REPORT
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Reaction to fire classification report of products KE-Low Impulse®-, KE-Interior®-, KE-Direjet®- and KE-LaserInject systems including components, used as ventilation ducts for air distribution.

1. Introduction

This classification report defines the classification assigned to the different products KE-Low Impulse®-, KE-Interior®-, KE-Direjet®- and KE-LaserInject systems including components, used in ventilation ducts for air distribution in accordance with the procedure given in EN 13501-1.

2. Nature and end use application

2.1 General

The products are defined as special fabrics used for air distribution systems as described in paragraph 2.2.

2.2 Description

According to information provided by the client, the product has the following composition: Products called KE-Low Impulse®-, KE-Interior®-, KE-Direjet®- and KE-LaserInject systems including components, used in ventilation ducts for air distribution, consisting of Trevira CS. The product has a nominal area weight of 255 - 360 g/m^2 and a nominal thickness of 0.45 - 0.55 mm.

3. Test reports & test results in support of classification

3.1 Test reports

This classification is based on test reports listed below:
Table 1. Test reports

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	KE Fibertec AS	P502689	EN 13823 + EN ISO 11925-2
SP	KE Fibertec AS	P602826	EN 13823 + EN ISO 11925-2

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2		12		
Edge flame attack				
30 s exposure	$Fs \leq 150$ mm		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN ISO 11925-2		12		
Surface flame attack				
30 s exposure	$Fs \leq 150$ mm		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		6		
	$FIGRA_{0,2MJ}$ (W/s)		0	(-)
	$LFS <$ edge		(-)	Yes
	THR_{600s}, (MJ)		0.1	(-)
	$SMOGRA$, (m^2/s^2)		0	(-)
	TSP_{600s}, (m^2)		25	(-)
	Flaming droplets/particles		(-)	No flaming droplets/particles

(-) : not applicable

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8.2, 10.6, 10.9, 10.10 and 13 of EN 13501-1:2002 and clause 5.2 of EN 13238:2001.

4.2 Classification

The products called KE-Low Impulse®-, KE-Interior®-, KE-Direjet®- and KE-LaserInject systems including components, used in ventilation ducts for air distribution, in relation to their reaction to fire behaviour are 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 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 0.45 - 0.55 mm.

Area weight:
- Nominal 255 - 360 g/m^2.

5. Limitations

This document does not represent type approval or certification of the product.

SP Sveriges Tekniska Forskningsinstitut
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