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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:**

"Chromatics"

**Report No:**

WF 402274

**Issue No:**

2

**Prepared for:**

Chromatics Glass Limited,  
10/11 Charterhouse Square  
London,  
EC1M 6EH

**Date:**

20<sup>th</sup> July 2018



## 1. Introduction

This classification report defines the classification assigned to "Chromatics", a coloured glass laminate, in accordance with the procedures given in EN 13501-1:2007

## 2. Details of classified product

### 2.1 General

The product, "Chromatics", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, "Chromatics", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Coloured glass laminate
Product reference of overall composite		"Chromatics"
Name of manufacturer of overall composite		Chromatics Glass Limited
Thickness of overall composite		6.05mm
Weight per unit area of overall composite		15.03kg/m <sup>2</sup>
Foil	Generic type	Aluminium. Soft annealed
	Product reference	"Chromatics Foil"
	Detailed description / composition details	Stippled, soft annealed aluminium, 80 micron thickness
	Name of manufacturer	<b>See Note 1 below</b>
	Thickness	80 microns
	Weight per unit area	250 g/m <sup>2</sup>
	Flame retardant details	<b>See Note 2 below</b>
Adhesive	Generic type	Polyester
	Product reference	"Chromatics Interlayer"
	Name of manufacturer	<b>See Note 1 below</b>
	Colour reference	"Red"
	Application thickness	80 microns
	Application method	Electrostatic spray
	Flame retardant details	<b>See Note 2 below</b>
Substrate	Curing process	Thermal
	Generic type	Float glass
	Product reference	"Low Iron Glass"
	Detailed description / composition details	Low iron float glass (6mm)
	Name of manufacturer	<b>See Note 1 below</b>
	Thickness	6mm
	Weight per unit area	15 kg/m <sup>2</sup>
Flame retardant details	<b>See Note 2 below</b>	

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Mounting and fixing details	The specimen was tested with a calcium silicate substrate with a density of $870\text{kg/m}^3 \pm 50$ butted up against the reverse face of the specimen
Brief description of manufacturing process	Lamination

**Note 1:** The sponsor of the test was unwilling to provide this information.

**Note 2:** The sponsor of the test has confirmed that no flame retardants were used in the production of this product.

### 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	Chromatics Glass Limited	WF 401095	EN 13823
Exova Warringtonfire	Chromatics Glass Limited	WF 397403	EN ISO 1716

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA <sub>0.2MJ</sub>	3	14.34	Compliant
	FIGRA <sub>0.4MJ</sub>		9.46	Compliant
	THR <sub>600s</sub>		0.67	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP <sub>600s</sub>		21.66	Compliant

EN ISO 1716	Aluminium foil – PCS (b)	Deemed to satisfy (0.00)		Compliant
	Adhesive – PCS (d)	3	2.9742 MJ/m <sup>2</sup>	Compliant
	Glass Substrate – PCS (a)	Deemed to satisfy (0.00)		Compliant
	For the product as a whole PCS (e)		0.193 MJ/Kg	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, "Chromatics", a coloured glass laminate, 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 droplets / particles is:

**d0**

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

Fire Behaviour		Smoke Production				Flaming Droplets	
<b>A2</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>	

i.e. **A2 – s1 , d0**

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

### 4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction Applications

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product density	No variation allowed
Product composition	No variation allowed

#### SIGNED

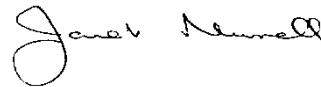


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**Katie Williams**

Junior Certification Engineer

#### APPROVED



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**Janet Murrell**

Technical Manager  
on behalf of **Exova Warringtonfire**

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