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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:**

"Probe Steel Products"

Report No:

351865

**Issue No:**

1

**Prepared for:**

Lion Steel Equipment Limited  
Johnson Brook Road, Hyde,  
Cheshire, SK14 4RB

**Date:**

14<sup>th</sup> May 2015

## 1. Introduction

This classification report defines the classification assigned to "Steel Lockers", powder coated steel sheet, in accordance with the procedures given in EN 13501-1:2007 +A1: 2009

## 2. Details of classified product

### 2.1 General

The product, "Steel Lockers", powder coated steel sheet is defined as suitable for construction applications, excluding flooring or linear pipe insulation.

### 2.2 Product description

The product, "Steel Lockers", powder coated steel sheet, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Powder coated steel
Product reference of composite		"Steel Lockers"
Name of manufacturer of composite		Lion Steel Equipment Limited
Thickness of composite		0.9mm
Weight per unit area of composite		6.86kg/m <sup>2</sup>
Coating (test face)	Generic type	Epoxy polyester
	Colours tested	"1 x Red, 1 x Black, 1 x White"
	Product reference	"AM03003000423 (Red)" "AM03204000523 (Black)" "AM03009004423 (White)"
	Name of manufacturer	Axalta Powder Coating Systems UK Ltd
	Number of coats	1
	Application thickness	60 – 80 microns
	Specific gravity	1.77
	Application method	Electrostatic spray application
	Flame retardant details	<b>See Note 1 Below</b>
Curing process per coat	10 minutes at 180°C	
Substrate	Generic type	Cold reduced steel
	Product reference	"Steel"
	Thickness	0.7mm-0.9mm
	Weight per unit area	7850kg/m <sup>3</sup>
Air space details		A 80mm ventilated cavity was situated between the reverse face of each specimen and the calcium silicate backing board (as specified in EN 13238: 2010)
Brief description of manufacturing process		<b>See Note 3 Below</b>

**Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product.**

**Note 2: The sponsor of the test was unwilling to provide this information**

**Note 3: The sponsor of the test was unable to provide this information**

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

#### 3.1 Test reports

Name of Laboratory	Name of sponsor	Test report Nos.	Test method
Exova warringtonfire	Lion Steel Equipment Limited	WFR 350555	EN 13823
Exova warringtonfire	Lion Steel Equipment Limited	WFR 350556	EN ISO 1716

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 1716	PCS Coating	3	16.2242 MJ/kg	
	external non-substantial component		<b>2.297 MJ/m<sup>2</sup></b>	Compliant
	<b>product as a whole</b>		<b>0.418 MJ/kg</b>	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	4.3	Compliant
	THR <sub>600s</sub>		0.87	Compliant
	LFS		N	Compliant
	SMOGRA		0.3	Compliant
	TSP <sub>600s</sub>		31.5	Compliant
	Flaming droplets (y/n) <10 s (y/n) >10 s (y/n)		nil	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, "Steel Lockers", powder coated steel sheet, in relation to its reaction to fire behaviour is classified:

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

## 4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall and ceiling applications
- ii) Used against any substrate of class A2 or better, with a density of 870 kg/m<sup>3</sup> or higher
- iii) Free-standing

This classification is also valid for the following product parameters:

Product thickness	0.7 mm or more
Colour	any
Product composition	No further variation allowed

## 5 Limitations

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

### SIGNED

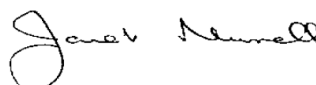


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### Frans Paap

Certification Engineer

### APPROVED



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### Janet Murrell

Technical Manager  
on behalf of **Exova warringtonfire**

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