

**DECLARATION OF PERFORMANCE**

**NO. 14/2/14509/BALEX THERM MW-LT-W-ST LIGHT**

<b>1 Unique identification code of the product-type</b>	Sandwich panels with mineral wool core in double-sided metal cladding BALEX THERM MW-LT-W-ST LIGHT with visible fixing
<b>1 Type, batch or serial number or any other element allowing identification of the product</b>	<p>Information identifying batches of the product – on the label of each product packaging</p> <p>Thickness of the product [mm]: 80,100,120,130,140,150,160,180,200, 230</p> <p>Thermal insulation [kg/m<sup>3</sup>]: MW density of 90 -10/+ 15%</p> <p>Cladding: Steel 0.5-0.7 mm external; 0.5/0.7 mm internal</p> <p>Coating: SP, HDP, PVDF, PVC(P), PVC(F), PUR</p> <p>Steel grade: S250-280GD, 1.4301</p> <p>Panel weight [kg/m<sup>2</sup>]: 80(14.5), 100(16.2), 120(17.9), 130(18.8), 140(19.6), 150(20.5), 160(21.4), 180(23.1), 200(24.8), 230(27.4)</p> <p>Cladding profile: external L,M,R,G, internal L,G</p>
<b>2 Intended use, in accordance with the applicable harmonized technical specification</b>	Sandwich panels with mineral wool core in double-sided metal cladding as external walls and wall cladding, partition walls
<b>3 Name, contact address of the manufacturer</b>	<b>BALEX METAL Sp. z o.o.</b> ul. Wejherowska 12C, 84-239 Bolszewo, Poland
<b>4 System of assessment and verification of constancy of performance</b>	System 3
<b>5 Identification of notified bodies</b>	<p>Building Research Institute 1 Filtrowa, 00-611 Warsaw, Poland Notified body no. 1488</p> <p>Reports: LP01-2882/14/Z00NP, LP02-2882/14/Z00NP, LP03-2882/14/Z00NP, LP04-2882/14/Z00NP</p> <p>FIRES, s.r.o 059-35 Batizovce, Slovakia Notified body no. 1396</p> <p>Reports: FIRES-FR-034-15-AUNE, FIRES-FR-207-14-AUNE</p>

## 7 Declared performances

Essential characteristics	Performances	Harmonized technical specification
Heat transfer coefficient U [W/m <sup>2</sup> K]	0.47(80), 0.38(100), 0.32(120), 0.3(130), 0.28(140), 0.26(150), 0.25(160), 0.22(180), 0.19(200), 0.17(230)	PN-EN 14509:2013
Heat conductivity coefficient $\lambda_D$ [W/mK]	0.040	PN-EN 14509:2013
Tensile strength [MPa]	≥0.1	PN-EN 14509:2013
Shear resistance $f_{cv}$ [MPa]	0.06	PN-EN 14509:2013
Modulus of rigidity $G_c$ [MPa]	6.3(80,100,120,130); 4.2(140,150,160,180,200,230)	PN-EN 14509:2013
Bending strength $f_{cc}$ [MPa]	≥0.075	PN-EN 14509:2013
Wrinkling strength in the bay external cladding [MPa]	110.72(80), 115.73(100), 120.74(120), 123.25(130), 125.75(140), 128.26(150), 121.41(160), 107.72(180), 94.03(200), 73.49(230)	PN-EN 14509:2013
Wrinkling strength in the bay external cladding at increased temp. [MPa]	110.72(80), 115.73(100), 120.74(120), 123.25(130), 125.75(140), 128.26(150), 121.41(160), 107.72(180), 94.03(200), 73.49(230)	PN-EN 14509:2013
Wrinkling strength in the bay internal cladding [MPa]	128.94(80), 128.27(100), 127.6(120), 127.26(130), 126.93(140), 126.59(150), 121.57(160), 111.54(180), 101.51(200), 86.46(230)	PN-EN 14509:2013
Fire resistance	EI60/EW60(100,120,130,140) EI120/EW180(150,160,180,200,230)	PN-EN 14509:2013
Reaction-to-fire	A2-s1.d0	PN-EN 14509:2013
Water permeability	Class A	PN-EN 14509:2013
Air permeability [m <sup>3</sup> /h*m <sup>2</sup> ]	Impermeable	PN-EN 14509:2013
Water vapour permeability	Impermeable	PN-EN 14509:2013
Sound insulation [dB]	$R_w \geq 32$ , $R_{A1} \geq 29-30$ , $R_{A2} \geq 28-29$	PN-EN 14509:2013

## 8 The performances of the product identified in points 1 and 2 are consistent with the declared performances in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer, as specified in point 4.

Anna Stępień  
 Junior Specialist for Certification

*Anna Stępień-Karbowska*  
  
**BALEXMETAL Sp. z o.o.**  
 84-239 Bolszewo, ul. Wejherowska 12C  
 tel. 58 778-44-44, fax 58 778-44-48  
 NIP 588-11-30-299  
 P-191112216 (09/1)

Bolszewo, 11 January 2016