

# DECLARATION OF PERFORMANCE

No. 15.1/W-EPS/2019 16.09.2019

1. Unique identification code of the product-type:

IzoWall EPS

2. Intended use or uses:

External and internal wall elements

3. Manufacturer:

IZOPANEL Sp. z o.o.

ul. Budowlanych 36, 80-298 Gdańsk

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

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5. Harmonised standard:

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

6. Declared performance:

General characteristics	Performance										
	60	75	80	100	120	140	150	160	175	200	250
Panel thickness [mm]											
Tensile strength; $f_{ct}$ [MPa]	0,06										
Compressive strength; $f_{cc}$ [MPa]	0,06										
Shear strength; $f_{cv}$ [MPa]	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,04	0,04
Shear modulus; $G_c$ [MPa]	1,46	1,45	1,45	1,44	1,42	1,41	1,4	1,37	1,33	1,25	1,1
Creep coefficient; $\varphi_{t=2000h}$	NPD										
Creep coefficient; $\varphi_{t=100000h}$	NPD										
Bending strength [kNm/m]											
Panel thickness [mm]	60	75	80	100	120	140	150	160	175	200	250
Int. Side – span – ambient temp.	1,25	1,58	1,69	2,13	2,57	3,02	3,24	3,41	3,68	4,11	4,98
Int. Side – span – increased temp.	1,25	1,58	1,69	2,13	2,57	3,02	3,24	3,41	3,68	4,11	4,98
Int. Side – suport – ambient temp.	1,25	1,57	1,68	2,11	2,57	3,03	3,26	3,43	3,69	4,13	4,99
Int. Side – suport – increased temp.	1,25	1,57	1,68	2,11	2,57	3,03	3,26	3,43	3,69	4,13	4,99
Ext. side – span – ambient temp.	1,88	2,36	2,52	3,15	3,79	4,44	4,76	4,95	5,23	5,7	6,64
Ext. side – span – increased temp.	1,88	2,36	2,52	3,15	3,79	4,44	4,76	4,95	5,23	5,7	6,64
Ext. side – suport – ambient temp.	1,85	2,35	2,51	3,17	3,81	4,44	4,76	4,92	5,17	5,58	6,4
Ext. side – suport – increased temp.	1,85	2,35	2,51	3,17	3,81	4,44	4,76	4,92	5,17	5,58	6,4
Critical stress [MPa]											
Panel thickness [mm]	60	75	80	100	120	140	150	160	175	200	250
Int. Side – span – ambient temp.	60	60	60	60	60	60	60	59	58	57	55
Int. Side – span – increased temp.	60	60	60	60	60	60	60	59	58	57	55
Int. Side – suport – ambient temp.	60	60	60	60	60	60	60	59	58	57	55
Int. Side – suport – increased temp.	60	60	60	60	60	60	60	59	58	57	55
Ext. side – span – ambient temp.	70	70	70	70	70	70	70	68	67	64	58
Ext. side – span – increased temp.	70	70	70	70	70	70	70	68	67	64	58
Ext. side – suport – ambient temp.	70	70	70	70	70	70	70	68	66	63	56
Ext. side – suport – increased temp.	70	70	70	70	70	70	70	68	66	63	56
Panel thickness [mm]	60	75	80	100	120	140	150	160	175	200	250
Thermal conductivity; $U$ [W/m <sup>2</sup> K]	0,62	0,51	0,46	0,38	0,31	0,27	0,26	0,24	0,22	0,2	0,16
Thermal conductivity coefficient [ $\lambda_{declared}$ ]	0,040										
Reaction to fire	E										
Resistance to fire	NPD										

General characteristics	Performance
Bending tensile strength (ceilings)	NPD
Water permeability	NPD
Air permeability	NPD
Steam permeability	NPD
Specific acoustic resistance; $R_w(C, C_{tr})$ [dB]	NPD
Acoustic absorption; $\alpha_w$	NPD
Dimensional tolerances	conforms
Durability	conforms
Hazardous substances	NPD

Web address where this Declaration of Performance is made available:

[www.izopanel.pl](http://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.

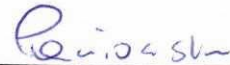
On behalf of the manufacturer signed by:

**Karol Pawłowski**

*(full name)*

**Gdańsk, dnia 05.02.2020 r.**

*(place and date)*



*(signature)*