



**DECLARATION OF PERFORMANCE**

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

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1. **Unique identification code of the product-type:** Wall panel MW LIGHT (MW-LT-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 type	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> ]				90								
Nominal thickness d <sub>N</sub> [mm]				80	100	120	150	160	180	200	240	
Panel weight [kg/m <sup>2</sup> ]				14,5	16,2	17,9	20,5	21,4	23,1	24,8	28,2	
Mechanical resistance	Wrinkling strength	In span	Compressive strength f <sub>cc</sub> [MPa]	M	121	119	117	115	111	103	95	79
				L	119	113	107	99	98	96	94	87
				G, R, C	115	110	105	98	96	93	91	85
			External cladding at increased temperature [MPa]	M	121	119	117	115	111	103	95	79
				L	119	113	107	99	98	96	94	87
				G, R, C	115	110	105	98	96	93	91	85
		Internal cladding [MPa]	L	120	117	114	110	106	99	92	77	
			G, C	116	111	107	101	97	90	84	70	
			At a support	External cladding [MPa]	M	120	116	113	109	106	100	95
		L			85	85	85	85	83	81	79	74
		G, R, C			80	78	76	74	74	74	75	75
		External cladding at increased temperature [MPa]	M	120	116	113	109	106	100	95	79	
			L	85	85	85	85	83	81	79	74	
			G, R, C	80	78	76	74	74	74	75	75	
Internal cladding [MPa]	L	106	106	107	108	104	97	91	77			
	G, C	102	100	99	97	94	88	83	70			
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 90/EW 120		EI 180			EI 240/EW 120	
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]	$R_w \geq 32, R_{A1} \geq 29, R_{A2} \geq 28$							
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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Bolszewo, 27 October 2020

dr inż. Adam Wawrzynowicz