



Center for  
Testing and  
European  
Certification

CONSTRUCTION PRODUCTS TESTING LABORATORY  
2, Industrialna street, Stara Zagora, Bulgaria

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## CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2018

**Sponsor:** „THERMOMAX IZOLATII FATADE“ S.R.L. Romania, Ilfov county,  
Bragadiru city, 87A Unirii street

**Prepared by:** „Center for Testing and European Certification“ LTD  
2 Industrialna Street, Stara Zagora Bulgaria

**Notified body N°:** 1871

**Product name:** THERMOMAX INSULATION SYSTEM

**Classification report N°:** 1871-CPR-RtF-639

**Issue number:** 01

**Date of issue:** 06.04.2023

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## 1 Introduction

This classification report defines the classification assigned to the product THERMOMAX INSULATION SYSTEM, in accordance with the procedure given in EN 13501-1:2018

## 2 Details of classified product

### 2.1 General

The product, THERMOMAX INSULATION SYSTEM, is defined as factory made, self-supporting, double skin metal faced insulating sandwich panels, which are intended for discontinuous laying for roofs and walls in accordance with EN 14509:2013. The product is manufactured from „THERMOMAX IZOLATII FATADE" S.R.L. Romania, Ilfov county, Bragadiru city, 87A Unirii street

### 2.2 Product description

The product, THERMOMAX INSULATION SYSTEM is described below or described in the reports provided in support of classification listed in clause 3.1.

Product description:

The product, THERMOMAX INSULATION SYSTEM consist of:

- External and internal aluminum sheet: 0.48mm thickness
- Insulation core: PUR foam with a density of 45 kg/m<sup>3</sup>
- Thickness of the panels: 50mm
- The panel joints are secured using a click joining system.

## 3 Reports and results in support of this classification.

### 3.1 Reports

Name of Laboratory	Name of sponsor	Report ref.no.	Test method and date Field of application rules and date
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	„THERMOMAX IZOLATII FATADE" S.R.L. Romania	1420355/04.04.2023	БДС EN 13823:2020+A1:2022
		1420356/05.04.2023	БДС EN ISO 11925-2:2020





### 3.2 Results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
БДС EN 13823:2020+A1:2022	FIGRA <sub>0.2MJ</sub> LFS THR <sub>600s</sub>	3	8.3 (-) 0.9	Compliant
	SMOGRA TSP <sub>600s</sub>		6.6 78.4	Compliant
	flaming droplets/particles		None	Compliant
БДС EN ISO 11925-2:2020 (30 s exposure – on the surface)	F <sub>s</sub>	6	Nil	Compliant
	flaming droplets/particles		None	Compliant

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018

### 4.2 Classification

The product, THERMOMAX INSULATION SYSTEM, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s2**

The additional classification in relation to flaming droplets / particles is:

**d0**



The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	<b>-</b>	<b>s</b>	<b>2</b>	<b>,</b>	<b>d</b>	<b>0</b>

**Reaction to fire classification: B– s2, d0**

#### 4.3 Field of application

This classification is valid for the following product parameters:

- Type of cover: the classification is valid for all grades of tested sheet with a nominal thickness of 0.48 mm to 0.96 mm
- Type of core: PUR foam with a density of 45 kg/m<sup>3</sup> ± 15%
- Panel thickness: 50 mm ± 15%
- Orientation of panel: The test (vertical) is also valid for all horizontally mounted panels.

#### 5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

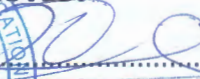
The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

**SIGNED:**



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**Katya Boycheva**  
 Specialist testing and quality

**APPROVED:**

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**Hristina Angelova**  
 Head of laboratory  
 on behalf of: **CTEC LTD**