

KE Fibertec AS
Industrivej Vest 19
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Denmark

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to different products “non-permeable “KE-Inject®” and “KE-Direjet®” system including components, used in ventilation ducts for air distribution in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product is defined as special fabrics used for air distribution systems as described in paragraph 2.2.

2.2 Product description

According to information provided by the client, the product has the following composition: Products called “KE-Inject®” and “KE-Direjet®”. Systems including components, used in ventilation ducts for air distribution, consisting of special flame retardant polyester fibres coated with PUR and made as a “non-permeable” material.

The product has a nominal area weight of 210 g/m² and a nominal thickness of 0.25 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	Test method
SP	KE Fibertec AS	4P06891	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 flame attack				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
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)		0	Compliant
	$LFS < edge$		(-)	Compliant
	THR_{600s} (MJ)		0.1	Compliant
	$SMOGRA$, (m^2/s^2)		0	Compliant
	TSP_{600s} , (m^2)		26	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles

(-) : 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 products called “KE-Inject®” or “KE-Direjet®” in relation to their 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 end use conditions:

- Mounting
- Freestanding.

This classification is also valid for the following product parameters:

- Thickness:
- Nominal 0.25 mm.
- Area weight:
- Nominal 210 g/m².

The sample was delivered by the client. SP Fire Technology 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



Johan Post

Examined by



Per Thureson