

METIGLA

smart covering. simply passion.



INDUSTRIAL

INSULATED PANELS

Metigla has an extensive Belgian experience in the production of metallic cladding products, since 1984, and has been present in Romania since 2000.

The Industrial division includes a wide range of insulated panels, consisting of 2 metal layers and an expanded mineral wool or polystyrene core, characterized by high thermal insulation, with a large range of applications: industrial, commercial and residential buildings, warehouse and storage (including cold storage) containers and zootechnical buildings.



Benefits



Thermal insulation

Insulated panels have excellent thermal insulation properties, regardless of context.



Easy assembly

Due to the low weight, the handling and assembly processes are very easy.



Long-lasting product

Extended use over 50 years, under normal environmental conditions.



Sustainable product

Due to advanced technological processes, Metigla's insulated panels have a low impact on the environment.



Fire resistance

Metigla's mineral wool core insulated panels (MW) offer a certified fire resistance of up to 4 hours and may be used for a variety of industrial, commercial and residential buildings.

ROOF INSULATED PANELS (PA)

Fire Reaction	PA MW Thickness (mm)	According to
A2 s1 d0	60/80/100/120/150	EN 13501-1
Fire Resistance	Thickness PA MW (mm)	According to
REI 90	80	EN 13501-2
REI 180	100,120,150	EN 13501-2

WALL INSULATED PANELS VISIBLE FASTENING (PFv)

Fire Reaction	PFv MW Thickness (mm)	According to
A2 s1 d0	60/80/100/120/150	EN 13501-1
Fire Resistance	PFv MW Thickness (mm)	According to
EI 60	80	EN 13501-2
EI 180	100,120	EN 13501-2
EI 240	≥150	EN 13501-2

WALL INSULATED PANELS INVISIBLE FASTENING (PFI)

Fire Reaction	PFI MW Thickness (mm)	According to
A2 s1 d0	60/80/100/12/150	EN 13501-1
Fire Resistance	PFI MW Thickness (mm)	According to
EI 60	≥80	EN 13501-2

INSULATED PANEL TYPES

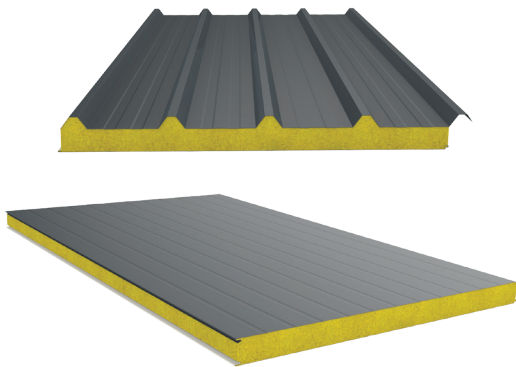
ZINC
275g/m²

Depending on the insulation core

Depending on the insulation core Metigla's insulated panels may be: with basaltic mineral wool core (MW) or high density polystyrene core (EPS).

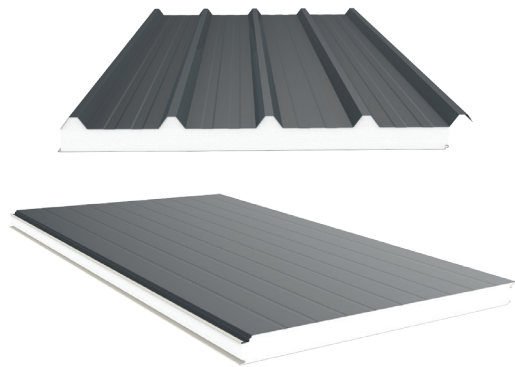
MW Insulated Panels

Fire resistance
Sustainable product
Thermal insulation



EPS Insulated Panels

Light weight
Easy fitting
Thermal efficiency



Depending on their destination

Metigla's insulated panels may be: 5 ribs roof panels (PA) and wall panels with visible (PFv) or invisible (PFI) fastening.

Roof Insulated Panels

5 ribs roof panels (PA)

Wall Insulated Panels

visible fastening panels (PFv)
invisible fastening panels (PFI)

ROOF INSULATED PANELS (PA)

PA MW/PA EPS technical characteristics

Material	Precoated steel sheet			
Steel thickness (mm)	0.5 - 0.75			
Steel type (minimum)	min S250GD			
Minimum Zinc weight (g Zn/m²)	Ext. steel facing 275	Int. steel facing 100 - 275		
External surface paint coating (µm)*	SP L 25	SP MAT 35	PVDF 25	PUR NOVA 55
Insulation core	Mineral wool (MW)**		Polystyrene (EPS 100)	
Available thickness MW panels (mm)	60/80/100/120/150			
Available thickness EPS panels (mm)	50/60/80/100/120/150/200			
Minimum pitch	8° [14%]			
Modular panel width (mm)	1000			
Minimum - maximum length (mm) ***	EPS 2000-12500		MW 2000-8000	
Outer sheet ribs height (mm)	32			

*SP L - Glossy Polyester
 SP MAT - Mat Polyester
 PVDF - Polyvinylidene fluoride
 PUR NOVA - Mat Polyurethane

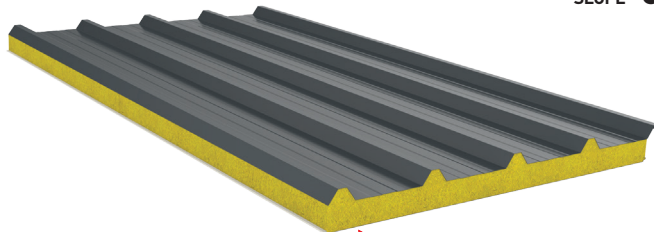
**Mineral wool density 100 kg/m³

***For lengths below 2000 and over 8000 / 12500 mm (according to the material) please contact our sales representatives.

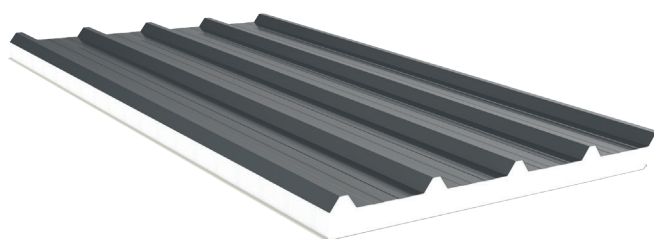
***On demand, we can produce two types of cutting to length: projecting roof (min. 70 mm) or overlap (minim 150 - 250 mm).

ZINC
275 g/m²

MIN. SLOPE **8°**



MW roof panel



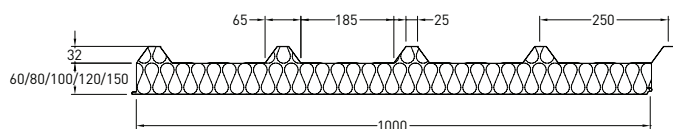
EPS roof panel



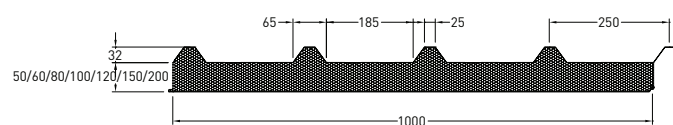
ROOF INSULATED PANELS (PA)

Fire Reaction	PA MW	According to
A2 s1 d0	Thickness (mm) 60/80/100/120/150	EN 13501-1

Fire Resistance	Thickness PA MW (mm)	According to
REI 90	80	EN 13501-2
REI 180	100,120,150	EN 13501-2

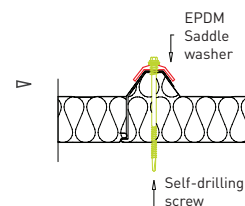


Roof insulated panel with mineral wool core - section graphic representation (PA MW)



Roof insulated panel with polystyrene core - section graphic representation (PA EPS)
 The values are in mm

Joint detail between roof insulated panels



DECORATIVE PROFILES

OUTER FACING



Standard



Flat

INNER FACING



Standard

Maximum load capacity for PA MW* and PA EPS - multiple load

Exterior/interior steel sheet - 0.5/0.5 mm

Distributed load (kg/m ²)	Panel thickness (mm)							
	50	60	80*	100*	120	150*	200	
	Maximum span (cm)							
80	323	354	415	473	513	554	591	
100	301	322	372	427	480	524	562	
120	269	298	347	393	437	507	540	
140	253	270	314	363	405	474	509	
160	242	264	299	335	383	433	475	
180	224	243	282	314	357	406	448	
200	207	223	274	303	335	393	428	
220	193	212	257	286	314	374	408	
250	174	196	235	275	300	348	387	

*The panels with a mineral wool core (MW) are only available with thicknesses of 80/100/150 mm

Exterior/interior steel sheet - 0.6/0.6 mm

Distributed load (kg/m ²)	Panel thickness (mm)							
	50	60	80*	100*	120	150*	200	
	Maximum span (cm)							
80	342	366	427	490	533	594	676	
100	305	333	393	444	495	571	655	
120	291	309	356	408	451	515	600	
140	266	290	330	373	417	492	577	
160	254	267	310	355	393	454	533	
180	242	253	294	328	363	427	505	
200	223	244	280	311	345	401	477	
220	209	233	267	304	338	383	456	
250	190	209	250	284	313	359	430	

Deflection limit $f \leq l/200$.

*The panels with a mineral wool core (MW) are only available with thicknesses of 80/100/150 mm

PA MW and PA EPS thermal properties

Insulation	Core thickness (mm)		
Mineral wool (MW)	80	100	150
Thermal transmittance coefficient U [W/m ² K]	0.54	0.43	0.29
Panel weight [kg/m ²]	17.50	19.50	24.50

Insulation	Core thickness (mm)						
Polistiren (EPS)	50	60	80	100	120	150	200
Thermal transmittance coefficient U [W/m ² K]	0.72	0.60	0.45	0.36	0.30	0.24	0.18
Panel weight [kg/m ²]	10.40	10.60	11.00	11.40	11.80	12.40	13.40

WALL INSULATED PANELS (PFv)

ZINC
 275 g/m²

Technical characteristics of PFv MW /PFv EPS

Material	Precoated steel sheet			
Steel thickness (mm)	0.5 - 0.75			
Steel type (minimum)	min S250GD			
Minimum Zinc weight (g Zn/m²)	Ext. steel facing 275		Int. steel facing 100 - 275	
External surface paint coating (µm)*	SP L 25	SP MAT 35	PVDF 25	PUR NOVA 55
Insulation core	Mineral wool (MW)**		Polystyrene (EPS 100)	
Available thickness MW panels (mm)	60/80/100/120/150			
Available thickness EPS panels (mm)	50/60/80/100/120/150/200			
Modular panel width (mm)	1190			
Minimum - maximum length (mm) ***	EPS 2000-12500		MW 2000-8000	

*SP L - Glossy Polyester
 SP MAT - Mat Polyester
 PVDF - Polyvinylidene fluoride
 PUR NOVA - Mat Polyurethane

**Mineral wool density 100 kg/m³

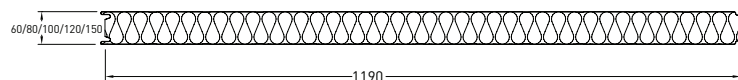
***For lengths below 2000 and over 8000 / 12500 mm (according to the material) please contact our sales representatives.



MW wall panel with visible fastening



EPS wall panel with visible fastening



Wall insulated panel with mineral wool core and visible fastening - section graphic representation (PFv MW)



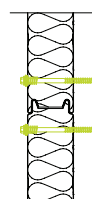
Wall insulated panel with polystyrene core and visible fastening - section graphic representation (PFv EPS)
 The values are in mm



WALL INSULATED PANELS VISIBLE FASTENING (PFv)

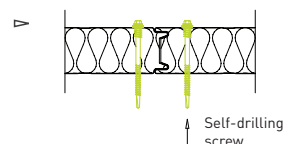
Fire Reaction	PFv MW Thickness (mm)	According to
A2 s1 d0	60/80/100/120/50	EN 13501-1

Fire Resistance	PFv MW Thickness (mm)	According to
EI 60	80	EN 13501-2
EI 180	100,120	EN 13501-2
EI 240	≥150	EN 13501-2



Horizontal joint detail between visible fastening wall insulated panels

Vertical joint detail insulated panels



Self-drilling screw

WALL INSULATED PANELS (PFI)

ZINC
275g/m²

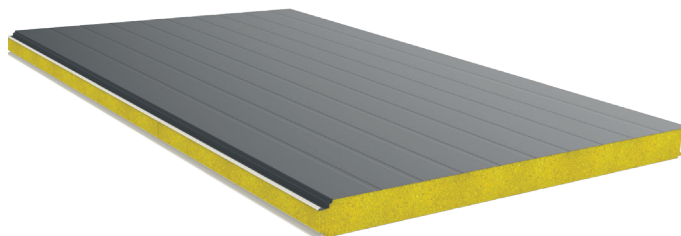
PFI MW /PFI EPS technical characteristics

Material	Precoated steel sheet			
Steel thickness (mm)	0.5- 0.75			
Steel type (minimum)	min S250GD			
Minimum Zinc weight (g Zn/m²)	Ext. steel facing 275		Int. steel facing 100 - 275	
External surface paint coating (µm)*	SP L 25	SP MAT 35	PVDF 25	PUR NOVA 55
Insulation core	Mineral wool (MW)**		Polystyrene (EPS 100)	
Available thickness MW panels (mm)	60/80/100/120/150			
Available thickness EPS panels (mm)	50/60/80/100/120/150/200			
Modular panel width (mm)	1140			
Minimum - maximum length (mm) ***	EPS 2000-12500		MW 2000-8000	

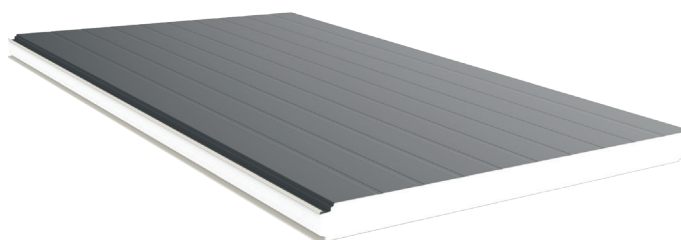
*SP L - Glossy Polyester
SP MAT - Mat Polyester
PVDF - Polyvinylidene fluoride
PUR NOVA - Mat Polyurethane

**Mineral wool density 100 kg/m³

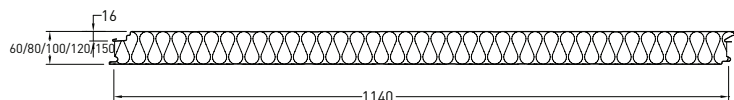
***For lengths below 2000 and over 8000 / 12500 mm (according to the material) please contact our sales representatives.



MW wall panel with invisible fastening



EPS wall panel with invisible fastening



Wall insulated panel with mineral wool core and invisible fastening - section graphic representation (PFI MW)



Wall insulated panel with polystyrene core and invisible fastening - section graphic representation (PFI EPS)
The values are in mm

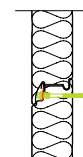


WALL INSULATED PANELS INVISIBLE FASTENING (PFI)

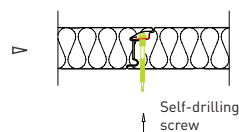
Fire Reaction	PFI MW Thickness (mm)	According to
A2 s1 d0	60/80/100/120/150	EN 13501-1

Fire Resistance	PFI MW Thickness (mm)	According to
EI 60	≥80	EN 13501-2

Horizontal joint detail between invisible fastening wall insulated panels



Vertical joint detail between invisible fastening wall insulated panels



DECORATIVE PROFILES

OUTER FACING

Standard

Flat

Micro-ribbed

INNER FACING

Standard

Flat

Micro-ribbed

Maximum load capacity for PFv and PFi MW* & EPS - multiple load

Exterior/interior steel sheet - 0.5/0.5 mm

Distributed load (kg/m ²)	Panel thickness (mm)						
	50	60	80*	100*	120	150*	200
	Maximum span (cm)						
50	398	455	522	552	638	695	773
60	350	418	473	534	571	633	705
80	303	354	411	448	484	535	622
100	267	300	363	399	430	472	562
120	224	272	321	364	391	422	502
140	206	241	297	333	355	384	470
160	188	223	281	305	333	359	436
180	182	202	264	287	306	333	401
200	166	188	242	274	291	310	363

*The panels with a mineral wool core (MW) are only available with thicknesses of 80/100/150 mm.

Exterior/interior steel sheet - 0.6/0.6 mm

Distributed load (kg/m ²)	Panel thickness (mm)						
	50	60	80*	100*	120	150*	200
	Maximum span (cm)						
50	416	482	572	639	685	727	799
60	373	441	513	569	622	679	738
80	311	360	437	484	525	573	655
100	266	313	388	430	461	494	599
120	233	275	354	393	413	452	530
140	205	247	323	353	379	412	491
160	189	233	296	334	357	385	470
180	181	204	273	308	332	355	439
200	163	189	252	293	303	330	402

Deflection limit $f \leq l/200$.

*The panels with a mineral wool core (MW) are only available with thicknesses of 80/100/150 mm.

PFv and PFi MW & EPS thermal properties

Insulation	Panel thickness (mm)		
Mineral wool (MW)	80	100	150
Thermal transmittance coefficient U [W/m ² K]	0.54	0.43	0.29
Panel weight [kg/m ²]	16.80	18.80	23.80

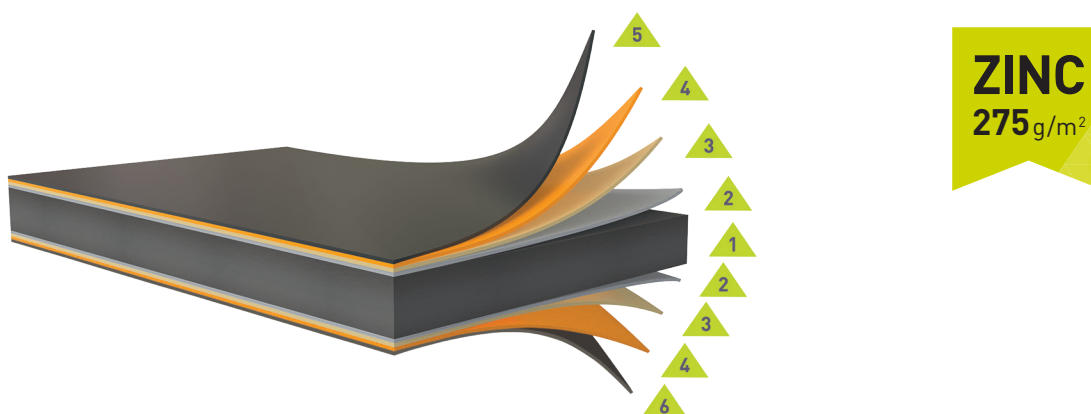
Insulation	Panel thickness (mm)						
Polistiren (EPS)	50	60	80	100	120	150	200
Thermal transmittance coefficient U [W/m ² K]	0.72	0.60	0.45	0.36	0.30	0.24	0.18
Panel weight [kg/m ²]	9.70	9.90	10.30	10.70	11.10	11.970	12.70

Steel type and structure

The raw material used by Metigla in the production process is hot galvanized steel (1), with a **zinc protection of at least 275 g/m²** (2). The zinc coating is protected through multilayer technology with a passivated coating (3), primary protective coating (4) and paint layer (5).

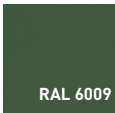
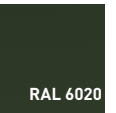
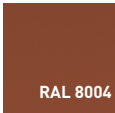
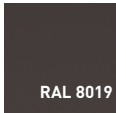
The top protective layer (5) is available in following versions: **Polyester** (25 µm gloss or 35 µm mat), **PVDF** (polyvinylidene fluoride) of 25 µm, **PUR** (polyurethane) of 55 µm or **PUR NOVA** (mat polyurethane of 55 µm). On the bottom side, the paint coating is 10 µm Polyester or Acrylic (6).

Metigla produces insulated panels with basaltic mineral wool core (MW) or high density polystyrene core (EPS).





Color availability

 RAL 3000 Red Glossy	 RAL 3005 Wine Red Super Matte	 RAL 3009 Oxide Red Super Matte	 RAL 3011 Brown Red Glossy	 RAL 5010 Blue Glossy	 RAL 6009 Fir Green Glossy	 RAL 6011 Reseda Green Glossy	 RAL 6020 Green Super Matte
 RAL 7016 Anthracite Grey Glossy PVDF Super Matte PUR Matte Pur Nova	 RAL 8004 Cooper Brown Super Matte	 RAL 8017 Brown Glossy Super Matte Pur Nova Pur Glossy	 RAL 8019 Grey Brown PVDF Super Matte Pur Nova	 RAL 9002 White Glossy PVDF	 RAL 9005 Black PVDF PUR Glossy Super Matte Pur Nova	 RAL 9006 White Aluminium Glossy PVDF	 RAL 9007 Grey Aluminium Glossy
 RAL 9010 Pure White Glossy	 Green Metigla Glossy	 RAL 1014 Cream Glossy	 RAL 1021 Yellow Glossy	 RAL 7022 Umbra Grey Super Glossy	 RAL 7035 Light Grey Glossy	 Natural Wood	

Attention! The colors printed may differ from the original. For details about the color availability of each product, including the rainwater system, please visit www.metigla.ro | www.metigla.be



smart covering.
simply passion.

METIGLA
smart covering. simply passion.



INDUSTRIAL



RESIDENTIAL



RAINWATER



FACADES

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As a result of Metigla's policy of development and improvement, we reserve the right to make changes to the specifications in this brochure.

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