

DECLARATION OF PERFORMANCE

REGULATION (EU) No 305/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (ANNEX III)

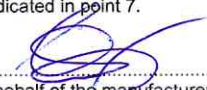
- Name of the product-type: *Metal Sheet metal faced, mineral wool cored insulating panel for use in buildings*
- Unique identification code of the product-type:
Metál-Sheet MW wall panel 80/100/120/150/200
 Depending on the thickness of the facing, the following types are distinguished (I=internal facing; E=external facing):
I 0.5 mm – E 0.5 mm; I 0.5 mm – E 0.6 mm; I 0.6 mm – E 0.6 mm
- Intended use/es: *Self-supporting, metal faced insulating sandwich panel for Internal- and external walls and suspended ceiling use*
- Manufacturer:
METÁL-SHEET LTD.
 H-4002 Debrecen, Csereerdő utca 10.
- System/s of AVCP:
 System 1
- Harmonized standard: In the case of a manufacturer's declaration for construction products governed by harmonized standards:
The ÉMI Non-Profit Limited Liability Company for Quality Control and Innovation in Building (ÉMI Non-profit Ltd.), H-2000 Szentendre, Dózsa György út 26., 1415 notified body, who carried out the following in system 1:
 - the definition of the product type,
 - the basic inspection of the manufacturing plant and the factory production control,
 - the continuous supervision, inspection and evaluation of the factory production control
 (EC-)Performance Stability Certificate issued under the number 1415-CPR-2-(C-45/2012).
- Declared performance/s: According to the declaration
Harmonized technical specification applied: MSZ EN 14509:2014

BASIC PROPERTIES	PERFORMANCE				
	MW OPN 80	MW OPN 100	MW OPN 120	MW OPN 150	MW OPN 200
Thermal transmittance (W/m ² K)	0.479 W/m ² K	0.390 W/m ² K	0.315 W/m ² K	0.255 W/m ² K	0.193 W/m ² K
Thermal conductivity (W/mK)	0.042 W/mK	0.042 W/mK	0.042 W/mK	0.042 W/mK	0.042 W/mK
Facing strength class	S220 GD	S220 GD	S220 GD	S220 GD	S220 GD
Tensile strength (MPa)	0.021 MPa	0.021 MPa	0.022 MPa	0.022 MPa	0.022 MPa
Shear strength (MPa)	0.050 MPa	0.050 MPa	0.054 MPa	0.054 MPa	0.080 MPa
Reduced long term shear strength (kPa)	-	-	-	-	-
Shear modulus (core) (MPa)	1.846 MPa	1.324 MPa	1.324 MPa	1.324 MPa	1.324 MPa
Compressive strength (core) (MPa)	0.054 MPa	0.054 MPa	0.080 MPa	0.080 MPa	0.080 MPa
Creep coefficient	-	-	-	-	-
Bending resistance in the span					
positive bending (kNm/m)	0.68 kNm/m	1.06 kNm/m	1.06 kNm/m	1.06 kNm/m	1.06 kNm/m
positive bending, elevated temperature (kNm/m)	0.61 kNm/m	0.95 kNm/m	0.95 kNm/m	0.95 kNm/m	0.95 kNm/m
negative bending (kNm/m)	0.68 kNm/m	1.06 kNm/m	1.06 kNm/m	1.06 kNm/m	1.06 kNm/m
negative bending, elevated temperature (kNm/m)	0.61 kNm/m	0.95 kNm/m	0.95 kNm/m	0.95 kNm/m	0.95 kNm/m
Bending resistance at an internal support					
positive bending (kNm/m)	0.37 kNm/m	0.58 kNm/m	0.58 kNm/m	0.58 kNm/m	0.58 kNm/m
positive bending, elevated temperature (kNm/m)	0.34 kNm/m	0.53 kNm/m	0.53 kNm/m	0.53 kNm/m	0.53 kNm/m
negative bending (kNm/m)	0.37 kNm/m	0.58 kNm/m	0.58 kNm/m	0.58 kNm/m	0.58 kNm/m
negative bending, elevated temperature (kNm/m)	0.34 kNm/m	0.53 kNm/m	0.53 kNm/m	0.53 kNm/m	0.53 kNm/m
Wrinkling strength (external face)					
in span (N/mm ²)	16 N/mm ²	25.00 N/mm ²	25.00 N/mm ²	25.00 N/mm ²	25.00 N/mm ²
in span, elevated temperature (N/mm ²)	14.40 N/mm ²	22.50 N/mm ²	22.50 N/mm ²	22.50 N/mm ²	22.50 N/mm ²
at internal support (N/mm ²)	8.81 N/mm ²	13.76 N/mm ²	13.76 N/mm ²	13.76 N/mm ²	13.76 N/mm ²
at internal support, elevated temperature (N/mm ²)	7.93 N/mm ²	12.38 N/mm ²	12.38 N/mm ²	12.38 N/mm ²	12.38 N/mm ²
Wrinkling strength (internal face)					
in span (N/mm ²)	8.81 N/mm ²	13.76 N/mm ²	13.76 N/mm ²	13.76 N/mm ²	13.76 N/mm ²
in span, elevated temperature (N/mm ²)	7.93 N/mm ²	12.38 N/mm ²	12.38 N/mm ²	12.38 N/mm ²	12.38 N/mm ²
Reaction to fire	A2 – s1, d0	A2 – s1, d0	A2 – s1, d0	A2 – s1, d0	A2 – s1, d0
Fire resistance	E60; EI30*	E60; EI60*	E60; EI60*	E120; EI180*	E120; EI180*
External fire performance	NPD	NPD	NPD	NPD	NPD
Water permeability	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD
Water vapour permeability	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	Rw+C=28dB	Rw+C=28dB	Rw+C=28dB	Rw+C=28dB	Rw+C=28dB
Durability	Pass - all colours	Pass - all colours	Pass - all colours	Pass - all colours	Pass - all colours

*Other characteristics of the fire resistance limit values: The connection between the steel receiving profile on the edges of the model and the sandwich panel was also formed with Ø4.8 x 20 mm galvanized self-cutting corset screws, the distance of the screws was 250 mm. The panels are attached to the intermediate selemen with a Ø3.2x16mm galvanized self-drilling screw at a distance of up to 250 mm.

- The performance of the product specified in points 1 and 2 corresponds to the declaration performance indicated in point 7. Only the manufacturer specified in point 4 shall be responsible for issuing this performance declaration.

Debrecen, 2023.09.22. v.4.

 Approved by: 
 (On behalf of the manufacturer)

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