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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 “Ewona Acustica” in accordance with the procedure given in EN 13501-1:2018.

This classification report replace SP classification report P801052Crev3, dated June 10, 2015. A new facing as well as higher area weight of the products core has been tested and added to the classification.

2 Details of classified product

2.1 General

The product “Ewona Acustica” is defined as an acoustic insulation.

2.2 Product description

According to the client:

Acoustic panel product called “Ewona Acustica”. The product consists of polyester fibre with FR-treatment called Madaline. When faced, one side has a white non-woven Polypropylene facing nominal area weight 70 g/m² or a facing of 70 % PET and 30 % PA nominal area weight 120 g/m². The product as a whole has a nominal thickness of 10 – 50 mm and a nominal area weight of 500 – 1800 g/m².

3 Reports and results in support of this classification

3.1 Test reports

Table 1 Test report 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	Ewona Finland Oy	O100609 - 1129323	EN 13823:2020 and EN ISO 11925-2:2020
SP	Ewona Oy	P801052A	EN 13823:2002
SP	Ewona Oy	P801052B	EN ISO 11925-2:2010

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Confidentiality level
C2 - Internal

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SP	Ewona Oy	4P01331	EN 13823:2010+A1:2014
SP	Ewona Oy	5P03851rev1	EN 13823:2010+A1:2014

3.2 Test results

Table 2

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 the thickness and area weight range.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		32		
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		6		
	$FIGRA_{0,2MJ} \text{ (W/s)}$	63		Compliant
	$FIGRA_{0,4MJ} \text{ (W/s)}$	62		Compliant
	$LFS < \text{edge}$	(-)		Compliant
	$THR_{600s} \text{ (MJ)}$	3.9		Compliant
	$SMOGRA \text{ (m}^2\text{/s}^2\text{)}$	4		Compliant
	$TSP_{600s} \text{ (m}^2\text{)}$	50		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 “Ewona Acustica” 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:

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness: 10 – 50 mm.

Nominal density: $\leq 1800 \text{ g/m}^2$.

Nominal area weight of facing $\leq 120 \text{ g/m}^2$.

With or without facing.

This classification is valid for the following end use conditions:

Mounting

- Free standing with an air gap of $\geq 80 \text{ mm}$.

Joints

- Horizontal and vertical joints.


The sample was delivered by the client. RISE, Fire and Safety 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 **Fire and safety - Reaction to Fire Medium Scale Lab**

Performed by



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Examined by



Per Thureson

Verifikat

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