DECLARATION OF PERFORMANCE

No. 21.05/R PIR-F

1. Unique identification code of the product-type:

IzoRoof PIR-F

2. Intended use/es:

Roofs and roofs cladding

3. Manufacturer:

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

5. System/s of AVCP:

System 1

6a. Harmonised standard:

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

Notified body/ies:

- **Certbud sp. z o.o. – Notified Body No. 2310**
- **Instytut Techniki Budowlanej – Notified Body no. 1488**
- **Polskie Centrum Badań i Certyfikacji S.A. - Notified Body no. 1434**
- **FIRES s.r.o. - Notified Body no. 1396**

7. Declared performance/s:

Essential Characteristics	**Performance Characteristics**						
Metal faces thickness (external / internal) 0,4 / 0,4 [mm]							
Mechanical Resistance							
Shear strength; f_{cv}[MPa]	≥0,07						
Shear Modulus; G_C [MPa]	≥1,5						
Shear strength after long-term loading; f_{cvt} [MPa]	≥0,03						
Compressive strength; f_{cc} [MPa]	≥0,09						
Cross panel tensile strength; f_{ct} [MPa]	≥0,08						
Bending moment capacity M_u [kNm/m] Side (external/internal)	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	External side	1,43	2,36	3,17	4,21	5,29	4,89	5,78
	Internal side	1,74	2,34	3,00	3,64	4,29	4,95	5,61
Wrinkling stress δ_w [MPa] Side (external/internal)	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	Wrinkling stress	176/93					134/93	
Bending moment capacity over a central support M_u [kNm/m] side (external/internal))	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	External side	1,74	2,48	3,15	3,58	4,14	4,87	5,40
	Internal side	2,00	2,66	3,36	4,08	4,87	4,47	5,09
Wrinkling stress over a central support δ_w [MPa] Side (external/internal)	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	Wrinkling stress over a central support	280/98					280/80	
Creep coefficient								
$j_{t=2000h}$	1,40							
$j_{t=100000h}$	2,16							
Thermal transmittance; U [W/m^{2}K]	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	Thermal transmittance	0,53	0,34	0,26	0,21	0,17	0,15	0,13
Thermal conductivity [$\lambda_{declared}$] [W/mK]	≤0,021							
External fire performance - roofs	B_{ROOF} (t1,t2,t3)							
Reaction to fire	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	Reaction to fire	B-s2, d0	B-s1, d0					
Fire resistance	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	Fire resistance class	NPD			REI 30			
Flexural tensile strength (ceilings)	NPD							
Water permeability	Class A							
Air permeability	Thrust			Suction				
	n = 0,6443			n = 0,4498				
	C = 0,1098			C = 0,2433				

Essential Characteristics	Performance Characteristics							
Water vapour permeability	Impermeable							
Airborne sound insulation; $R_w(C,C_{tr})$ [dB]	25 (-2,-5)							
Dimensional tolerances	Pass							
Durability	Pass – all colours							
Dangerous substances	NPD							
Metal faces thickness (external / internal) 0,5 / 0,4 [mm] and 0,5 / 0,5 [mm]								
Mechanical Resistance								
Shear strength; f_{cv}[MPa]	≥0,1							
Shear Modulus; G_C [MPa]	≥1,5							
Shear strength after long-term loading; f_{cvt} [MPa]	≥0,03							
Compressive strength; f_{cc} [MPa]	≥0,09							
Cross panel tensile strength; f_{ct} [MPa]	≥0,05							
Bending moment capacity M_u [kNm/m] Side (external/internal)	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	External side	1,43	5,52	7,21	8,89	10,58	12,26	13,95
	Internal side	1,74	2,03	2,66	3,28	3,90	4,52	5,14
Wrinkling stress δ_w [MPa]; Side (external/internal)	Wrinkling stress	176/86						
Bending moment capacity over a central support M_u [kNm/m] side (external/internal))	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	External side	1,74	7,37	9,62	11,87	14,12	16,37	18,62
	Internal side	2,00	2,35	3,07	3,79	4,51	5,22	5,94
Wrinkling stress over a central support δ_w [MPa] Side (external/internal)	Wrinkling stress over a central support	250/98						
Creep coefficient								
$j_{t=2000h}$	1,40							
$j_{t=100000h}$	2,16							
Thermal transmittance; U [W/m^{2}K]	***Panel thickness*** [mm]	**40**	**60**	**80**	**100**	**120**	**140**	**160**
	Thermal transmittance	0,53	0,34	0,26	0,21	0,17	0,15	0,13
Thermal conductivity [$l_{declared}$] [W/mK]	≤0,021							
External fire performance - roofs	B_{RooF} (t1,t2,t3)							
Reaction to fire	***Panel thickness*** [mm]	***40***	***60***	***80***	***100***	***120***	***140***	***160***
	Reaction to fire	B-s2, d0	B-s1, d0					
Fire resistance	***Panel thickness*** [mm]	**40**	**60**	**80**	**100**	**120**	**140**	**160**
	Fire resistance class	NPD			REI 30			
Flexural tensile strength (ceilings)	NPD							
Water permeability	Class A							
Air permeability	Thrust			Suction				
	n = 0,6443			n = 0,4498				
	C = 0,1098			C = 0,2433				
Water vapour permeability	Impermeable							
Airborne sound insulation; $R_w(C,C_{tr})$ [dB]	25 (-2,-5)							
Dimensional tolerances	Pass							
Durability	Pass – all colours							
Dangerous substances	NPD							

Website where the copy of the Declaration of Performance is made available:

www.izopanel.pl

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Karol Pawłowski

(name and surname)

PODPIS ZAUFANY
KAROL
PAWŁOWSKI
07.08.2026 11:26:08 GMT+0200
Dokument podpisany elektronicznie
podpisem zaufanym

Gdańsk, 21.07.2026

(place and date)

(signature)