

Euro Air AS

Industrivej Vest 21

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Denmark

## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to products “TCS” in accordance with the procedure given in EN 13501-1:2007+A1:2009.

### 2 Details of classified product

#### 2.1 General

The product “TCS” 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 TCS, used in ventilation ducts for air distribution, consisting of Trevira CS. The product has a nominal area weight of 255 - 360 g/m<sup>2</sup> and a nominal thickness of 0.45 - 0.6 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	P502689	EN 13823 EN ISO 11925-2
SP	KE Fibertec AS	P602826	EN 13823 EN ISO 11925-2
RISE	KE Fibertec AS	8P08346-1	EN 13823 EN ISO 11925-2

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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		24		
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		7		
	$FIGRA_{0,2MJ}$ (W/s)		0	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600s}$ , (MJ)		0.1	Compliant
	$SMOGRA$ , (m <sup>2</sup> /s <sup>2</sup> )		0	Compliant
	$TSP_{600s}$ , (m <sup>2</sup> )		25	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 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 “TCS” 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>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>	

**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: 0.45 – 0.60 mm.

Nominal area weight: 255 – 360 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

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