

Träullit AB  
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## Reaction to fire classification report

### 1 Introduction

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

### 2 Details of classified product

#### 2.1 General

The product “Träullit akustik” is defined as a cement bound wood wool product.

According to the owner of this classification report, this product complies with the European product specification EN 13168.

#### 2.2 Product description

According to the client:

Product called “Träullit akustik”, consisting of cement, 48%, Limestone Powder 17 % and Woodwool 35% where the amounts are measured in weight percentage. The product is coated with a water based latex paint, nominal amount 0.5 liter/m<sup>2</sup> (wet amount). The product has a nominal density of 520 kg/m<sup>3</sup> and a nominal thickness of 25 – 50 mm.

### 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	Träullit AB	5P08648	EN 13823 EN ISO 11925-2

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### 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	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		4		
	$FIGRA_{0,2MJ}$ (W/s)		80	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		54	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600s}$ , (MJ)		3.5	Compliant
	$SMOGRA$ , ( $\text{m}^2/\text{s}^2$ )		2	Compliant
	$TSP_{600s}$ , ( $\text{m}^2$ )		34	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+A1:2009.

**4.2 Classification**

The product called “Träullit akustik” 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: 25 – 50 mm.

Nominal density: 520 kg/m<sup>3</sup>.

Nominal proportion of cement 48 % and limestone powder 17%.

Nominal proportion of wood wool: 35 %.

Coated with a water based latex paint, nominal amount 0.5 liter/m<sup>2</sup>.

This classification is valid for the following end use conditions:

Substrates

- Wood based substrates at least 10 mm thick and any end use substrate of Euroclasses A1 or A2-s1,d0 at least 9 mm thick, having a density  $\geq 510 \text{ kg/m}^3$

Fixings

- Mechanically fixed.

Joints

- Horizontal and vertical joints.

Void

- With or without a void.

The sample was delivered by the client. SP Fire Research 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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