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Testing. Advising. Assuring.

**Title:**

CLASSIFICATION OF  
REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1:2007+A1: 2009.

**Notified Body No:**

0833

**Product Name:**

"Solid Surface Sheet"

**Report No:**

331658

**Issue No:**

1

**Prepared for:**

Safas Corporation  
2 Ackerman Avenue  
Clifton  
New Jersey  
07011  
USA

**Date:**

2<sup>nd</sup> August 2013



## 1. Introduction

This classification report defines the classification assigned to "Solid Surface Sheet", a solid polymethyl methacrylate sheet product, in line with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

The product, "Solid Surface Sheet", a solid polymethyl methacrylate sheet product, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, "Solid Surface Sheet", a solid polymethyl methacrylate sheet product, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Generic type	Solid polymethyl methacrylate sheet (PMMA)
Product reference	"Solid Surface Sheet"
Composition details	69% ATH, 31% PMMA
Name of manufacturer	Safas Corporation
Thickness	6mm (stated by sponsor) 6.06mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area	11.23kg/m <sup>2</sup> (2.3lb/ft <sup>2</sup> ) (stated by sponsor) 11.16kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Colour reference	"SSAV 2018 ICY MIST" (stated by sponsor) "White" (as observed by <b>Exova Warringtonfire</b> )
Trade name of flame retardant	"ATH"
Generic type of flame retardant	Aluminium hydroxide filler
Amount of flame retardant	69%
Brief description of manufacturing process	Hot press moulding
Air space details	A 40mm ventilated cavity was situated between the reverse face of each specimen and the calcium silicate (as specified in EN 13238: 2010) backing board



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

#### 3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Safas Corporation	WF 331607	EN ISO 11925-2
Exova warringtonfire	Safas Corporation	WF 331608	EN 13823

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F <sub>s</sub>	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge)	F <sub>s</sub>	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	35.52	Compliant
	FIGRA <sub>0.4MJ</sub>		35.52	Compliant
	THR <sub>600s</sub>		4.26	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP <sub>600s</sub>		7.98	Compliant

### 4. Classification and field of application

#### 4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1:2009.

## 4.2 Classification

The product, "Solid Surface Sheet", a solid polymethyl methacrylate sheet product, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

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

**d0**

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

i.e. B – s1 , d0

**Reaction to fire classification: B – s1, d0**

## 4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications used over any substrate with a density equal to or greater than  $870\text{kg/m}^3$ , having a minimum thickness of 12mm and a fire performance of A2 or better (excluding paper faced gypsum plasterboard).
- ii) Product installed with a minimum airspace of 40mm

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour/pattern	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

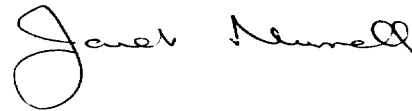
**SIGNED**



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**Matthew Dale**  
Certification Engineer  
Technical Department

**APPROVED**



.....

**Janet Murrell**  
Technical Manager  
Technical Department  
on behalf of **Exova warringtonfire**

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