METAL-SHEET
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DECLARATION OF PERFORMANCE

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

1. Name of the product-type:

Metal Sheet metal faced, PIR cored insulating panel for use in buildings

2. Unique identification code of the product-type:

Metál-Sheet PIR roof panel 40/60/80/100/120/150

Depending on the thickness of the facing, the following types are distinguished (I=internal facing; E=external facing):
I 0.4 mm – E 0.4 mm; I 0.4 mm – E 0.5 mm; I 0.5 mm – E 0.5 mm; I 0.5 mm – E 0.6 mm; I 0.6 mm – E 0.6 mm

3. Intended use/es:

Self-supporting, metal faced roof or ceiling panel

4. Manufacturer:

METÁL-SHEET LTD.
H-4002 Debrecen, Csereerdő utca 10.

5. System/s of AVCP:

System 1

6. Harmonised standard: In the case of a manufacturer's declaration for construction products governed by harmonised standards:
The ÉMI Non-Profit Limited Liability Company for Quality Control and Innovation in Building (ÉMI Non-profit Llc.)., 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).

7. Declared performance/s: According to the declaration
Harmonised technical specification applied: *EN 14509:2013*

BASIC PROPERTIES	PIR TPN 40	PIR TPN 60	PIR TPN 80	PIR TPN 100	PIR TPN 120	PIR TPN 150
Thermal transmittance *(W/m^2K)*	0.445	0.330	0.252	0.200	0.170	0.130
Thermal conductivity *(W/ mK)*	0.021	0.021	0.021	0.021	0.021	0.021
Facing strength class	S220 GD	S220 GD	S220 GD	S220 GD	S220 GD	S220 GD
Tensile strenght *(MPa)*	0.050	0.052	0.053	0.037	0.050	0.048
Shear strenght *(MPa)*	0.255	0.280	0.180	0.170	0.107	0.106
Reduced long term shear strenght *(kPa)*	20	20	20	20	20	20
Shear modulus (core) *(MPa)*	2.35	2.43	2.31	2.75	2.02	2.02
Compressive strenght (core) *(MPa)*	0.101	0.136	0.115	0.121	0.115	0.115
Creep coefficient	Φ2000=10.3 Φ2000=20.4	Φ2000=10.3 Φ2000=20.4	Φ2000=10.3 Φ2000=20.4	Φ2000=10.3 Φ2000=20.4	Φ2000=10.3 Φ2000=20.4	Φ2000=10.3 Φ2000=20.4
Bending resistance in the span						
positive bending *(kNm/m)*	2.1	2.1	4.8	4.0	4.0	4.0
positive bending, elevated temperature *(kNm/m)*	1.8	1.8	4.1	3.4	3.4	3.4
negative bending *(kNm/m)*	2.1	2.1	4.8	4.0	4.0	4.0
negative bending, elevated temperature *(kNm/m)*	1.8	1.8	4.1	3.4	3.4	3.4
Bending resistance at an internal support						
positive bending *(kNm/m)*	1.7	1.7	3.9	2.5	2.5	2.5
positive bending, elevated temperature *(kNm/m)*	1.5	1.5	3.4	2.2	2.2	2.2
negative bending *(kNm/m)*	1.7	1.7	3.9	2.5	2.5	2.5
negative bending, elevated temperature *(kNm/m)*	1.5	1.5	3.4	2.2	2.2	2.2
Wrinkling strength (external face)						
in span *(N/mm^2)*	106.1	106.1	121.3	66.5	66.5	66.5
in span, elevated temperature *(N/mm^2)*	91.1	91.1	104.2	57.1	57.1	57.1
at internal support *(N/mm^2)*	85.6	85.6	98.6	42.3	42.3	42.3
at internal support, elevated temperature *(N/mm^2)*	73.5	73.5	84.6	36.3	36.3	36.3
Wrinkling strength (internal face)						
in span *(N/mm^2)*	106.1	106.1	121.3	66.5	66.5	66.5
in span, elevated temperature *(N/mm^2)*	85.6	85.6	98.6	42.3	42.3	42.3
Reaction to fire	B-s2, d0	B-s2, d0	B-s2, d0	B-s2, d0	B-s2, d0	B-s2, d0
Fire resistance	NPD	EI 15; E20	EI 20; E30	EI 30	EI 30	EI 30
External fire performance	NPD	NPD	NPD	NPD	NPD	NPD
Water permeability	NPD	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD	NPD
Water vapour permeability	NPD	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD	NPD	NPD
Durability	Pass-all colours	Pass-all colours	Pass-all colours	Pass-all colours	Pass-all colours	Pass-all colours

*Other characteristics of the fire resistance limit values: galvanized self-cutting corset screws were used for the overlays of the sandwich panel, with a rubber washer 500 mm on the external side of the panel and 150 mm on the fire-exposed side of the panel. The connection between the steel receiving profile on the edges of the model and the sandwich panel was also formed with galvanized self-cutting corset screws, the distance of the screws was 300 mm. The panels are attached to the intermediate selemen with a self-drilling screw at a distance of up to 300 mm.

8. 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, 2023.05.15. v.4.

Approved by: .....
(on behalf of the manufacturer)

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HBm-i Bíróság 09-09-010857