

Ewona Finland Oy
Annalankankaantie 18
90830 HAUKIPUDAS
Finland

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 report replaces RISE report O100609-1129323-3, dated June 1, 2023. 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 core of the product consists of polyester fibre with FR-treatment called Madaline. When faced, one side has a non-woven Polyester facing nominal area weight of 80 g/m². The product as a whole has a nominal thickness of 10 – 50 mm and a nominal area weight of 500 – 2200 g/m².

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	Ewona Finland Oy	O100741-1167420	EN 13823:2020+A1:2022 and EN ISO 11925-2:2020
RISE	Ewona Finland Oy	O100609-1129323	EN 13823:2020 and EN ISO 11925-2:2020

RISE Research Institutes of Sweden AB

Postal address
Box 857
501 15 BORÅS
SWEDEN

Office location
Brinellgatan 4
504 62 Borås
SWEDEN

Phone / Fax / E-mail
+46 10-516 50 00
+46 33-13 55 02
info@ri.se

Confidentiality level
C3 - Sensitive

This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

SP	Ewona Oy	P801052A	EN 13823:2002
SP	Ewona Oy	P801052B	EN ISO 11925-2:2010
SP	Ewona Oy	4P01331	EN 13823:2010+A1:2014
SP	Ewona Oy	5P03851rev1	EN 13823:2010+A1:2014

3.2 Test results

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 area weight range.

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		54		
Edge/Surface flame attack**				
15 s exposure	$F_s \leq 150 \text{ mm}$	(-)		Compliant
30 s exposure	$F_s \leq 150 \text{ mm}$	(-)		Compliant
Flaming droplets/particles	Ignition of filter paper	(-)		No ignition of filter paper
EN 13823		7		
	$FIGRA_{0,2\text{MJ}} \text{ (W/s)}$	63		Compliant
	$FIGRA_{0,4\text{MJ}} \text{ (W/s)}$	62		Compliant
	$LFS < \text{edge}$	(-)		Compliant
	$THR_{600\text{s}} \text{ (MJ)}$	3.9		Compliant
	$SMOGRA \text{ (m}^2/\text{s}^2\text{)}$	4		Compliant
	$TSP_{600\text{s}} \text{ (m}^2\text{)}$	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:

This classification is valid for the following product parameters:

Product description, as specified in 2.2 in this report

Nominal thickness: 10 – 50 mm.

Nominal area weight: 500 - 2200 kg/m³

This classification is valid for the following end use conditions:

Mounting

- Free standing with an air gap of ≥ 80 mm.

Joints

- Horizontal and vertical joints.

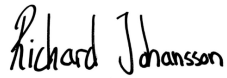
The sample was delivered by the client. RISE, Fire And Safety was not involved in the sampling procedure.

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



Richard Johansson

Examined by



Anna Bergstrand

Verification

Transaction 09222115557488443872

Document

O100741-1167420-2 Ewona Finland Oy EN 13501-1
Main document
4 pages
Initiated on 2023-03-07 10:41:01 CET (+0100) by Katarina Krnjic (KK)
Finalised on 2023-03-07 13:01:27 CET (+0100)

Initiator

Katarina Krnjic (KK)
RISE Research Institutes of Sweden AB
Company reg. no. 556464-6874
katarina.krnjic@ri.se

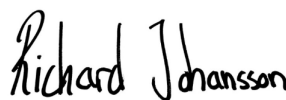
Signing parties

Anna Bergstrand (AB)
anna.bergstrand@ri.se



Signed 2023-03-07 13:01:27 CET (+0100)

Richard Johansson (RJ)
RISE Research Institute of Sweden AB
richard.johansson@ri.se



Signed 2023-03-07 10:49:29 CET (+0100)

This verification was issued by Scrive. Information in italics has been safely verified by Scrive. For more information/evidence about this document see the concealed attachments. Use a PDF-reader such as Adobe Reader that can show concealed attachments to view the attachments. Please observe that if the document is printed, the integrity of such printed copy cannot be verified as per the below and that a basic print-out lacks the contents of the concealed attachments. The digital signature (electronic seal) ensures that the integrity of this document, including the concealed attachments, can be proven mathematically and independently of Scrive. For your convenience Scrive also provides a service that enables you to automatically verify the document's integrity at: <https://scrive.com/verify>

