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## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to the product “EcoSund®” in accordance with the procedure given in EN 13501-1:2007+A1:2009.

### 2 Details of classified product

#### 2.1 General

The product “EcoSund®” is defined as an acoustic insulation.

#### 2.2 Product description

According to the client:

Sound absorbent called “EcoSund®”, having a nominal thickness of 50 mm and a density of 25 kg/m<sup>3</sup>. The product has a surface layer called “Trevira CS”, having a nominal area weight of 200 g/m<sup>2</sup>.

### 3 Test reports & test results in support of classification

#### 3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Akustikmiljö i Falkenberg AB	PX26005	EN 13823 EN ISO 11925-2
SP	Akustikmiljö i Falkenberg AB	5P02881	EN 13823 EN ISO 11925-2

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**3.2 Test results**

The test results listed below show the worst case as found in the test programme performed and reported according to the table above. The tests have been carried out on products covering different surface layers.

Test method	Parameter	Number of tests	Results	Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		12			
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)		41		Compliant
	$FIGRA_{0,4MJ}$ (W/s)		41		Compliant
	$LFS < edge$		(-)		Compliant
	$THR_{600s}$ , (MJ)		2.0		Compliant
	$SMOGRA$ , ( $m^2/s^2$ )		6.4		Compliant
	$TSP_{600s}$ , ( $m^2$ )		44		Compliant
	Flaming droplets/particles		(-)		No flaming droplets

(-) : not applicable

**4 Classification and field of application**

**4.1 Reference and direct field of application**

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2007+A1:2009.

**4.2 Classification**

The product called “EcoSund®” in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

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>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 product parameters:

- Nominal thickness of the whole product: 50 mm.
- Nominal area weight of the surface layer: Trevira CS 200 g/m<sup>3</sup>.
- Nominal density of the substrate layer: 25 kg/m<sup>3</sup>.

This classification is valid for the following end use conditions:

- Mounting
- Free standing with an air gap of ≥ 80 mm.
- Joints
- Vertical and horizontal joints.

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

**5 Limitations**

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

**SP Technical Research Institute of Sweden  
Fire Research - Fire Dynamics**

Performed by

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