

DECLARATION OF PERFORMANCE

According to Construction Products Regulation EU N° 305/2011

DoP no. **MTG PM/05/2024**

- Unique identification code of the product-type: **PFI MW 100**
Invisible joint wall panel with mineral wool core and metal faces, 100 mm thickness
- Intended use/es: Vertically oriented sandwich panel for **external walls** and **partition walls**
- Manufacturer: **SC METIGLA SRL**, Ceptura, 107126, Prahova County, Romania
- Authorised representative: Not applicable
- System of AVCP:
 - reaction to fire, fire resistance: **3**
 - other properties: **4**
- Harmonized standard: **EN 14509:2013**
Notified bodies responsible for assessing fire performances:
FIRES, s.r.o. (Slovakia) - No. 1396
ZAG (Slovenian National Building and Civil Engineering Institute) - No. 1404
- Declared performances: Table 1

Essential characteristics	Performance
Steel grade of faces	min. S250GD+Z275
Thickness of external face (mm)	0.5 mm; 0.6 mm
Coating on external face	SP 25 µm; PVDF 25 µm
Thickness of internal face (mm)	0.5 mm
Coating on internal face	SP 15 µm (Ral 9002 Standard)
External face profile type	RIB114 (Standard), Flat, Micro-ribbed
Internal face profile type	RIB100 (Standard), Flat, Micro-ribbed
Core material	Basalt mineral wool
Nominal core density (kg/m³)	100 ± 5 % kg/m³
Shear strength (MPa)	f _{CV} =1.09 MPa
Shear modulus of the core (MPa)	G _C =237 MPa
Compressive strength (MPa)	f _{CC} =0.07 MPa
Compressive E-modulus of the core (MPa)	E _{CC} =2.08 MPa
Cross panel tensile strength (MPa)	f _{CT} =0.024 MPa
Tensile E-modulus of the core (MPa)	E _{CT} =1.46 MPa
Bending moment capacity and wrinkling stress	NPD
Thermal conductivity of the core, λ _{Declared} (W/mK)	λ _c =0.043 W/mK
Thermal transmittance (W/m²K)	U _{d,s} =0.43 W/m² K
Reaction to fire (EN 13501-1:2007) (according to ZAG report no. P 0349/15-530-8)	A2 – s1, d0
Fire resistance (EN 13501-2:2016) (according to FIRES report CR-128-17-AURE)	Partition wall EI 60 (maximum allowed span ≤ 7500 mm)
	External wall EI 60 (i→o) (maximum allowed span ≤ 7500 mm)
Water permeability	NPD
Air permeability	NPD
Airborne sound isolation	NPD
Sound absorption	NPD
Dangerous substances	NPD
Panel thickness (mm)	100 ± 2 mm
Product meets the requirements of dimensional tolerances from Annex D of the standard EN 14509	

Dimensional tolerances

The product meets the requirements of dimensional tolerances from Annex D of the standard EN 14509

Dimension	Declared value	Tolerance	Tolerance (maximum permissible)
Thickness of the panel	100 mm	±2 mm	$D \leq 100 \text{ mm} \pm 2 \text{ mm}$
Deviation from flatness (according to the length of measurement L)	0.4 mm 0.6 mm 1 mm	±0.1 mm ±0.2 mm ±0.4 mm	For L=200 mm - Deviation from flatness 0.6 mm For L=400 mm - Deviation from flatness 1.0 mm For L>700 mm - Deviation from flatness 1.5 mm
Depth of metal profile (ribs)	0.7 mm	± 30%	$d_s \leq 1 \text{ mm} \pm 30\% \text{ of } d_s$
Length of the panel	L	±5 mm ±10 mm	$L \leq 3 \text{ m} \pm 5 \text{ mm}$ $L > 3 \text{ m} \pm 10 \text{ mm}$
Cover width of the panel	1140	±2 mm	$w \pm 2 \text{ mm}$
Deviation from squareness	5 mm	±1 mm	$0.006 \times w$ (nominal cover width)
Deviation from straightness (on length)	1 mm/m max 5 mm	-	1 mm per metre, maximum 5 mm
Bowing	1 mm/m max 10 mm	-	2 mm pe metre length, maximum 10 mm 8.5 mm per metre width for flat or lightly profiled – $h \leq 10 \text{ mm}$ 10 mm per metre width for profiles – $h > 10 \text{ mm}$

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

This Declaration of Performance is available on Metigla web pages: www.metigla.ro; www.metigla.be

Signed for and on behalf of the manufacturer by:

Cristian MĂȚĂȘEL
General Manager

Ceptura, Prahova





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EN 14509:2013

Metal faced insulating panel for use in buildings

Unique identification code of the product-type: **PFI MW 100**

DoP no. MTG PM/05/2024

Insulation: Basalt mineral wool, density $100 \pm 5\%$ kg/m³ Thickness: 100 mm.

Mass: 18,80 kg/m².

Facings:

External: Steel 0,6 mm S250GD (EN 10346) Coating: SP/PVDF 25 µm

Internal: Steel 0,5 mm S250GD (EN 10346) Coating: SP 15 µm

Use: external walls and partition walls

Thermal transmittance: 0.43 W/m² K

Thermal conductivity: 0.043 W/mK

Reaction to fire (EN 13501-1): A2 – s1, d0

Fire resistance (EN 13501-2): *according to FIRES report CR-128-17-AURE*

Water permeability: NPD

Air permeability: NPD

Airborne sound isolation: NPD

Sound absorption: NPD

Dangerous substances: NPD

Durability: Pass – all colours

