

1. Unique identification code of the product –type:

IzoWall PIR-N

2. Intended use/es

External walls and wall cladding; walls (including partitions) and ceilings within the building envelope

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 3, 4

6a. Harmonised standard:

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

Notified body/ies:

- Building Research Institute – Notified Body No. 1488
- Fires s.r.o. – Notified Body No. 1396
- Polskie Centrum Badań i Certyfikacji S.A. – Notified Body No. 1434

7. Declared performance/s:

Essential Characteristics	Performance Characteristics												
Mechanical Resistance													
Shear strength; f_{cv} [MPa]	$\geq 0,17$												
Shear Modulus; G_c [MPa]	$\geq 1,5$												
Shear strength after long-term loading; f_{cvt} [MPa]	$\geq 0,065$												
Compressive strength; f_{cc} [MPa]	$\geq 0,1$												
Cross panel tensile strength; f_{ct} [MPa]	$\geq 0,05$												
Bending moment capacity M_u [kNm/m] Side (external/internal)	Panel thickness [mm]	40	60	80	100	110	120	140	160	180	200	220	
	External side	1,82	2,74	3,66	4,58	5,04	5,50	6,34	7,25	8,16	9,07	9,98	
	Internal side	1,31	1,97	2,64	3,30	3,63	3,96	3,47	3,97	4,47	4,97	5,47	
Wrinkling stress δ_w [MPa] Side (external/internal)	Panel thickness [mm]	40-120						140-220					
	Wrinkling stress	102/92						101/69					
Bending moment capacity over a central support M_u [kNm/m] Side (external/internal)	Panel thickness [mm]	40	60	80	100	110	120	140	160	180	200	220	
	External side	2,04	3,07	4,10	5,13	5,65	6,17	6,26	7,16	8,06	8,96	9,85	
	Internal side	1,45	2,18	2,91	3,65	4,01	4,38	3,56	4,07	4,58	5,09	5,60	
Wrinkling stress over a central support δ_w [MPa] Side (external/internal)	Panel thickness [mm]	40-120						140-220					
	Wrinkling stress over a central support	114/101						99/70					
Creep coefficient													
$\phi_{t=2000h}$	1,70												
$\phi_{t=100000h}$	2,65												

Essential Characteristics	Performance Characteristics												
Thermal transmittance; U [W/m²K]	Panel thickness [mm]	40	60	80	100	110	120	140	160	180	200	220	
	Thermal transmittance	0,57	0,37	0,27	0,22	0,20	0,18	0,16	0,14	0,12	0,11	0,10	
Thermal conductivity [$\lambda_{\text{declared}}$] [W/mK]	≤0,022												
Reaction to fire	B-s2,d0												
Fire resistance	Panel thickness [mm]	40-60					80-220						
	Fire resistance class	NPD					EI 15						
Flexural tensile strength (ceilings)	NPD												
Water permeability	Class A												
Air permeability	Thrust					Suction							
	n = 0,8388 c = 0,0116					n = 1,1072 c = 0,0074							
Water vapour permeability	Pass												
Airborne sound insulation; $R_w(C, C_{tr})$ [dB]	25 (-2;-5)												
Sound absorption α_w	0,15												
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

(full name)

Gdańsk, dnia 07.06.2024

(place and date)

Kierownik działu
Badań Rozwoju i Kontroli Jakości
Karol Pawłowski
(signature)