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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:

"SonaSpray K-13, K-13sp,
FC, Ure-K, SonaKrete"

Report No:

WF 390275

Issue No:

1

Prepared for:

International Cellulose
Corporation
12315 Robin Blvd
Houston
Texas, 77045
USA

Date:

10th October 2017



0249

1. Introduction

This classification report defines the classification assigned to “SonaSpray K-13, K-13sp, FC, Ure-K, SonaKrete”, a spray applied thermal acoustical insulation on gypsum board, in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, “SonaSpray K-13, K-13sp, FC, Ure-K, SonaKrete”, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “SonaSpray K-13, K-13sp, FC, Ure-K, SonaKrete”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Spray applied thermal acoustical insulation on gypsum board
Product reference		“SonaSpray K-13, K-13sp, FC. Ure-K, SonaKrete”
Name of manufacturer		International Cellulose Corporation
Thickness		50mm (stated by sponsor) 55mm (determined by Exova Warringtonfire)
Weight per unit area		13.18kg/m ² (2.7lbs/ft ²) (stated by sponsor) 13.73kg/m ² (determined by Exova Warringtonfire)
Insulation	Generic type	Cellulose
	Product reference	“SonaSpray K-13, K-13sp, FC. Ure-K, SonaKrete”
	Name of manufacturer	International Cellulose Corporation
	Colour reference	“Grey” (observed by Exova Warringtonfire)
	Thickness	34mm
	Density	56.0 - 64.0kg/m ³ (3.5 - 4lbs/ft ³)
	Flame retardant details	See Note 1 below
Adhesive	Generic type	See Note 1 below
	Product reference	See Note 1 below
	Name of manufacturer	International Cellulose Corporation
	Colour reference	“White”
	Application rate	0.046 per pound of fibre
	Application method	Spray
	Flame retardant details	See Note 2 below
Curing process	See Note 3 below	

Continued on next page

Substrate	Generic type	Gypsum board
	Product reference	No specific product reference
	Name of manufacturer	United States Gypsum
	Thickness	16mm
	Weight per unit area	10.74kg/m ² (2.2lbs/ft ²)
	Flame retardant details	See Note 2 below
Brief description of manufacturing process		See Note 3 below

Note 1: The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

Note 2: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Note 3: The sponsor was unwilling to provide this information.

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	International Cellulose Corporation	WF 389286	EN ISO 11925-2
		WF 389285	EN 13823

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F _s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge)	F _s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	FIGRA _{0.2MJ}	3	46.06	Compliant
	FIGRA _{0.4MJ}		34.19	Compliant
	THR _{600s}		3.16	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP _{600s}		36.57	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 product, "SonaSpray K-13, K-13sp, FC. Ure-K, SonaKrete", a spray applied thermal acoustical insulation on gypsum board, in relation to its reaction to fire behaviour is classified:

B

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	
B	-	s	1	,	d	0

i.e. **B – s1 , d0**

Reaction to fire classification: B – s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications used over any substrate with a weight per unit area equal to or greater than 10.74kg/m² (2.2lbs/ft²), having a minimum thickness of 16mm and a fire performance of A2 or better.

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	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



.....
Jennifer Lucas-Cox
Certification Engineer
Technical Department

APPROVED



.....
Matthew Dale
Senior Certification Engineer
Technical Department
on behalf of **Exova warringtonfire**

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