



DECLARATION OF PERFORMANCE
No. TH COMPACT/13165/21/1
page 1/2

1. **Unique identification code of the product-type:** Thermal insulation boards with polyisocyanurate (PIR) foam core THERMANO COMPACT: 20, 30, 40, 50, 80, 100, 125.
2. **Intended use/es:** Thermal insulation for buildings
3. **Manufacturer:** BALEX METAL sp. z o.o., Wejherowska 12C 84-239 Bolszewo
Manufacturing plant: 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 (nr 1488)
7. **Declared functional properties:** Tablica 1, Tablica 2

Tab. 1: Essential characteristics

| Essential characteristics | Performance | | |
|---|---|-----------|---|
| Thermal resistance | Nominal thickness d_N [mm] | Tab. 2 | |
| | Classes for thickness tolerances [-] | | |
| | Thermal resistance RD [m^2K/W] | | |
| | Thermal conductivity λ_D [$W/(mK)$] | | |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Durability of thermal resistance and thermal conductivity | | Any change in thermal conductivity with time is covered by λ_D (Tab. 2) |
| | Dimensional stability DS under specified temperature and humidity [Level] | DS(70,90) | 2 |
| | | DS(-20,-) | 2 |
| | Deformation under specified compressive load and temperature conditions | | NPD |
| 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^2hPa/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 | | | |



DECLARATION OF PERFORMANCE
No. TH COMPACT/13165/21/1
page 2/2

Tab. 2: Essential characteristics

| Nominal thickness d_N [mm] | Class for thickness tolerance [class] | 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] |
|---------------------------------|--|--|--|---|---|
| 20 | T2 | 0,023 | 0,85 | CS(10/Y)150 | TR100 |
| 30 | T2 | 0,023 | 1,30 | CS(10/Y)150 | TR100 |
| 40 | T2 | 0,023 | 1,70 | CS(10/Y)150 | TR100 |
| 50 | T2 | 0,023 | 2,15 | CS(10/Y)150 | TR100 |
| 80 | T2 | 0,023 | 3,45 | CS(10/Y)150 | TR100 |
| 100 | T2 | 0,023 | 4,30 | CS(10/Y)150 | TR100 |
| 125 | T2 | 0,023 | 5,40 | CS(10/Y)150 | 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.

Signed in the name of the manufacturer by:
Chief Executive Officer

Marek Dzikiewicz

Bolszewo, 29 June 2021

BALEXMETAL Sp. z o.o.
84-239 Bolszewo, ul. Wejherowska 12C
tel. 58 778-44-44, fax 58 778-44-55
NIP 588-11-30-299
P-191112216 (17)