

**Title:**

CLASSIFICATION OF REACTION TO FIRE  
PERFORMANCE  
USING THE PRINCIPLES OF EN 13501-  
1:2007 +A1:2009

**Notified Body No:**

0833

**Product Name:**

"AxiAL Stainless Steel Supporting System"

**Report No:**

WF 413770

**Issue No:**

1

**Prepared for:**

Ash & Lacy Solutions Ltd  
Bromford Lane  
West Bromwich  
West Midlands  
B70 7JJ

**Date:**

21<sup>st</sup> May 2019

## 1. Introduction

This classification report defines the indicated classification assigned to "AxiAL Stainless Steel Supporting System", a façade supporting system, using the principles of EN 13501-1:2007+A1:2009.

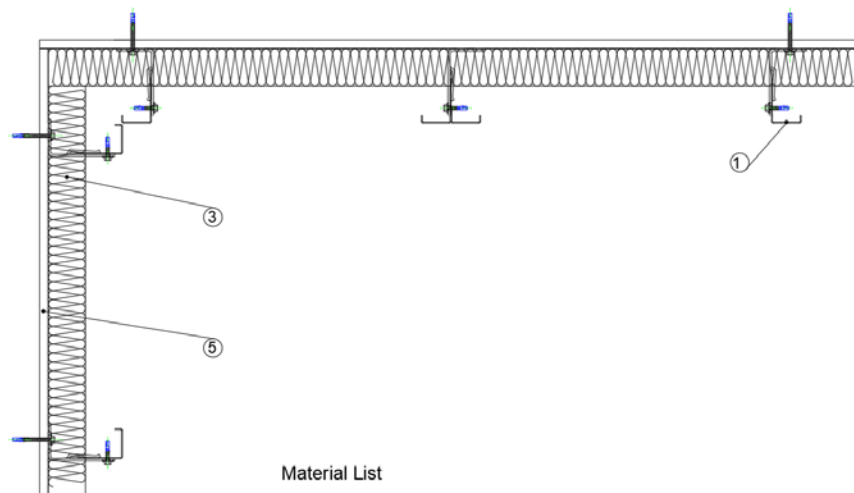
## 2. Details of classified product

### 2.1 General

The product, "AxiAL Stainless Steel Supporting System", a façade supporting system, is defined as being suitable for construction applications.

### 2.2 Product description

The product, "AxiAL Stainless Steel Supporting System", a façade supporting system, is described below.



#### Material List

1. AxiAL AXR1-4 Stainless Steel Bracket & Rail
2. Mineral Wool Insulation (Fire Reaction Rating A1)
3. Substrate (Fire Reaction Rating A1)

### Typical Details for AxiAL Alum Supporting System

Generic type		Façade Supporting System
Product reference		AxiAL Stainless Steel Supporting System
Name of manufacturer		Ash & Lacy Solutions Ltd
Façade Panel	Not included in the report – should be A1	
Mounting System	Reference	AXR1-4
	Material	316 Stainless Steel
	Max cladding zone*	365 mm
Cavity	Depth	25-100 mm
Insulation	Generic type	Mineral wool with a classification of A1
	Facing	With or without one of the following facings: 70g/m2 black tissue ref: 201/0250 70-100g/m2, white tissue ref: 201/0261/0256 90g/m2 aluminium foil ref: 201/0220
	Thickness	50-340 mm
	Binder content	<5%
	Density	19-220 kg/m3
Substrate	Not included in the report – should be A1	

\* Cladding zone is the distance between the back of bracket to the front face of rails

**Note 1:** The sponsor has confirmed that no flame retardant additives were utilised in the Various elements of the system.

**Note 2:** This system does not include a vapour barrier or a breather membrane, since these components are not Class A1. If a vapour barrier is required guidance as to the required fire classification is given in Approved Document B

**Note 3:** The cavity should be closed at each floor slab using a cavity barrier in accordance with B3 of Approved Document B

### 3. Documentation in support of classification

Product (Component Part of External Wall System )	Reports and other Information
Mounting system	Stainless Steel - Classified without further testing as A1 Commission Decision 96/603/EC, as amended 2000/605/EC
Insulation	Class A1 mineral wool, Commission Decision 96/603/EC, as amended 2000/605/EC. Insulation should have a binder content of <5% and a density 19 to 220 kg/m <sup>2</sup> .

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 1182	$\Delta T$	5	<30	Compliant
	$\Delta m$		<50%	
	$t_f$		No flaming	
EN ISO 1716	PCS (a), (e)	3	<2.0 MJ/kg	Compliant

### 4. Classification and field of application

#### 4.1 Reference of classification

This classification has been carried out following the principles of EN 13501-1:2007+A1: 2009 based on products which form a façade system which individually are deemed to be Class A1 in accordance with Commission Decision 96/603/EC, as amended 2000/605/EC or that have been tested and certificated as having an A1 performance.

## 4.2 Classification

The product, "AxiAL Stainless Steel Supporting System", a façade supporting system, 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:

System thickness or depth	No variation from the described system allowed
Insulation thickness	≤ 340mm
Insulation Density	19 to 220 kg/m <sup>3</sup>
Insulation Binder Content	<5%
Cavity Depth	≤ 100mm
System Composition	No variation allowed
Substrate	Class A1 only

### SIGNED

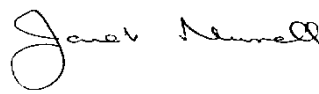


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**Katherine Williams**

Certification Engineer

### APPROVED



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**Janet Murrell**

Technical Manager  
on behalf of **Warringtonfire**

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