

Gustafs Inredningar i Dalarna AB  
Stationsvägen 1  
783 50 GUSTAFS

## Reaction to fire classification report

### 1 Introduction

This classification report defines the classification assigned to the product “Gustafs BF-panel” in accordance with the procedure given in EN 13501-1:2007.

### 2 Details of classified product

#### 2.1 General

The product “Gustafs BF-panel” is defined as a plain, perforated or slotted wall and ceiling panel product.

#### 2.2 Product description

The product, “Gustafs BF-panel”, is fully described in the test reports provided in support of classification listed in Clause 3.1.

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

#### 3.1 Test reports

This classification is based on the test report/s listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP	Gustafs inredningar i Dalarna AB	P400642	EN 13823 and EN ISO 11925-2
SP	Gustafs inredningar i Dalarna AB	PX12651	EN 13823
SP	Gustafs inredningar i Dalarna AB	FX102546	EN ISO 1716

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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.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN 13823		3		
	<i>FIGRA</i> <sub>0,2MJ</sub> (W/s)		6	(-)
	<i>FIGRA</i> <sub>0,4MJ</sub> (W/s)		6	(-)
	<i>LFS</i> < edge		(-)	Compliant
	<i>THR</i> <sub>600s</sub> , (MJ)		1.0	(-)
	<i>SMOGRA</i> , (m <sup>2</sup> /s <sup>2</sup> )		4	(-)
	<i>TSP</i> <sub>600s</sub> , (m <sup>2</sup> )		28	(-)
	Flaming droplets/particles		(-)	No flaming droplets/particles
EN ISO 1716		3		
	<i>PCS</i> (MJ/kg) (1)		1.36	(-)
	<i>PCS</i> (MJ/m <sup>2</sup> ) (2)		1.40	(-)
	<i>PCS</i> (MJ/m <sup>2</sup> ) (2)		1.06	(-)
	<i>PCS</i> (MJ/m <sup>2</sup> ) (2)		2.05	(-)
	<i>PCS</i> (MJ/m <sup>2</sup> ) (2)		2.80	(-)
	<i>PCS</i> (MJ/m <sup>2</sup> ) (2)		2.71	(-)
	<i>PCS</i> (MJ/m <sup>2</sup> ) (2)		1.08	(-)
	<i>PCS</i> (MJ/kg) (4)		1.99	(-)

(-) : not applicable

(1): for non-homogeneous products the parameter for each substantial component is given

(2): for non-homogeneous products the parameter for each external non-substantial component is given

(4): the parameter for the product as a whole

**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 “Gustafs BF-panel” in relation to its reaction to fire behaviour is classified:

A2

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	
A2	-	s	1	,	d	0	

*i.e. A1 to F (as applicable) – s1, 2 or 3 (as applicable), d0, 1 or 2 (as applicable)*

**Reaction to fire classification: *A2-s1, d0***

**4.3 Field of application:**

This classification is valid for the following product parameters:

- Nominal thickness: >13.2 mm
- Surface structure: Plain perforated or slotted

This classification is valid for the following end use conditions:

- Mounting
  - Mechanically fixed by means of aluminium profiles to wood battens which are attached to the substrate according to SP report P400642, appendix 11.
- Substrates
  - Wood based substrates at least 12 mm thick and any end use substrate of Euroclasses A1 or A2 at least 6 mm thick, having a density  $\geq 510 \text{ kg/m}^3$ .
- Fixings

- Mechanically fixed.

Acoustic board

- Stone wool having a nominal density of 28 kg/m<sup>3</sup> and a nominal thickness of 30 mm.

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

## 5 Limitations

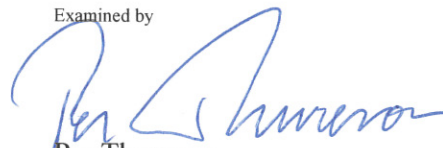
This classification document does not represent type approval or certification of the product.

### SP Technical Research Institute of Sweden Fire Technology - Fire Dynamics

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