

**Title:**

CLASSIFICATION OF REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1: 2018.

**Product Name:**

"ULTIMA A1"

**Report No:**

WF 506122

**Issue No:**

1

**Prepared for:**

Metalline Services Ltd  
Hollies Park Road  
Cannock  
Staffordshire  
WS11 1DB

**Date:**

18<sup>th</sup> August 2021

## 1. Introduction

This classification report defines the classification assigned to “Ultima A1”, an insulated spandrel panel with hard edging, in line with the procedures given in EN 13501-1: 2018.

## 2. Details of classified product

### 2.1 General

The product, “ULTIMA A1”, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, “ULTIMA A1, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Insulated spandrel panel with hard edging
Product reference of overall composite		ULTIMA A1
Name of manufacturer of overall composite		Metalline (Services) Ltd
Thickness of overall composite		37mm
Weight per unit area of overall composite		14.76kg/m <sup>2</sup>
Aluminium sheet	Generic type	Aluminium (outer sheet)
	Product reference	<b>See Note 1 below</b>
	Detailed description / composition details	Aluminium grade J57S UP (anodised)
	Name of manufacturer	<b>See Note 1 below</b>
	Thickness	3mm
	Density	2700kg/m <sup>3</sup>
	Weight per unit area	8.10kg/m <sup>2</sup>
	Flame retardant details	This product is inherently flame retardant
Hard edging (applied as a strip around the perimeter edge of the panel)	Generic type	Fibre cement board
	Product reference	“Ultima A1 Hard Edge”
	Detailed description / composition details	<b>See Note 1 below</b>
	Name of manufacturer	Metalline
	Thickness	3mm – 6mm
	Density	1830kg/m <sup>3</sup>
	Weight per unit area	4.14 - 8.28kg/m <sup>2</sup>
	Width of edging strip in use	20 - 50mm
Flame retardant details	This product is inherently flame retardant	

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Insulation	Generic type	Stone wool insulation
	Trade name / product reference	"Fabrock Clad"
	Name of manufacturer	Rockwool
	Thickness	33mm
	Colour	"Yellow" (as determined by Warringtonfire)
	Density	120kg/m <sup>3</sup>
	Weight per unit area	3.96kg/m <sup>2</sup>
	Resin details	<b>See Note 2 below</b>
	Oil details	<b>See Note 2 below</b>
	Flame retardant details	<b>See Note 2 below</b>
Aluminium sheet	Generic type	Aluminium (outer sheet)
	Product reference	"Aluminium"
	Detailed description / composition details	Mill finish aluminium (grade 1050)
	Name of manufacturer	<b>See Note 1 below</b>
	Thickness	1mm
	Density	2700kg/m <sup>3</sup>
	Weight per unit area	2.70kg/m <sup>2</sup>
	Flame retardant details	This product is inherently flame retardant
Brief description of manufacturing process		A mechanically fixed panel construction consisting of 2 layers of aluminium, a stonewool insulation core and a 'hard-edging' around the perimeter of the panel.

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

**Note 2:** The sponsor 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 reports/extended application report Nos.	Test method / extended application rules & date
<a href="#">Warringtonfire</a>	Metalline Services Ltd	WF 433461 & WF 502682	EN ISO 1716: 2018
<a href="#">Warringtonfire</a>	Metalline Services Ltd	WF 506121	EN ISO 1716: 2018 Composite summary report
<a href="#">Warringtonfire</a>	Metalline Services Ltd	WF 435008	EN ISO 1182: 2010
<a href="#">Warringtonfire</a>	Metalline Services Ltd	WF 504646	EN ISO 1182: 2020

### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - Max/Mean (m)	Compliance parameters
	Aluminium - PCS (a)	Deemed to satisfy (0.00)		-
	Hard edging- PCS (a)	3	1.0 MJ/Kg	-
	insulation- PCS (a)	3	1.1 MJ/Kg	-
	Aluminium - PCS (a)	Deemed to satisfy (0.00)		-
	For the product as a whole PCS (e)	Summary result	0.3 MJ/Kg	-
EN ISO 1182 (Insulation)	Furnace thermocouple temperature rise	5	3 °C	-
	Duration of sustained flaming (seconds)		None	-
	Mass Loss (%)		3 %	-
EN ISO 1182 (hard edging)	Furnace thermocouple temperature rise	5	3 °C	-
	Duration of sustained flaming (seconds)		None	-
	Mass Loss (%)		17 %	-

\* EN 1182 tests were not conducted on the Aluminium sheet components as they are deemed to be Euroclass A1 in accordance with the European Commission Decision of 4 October 1996 (94/611/EC) as amended by 2000/605/EC.

## 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: 2018.

### 4.2 Classification

The product, "Ultima A1", an insulated spandrel panel with hard edging, in relation to its reaction to fire behaviour is classified:

**Reaction to fire classification: A1**

### 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:

Insulation thickness	Any variation allowed
J57S UP Aluminium thickness	3mm and greater allowed
Mill finish Aluminium thickness	1mm and greater allowed
Product composition	No variation allowed
Product construction	No variation allowed

### 5. Limitations

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

**SIGNED**



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**Stacey Deeming**

Principal Engineer  
Technical Department

**APPROVED**



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**Matthew Dale**

Principal Certification Engineer  
Technical Department  
on behalf of [Warringtonfire](#)

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