

DECLARATION OF PERFORMANCE

According to Construction Products Regulation EU N° 305/2011

DoP no. **MTG PM/08/2024**

- Unique identification code of the product-type: **PFV MW 100**
Visible 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; 0.6 mm
Coating on external face	Polyester, PvdF 25 µm
Thickness of internal face (mm)	0.5 mm
Coating on internal face	Polyester 15 µm (RAL 9002)
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 =37 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/m²K
Reaction to fire (EN 13501-1:2007) (according to ZAG report no. P 0349/15-530-8)	A2 – s1, d0
Fire resistance (EN 13501-2:2023) (according to FIRES report CR-119-20-AURE 2 nd Edition)	Partition wall
	EI 180 (maximum allowed span ≤ 4000 mm)
	EI 120 (maximum allowed span ≤ 7500 mm)
	External wall
	EI 180 (o↔i) (maximum allowed span ≤ 4000 mm)
	EI 120 (o↔i) (maximum allowed span ≤ 7500 mm)
Water permeability	NPD
Air permeability	NPD
Airborne sound isolation	NPD
Sound absorption	NPD
Dangerous substances	NPD

The performances achieved complies with the conditions and indications in the Classification Report.

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	1190	±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 MĂTĂȘEL
General Manager

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EN 14509:2013

Metal faced insulating panel for use in buildings

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

DoP no. MTG PM/08/2024

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-119-20-AURE 2nd Edition*

Water permeability: NPD

Air permeability: NPD

Airborne sound isolation: NPD

Sound absorption: NPD

Dangerous substances: NPD

Durability: Pass – all colours