



DECLARATION OF PERFORMANCE
No. 32/11/13165/THERMANO
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1. **Unique identification code of the product-type:** Thermal insulation boards with polyisocyanurate (PIR) foam core in multi-layered, gas-tight claddings made of aluminium laminate THERMANO: 40, 50, 60, 70, 80, 90, 100, 113, 120, 125, 140, 150, 160.
2. **Intended use/es:** Thermal insulation for buildings
3. **Manufacturer:** BALEX METAL sp. z o.o., ul. Wejherowska 12C 84-239 Bolszewo
Manufacturing plant: ul. Spalska 143/147, 97-200 Tomaszów Mazowiecki
4. **System for assessment and verification of functional properties stability:** 3
5. **Harmonised standard:** EN 13165:2012+A2:2016
6. **Notified body/ies:** Instytut Techniki Budowlanej (no. 1488)
7. **Declared functional properties:** Table 1, Table 2

Tab. 1: Essential characteristics

Essential characteristics	Performance	
Thermal resistance	Nominal thickness d_N [mm]	
	Classes for thickness tolerances [-]	
	Thermal resistance RD [m ² K/W]	
	Thermal conductivity λ_D [W/(mk)]	
Durability of thermal resistance against heat, weathering, ageing/degradation	Durability of thermal resistance and thermal conductivity	
	Dimensional stability DS under specified temperature and humidity [Level]	DS(70,90)
		DS(-20,-)
Deformation under specified compressive load and temperature conditions		
Reaction to fire	Reaction to fire [Euroclasses]	E
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability of reaction to fire	The reaction to fire performance does not change with time
Continuous glowing combustion	Continuous glowing combustion	No harmonised test method
Compressive strength	Compressive stress or compressive strength [Level]	Tab. 2
Durability of compressive strength against ageing/degradation	Compressive creep CC [Level]	NPD
Tensile strength	Tensile strength perpendicular to faces TR [Level]	Tab. 2
Water permeability	Flatness after one-sided wetting [Level]	FW2
	Long term water absorption W_t [%]	2
Water vapour permeability	Water vapour resistance Z [m ² hPa/mg]	NPD
Acoustic absorption index	Sound absorption coefficient α_w [-]	NPD
Release of dangerous substances to the indoor environment	Release of dangerous substances	No harmonised test method
NPD: No performance determined		



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Tab. 2: Essential characteristics

Nominal thickness d_N [mm]	Class for thickness tolerance	Thermal conductivity coefficient λ_D (W/mK)	Thermal resistance R_D (m ² K/W)	Compressive stress or compressive strength [Level]	Tensile strength perpendicular to faces TR [Level]
40	T2	0,023	1,75	CS(10/Y)200	TR100
50	T2	0,023	2,20	CS(10/Y)200	TR100
60	T2	0,023	2,60	CS(10/Y)200	TR100
70	T2	0,023	3,00	CS(10/Y)200	TR100
80	T2	0,023	3,50	CS(10/Y)200	TR100
90	T2	0,023	3,90	CS(10/Y)200	TR100
100	T2	0,023	4,35	CS(10/Y)200	TR100
113	T2	0,023	4,95	CS(10/Y)200	TR100
120	T2	0,023	5,25	CS(10/Y)200	TR100
125	T2	0,023	5,45	CS(10/Y)200	TR100
140	T2	0,023	6,15	CS(10/Y)200	TR100
150	T2	0,023	6,55	CS(10/Y)200	TR100
160	T2	0,023	7,00	CS(10/Y)200	TR100

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.


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Bolszewo, 27 October 2020

Signed in the name of the manufacturer by:

Certification manager



dr inż. Adam Wawrzynowicz