

Handled by, department

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Decocoat Oy

PL716

FI-00101 HELSINGFORS

Finland

## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to the product "Decocoat Acoustic Surface" in accordance with the procedure given in EN 13501-1:2007.

### 2 Details of classified product

#### 2.1 General

The product "Decocoat Acoustic Surface" is defined as an acoustic coating for walls and ceilings for indoor use.

According to the owner of this classification report, this product complies with the European product specification EN 13964.

#### 2.2 Product description

The product, "Decocoat Acoustic Surface", is fully described below.

According to the client:

Acoustic coating called "Decocoat Acoustic Surface", consisting of an acoustic coating layer of cellulose with a nominal amount of 750 g/m<sup>2</sup> and a nominal thickness of 5 mm. It is sprayed onto a base board of glass wool with a nominal thickness of 20 mm.

Acoustic coating:

- Pure cellulose with organic binding agents
- Organic and inorganic fire retardants

Base board:

- Facing of white glass tissue glued with 33 g/m<sup>2</sup> of glue
- Glass wool board with a nominal density of 80 kg/m<sup>3</sup> and a nominal binder content of 7 %
- The facing on the rear side is a colourless glass tissue attached to the base board without added glue

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### 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	Decocoat Oy	PX05927	EN 13823 EN ISO 11925-2

#### 3.2 Test results

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	$F_s \leq 150 \text{ mm}$		(-)		Compliant
Flaming droplets/particles	Ignition of filter paper		(-)		No ignition of filter paper
EN 13823		3			
	$FIGRA_{0,2\text{MJ}}$ (W/s)		88		Compliant
	$FIGRA_{0,4\text{MJ}}$ (W/s)		86		Compliant
	$LFS < \text{edge}$		(-)		Compliant
	$THR_{600s}$ (MJ)		7.3		Compliant
	$SMOGRA$ , ( $\text{m}^2/\text{s}^2$ )		0		Compliant
	$TSP_{600s}$ , ( $\text{m}^2$ )		33		Compliant
	Flaming droplets/particles		(-)		No flaming droplets/particles

\* : as required to the end use application of the product  
(-) : 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 and the GNB-CPD position paper from SG01 – EN 13964:2004 Suspended ceilings – requirements and test methods: overview of standard clauses that require further detailing and proposed solutions - NB-CPD/SG01/04/013 rev1 - from the group of notified bodies.

## 4.2 Classification

The product called "Decocoat Acoustic Surface" 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:

### Acoustic coating:

Nominal thickness: 5 mm.

Nominal amount: 750 g/m<sup>2</sup>.

### Base board:

Nominal density of 80 kg/m<sup>3</sup>.

Nominal binder content of 7 %.

Nominal thickness of 20 mm.

This classification is valid for the following end use conditions:

Orientation:

The product may be mounted in a horizontal or vertical orientation.

Mounting:

The panels are mounted with or without a void, mechanically fixed to a metal framework that is suspended from a ceiling or mounted, using manufacturer supplied clips, to a wall or ceiling.

Substrates:

Gypsum plasterboard (paper faced), having a density  $\geq 700 \text{ kg/m}^3$  and any end use substrate of Euroclasses A1 or A2 at least 6 mm thick, having a density  $\geq 700 \text{ kg/m}^3$ . It may also be used beneath a wooden ceiling provided the distance between the membrane and ceiling is greater than 250 mm.

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.

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**Fire Technology - Fire Dynamics**

  
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