

# **THERMANO**

**SUPERDOCIEPLENIE POLSKIEGO DOMU**

## **DECLARATION OF PERFORMANCE**

NO. 32/8/13165/THERMANO

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**1 Unique product type identification code**

THERMANO thermal insulation boards with a polyisocyanurate (PIR) foam core in multi-layered, gas-tight cladding made of aluminium laminate

**2 Type, batch or series number, or other information enabling identification of the product**

Information identifying the product batch - listed on the label of each product packaging, serial number printed on every board

Product thickness: 40, 50, 60, 80, 100, 113, 120, 125, 140 [mm]

Thermal insulation [kg/m<sup>3</sup>]: PIR, thickness 30±2

**3 Intended applications, in accordance with the harmonised technical specification**

THERMANO thermal insulation boards with a polyisocyanurate (PIR) foam core in multi-layered, gas-tight cladding made of aluminium laminate as wall, roof or floor insulation

**4 Manufacturer name, contact address**

**BALEX METAL Sp. z o.o.**  
ul. Wejherowska 12 C, 84-239 Bolszewo

Manufacturing plant:

ul. Spalska 145/155,  
97-200 Tomaszów Mazowiecki

**5 System for assessment and verification of functional properties stability**

System 3

**6 Notified body identification**

Instytut Techniki Budowlanej  
ul. Filtrowa 1, 00-611 Warszawa  
Notified Body no. 1488

Reports: NF-02037/A/2009, NK – 0511/P/09,  
0894.1/13/Z00NP, 0822/13/Z00NF,  
2073/14/R22NK,  
LK00-02073/14/R24NK

## 7 Declared performance

Primary characteristics	Functional properties		Harmonised technical specification
<b>Reaction to fire</b>	Fire protection class	E	EN 13165:2015-03
<b>Water permeability</b>	Water absorption	WL(T)2	EN 13165:2015-03
	Flatness after wetting one of the surfaces	FW2	EN 13165:2015-03
<b>Release of hazardous substances to the internal environment</b>	No harmonised test methods		EN 13165:2015-03
<b>Sound absorption coefficient</b>	Sound absorption	NPD	EN 13165:2015-03
<b>Insulation coefficient for airborne sounds carried directly</b>	Sound absorption	NPD	EN 13165:2015-03
<b>Continuous incandescent combustion</b>	No harmonised test methods		EN 13165:2015-03
<b>Thermal resistance</b>	Thermal resistance accounting for aging $R_D$ [m <sup>2</sup> K/W]	40(1.75), 50(2.20), 60(2.60), 80(3.50), 100(4.35), 113(4.95), 120(5.25), 125(5,45), 140(6,15)	EN 13165:2015-03
	Thermal conductivity coefficient accounting for aging $\lambda_D$ [W/mK]	0.023	EN 13165:2015-03
	Thickness	T1	EN 13165:2015-03
<b>Steam permeability</b>	Steam permeation	NPD	EN 13165:2015-03
<b>Compressive strength</b>	CS(10/Y)200		EN 13165:2015-03
<b>Tensile/bending Strength</b>	Tensile strength	TR70	EN 13165:2015-03
<b>Stability of reaction to fire as a function of heat, atmospheric conditions, aging/degradation</b>	Reaction to fire does not change in time		EN 13165:2015-03

<b>Stability of heat resistance as a function of heat, atmospheric conditions, aging/degradation</b>	Thermal resistance accounting for aging $R_D$ [m <sup>2</sup> K/W]	40(1.75), 50(2.20), 60(2.60), 80(3.50), 100(4.35), 113(4.95) 120(5.25), 125(5.45), 140(6,15)	EN 13165:2015-03
	Thermal conductivity coefficient accounting for aging $\lambda_D$ [W/mK]	0.023	EN 13165:2015-03
	Stability of heat resistance as a function of aging/degradation	NPD	EN 13165:2015-03
	Dimensional stability under specific temperature and humidity conditions	DS(70,90)2 DS(-20,-)2	EN 13165:2015-03
	Deformation under specific conditions of compressive load and temperature	NPD	EN 13165:2015-03
	Annex C Methods of determining heat resistance and heat conductivity coefficient accounting for aging	C. 5	EN 13165:2015-03
<b>Stability of compressive strength as a function of aging and degradation</b>	Creeping under compression	NPD	EN 13165:2015-03

**8 The performance of the product specified in pt. 1 and 2 are consistent with the performance declared in pt. 7.**

This declaration of performance is issued at the sole responsibility of the manufacturer specified in pt. 4.

Bolszewo, 27 April 2015

Elzbieta Mehring  
Quality Manager  
*Elzbieta Mehring*  
**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)



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PN-EN 13165:2015-03

**THERMANO thermal insulation boards  
with a polyisocyanurate (PIR) foam core  
in multi-layered, gas-tight cladding made  
of aluminium laminate  
wall, roof and floor insulation**

**Reaction to fire: E**

**Thermal resistance  $R_D$  accounting for aging**  
40(1,75), 50(2,20), 60(2,60), 80(3,50), 100(4,35), 113(4,95), 120(5,25),  
125(5,45), 140(6,15) m<sup>2</sup>K/W

**Thermal conductivity coefficient accounting for aging  $\lambda_D$  0,023**  
W/mK

**Thicknesses:** 40,50,60,80,100,113,120, 125, 140 mm

**PIR-EN 13165 - T1 - DS(70.90)2 - DS(-20,-)2 - CS(10/Y)200 - TR70 -  
FW2 - WL(T)2**