

## Classification of reaction to fire in accordance with EN 13501-1

### 1 Introduction

This classification report defines the classification assigned to “Acoustic Panel” in accordance with the procedure given in EN 13501-1:2018.

### 2 Details of classified product

#### 2.1 General

The product “Acoustic Panel” is defined as an acoustic lamella cladding.

#### 2.2 Product description

The product, "Acoustic Panel" (as described by the sponsor), is fully described below.

Acoustic lamella cladding called “Acoustic Panel” with a product description according to below.

	Type	Density (kg/m <sup>3</sup> )	Area Weight (kg/m <sup>2</sup> )	Thickness (mm)	Width (mm)	Distance Between (mm)
Acoustic core	Polyester FR	155	-	9	600	-
Acoustic felt	Airfelt HP					
Lamella	MDF	720		12	31	19
Laminate on lamellas	High Pressure Laminate	1350	0.945	0.7	-	-

### RISE Research Institutes of Sweden AB

Postal address  
Box 857  
501 15 BORÅS  
SWEDEN

Office location  
Brinellgatan 4  
504 62 Borås  
SWEDEN

Phone / Fax / E-mail  
+46 10-516 50 00  
+46 33-13 55 02  
info@ri.se

This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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

#### 3.1 Test reports

Table 1 Test report forming the basis for this classification.

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	Zilence AB	O100352-181691	EN 13823:2020 and EN ISO 11925-2:2020

#### 3.2 Test results

Table 2 Test results showing the worst case as found in the test program performed.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		20		
Edge/Surface flame attack**				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		449	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		449	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600s}$ , (MJ)		39	Compliant
	$SMOGRA$ , (m <sup>2</sup> /s <sup>2</sup> )		4.6	Compliant
	$TSP_{600s}$ , (m <sup>2</sup> )		46	Compliant
	Flaming droplets/particles		(-)	Yes flaming droplets/particles

\*\* : as required to the end use application of the product

(-) : not applicable

**4 Classification and field of application**

**4.1 Reference of classification**

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2018.

**4.2 Classification**

The product called “Acoustic Panel” in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s1

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

d2

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

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>D</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>2</b>

**Reaction to fire classification: *D-s1,d2***

**4.3 Field of application:**

This classification is valid for the following product parameters:

Product description, as specified in 2.2 in this report

This classification is valid for the following end use conditions:

Mounting

- Straight on mounting against the substrate.

Substrates

- Gypsum plasterboard (paper faced) and any end use substrate of Euroclasses A1 or A2-s1,d0 at least 12 mm thick, having a density  $\geq 525 \text{ kg/m}^3$ .

Fixings

- Mechanically fixed.

Joints

- Horizontal and vertical joints.

The sample was delivered by the client. RISE, Fire Technology was not involved in the sampling procedure.

## **5 Limitations**

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

### **RISE Research Institutes of Sweden AB Fire and safety - Reaction to Fire Medium Scale Lab**

Performed by

Examined by

Richard Johansson

Per Thureson