DECLARATION OF PERFORMANCE

No. 11.06/C PIR-F

1. Unique identification code of the product-type:

IzoCold PIR-F

2. Intended use or uses:

External and internal wall elements

3. Producent:

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:

System 1

6a. Harmonised standard:

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

Notified body or bodies:

- **Certbud sp. z o.o. – Notified Body No. 2310**
- **Building Research Institute – Notified Body No. 1488**
- **FIRES s.r.o. – Notified Body No. 1396**

7. Declared performance:

General characteristics	**Performance**							
Mechanical Resistance								
Panel Thickness [mm]	***120***				***140-220***			
Tensile strenght; f_{ct} [MPa]	0,08				0,07			
Compressive strenght; f_{cc} [MPa]	0,10				0,09			
Shear strenght; f_{cv}[MPa]	0,10				0,07			
Long-term shear strenght; f_{cvt} [MPa]	0,040				0,028			
Shear modulus; G_C [MPa]	2,5				2,1			
Critical stress [MPa]:	**L**(linia)		**R**(rowek)		**M**(mikro)		**E**(gładkie)	
Panel Thickness [mm]	***120***	***140-220***	***120***	***140-220***	***120***	***140-220***	***120***	***140-220***
Ext. side - span - ambient temp.	128	92	108	78	93	67	52	37
Ext. side - span - increased temp.	120	89	101	75	87	65	48	36
Ext. side - support - ambient temp.	100	82	84	69	73	60	40	33
Ext. side — support — increased temp.	92	79	78	67	67	58	37	32
Int. side - span - ambient temp.	119	72	100	60	85	52	41	25
Int. side - span - increased temp.	112	70	94	59	80	50	39	24
Int. side - support - ambient temp.	85	60	71	50	61	43	29	21
Int. side - support - increased temp.	78	58	65	49	56	42	27	20
Bending moment *[kNm/m]:*								
Panel Thickness *[mm]*	***120***	***140***	***160***	***180***	***200***	***220***		
Line, moment in span, ext. cladding - normal temp.	6,89	5,78	6,61	7,43	8,26	9,09		
Line, moment in span, ext. cladding - increased temp.	6,46	5,59	6,39	7,19	7,99	8,79		
Line, moment in span, int. cladding - normal temp.	5,12	3,62	4,14	4,65	5,17	5,69		
Line, moment in span, int. cladding - increased temp.	4,82	3,52	4,02	4,52	5,03	5,53		
Line, moment on support, ext. cladding - normal temp.	5,38	5,34	6,10	6,87	7,63	8,40		
Line, moment on support, ext. cladding - increased temp.	4,95	5,21	5,96	6,71	7,45	8,20		
Line, moment on support, int. cladding - normal temp.	3,66	3,01	3,45	3,88	4,31	4,74		
Line, moment on support, int. cladding - increased temp.	3,36	2,91	3,33	3,75	4,17	4,58		
Groove, moment in span, ext. cladding - normal temp.	5,81	4,9	5,6	6,3	7,00	7,71		
Groove, moment in span, ext. cladding - increased temp.	5,43	4,71	5,38	6,06	6,73	7,41		
Groove, moment in span, int. cladding - normal temp.	4,30	3,01	3,45	3,88	4,31	4,74		
Groove, moment in span, int. cladding - increased temp.	4,05	2,96	3,39	3,81	4,24	4,66		

General characteristics		Performance					
Panel Thickness *[mm]*		***120***	***140***	***160***	***180***	***200***	***220***
Groove, moment in support, ext. cladding - normal temp		5,06	4,52	5,17	5,82	6,47	7,11
Groove, moment on support, ext. cladding - increased temp.		4,63	4,4	5,03	5,66	6,29	6,92
Groove, moment on support, int. cladding - normal temp		3,06	2,51	2,87	3,23	3,59	3,95
Groove, moment on support, int. cladding - increased temp.		2,8	2,46	2,81	3,17	3,52	3,87
Micro, moment in span, ext. cladding - normal temp.		5,00	4,21	4,81	5,41	6,02	6,62
Micro, moment in span, ext. cladding - increased temp.		4,68	4,08	4,67	5,25	5,84	6,42
Micro, moment in span, int. cladding - normal temp.		3,66	2,61	2,99	3,36	3,74	4,11
Micro, moment in span, int. cladding - increased temp.		3,44	2,51	2,87	3,23	3,59	3,95
Micro, moment on support, ext. cladding - normal temp		4,36	3,89	4,45	5,01	5,57	6,13
Micro, moment on support, ext. cladding - increased temp.		3,98	3,77	4,31	4,85	5,39	5,93
Micro, moment on support, int. cladding - normal temp		2,63	2,16	2,47	2,78	3,09	3,4
Micro, moment on support, int. cladding - increased temp.		2,41	2,11	2,41	2,71	3,02	3,32
Smooth, moment in span, ext. cladding - normal temp.		2,80	2,32	2,66	2,99	3,32	3,66
Smooth, moment in span, ext. cladding - increased temp		2,58	2,26	2,58	2,91	3,23	3,56
Smooth, moment in span, int. cladding - normal temp.		1,76	1,26	1,44	1,62	1,8	1,98
Smooth, moment in span, int. cladding - increased temp.		1,68	1,21	1,38	1,55	1,72	1,90
Smooth, moment on support, ext. cladding - normal temp.		2,42	2,14	2,44	2,75	3,05	3,36
Smooth, moment on support, ext. cladding - increased temp.		2,21	2,14	2,44	2,75	3,05	3,36
Smooth, moment on support, int. cladding - normal temp.		1,25	1,05	1,21	1,36	1,51	1,66
Smooth, moment on support, int. cladding - increased temp.		1,16	1,00	1,15	1,29	1,44	1,58
Creep coefficient							
$\varphi_{t=2000h}$		1,57					
$\varphi_{t=100000h}$		2,44					
Thermal conductivity; U [W/m^{2}K]	**Panel thickness [mm]**	***120***	***140***	***160***	***180***	***200***	***220***
	Thermal conductivity	0,18	0,15	0,13	0,12	0,11	0,1
Heat transfer coefficient; [$\lambda_{declared}$] [W/mK]		0,021					
Reaction to fire		B-s1,d0					
Resistance to fire	**Panel thickness [mm**	***120-180***			***200-220***		
	Resistance to fire	EI 30			EI 60		
Flexural strength (ceilings)		NPD					
Water permeability		Class A					
Air permeability		*Thrust*			*Suction*		
		n=1,1983			n=1,0141		
		C = 0,0022			C = 0,0036		
Water vapour permeability		Vapour-proof					
Weighted sound reduction index; $R_w(C,C_{tr})$ [dB]		27(-3,-5)					
Sound absorption; α_w		NPD					
Durability		Pass					
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:

Karol Pawłowski

(Full name)

Gdańsk, dnia 21.07.2026

(place and date)

(signature)