

Formica IKI Oy
FI-35990 KOLHO
Finland

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "EDF 4.0 mm" in accordance with the procedure given in EN 13501-1:2007.

2 Details of classified product

2.1 General

The product "EDF 4.0 mm" is defined as a compact laminate panel. Its classification is valid for linings.

According to the owner of this classification report, this product complies with the European product specification EN 438-7:2005.

2.2 Product description

According to information provided by the client, the product has the following composition:

High pressure laminate product called EDF 4.0 mm, consisting of flame retardant treated unbleached craft paper, décor paper, phenol and melamine resin and UV protection layer on top. The flame retardant consists of phosphates. The craft and décor papers are impregnated with phenol and melamine resin and are then pressed together at high temperature and high pressure. The products have a nominal density of 1400 kg/m³.

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	Accredited test method
SP	Formica IKI Oy	PX13981-2	EN 13823 and EN ISO 11925-2

SP Technical Research Institute of Sweden

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3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		6		
Edge flame attack				
30 s exposure	$F_s \leq 150$ mm		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
Surface flame attack		6		
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)		73	(-)
	$FIGRA_{0,4MJ}$ (W/s)		66	(-)
	$LFS < \text{edge}$		(-)	Yes
	THR_{600s} (MJ)		8.2	(-)
	$SMOGRA$, (m^2/s^2)		11	(-)
	TSP_{600s} (m^2)		135	(-)
	Flaming droplets/particles		(-)	Flaming droplets/particles

(-) : 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 “EDF 4.0 mm” 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:

Mounting on frames:

Mechanically fixed with centre fixing distance up to 800 mm to wood based or all other types of frames (e.g. aluminium, steel frames). Horizontal joint with aluminium profile. Further details of mounting is given in SP report PX13981-2.

Substrates:

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

This classification is also valid for the following product parameters:

Compact laminate:

Nominal thicknesses 4.0 mm
Nominal density 1400 kg/m^3 .

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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