

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 – PPC Coating

Report No:

WF 410807

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 – PPC Aluminium”, a metal faced rainscreen façade system, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

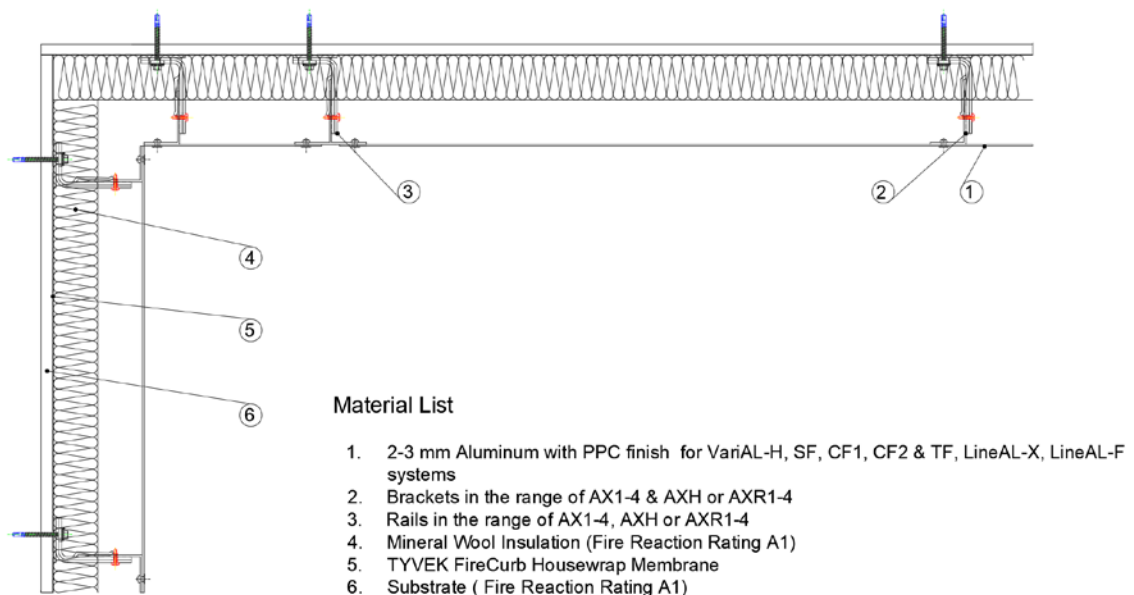
2. Details of classified product

2.1 General

The product, “Metal Façade – PPC Aluminium”, a metal faced rainscreen façade system, is defined as being suitable for construction applications.

2.2 Product description

The product, “Metal Façade – PPC Aluminium”, a metal faced rainscreen façade system, is described below.



Typical Details of Metal Façade – PPC Coating

Generic type		Metal faced rainscreen façade system
Product reference		Metal Façade – PPC Coating
Name of manufacturer		Ash & Lacy Solutions Ltd
Thickness		Variable
Façade Facing	Generic type	Flat Sheet, Cassette & Plank
	Applied System	VariAL-H, VariAL-SF, VariAL-CF1, VariAL-CF2, VariAL-CF3 VariAL-TF, VariAL-X, VariAL-F
	Material	Aluminium
	thickness	2-3 mm
PPC Coating	thickness	80 µm - 100 µm
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	Generic type	Mineral wool of Classification 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
Membrane	Type	Tyvek FireCurb Housewrap
	Thickness	0.175 mm
Substrate	Note included in the report – A1 only	

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

Note 1: 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 409955, 411175	EN 13823
LNE	Axalta Coating Systems	P155748	EN 13501-1 (EN 1716)

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	0.00	Compliant
			0.00	
	FIGRA 0.4MJ		0.00	
			0.00	
	THR 600s		0.51	
			0.93	
	LFS		None	
	SMOGRA		2.90	
			0.00	
	TSP 600s		35.64	
			14.08	
Flaming droplets lasting >10s?	None			
EN ISO 1716	Coating		2.297 MJ/m ²	Compliant
	Façade Facing (paint on aluminium sheet)		0.81 MJ/kg	
	Mounting System		0.00	
	Insulation		1.4 MJ/kg	
	System as a whole		1.33-1.4 MJ/kg	

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, “Metal Façade – PPC Aluminium”, a metal faced rainscreen façade system, 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	
A2	-	s	1	,	d	0

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:

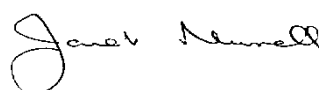
System thickness or depth	No variation from the described system allowed
Insulation thickness	$\leq 340\text{mm}$
Insulation Density	$19 \text{ to } 220 \text{ kg/m}^3$
Insulation Binder Content	$<5\%$
PPC Colour Applied	Any
Cavity Depth	$\leq 100\text{mm}$
System Composition	No variation allowed
Substrate	Class A1 only

SIGNED



Katherine Williams
Certification Engineer

APPROVED



Janet Murrell
Technical Manager
on behalf of **Warringtonfire**

This copy has been produced from a .pdf format electronic file that has been provided by Warringtonfire to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of Warringtonfire. The pdf copy supplied is the sole authentic version of this document. All pdf versions of this report bear authentic signatures of the responsible Warringtonfire staff.

All work and services carried out by Warringtonfire Testing and Certification Limited are subject to, and conducted in accordance with, the Standard Terms and Conditions of Warringtonfire Testing and Certification Limited, which are available at <https://www.element.com/terms/terms-and-conditions> or upon request.