

Gustafs Inredningar i Dalarna AB  
Stationsvägen 1  
783 50 GUSTAFS

Handled by, department  
Patrik Johansson  
Fire Technology  
+46 33 16 50 92, patrik.johansson@sp.se

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Reference  
P400642B

## Reaction to fire classification report of product Gustafs BF-Panel

### Introduction

This classification report defines the classification assigned to the product Gustafs BF-Panel in accordance with the procedure given in EN 13501-1.

### Nature and end use application

The product "Gustafs BF-Panel" is defined as a wall and ceiling product.

### Description

According to the client:

Plain, perforated (type PH/PG 5, 8, 10 mm, PD 8 mm, PS2 3/10 mm) and slotted (SH/SG 5, 8 mm, SM/SX 5, 8 mm, RS5-C20 mm and RS8-C40 mm) wall and ceiling panel product called "Gustafs BF-Panel", consisting of the following:

- |               |   |
|---------------|---|
| Core          | Gypsum wood fibre board having a nominal thickness of 8 - 12 mm. When perforated or slotted, a black glass tissue is mounted on the backside of the core.   |
| Glue          | Melamine - urea glue called "DYMOMELL L-475". Maximum 220 g/m <sup>2</sup> .  |
| Surface layer | Wooden veneer having a maximum thickness of 0.7 mm.<br>Alternative craft paper type "Spantex". Weight 275 g/m <sup>2</sup> . Only in combination with paint base called "Wedett 40 TIX".  |
| Lacquer       | 3 layers of UV-tempered clear varnish called "Uvinol".<br>Maximum 50 g/m <sup>2</sup> .<br>Alternative industrial Decorwax based on natural oils and waxes.<br>Maximum 50 g/m <sup>2</sup> .<br>Alternative 2-component acid cured paint base called "Wedett 40 TIX".<br>Maximum 120 g/m <sup>2</sup> . Only applied to the craft paper called "Spantex". |

### SP Swedish National Testing and Research Institute

Postal address  
SP  
Box 857  
SE-501 15 Borås  
SWEDEN

Phone / Fax / E-mail  
+46 33 16 50 00  
+46 33 13 55 02  
info@sp.se

Reg. number  
556464-6874

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"POWERSZE MATERIAŁY PŁYTKOWE I WYŁĄCZNEGO DYSTRYBUTORA MATERIAŁÓW GUSTAFS PANEL SYSTEMS"



The panel is mechanically fixed by means of aluminium profiles to wood battens which are attached to a substrate. The space between the panel and the substrate is filled with an acoustic board of stone wool called "PAROC".

**Test report**

This classification is based on test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	Gustafs Inredning i Dalarna AB	P400642	EN 13823 and EN ISO 11925-2

**Test results**

The test results listed below show the worst case as found in the test programme performed and reported in test report P400642.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2		12		
Edge and surface flame attack				
30 s exposure	$F_s \leq 150$ mm		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		29	(-)
	$LFS < edge$		(-)	Yes
	$THR_{600s}$ (MJ)		1.0	(-)
	$SMOGRA$ , (m <sup>2</sup> /s <sup>2</sup> )		0	(-)
	$TSP_{600s}$ (m <sup>2</sup> )		23	(-)
	Flaming droplets/particles		(-)	No flaming droplets/particles

(-) : not applicable

### Reference and direct field of application

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.

### Classification

The product called "Gustafs BF-Panel" in relation to its reaction to fire behaviour is classified:

The additional classification in relation to smoke production is:

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

B  
s1  
d0

The final classification is **B-s1,d0**

### Field of application:

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, having a density  $\geq 630 \text{ kg/m}^3$ .
- Any end use substrate of Euroclasses A1 or A2 at least 6 mm thick, having a density  $\geq 630 \text{ kg/m}^3$ .

#### Acoustic board

- Stone wool having a nominal density of  $28 \text{ kg/m}^3$  and a nominal thickness of 30 mm.

This classification is also valid for the following product parameters:

#### Surface structure

- Plain, perforated (type PH/PG 5, 8, 10 mm, PD 8 mm, PS2 3/10 mm) and slotted (SH/SG 5, 8 mm, SM/SX 5, 8 mm, RS5-C20 mm and RS8-C40 mm).

#### Core

- Gypsum wood fibre board, nominal thickness 8 - 12 mm.

#### Glue

- Melamine - urea glue, maximum  $220 \text{ g/m}^2$ .

#### Surface layer

- Wooden veneer, nominal thickness 0.7 mm  
or
- Craft paper type "Spantex". Nominal area weight  $275 \text{ g/m}^2$  (painted panels). Only in combination with paint base called "Wedett 40 TIX".

**„POWYŻSZE MATERIAŁY POCHODZĄ Z FIRMY „INSIDE” SP.J.  
PRZEDSTAWICIELA I WYŁĄCZNEGO DYSTRYBUTORA MATERIAŁÓW  
GUSTAFS PANEL SYSTEMS”**

Lacquer

- 3 layers of UV-tempered clear varnish, maximum 50 g/m<sup>2</sup>  
or
- Industrial Decorwax based on natural oils and waxes.  
Maximum 50 g/m<sup>2</sup>  
or
- 2-component acid cured paint base called "Wedett 40 TIX".  
Maximum 120 g/m<sup>2</sup>. Only applied to the craft paper called "Spantex".

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


**Restrictions**

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**Warning**

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

**SP Swedish National Testing and Research Institute**  
**Fire Technology - Materials Reaction to Fire**



Björn Sundström  
Head of Section



Per Thureson  
Technical Manager