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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:

“Ultraglaze-NC”

Report No:

WF 400364

Issue No:

2

Prepared for:

Newbrel Ltd
Gainsford Drive
Halesowen Industrial Park
Halesowen
West Midlands
B62 8BQ

Date:

6th July 2018

UKAS TESTING
0249

1. Introduction

This classification report defines the classification assigned to “Ultraglaze-NC”, a family of cladding panels, in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

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

2.2 Product description

The product, “Ultraglaze-NC”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Cladding Panel
Product reference		Ultraglaze-NC
Name of manufacturer		Newbrel Ltd
Overall thickness		24mm to 200mm
Overall weight per unit area		12.42 Kg/m2
Coating	Generic type	Polyester Powder Coating
	Product reference	Interpon D or Syntha Pulvin
	Name of manufacturer	Akzo Nobel or Valspar
	Colour reference	Standard Colours
	Number of coats	One
	Application thickness	40-60 microns
	Weight per unit area	13.6 g/m2
	Application method	Spray
	Curing process per coat	Drying Ovens
	Flame retardant details	**See Note 2 Below**
	Curing process per coat	**See Note 1 Below**
Substrate	Generic type	Aluminium or Galvanised Steel
	Product reference	**See Note 1 Below**
	Name of manufacturer	**See Note 1 Below**
	Thickness	Aluminium:- 1.5 to 3mm Galvanised Steel:- 1 to 3mm
	Weight per unit area	Aluminium:- 4050 to 8100g/m2 Galvanised Steel:- 7900 to 23700g/m2
	Flame retardant details	This component is inherently flame retardant

Adhesive	Generic type	Moisture Curing Polyurethane Adhesive
	Product reference	A7532
	Name of manufacturer	Apollo Adhesives
	Colour reference	**See Note 1 Below**
	Application rate	40-80 g/m2
	Application method	Automatic Spray Line
	Flame retardant details	**See Note 1 Below**
Insulation	Generic type	Mineral Wool
	Product reference	Fabrock Mech SL
	Name of manufacturer	Rockwool
	Thickness	22mm to 197mm
	Density	120kg/m3
	Weight per unit area	2.88kg – 24kg/m2
	Flame retardant details	**See Note 1 Below**
Adhesive	Generic type	Moisture Curing Polyurethane Adhesive
	Product reference	A7532
	Name of manufacturer	Apollo Adhesives
	Colour reference	**See Note 1 Below**
	Application rate	40-80 g/m2
	Application method	Automatic Spray line
	Flame retardant details	**See Note 1 Below**
Substrate	Generic type	Aluminium or Galvanised Steel
	Product reference	**See Note 1 Below**
	Name of manufacturer	**See Note 1 Below**
	Thickness	Aluminium:- 1.5mm to 3mm Galvanised Steel:- 1mm to 3mm
	Weight per unit area	Aluminium:- 4050g to 8100g/m2 Galvanised Steel:- 7900g to 23700g/m2
	Flame retardant details	This Component is inherently Flame Retardant
Hard edge	Generic type	Calcium Silicate
	Trade name	Promatect 250
	Manufacturer	Promat
	Thickness	20mm
	Density	700kg/m3
	Weight per unit area	1.37Kg/m2
	Flame retardant details	**See Note 2 Below**
Brief description of manufacturing process of panel		**See Note 1 Below**

Note 1: The Sponsor was unable to provide this information
Note 2: The Sponsor to the test has confirmed that no flame retardant details were used in the production of this component

3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Newbrel Ltd	WF 399115, 393120, 393121, 393116, 393126	EN ISO 1716
Exova warringtonfire	Newbrel Ltd	WF 398774	EN ISO 1716 Summary Report
Exova warringtonfire	Newbrel Ltd	WF 398493, 398494	EN 13823
Exova warringtonfire	Newbrel Ltd	WF 400363	EN/TS 15117

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA $_{0.2MJ}$	3	35.33, 17.74	Compliant
	FIGRA $_{0.4MJ}$		17.14, 0.00	Compliant
	THR $_{600s}$		1.04, 0.53	Compliant
	LFS		None, None	Compliant
	SMOGRA		3.52, 0.00	Compliant
	TSP_{600s}		31.06, 34.98	Compliant
EN ISO 1716	Coating – PCS (b)	3	0.2868 - 0.2893 MJ/m²	Compliant
	Aluminium/Steel Facing - PCS (a)	Deemed to satisfy (0.000)		Compliant
	Adhesive - PCS (d)	3	1.1923-2.3847 MJ/m²	Compliant
	Insulation - PCS (a)	3	1.2796 MJ/kg	Compliant
	Adhesive - PCS (d)	3	1.1923-2.3847 MJ/m²	Compliant
	Aluminium/ Steel Facing - PCS (a)	Deemed to satisfy (0.000)		Compliant
	Edging - PCS (a)	3	0.0000	Compliant
	For the product as a whole PCS (e)	Summary result	0.0568- 1.0319 MJ/kg	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 products, "Ultraglaze-NC", a family of cladding panels, in relation to their reaction to fire behaviour are 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 applications, 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

4.6 Extended Field of application

This classification is valid for the following end use applications:

i) Construction applications mechanicall installed with a minimum airspace of 40mm

ii) used over any substrate with a density equal to or greater than 700kg/m^3, having a minimum thickness of 20mm and a fire performance of A2 or better (excluding paper faced gypsum plasterboard).

This classification is also valid for the following product parameters:

Insulation thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour/pattern	No variation 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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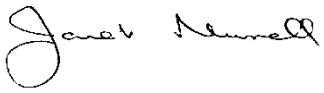
Matthew Dale
Senior Certification Engineer
Technical Department

APPROVED



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Janet Murrell
Technical Manager
Technical Department
on behalf of **Exova warringtonfire**

Issue 2: 29th August 2018, extended field of application. K.Williams