



**DECLARATION OF PERFORMANCE**

**No. MW-W-ST/2020/1**

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1. **Unique identification code of the product-type:** Wall panel MW STANDARD (MW-W-ST)
2. **Intended use/es:** Self-supporting sandwich panels with mineral wool core as external walls, wall claddings, partition walls and ceilings
3. **Manufacturer:** BALEX METAL sp. z o.o., ul. Wejherowska 12C, 84-239 Bolszewo
4. **System for assessment and verification of functional properties stability:** 3
5. **Harmonised standard:** PN-EN 14509:2013
6. **Notified body/ies:** Instytut Techniki Budowlanej (No. 1488), FIRES, s.r.o (No. 1396)
7. **Declared performance/s:** Table 1

**Tab. 1:** Essential characteristics

Essential characteristics				Performance								
Steel grade				S250 - 280GD, 1.4301								
Type of coating				SP, HDP, PVDF, PVC(P), PVC(F), PUR								
Cladding thickness	External [mm]			0,5; 0,6; 0,7								
	Internal [mm]			0,5; 0,6; 0,7								
Cladding profile types	External			M (Micro-profile), L (Lined), R (Grooved), G (Plain), C (Clearline)								
	Internal			L (Lined), G (Plain), C (Clearline)								
Core material				Mineral wool								
Nominal core density [kg/m <sup>3</sup> ]				110								
Nominal thickness d <sub>N</sub> [mm]				80	100	120	150	160	180	200	240	
Panel weight [kg/m <sup>2</sup> ]				17.7	19.8	21.9	25.01	26.1	28.2	30.3	34.5	
Mechanical resistance	Wrinkling strength	Compressive strength f <sub>cc</sub> [MPa]		0,100	0,100	0,100	0,100	0,100	0,100	0,092	0,092	
		Tensile strength f <sub>ct</sub> [MPa]		0,100	0,100	0,100	0,100	0,100	0,100	0,100	0,100	0,100
		Shear strength f <sub>cv</sub> [MPa]		0,062	0,062	0,062	0,062	0,062	0,062	0,062	0,062	0,062
		Shear modulus G <sub>c</sub> [MPa]		3,2	3,2	3,5	3,5	3,5	3,5	3,5	3,5	3,5
		In span	External cladding [MPa]	M	146	142	139	134	129	120	112	94
				L	122	124	127	130	130	130	130	101
				G, R, C	106	103	101	96	96	95	95	93
			External cladding at increased temperature [MPa]	M	146	142	139	134	129	120	112	94
				L	122	124	127	130	130	130	130	101
				G, R, C	106	103	101	96	96	95	95	93
		Internal cladding [MPa]	L	159	150	141	128	125	118	112	98	
			G, C	119	115	111	106	105	103	102	98	
		At a support	External cladding [MPa]	M	144	136	128	116	113	108	103	93
				L	100	104	108	114	112	107	103	93
G, R, C	105			100	96	89	88	86	84	80		
External cladding at increased temperature [MPa]	M		144	136	128	116	113	108	103	93		
	L		100	104	108	114	112	107	103	93		
	G, R, C		105	100	96	89	88	86	84	80		
Internal cladding [MPa]	L	131	128	124	120	117	113	108	98			
	G, C	116	110	103	94	95	98	101	98			
Reduction factor	Cladding thickness	0,6mm	0,88 (Micro-profile); 0,89 (Lined); 1 (Grooved, Plain, Clearline)									
		0,7mm	0,80 (Micro-profile); 0,80 (Lined); 1 (Grooved, Plain, Clearline)									



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**Tab. 1: Essential characteristics**

Nominal thickness $d_N$ [mm]		80	100	120	150	160	180	200	240
Thermal transmittance	Thermal transmittance $U_{d,s}$ [W/ m <sup>2</sup> K]	0,47	0,38	0,32	0,26	0,24	0,22	0,19	0,17
	Thermal conductivity $\lambda_D$ [W/mK]	0,040							
Reaction to fire	Reaction to fire classification	A2-s1,d0							
Fire resistance	Fire resistance classification of walls		EI 120	EI 240					
Water permeability	Resistance classification	A							
Air permeability	The amount of permeating air [m <sup>3</sup> /(m <sup>2</sup> h)]	0 (Impermeable)							
Water vapour permeability	Water vapour transmission coefficient $\mu$	$\infty$ (Impermeable)							
Airborne sound insulation	Single number ratings $R_w, R_{A1}, R_{A2}$ [dB]	$R_w \geq 32, R_{A1} \geq 29, R_{A2} \geq 28; R_w \geq 33, R_{A1} \geq 31, R_{A2} \geq 29(160)$							
Sound absorption	Sound absorption coefficient $\alpha_w$	NPD							
Durability	Durability criteria DUR2	Pass							
Dangerous substances	Release of dangerous substances	NPD							

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

Signed in the name of the manufacturer by  
Certification manager

  
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*Wawrzynowicz*

Bolszewo, 27 October 2020

dr inż. Adam Wawrzynowicz