

CE Produkter AB  
Hantverksgatan 2  
31083 Unnaryd

## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to the product called “Airfelt TK” and “Acufelt” 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 an acoustic insulation.

#### 2.2 Product description

According to the client:

Wadding for ventilation and sound absorbing called “Airfelt TK” and “Acufelt”, consisting of thermo bonded polyester fibre with a facing of non-woven polyester. The facing has a nominal area weight of 45 g/m<sup>2</sup>. The product has a nominal area weight range of 400 – 2600 g/m<sup>2</sup> and a nominal range of 6 – 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	Accredited test method
SP	CE Produkter AB	P601926	EN 13823 EN ISO 11925-2
SP	CE Produkter AB	3P01481	EN 13823 EN ISO 11925-2

#### 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

The test results listed below show the worst case as found in the test programme performed and reported according to the table above. The tests have been carried out on products covering the area weight range and thickness range of the product group.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		16		
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		3		
	$FIGRA_{0,2MJ}$ (W/s)		20	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		20	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600s}$ , (MJ)		2.1	Compliant
	$SMOGRA$ , ( $m^2/s^2$ )		4	Compliant
	$TSP_{600s}$ , ( $m^2$ )		44	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 “Airfelt TK” and Acufelt” 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 with an air gap of  $\geq 80$ mm.

Joints

- Vertical and horizontal joints.

This classification is valid for the following product parameters:

Nominal thickness: 6 - 50 mm.

Nominal area weight: 400 - 2600 kg/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 Technology - Fire Dynamics

Performed by

  
Marina C Andersson

Examined by

  
Per Thureson