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Reference
P400642C

Reaction to fire classification report of product Gustafs MDF-Panel

Introduction

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

Nature and end use application

The product "Gustafs MDF-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 MDF-Panel", consisting of the following:

Core	Medium density wood fibre board having a nominal thickness of 12 mm and a nominal density of 800 kg/m ³ . When perforated or slotted, a black glass tissue is mounted on the backside of the core.
Veneer glue	Melamine - urea glue called "DYMOMELL L-475". Maximum 220 g/m ² .
Surface layer	Wooden veneer having a maximum thickness of 0.7 mm.
Lacquer	3 layers of UV-tempered clear varnish called "Uvinol". Maximum 50 g/m ² .

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".

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Test report

This classification is based on test report listed below:

Name of laboratory	Name of sponsor	Date	Test report ref no	Test method
SP	Gustafs Inredning i Dalarna AB		P400642A	EN 13823 and EN ISO 11925-2
SP	Gustafs Inredning i Dalarna AB		P400642	EN 13823 and EN ISO 11925-2

Test results

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)		262	(-)
	$LFS < \text{edge}$		(-)	Yes
	THR_{600s} , (MJ)		18.6	(-)
	$SMOGRA$, (m^2/s^2)		2.2	(-)
	TSP_{600s} , (m^2)		32	(-)
	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, 10.4, 10.9, 10.10 and 13 of EN 13501-1:2002.

Classification

The product called "Gustafs MDF-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:

D
s1
d0

The final classification is **D-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 P400642A, appendix 5.

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 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

- Medium density wood fibre board, nominal thickness 12 mm and nominal density 800 kg/m^3 .

Glue

- Melamine - urea glue, maximum 220 g/m^2 .

Surface layer

- Wooden veneer, nominal thickness 0.7 mm.

Lacquer

- 3 layers of UV-tempered clear varnish, maximum 50 g/m^2 .

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**


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