

# $\mathsf{RFPORT}$

issued by an Accredited Testing Laboratory

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# Reaction to fire classification report

#### 1 Introduction

This classification report defines the classification assigned to the product "DFC" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

## 2 Details of classified product

#### 2.1 General

The product "DFC" 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: Product called "DFC", used in ventilation ducts for air distribution, consisting of special flame retardant polyester fibres. The product has a nominal area weight of  $280 \text{ g/m}^2$  and a nominal thickness of 0.50 mm.

# 3 Test reports & test results in support of classification

#### 3.1 Test reports

This classification is based on test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	KE Fibertec AS	P907898	EN 13823
SP	KE Fibertec AS	3P05042-1Rev1	EN ISO 11925-2
SP	KE Fibertec AS	3P05042Rev1	EN 13823
RISE	KE Fibertec AS	8P08346	EN 13823 EN ISO 11925-2





### 3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		24		
Edge/Surface flame attack**				
30 s exposure	$Fs \le 150 \text{ mm}$		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		5		
	FIGRA <sub>0,2MJ</sub> (W/s)		0	Compliant
	<i>LFS</i> < edge		(-)	Compliant
	$THR_{600s}$ , (MJ)		0.3	Compliant
	$SMOGRA$ , $(m^2/s^2)$		0	Compliant
	$TSP_{600s}$ , (m <sup>2</sup> )		19	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles

<sup>\*\* :</sup> as required to the end use application of the product

<sup>(-) :</sup> 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 "DFC" in relation to its reaction to fire behaviour is classified:

В

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	
В	-	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: 0.50 mm.

Nominal area weight: 280 g/m<sup>2</sup>

This classification is valid for the following end use conditions:

Mounting

Freestanding

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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