



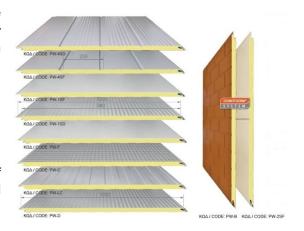
DOMOLAM WALL PANELS - PW

DESCRIPTION:

The products DOMOLAM **PW** are self-supporting double skin metal faced insulating panels, which are factory manufactured from two metal sheets joined together with polyurethane foam.

APPLICATION SCOPE:

The products are used for the covering of external and internal walls, as well as ceilings at several types of buildings, providing water and air tightness and thermal insulation.



QUALITY:

Products are submitted to tests according to the

EN 14509:2013.



ENVIRONMENTAL PROTECTION:

The PIR foam consists of closed cells, is chemically neutral, non toxic, and is produced from environmentally friendly technology with N-Pentane as blow agent without the use of CFC, HCFC.



TECHNICAL CHARACTERISTICS:

PW — The loads calculated are the necessaries to obtain the max deformation in mm [span*10] according to EN14509

Panel thickness	Metal sheet thickness	Weight	U-Value	Span	Single span							
(mm)	(mm)	(kg/m²)	(W/m ² K)	(m)	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
30		9,44	0,72		2,08	0,93	0,47	0,26	0,16	0,10	0,06	0,04
40	0,50-0,45	9,85	0,54		3,02	1,41	0,74	0,42	0,25	0,16	0,11	0,07
50		10,26	0,43	q _	3,99	1,91	1,03	0,59	0,37	0,24	0,16	0,11
60		10,67	0,36	(kN/m²)	4,98	2,43	1,33	0,78	0,49	0,32	0,22	0,15
80		11,49	0,27		6,98	3,51	1,97	1,19	0,76	0,51	0,35	0,25
100		12,31	0,22		9,01	4,61	2,64	1,63	1,06	0,71	0,50	0,35





DECLARATION OF PERFORMANCE No.1/PIR/WALL

1. Unique identification code of the product-type: DOMOLAM PIR PW

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

PW-F, PW-D, PW-LC, PW-C, PW-B, PW-V, PW-LCV, PW-1SF, PW-2SF, PW-4SF, PW-1SV, PW-2SV, PW-4SV, PW-1SC, PW-LCV, PW-4SC, PW-1SD, PW-4SD

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Self supporting double skin metal faced insulating panels - External or internal walls & ceilings

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

PAGOUNI S.A., 57008 Echedoros, Thessaloniki, Greece

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Not relevant

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

AVCP - System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

CSI SPA No. 497 - EN 14509

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Not relevant





9. Declared performance

Essential characteristics	Performance	Harmonized technical specification	
External pre-painted galvanized steel	S280+Z140		
Internal pre-painted galvanized steel	S280+Z140	EN 10346	
Thickness in mm	30,40,50,60,80,100	EN 14509	
External pre-painted galvanized steel thickness	0,35;0,40;0,45;0,50;0,55		
Internal pre-painted galvanized steel thickness	0,30;0,35;0,40;0,45;0,50	EN 10143	
External coating (µm)			
Internal coating (µm)	Standard Polyester 20+5	EN 10169	
Density (kg/m³)	45	EN 1602	

Thermal conductivity (W/mK)	0,0	215	EN 13165
	Thickness	U - Value	
	30	0,72	
	40	0,54	
Thermal transmittance (W/m²K)	50	0,43	EN ISO 10456
	60	0,36	211100 10100
	80	0,27	
	100	0,22	

Reaction to fire	B-s	2-d0	EN 13501-1		
	Thickness	Resistance			
	30				
	40	NPD	EN 13501-2		
Resistance to fire	50				
	60				
	80				
	100	E 30			





Water permeability	Class A	EN 12865		
Water vapour permeability	Impermeable	EN 14509		
Air permeability	0,19 m ³ /m ² /h at 50 Pa	EN 12114		
Airborne sound insulation Rw (dB)	25	EN ISO 717-1		
Sound absorption a _w	0,10	EN ISO 11654		
Durability	Pass	EN 14509		

Mechanical resistance

Tensile strength (MPa)		0,13		
Compressive strength (MPa)	0,12			
Shear strength (MPa)	0,10			
Shear modulus (MPa)	2,80			
Wrinkling stress (external face) panel thickness	30	60	100	
- in span (MPa)	96	115	140	
- in span, elevated temperature (MPa)	94	112	134	EN 14509
- at central support (MPa)	92	100	129	
 at central support, elevated temperature (MPa) 	90	98	127	
Wrinkling stress (internal face) panel thickness	30	60	100	
- in span (MPa)	85	90	110	
- at central support (MPa)	80	86	95	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Vrellas Charisis - Quality Engineer of Pagouni SA