Sound insulation value: up to 34 dB
- perforated on one or both sides



For more information, please visit our website:
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