

KE Fibertec A/S  
Industrivej Vest 21  
DK-6600 VEJEN  
Danmark

## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to the product "LDC-HT" system including components, used in ventilation ducts for air distribution in accordance with the procedure given in EN 13501-1:2007+A1:2009.

This classification report replaces SP classification report 3P05042-2Rev1, dated November 25, 2014.

### 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: Product called "LDC-HT" system including components, used in ventilation ducts for air distribution, consisting of special flame retardant polyester fibres. The product has a nominal area weight of 280 g/m<sup>2</sup> 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 the test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	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

#### SP Technical Research Institute of Sweden

Postal address  
SP  
Box 857  
SE-501 15 BORÅS  
Sweden

Office location  
Västeråsen  
Brinellgatan 4  
SE-504 62 BORÅS

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

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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
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600s}$ , (MJ)		0.3	Compliant
	$SMOGRA$ , ( $\text{m}^2/\text{s}^2$ )		0	Compliant
	$TSP_{600s}$ , ( $\text{m}^2$ )		19	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 product called "LDC-HT" 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 end use conditions:

Mounting

- Freestanding.

This classification is also valid for the following product parameters:

Thickness:

- Nominal 0.50 mm.

Area weight:

- Nominal 280 g/m<sup>2</sup>.

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

  
Marina C Andersson

Examined by

  
Per Thureson