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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:

"Hi-Macs Natural Acrylic Stone"

Report No:

347196

Issue No:

1

Prepared for:

LG Hausys Europe GmbH,
12, Avenue des Morgines,
Petit-Lancy, Switzerland, 1213

Date:

16th January 2015



0249

1. Introduction

This classification report defines the classification assigned to "Hi-Macs Natural Acrylic Stone", a solid surface acrylic sheet, in accordance with the procedures given in EN 13501-1:2007 +A1: 2009

2. Details of classified product

2.1 General

The product, "Hi-Macs Natural Acrylic Stone", a solid surface acrylic sheet is defined as a rigid plastic sheet suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Hi-Macs Natural Acrylic Stone", a solid surface acrylic sheet, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		12 mm 'Hi-Macs' solid surface acrylic sheet adhered to a gypsum fibreboard substrate
Product reference of composite		"Hi-Macs Natural Acrylic Stone"
Name of manufacturer of composite		LG Hausys
Thickness of overall composite		22 mm
Weight per unit area of composite		17.32 kg/m ²
Solid surface acrylic sheet	Generic type	Solid surface acrylic sheet
	Product reference	"Natural Acrylic Stone"
	Name of manufacturer	LG Hausys
	Thickness	12 mm
	Density	1.67 g/cm ³
	Colour reference	Any – See Note 3 below
	Trade name of flame retardant	Aluminium Hydroxide
	Generic type of flame retardant	Inorganic filler
Adhesive	Amount of flame retardant	61%
	Generic type	Silicone
	Product reference	"S 94"
	Name of manufacturer	Otto-Chemie
	Colour reference	"Translucent"
	Thickness	2 mm
	Application method	Stripes
Flame retardant details	See Note 1 below	
Substrate	Curing process	Air curing
	Generic type	Gypsum plasterboard as in EN 13238
Substrate	Thickness	12.5mm
	Brief description of manufacturing process	

Note 1: The sponsor was unable to provide this information.

Note 2: The sponsor was unwilling to provide this information.

Note 3: Colours can be any colour from the standard and sparkle colours; Marmo-type colours named: M103 Bologna; M104 Roma and M105 Verona are excluded from this range.

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	LG Hausys Europe GmbH	WFR 347018	EN ISO 11925-2
Exova Warringtonfire	LG Hausys Europe GmbH	WFR 347017, WFR 347016, WFR 347015	EN 13823
Exova Warringtonfire	LG Hausys Europe GmbH	WFR 347194	EN/TS 15117

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	Figra _{0,2 MJ} (W/s)	3+2	51.0	Compliant
	THR _{600 s} (MJ)		7.25	Compliant
	Smogra (m ² /s ²)		1.5	Compliant
	TSP _{600 s} (m ²)		2.4	Compliant
	LFS (y/n)		No	Compliant
	Flaming droplets (y/n) <10 s (y/n) >10 s (y/n)		nil	Compliant
EN ISO 11925-2 30 s surface exposure	Flame spread (mm) Flaming droplets (y/n)	6	Nil none	Compliant Compliant

30 s edge exposure	Flame spread (mm) Flaming droplets (y/n)	6	nil none	Compliant Compliant
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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, "Hi-Macs Natural Acrylic Stone", a solid surface acrylic sheet, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: B-s1, d0

4.3 Field of application

The tests results are valid for the following end use applications:

- i) Wall or ceiling applications
- ii) Used over any substrate of class A2 (including paper-faced gypsum plasterboard) or better with density of 525 kg/m³ or higher, with a silicone adhesive as described in this report.

This classification is also valid for the following product parameters:

Colour	any colour, any pattern
Product thickness	12 mm
Product composition	No variation allowed

5 Limitations

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

SIGNED

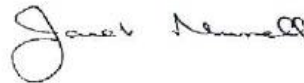


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Frans Paap

Certification Engineer

APPROVED



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on behalf of **Exova warringtonfire**

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