

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Classification no.	2020-Efectis-R000414
Sponsor	Intumescent Systems Ltd Envirograf House Barfrestone CT15 7JG DOVER UNITED KINGDOM
Product name	Plasterboard covered with wallpaper treated with 321
Prepared by	Intumescent Systems Ltd
Notified body no.	1234
Author(s)	R.J.Y. Staal B.Sc. A.J. Lock
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1. INTRODUCTION

This classification report defines the classification assigned to **Plasterboard covered with wallpaper treated with 321** in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Plasterboard covered with wallpaper treated with 321**, is defined as an intumescent material.

2.2 MANUFACTURER

Intumescent Systems Ltd
Envirograf House
Barfrestone
CT15 7JG DOVER
UNITED KINGDOM

2.3 PRODUCT DESCRIPTION

Product description:

- Plasterboard, 15 mm;
- Wallpaper adhered with Polyseal wallpaper paste;
- 2 coats of 321 at 12m² per litre.

3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2010/C1:2011	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2010 + A1:2014	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests
ETAG 028:2012	Guideline for European Technical Approval of Fire Retardant Products

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Intumescent Systems Ltd Envirograf House UNITED KINGDOM	2020-Efectis-R000403 2020-Efectis-R000368	EN ISO 11925-2:2010 /C1:2011 EN 13823:2010 + A1:2014

3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
surface flame impingement	Fs ≤150 mm	6	60	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	65	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
	FIGRA _{0.2MJ} [W/s]	3	224	-
	FIGRA _{0.4MJ} [W/s]		97	-
	THR _{600s} [MJ]		1.4	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		36.8	-
	TSP _{600s} [m ²]		61	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant

3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products			
Classification criteria			
Class	B	C	D
Test method(s)			
EN ISO 11925-2 Exposure = 30 s	F _s ≤ 150 mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	FIGRA _{0,2 MJ} ≤ 120 W/s LFS < edge of specimen THR _{600s} ≤ 7.5 MJ	FIGRA _{0,4 MJ} ≤ 250 W/s LFS < edge of specimen THR _{600s} ≤ 15 MJ	FIGRA _{0,4 MJ} ≤ 750 W/s
Additional classification			
Smoke production	s1 = SMOGRA ≤ 30 m ² /s ² and TSP _{600s} ≤ 50 m ² ; s2 = SMOGRA ≤ 180 m ² /s ² and TSP _{600s} ≤ 200 m ² ; s3 = not s1 or s2		
Flaming Droplets/particles	d0 = no flaming droplets/ particles in EN 13823 within 600 s; d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; d2 = not d0 or d1.		

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

4.2 CLASSIFICATION

The product, **Plasterboard covered with wallpaper treated with 321**, in relation to its reaction to fire behaviour is classified:

C

The additional classification in relation to smoke production is:

S2

The additional classification in relation to flaming droplets / particles is:

d0

Reaction to fire classification: C – s2, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	15 mm
Surface density	13 kg/m ²

This classification is valid for the following end use applications:

Substrate	Not applicable
Application	Fire retardant paint
Air gap	None
Methods and means of fixing	Painted
Joints	Horizontal and vertical
Other aspects of end use conditions	Closed surface, no openings or gaps between components

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

There are no limitations in time on the validity of this report.

5. LIMITATIONS

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



R.J.Y. Staal B.Sc.
Project leader reaction to fire



A.J. Lock
Project leader reaction to fire