

THE DECLARATION OF PERFORMANCE

Nr 3/Alu/2018

1. Unique product type identification code: **Alu Standard 400 board**
2. Description code: **13163-L(2)-W(2)-T(1)-S(2)-P(5)-CS(10)400-DS(N)5-DS(70,-)1-DLT(1)5**
3. Intended use or uses: **Thermal insulation in construction in underfloor heating systems**
4. Producer: **TiA Sp. z o.o, ul. Słowackiego 22a, 37-200 Przeworsk**
5. The system of assessment and verification of constancy of performance: **3**
6. Harmonized standard: **EN 13163: 2012+ A1: 2015 Products for thermal insulation in construction. Specification Laboratory of the Institute of Mechanized Construction and Rock Mining, ul. Rationalization 6/8, 02-673 Warsaw, Non-resident branch in Katowice. W. Korfantego 193A, 40-157 Katowice. Notified body No. 1454.**
7. Declared useful properties:

Essential characteristic:	Useful properties:	Harmonized technical specification EN 13163:2012 + A1:2015
Thermal conductivity λ_D ,	$\lambda_D = 0,034 [W/(m \cdot K)]$	Point 4.2.1
Thermal resistance R_D for d_N : $d=20 \text{ mm} / T1$	$R_D = 0,59 [m^2 \cdot K/W]$	Point 4.2.1
Fire reaction class (RtF)- Euroklasa E	Euroklasa E	Point 4.2.6
Durability of reaction to fire as a function of heat , weather conditions , aging and degradation	It does not change over time	Point 4.2.7
Durability of thermal resistance as a function of heat, atmospheric conditions, aging and degradation -Thermal conductivity -Thermal resistance $d=20 \text{ mm} / T1$ -Durability of properties	$\lambda_D = 0,034 [W/(m \cdot K)]$ $R_D = 0,59 [m^2 K/W]$ It does not time over time	Point 4.2.1 Point 4.2.7
Compressive strength	CS(40)400	Point 4.3.4
Tensile strength / bending strength-Flexural strength-Tensile strength perpendicular to the faces	NPD NPD	Point 4.3.5 Point 4.3.6
Durability of compressive strength as a function of aging and degradation - creep when squeezing -resistance to freezing - defrosting, testing -long-term thickness reduction	NPD NPD NPD	Point 4.3.8 Point 4.3.12 Point 4.3.15.5
Water absorption-water absorption with prolonged immersion - Absorption with prolonged WDV diffusion	NPD NPD	Point 4.3.11.1 Point 4.3.11.2
Water vapor permeability	NPD	Point 4.3.13
The indicator of airborne sound insulation transmitted directly: - dynamic stiffness, SB - thickness d_L - compressibility, c, CP	NPD NPD NPD	Point 4.3.14 Point 4.3.15.2 Point 4.3.15.4
Continuous burning as a glow function	NPD	Point 4.3.18
Release of dangerous substances into the internal environment	NPD	Point 4.3.19

The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

On behalf of the manufacturer, he signed

**On behalf of the manufacturer, he signed:
Przeworsk, dnia 18.09.2018**

Pełnomocnik ds. SZJ
Kierownik Biura Jakości
inż. Kamil Krzyżak