

Handled by, department  
Per Thureson  
Fire Technology  
+46 10 516 50 83, per.thureson@sp.se

Abstracta AB  
Box 75  
360 30 LAMMHULT

## Reaction to fire classification report of product "AirFlake"

### 1 Introduction

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

### 2 Details of classified product

#### 2.1 General

The product "AirFlake" is defined as a sound absorbing room divider material.

#### 2.2 Product description

The product is fully described below.

Sound absorbing modular room divider called "Airflake", consisting of moulded fibre felt panels. The panels can be combined in different shapes and colours to form the divider. The product has a nominal area weight of 1,56 kg/m<sup>2</sup> and a nominal thickness of 7,5 mm.

### 3 Test reports & test results in support of classification

#### 3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no.	Test method
SP	Abstracta AB	P702462	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  
SWEDEN

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

Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

### 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.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		6		
Edge/Surface flame attack*				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	Yes
EN 13823		3		
	$FIGRA_{0,4MJ}$ (W/s)		158	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	$THR_{600s}$ , (MJ)		8.4	Compliant
	$SMOGRA$ , ( $m^2/s^2$ )		28	Compliant
	$TSP_{600s}$ , ( $m^2$ )**		152	Compliant
	Flaming droplets/particles		(-)	Yes

\* : as required to the end use application of the product

\*\* The smoke measurement procedure according to EN 13823 and GNB-CPD position paper from SH02 - Measurement of Smoke on the SBI - Discrepancy in the output from the two burners - NB-CPD/SH02/07/047 - from the group of notified bodies has been used.

(-) : 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.

### 4.2 Classification

The product called “AirFlake” in relation to its reaction to fire behaviour is classified:

C

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming particles/droplets is:

d2

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	
C	-	s	2	,	d	2

**Reaction to fire classification: *C-s2, d2***

**4.3 Field of application:**

This classification is valid for the following product parameters:

Nominal thickness: 7.5 mm.

Nominal area weight: 1.56 kg/m<sup>2</sup>.

Mounting:

Mounting free hanging with a void of ≥ 80 mm behind the product. At the upper end mechanically fixed to a supporting structure.

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 Sveriges Tekniska Forskningsinstitut  
Fire Technology - Materials Reaction to Fire**

  
Per Thureson  
Manager Manager

  
Marina C Andersson  
Technical officer