

Title:

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

Notified Body No:

0833

Product Name:

"Metal Façade – 4mm Alucobond A2 ACM

Report No:

WF 410808

Issue No:

1

Prepared for:

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

Date:

21st May 2019

1. Introduction

This classification report defines the indicated classification assigned to “Metal Façade – 4mm Alucobond A2 ACM”, a metal faced rainscreen façade system, using the principles of EN 13501-1:2007+A1: 2009.

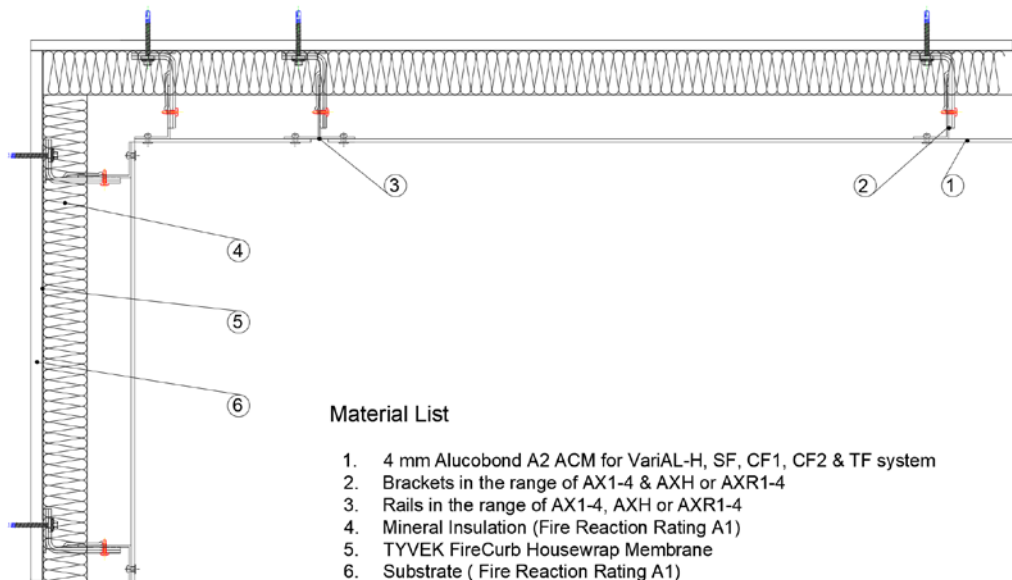
2. Details of classified product

2.1 General

The product, “Metal Façade – 4mm Alucobond A2 ACM”, a metal faced rainscreen façade system, is defined as being suitable for construction applications.

2.2 Product description

The product, “Metal Façade – 4mm Alucobond A2 ACM”, a metal faced rainscreen façade system, is described below.



Typical Details of Metal Façade – 4 mm Alucobond A2 ACM

Generic type		Metal faced rainscreen façade system
Product reference		Metal Façade – 4 mm Alucobond A2 ACM
Name of manufacturer		Ash & Lacy Solutions Ltd
Thickness		Variable
Façade Facing	Generic type	Flat Sheet
	Applied System	VariAL-H, VariAL-SF, VariAL-CF1, VariAL-CF2, VariAL-TF
	Material	Alucobond A2 ACM
	thickness	4 mm
Mounting System	Reference	AX1-4, AXH, AXR1-4
	Material	6063T6 Alum for AX1-4, AXH, 316 Stainless Steel for AXR1-4
	Max cladding zone*	365 mm
Cavity	Depth	25-100 mm
Insulation if used	Generic type	Mineral wool of Classification A1
	Facing	With or without one of the following facings: 70g/m ² black tissue ref: 201/0250 70-100g/m ² , white tissue ref: 201/0261/0256 90g/m ² aluminium foil ref: 201/0220
	Thickness	50-340 mm
	Binder content	<5%
	Density	19-220 kg/m ³
	PCS Value	<1.0 MJ/kg
Membrane	Type	Tyvek FireCurb Hoursewrap
	Thickness	0.175 mm
Substrate	Not included in the report – shall 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

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Ash & Lacy Solutions	WF 409957, 411176	EN 13823
MPA	3A Composites GmbH	0672	EN 13501-1

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA 0.2MJ	3, 1	5.64	Compliant
			0.00	
	FIGRA 0.4MJ		5.64	
			0.00	
	THR 600s		0.63	
			0.22	
	LFS		None	
	SMOGRA		0.00	
			0.00	
	TSP 600s		15.33	
9.07				
Flaming droplets lasting >10s?	None			
EN ISO 1716	Façade Facing		1.989 MJ/kg	Compliant
	Mounting System		0.00	
	Insulation		1.0 MJ/kg	
	System as a whole		1.4 MJ/kg	

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.

4.2 Classification

The product, "Metal Façade – 4mm Alucobond A2 ACM", a metal faced rainscreen façade system, 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) 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 ³
Insulation Binder Content	<5%
Colour Applied	Any
Cavity Depth	≤ 100mm
System Composition	No variation allowed
Substrate	Class A1 only

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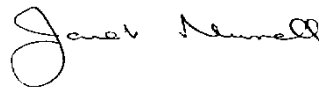


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Katherine Williams

Certification Engineer

APPROVED



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Janet Murrell

Technical Manager
on behalf of **Warringtonfire**

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