

DECLARATION OF PERFORMANCE
NO. 13/4/14509/BALEX THERM MW-R

1 Unique identification code of the product-type	Sandwich panels with mineral wool core in double-sided metal cladding BALEX THERM MW-R
2 Type, batch or serial number or any other element allowing identification of the product	Information identifying batches of the product – on the label of each package of the product Thickness of the product [mm]: 100,120,150,160 Thermal insulation [kg/m ³]: MW density of 110 -10/+ 15% Cladding: Steel 0.5-0.7 mm external; 0.5/0.7 mm internal Coating: SP, HDP, PVDF, PVC(P), PVC(F), PUR Steel grade: S250-280GD, 1.4301 Panel weight [kg/m ²]: 20.3(100); 22.4(120); 25.6(150); 26.6(160) Cladding profile: external T, internal L,G
3 Intended use, in accordance with the applicable harmonized technical specification	Sandwich panels with mineral wool core in double-sided metal cladding as roof covers and roofing
4 Name, contact address of the manufacturer	BALEX METAL Sp. z o.o. ul. Wejherowska 12C, 84-239 Bolszewo, Poland
5 System of assessment and verification of constancy of performance	System 3
6 Identification of notified bodies	Building Research Institute 1 Filtrowa, 00-611 Warsaw, Poland Notified body no. 1488 Reports: LK-01-2943/09/Z00NK, LK-02-2943/09/Z00NK, LK-03-2943/09/Z00NK, LK04-2943/09/Z00NK, LK05-2943/09/Z00NK, NK-02943/P/2009, NK-02943/P/2009 Part 2., NF-00782/B/2010, NF-03300/B/2009, 0879/11/Z00NF, NF-03327/B/2009, 1556.6.1/14/Z00NP, LP-03515.4/09

7 Declared performances

Essential characteristics	Performances	Harmonized technical specification
Heat transfer coefficient [W/m ² K]	0.38(100); 0.32(120); 0.26(150); 0.24(160);	PN-EN 14509:2013
Heat conductivity coefficient λ_D [W/mK]	0.040	PN-EN 14509:2013
Tensile strength [MPa]	0.1	PN-EN 14509:2013
Shear resistance f_{cv} [MPa]	0.09	PN-EN 14509:2013
Modulus of rigidity G_c [MPa]	7.0(100); 4.5(120,150,160)	PN-EN 14509:2013
Bending strength f_{cc} [MPa]	0.11	PN-EN 14509:2013
Wrinkling strength in the bay external cladding [MPa]	280	PN-EN 14509:2013
Wrinkling strength in the bay external cladding at increased temp. [MPa]	280	PN-EN 14509:2013
Wrinkling strength over support external cladding [MPa]	280	PN-EN 14509:2013
Wrinkling strength over support external cladding at increased temp. [MPa]	280	PN-EN 14509:2013
Wrinkling strength in the bay internal cladding [MPa]	69(100,120,150); 54(160)	PN-EN 14509:2013
Wrinkling strength over support internal cladding [MPa]	69(100,120,150); 54(160)	PN-EN 14509:2013
Creep coefficient	$\Psi_{1000}(0.8)$; $\Psi_{2000}(1.05)$;	PN-EN 14509:2013
Resistance to concentrated load applied	No damage to the cladding and the core. The possibility of walking on the BTH MW-R roof panels is permissible.	PN-EN 14509:2013
Fire resistance	REI 90	PN-EN 14509:2013
Roof resistance to fire from the outside	$B_{roof}(t_1)$	PN-EN 14509:2013
Reaction-to-fire	-	PN-EN 14509:2013
Water permeability	Class A	PN-EN 14509:2013
Air permeability [m ³ /h*m ²]	Impermeable	PN-EN 14509:2013
Water vapour permeability	Impermeable	PN-EN 14509:2013
Sound insulation [dB]	$R_w \geq 33$, $R_{A1} \geq 31$, $R_{A2} \geq 30$	PN-EN 14509:2013
Durability	PASS DUR2	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

Bolszewo, 27 April 2015

