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

1 Introduction

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

2 Details of classified product

2.1 General

The product “Needlepunched Felt” is defined as polyester based board.

2.2 Product description

According to the client:

Product called “Needlepunched Felt”, consisting of 100% PES. The product has a nominal density of 225 kg/m³, an area weight of 1.8 kg/m² and a nominal thickness of 8 mm.

3 Reports and results in support of this classification

3.1 Test reports

Table 1 Test reports and field of application rules forming the basis for this classification.

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	Soften Oy	9P07142	EN 13823:2010+A1:2014 and EN ISO 11925-2:2010/AC:2011

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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		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)		59	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		54	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	THR_{600s} , (MJ)		2.9	Compliant
	$SMOGRA$, (m ² /s ²)		2.5	Compliant
	TSP_{600s} , (m ²)		44	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 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 “Needlepunched Felt” 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:

Product description, as specified in 2.2 in this report

Nominal thickness: 8 mm.

Nominal density: 225 kg/m³.

Composition: 100% PES.

This classification is valid for the following end use conditions:

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 Safety - Fire Research 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 **Safety - Fire Research Materials**

Performed by

Examined by



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