

DECLARATION OF PERFORMANCE

According to Construction Products Regulation EU N° 305/2011

DoP no. **MTG PM/01/2024**

- Unique identification code of the product-type: **PA MW 80**
Roof sandwichpanel with mineral wool core and stainless steel facing, 80 mm thickness
- Intended use/es: Self-supporting double metal faced insulating panels intended to be fixed to supporting structure, for **roof covers**
- 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	SP, PVDF 25 µm
Thickness of internal face (mm)	0.5
Coating on internal face	SP 15 µm (RAL 9002)
External face profiling	5 ribs (Standard)
Internal face profiling	RIB100 (Standard), Flat
Core material	Basalt mineral wool
Nominal core density (kg/m³)	100 ± 5% kg/m³
Shear strength (MPa)	f _{CV} =1.02 MPa
Shear modulus of the core (MPa)	G _C =170 MPa
Compressive strength (MPa)	f _{Cc} =0.07 MPa
Compressive E-modulus of the core (MPa)	E _{Cc} =0.9 MPa
Cross panel tensile strength (MPa)	f _{Ct} =0.022 MPa
Tensile E-modulus of the core (MPa)	E _{Ct} =1.86 MPa
Bending moment capacity and wrinkling stress	NPD
Thermal conductivity of the core, λ _{Declared} (W/mK)	DoP supplier λ _c =0.043 W/mK
Thermal transmittance (W/m²K)	U _{d,s} =0.53 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-204-17-AUPE)	REI 90
Water permeability	NPD
Air permeability	NPD
Airborne sound isolation	NPD
Sound absorption	NPD
Dangerous substances	NPD
Nominal panel thickness (mm)	80 ± 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	80 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	1000	±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: **PA MW 80**

DoP no. MTG PM/01/2024

Insulation: Basalt mineral wool, density $100 \pm 5\%$ kg/m³ Thickness: 80 mm.
Mass: 17,5 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: Roofs

Thermal transmittance: 0.54 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-204-17-AUPE*

Water permeability: NPD

Air permeability: NPD

Airborne sound isolation: NPD

Sound absorption: NPD

Dangerous substances: NPD

Durability: Pass – all colours