



Appendix 2 to Declaration of Performance NO. 01/01/14509

Manufacturer: **Balex Metal sp. z o.o.**

Declared performance		Product				Unit	Norm	
		PU-PIR-W-PLUS						
Intended use		Self-supporting sandwich panels with rigid polyisocyanurate (PIR) foam core as external walls, wall cladding and partition walls						
Harmonised norm		PN-EN 14509:2013 „Self-supporting double skin metal faced insulating panels – Factory made products - Specification”						
Year of CE marking		11						
Panel thickness		60	80	100	120	mm	EN 14509	
Cladding steel grade		S250GD, 1.4301				-	EN 10346	
Type of coating	metallic	Z100, Z185, Z225, Z275, AZ150, AZ185, ZA130, ZA255				-	EN 10346	
	organic	SP, HDP, PVD(F), PVC(P), PVC(F), PUR				-	EN 10169	
Cladding thickness	external	0,5; 0,6; 0,7				mm	EN 10143	
	internal	0,4; 0,5; 0,6; 0,7				mm	EN 10143	
Type of profile	external	L (lining), M (microprofiled), G (flat), C (clearline); R (grooving), S (softline)				-		
	internal	L (lining), G (flat)				-		
Core material		PIR				-		
Core density		40				kg/m ³		
Mass of panel		11,41	12,11	12,91	13,81	kg/m ²		
Reaction to fire		Bs2d0				-	EN 13501	
Fire resistance		NPD	E115 (claddings with org. coat.)			-	EN 13501	
Tensile strenght f _{ct}		0,08				MPa	EN 14509	
Shear strenght f _{cv}		0,13	0,12	0,12	0,12	MPa	EN 14509	
Shear modulus. G _c		3,5				MPa	EN 14509	
Compressive strenght f _{cc}		0,13				MPa	EN 14509	
Wrinkling strenght	In span:	external cladding	M: 249 L: 109 G,R,S: 85	M: 249 L: 106 G,R,S: 87	M: 249 L: 104 G,R,S: 87	M: 249 L: 102 G,R,S: 87	MPa	EN 14509
		external cladding at increased temp.	M: 227 L: 99 G,R,S: 77	M: 227 L: 97 G,R,S: 79	M: 227 L: 95 G,R,S: 79	M: 227 L: 93 G,R,S: 79	MPa	EN 14509
		internal cladding	L: 136 G: 85	L: 133 G: 87	L: 131 G: 87	L: 128 G: 87	MPa	EN 14509
	Over support:	external cladding	M: 174 L: 76 G,R,S: 59	M: 174 L: 74 G,R,S: 61	M: 174 L: 72 G,R,S: 61	M: 174 L: 71 G,R,S: 61	MPa	EN 14509
		external cladding at increased temp.	M: 159 L: 69 G,R,S: 54	M: 159 L: 68 G,R,S: 55	M: 159 L: 66 G,R,S: 55	M: 159 L: 65 G,R,S: 55	MPa	EN 14509
		internal cladding	L: 116 G: 72	L: 107 G: 70	L: 99 G: 70	L: 90 G: 70	MPa	EN 14509
	Correlation coefficient, external cladding		d=0,6mm: 0,88 dla L; 0,81 for M d=0,7mm: 0,79 dla L; 0,73 for M				-	EN 14509
	Correlation coefficient, external cladding		d=0,5mm: 0,8 for L; d=0,6mm: 0,7 for L; d=0,7mm: 0,63 for L				-	EN 14509
	Heat conductivity coefficient λ _D		0,022				W/mK	EN 14509
	Heat transfer coefficient U _{a,s}		0,39	0,28	0,22	0,19	W/m ² K	EN 14509
Water permeability		Class A				m ³ /hm ²	EN 12865	
Air permeability		≤0,2				m ³ /hm ²	EN 12114	
Water wapour permeability		Impermeable				-	EN 14509	
Sound insulation		R _w ≥25, R _{A1} ≥23, R _{A2} ≥21				dB	EN ISO 717-1	
Sound absorbtion		α=0,1				-	EN ISO 11654	
Durability		Pass DUR 1				-	EN 14509	

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