

DECLARATION OF PERFORMANCE

No. 5.2/R-MWF/2016

ARCUSLINK
 TŁUMACZENIA SPECJALISTYCZNE s.c.
 93-571 Łódź, ul. Ptasia 5/36
 NIP 7272797565

1. Unique identification code of the product-type:

IzoRoof MWF

2. Intended use or uses:

Elements of roof coverings.

3. Manufacturer:

IZOPANEL Sp. z o.o.**ul. Budowlanych 36, 80-298 Gdańsk**Tel.: **+48 58 340 17 17**, Fax: **+48 58 340 17 18**, E-mail: **info@izopanel.pl**

5. System(s) for assessment and verification of constancy of performance:

3

6a. Harmonised standard:

**EN 14509:2013 "Self-supporting double skin metal faced insulating panels.
 Factory made products. Specifications"**

Notified body or bodies:

- **Building Research Institute – Notified Body No. 1488**
- **FIRES s.r.o. - Notified Body No. 1396**

7. Declared performance:

General characteristics	Performance													
Tensile strength; f_{ct} [MPa]	0.07													
Compressive strength; f_{cc} [MPa]	0.07													
Shear strength; f_{cv} [MPa]														
60-140	0.055													
150-250	0.05													
Creep coefficient; $\varphi_{t=2000h}$	1.17													
Creep coefficient; $\varphi_{t=100000h}$	1.88													
Long-term shear strength; f_{cvt} [MPa]														
60-140	0.0275													
150-250	0.025													
Shear modulus; G_c [MPa]														
60-140	3.0													
150-250	2.5													
Critical stress [MPa]:														
Panel thickness [mm]	60-140							150-250						
Ext. side – span – ambient temp.	140							85						
Ext. side – span – increased temp.	130							80						
Ext. side – support – ambient temp.	250							250						
Ext. side – support – increased temp.	250							250						
Int. side – span – ambient temp.	80							60						
Int. side – support – ambient temp.	90							75						
Bending moment [MPa]:														
Panel thickness [mm]	60	75	80	100	120	125	140	150	160	175	180	200	230	250
<i>moment in span, ext. cladding – normal temp.</i>	4.13	5.07	5.39	6.65	7.91	8.22	9.17	9.80	6.33	6.90	7.09	7.86	9.01	9.77
<i>moment in span, ext. cladding – increased temp.</i>	3.83	4.71	5.00	6.17	7.34	7.63	8.51	9.10	5.96	6.50	6.68	7.40	8.48	9.20
<i>moment in span, int. cladding – normal temp.</i>	1.89	2.32	2.46	3.04	3.61	3.76	4.19	4.48	3.57	3.90	4.01	4.44	5.09	5.52
<i>moment in span, int. cladding – increased temp.</i>	1.79	2.20	2.34	2.89	3.43	3.57	3.98	4.25	3.28	3.57	3.67	4.07	4.66	5.06

General characteristics	Performance													
<i>moment in support, ext. cladding – normal temp.</i>	7.37	9.05	9.62	11.87	14.12	14.68	16.37	17.49	18.62	20.30	20.87	23.12	26.49	28.74
<i>moment in support, ext. cladding – increased temp.</i>	7.37	9.05	9.62	11.87	14.12	14.68	16.37	17.49	18.62	20.30	20.87	23.12	26.49	28.74
<i>moment in support, int. cladding – normal temp.</i>	2.12	2.61	2.77	3.42	4.07	4.23	4.71	5.04	4.47	4.87	5.01	5.55	6.36	6.90
<i>moment in support, int. cladding – increased temp.</i>	2.00	2.46	2.62	3.23	3.84	3.99	4.45	4.76	4.17	4.55	4.67	5.18	5.93	6.44
Panel thickness [mm]	60	75	80	100	120	125	140	150	160	175	180	200	230	250
Thermal conductivity; U	0.63	0.51	0.48	0.39	0.33	0.31	0.28	0.26	0.25	0.23	0.22	0.2	0.18	0.16
Thermal conductivity coefficient [$\lambda_{\text{declared}}$]	0.04													
External fire performance – roofs [B _{roof}]	Broof													
<i>Reaction to fire [panel thickness in mm]:</i>														
60-250	A2-s1,d0													

<i>Resistance to fire [panel thickness in mm]:</i>					
60 - 75	NPD				
80-250	REI 60				
Water permeability	A				
Air permeability	<table border="1"> <thead> <tr> <th><i>thrust</i></th> <th><i>suction</i></th> </tr> </thead> <tbody> <tr> <td>n=0.6662 c=0.0177</td> <td>n=1.2430 c=0.0044</td> </tr> </tbody> </table>	<i>thrust</i>	<i>suction</i>	n=0.6662 c=0.0177	n=1.2430 c=0.0044
<i>thrust</i>	<i>suction</i>				
n=0.6662 c=0.0177	n=1.2430 c=0.0044				
Steam permeability	Conforms				
Specific acoustic resistance; $R_w(C, C_{tr})$ [dB]	32(-1,-4)				
Acoustic absorption; α_w	0.15				
Dimensional tolerances	Conforms				
Durability	Conforms				
Hazardous substances	NPD				

Web address where this Declaration of Performance is made available:

www.izopanel.pl

Performance of the above product is in compliance with Declared Performance Package. This Declaration of Performance is issued, in accordance with Regulation (EU) no. 305/2011, at the sole responsibility of the manufacturer as indicated above.

On behalf of the manufacturer signed by:

Adam Muzyczuk

(full name)

Gdańsk, 12.02.2019

(place and date)



(signature)

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