



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

**Sponsor:** Decibel AD, Botevgrad, 1 Industrialna Str. 19300 Aspropyrgos,  
Bulgaria

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

**Product name:** Mute System

**Classification report №:** 1871-CPR-RtF-475

**Issue number:** 1

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## 1 Introduction

This classification report defines the classification assigned to the products Mute System, in accordance with the procedure given in EN 13501-1:2018

## 2 Details of classified product

### 2.1 General

The product, Mute System is defined as a two-layer sound insulation panel. The products are manufactured by Decibel AD, Botevgrad, 1 Industrialna Str.

### 2.2 Product description

The products, Mute System, are described below or described in the report provided in support of classification listed in clause 3.1.

#### Product description:

The product Mute System is produced as a two-layer sound insulation panel (solid part of gypsum fiberboard with a thickness of 12.5 mm and a porous elastic back of polyester foam impregnated with flame retardant, glued with adhesive based on Methylene Chloride, applied by spray coating) with plasterboard GKB Knauf - directly fastened with screws to the panels Mute system. The panels are attached using DCloxx vibrating pads and a metal screw with a PVC dowel. Declared densities: of gypsum fiberboard - ■■■ kg / m<sup>3</sup>; of polyester foam ■■ kg / m<sup>3</sup>. Thickness - 33 mm.

## 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	Decibel AD, Botevgrad, Bulgaria	1421587/13.12.2021	BDS EN 13823:2020
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	Decibel AD, Botevgrad, Bulgaria	1421588/13.12.2021	BDS EN ISO 11925-2:2020



**3.2 Results**

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
BDS EN 13823:2020	FIGRA <sub>0.2MJ</sub> LFS THR <sub>600s</sub>	3	0.0 (-) 0.6	Compliant
	SMOGRA TSP <sub>600s</sub>		0.0 17.1	
	flaming droplets/particles		None	
BDS EN ISO 11925-2:2020 (30 s exposure – on the surface)	F <sub>s</sub>	6	Nil	Compliant
	flaming droplets/particles		None	

**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 products, Mute System, in relation to their reaction to fire behavior are classified:

**B**

The additional classification in relation to smoke production is:

**s1**

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>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

**Reaction to fire classification: B- s1, d0**

#### 4.3 Field of application

This classification is valid for the following end-use applications: The Mute System product is used for sound insulation.

This classification is valid for products with the following characteristics:  
Composition of the product - in accordance with the description in p 2.2

#### 5 Limitations

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

**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**

