

Trällit AB
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Reaction to fire classification report

1 Introduction

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

2 Details of classified product

2.1 General

The product “Trällit 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 “Trällit 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/m² (wet amount). The product has a nominal density of 520 kg/m³ 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	Trällit AB	5P08648	EN 13823 EN ISO 11925-2

SP Technical Research Institute of Sweden

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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
	$SMOGR_A$ (m ² /s ²)		2	Compliant
	TSP_{600s} (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	-	s	1	,	d	0

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/m³.

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/m².

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 ≥ 510 kg/m³

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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