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DECLARATION OF PERFORMANCE

According to Construction Products Regulation EU N° 305/2011

DoP no. **MTG PM/02/2024**

1. Unique identification code of the product-type: **PA MW 100**

   Roof sandwichpanel with mineral wool core and stainless steel facing, 100 mm thickness

2. Intended use/es: Self-supporting double metal faced insulating panels intended to be fixed to supporting structure, for **roof covers**
3. Manufacturer: **SC METIGLA SRL**, Ceptura, 107126, Prahova County, Romania
4. Authorised representative: Not applicable
5. System of AVCP:
   - reaction to fire, fire resistance: **3**
   - other properties: **4**
6. 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
7. 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/m^3)	100 ± 5% kg/m^3
Shear strength (MPa)	f_{Cv}=0.60 MPa
Shear modulus of the core (MPa)	G_C=144 MPa
Compressive strength (MPa)	f_{Cc}=0.06 MPa
Compressive E-modulus of the core (MPa)	E_{Cc}=1.15 MPa
Cross panel tensile strength (MPa)	f_{Ct}=0.027 MPa
Tensile E-modulus of the core (MPa)	E_{Ct}=1.55 MPa
Bending moment capacity and wrinkling stress	NPD
Thermal conductivity of the core, $\lambda_{Declared}$ (W/mK)	DoP supplier λ_c=0.043 W/mK
Thermal transmittance (W/m^{2}K)	$U_{d,s}$=0.43 W/m^2 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-235-16-AUPE*)	REI 180
Water permeability	NPD
Air permeability	NPD
Airborne sound isolation	NPD
Sound absorption	NPD
Dangerous substances	NPD
Nominal panel thickness (mm)	100 ± 2 mm
Product meets the requirements of dimensional tolerances from Annex D of the standard EN 14509	

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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 ≤ 100 mm ± 2 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 ≤ 1 mm ± 30 % of d_s
Length of the panel	L	±5 mm ±10 mm	L ≤ 3 m ± 5 mm L > 3 m ± 10 mm
Cover width of the panel	1000	±2 mm	w ± 2 mm
Deviation from squareness	5 mm	±1 mm	0.006 x 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 ≤ 10 mm 10 mm per metre width for profiles – h > 10 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

Ceptura, Prahova

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EN 14509:2013

Metal faced insulating panel for use in buildings

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

DoP no. **MTG PM/02/2024**
Insulation: Basalt mineral wool, density 100 ± 5% kg/m^3 Thickness: 100 mm.
Mass: 19,5 kg/m^2.
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: 0.43 W/m^2 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-235-16-AUPE*
Water permeability: NPD
Air permeability: NPD
Airborne sound isolation: NPD
Sound absorption: NPD
Dangerous substances: NPD
Durability: Pass – all colours