



Appendix 3 (v15012019) to Declaration of Performance NO. 01/01/14509

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

Declared performance		Product				Unit	Norm	
		PU-PIR-F						
Intended use		Self-supporting sandwich panels with rigid polyisocyanurate (PIR) foam core as external walls, wall cladding, partition walls and ceilings						
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		120	160	180	200	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)				-		
	internal	L (lining), G (flat)				-		
Core material		PIR				-		
Core density		40				kg/m ³		
Mass of panel		13,4	15,0	15,8	16,8	kg/m ²		
Reaction to fire		Bs1d0 (Bs2d0 for internal cladding 0,4mm)				-	EN 13501	
Fire resistance		E90/EI30 (claddings with org. coat. n/a for ceilings)			EI60 (claddings with org. coat. n/a for ceilings)	-	EN 13501	
Tensile strenght f_{ct}		0,08				MPa	EN 14509	
Shear strenght f_{cv}		0,12	0,09			MPa	EN 14509	
Shear modulus. G_c		3,5	3			MPa	EN 14509	
Compressive strenght f_{cc}		0,13				MPa	EN 14509	
Wrinkling strenght	In span:	external cladding	M: 249 L: 102 G,R,S: 87	M: 233 L: 102 G,R,S: 78	M: 218 L: 102 G,R,S: 78	M: 187 L: 102 G,R,S: 78	MPa	EN 14509
		external cladding at increased temp.	M: 227 L: 102 G,R,S: 87	M: 213 L: 102 G,R,S: 78	M: 198 L: 102 G,R,S: 78	M: 170 L: 102 G,R,S: 78	MPa	EN 14509
		internal cladding	L: 102 G: 87	L: 102 G: 78	L: 102 G: 78	L: 102 G: 78	MPa	EN 14509
	Over support:	external cladding	M: 174 L: 71 G,R,S: 61	M: 163 L: 71 G,R,S: 55	M: 152 L: 71 G,R,S: 55	M: 131 L: 71 G,R,S: 55	MPa	EN 14509
		external cladding at increased temp.	M: 159 L: 65 G,R,S: 55	M: 149 L: 65 G,R,S: 50	M: 139 L: 65 G,R,S: 50	M: 119 L: 65 G,R,S: 50	MPa	EN 14509
		internal cladding	L: 71 G: 61	L: 71 G: 55	L: 71 G: 55	L: 71 G: 55	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 $U_{0,5}$		0,18	0,14	0,12	0,11	W/m ² K	EN 14509
Water permeability		Class A				m ³ /hm ²	EN 12865	
Air permeability		$\leq 0,2$				m ³ /hm ²	EN 12114	
Water vapour permeability		Impermeable				-	EN 14509	
Sound insulation		$R_w \geq 25, R_{A1} \geq 23, R_{A2} \geq 21$				dB	EN ISO 717-1	
Sound absorbtion		$\alpha = 0,1$				-	EN ISO 11654	
Durability		Pass DUR 1				-	EN 14509	

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