

**CLASSIFICATION OF REACTION TO FIRE PERFORMANCE
IN ACCORDANCE WITH EN 13501-1:2007+A1:2009**

Classification no.	2016-Efectis-R000219
Sponsor	Intumescent Systems Ltd Envirograf House Barfrestone CT15 7JG DOVER UNITED KINGDOM
Product name	Softwood Spruce with Envirograf coating system, product 92 ES/VFR and top coating Sherwin/Williams ED1143 LAQVA
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1. INTRODUCTION

This classification report defines the classification assigned to **softwood Spruce with Envirograf coating system, product 92 ES/VFR and top coating Sherwin/Williams ED1143 LAQVA** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **softwood Spruce with Envirograf coating system, product 92 ES/VFR and top coating Sherwin/Williams ED1143 LAQVA** is defined as a wall covering.

2.2 MANUFACTURER

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

2.3 PRODUCT DESCRIPTION

Softwood Spruce (tongue and groove planks) fire retardant treated with a Envirograf coating system

Two coats of product 92 ES/VFR, 12 m² per liter

One top coat of Sherwin/Williams ED 1143 LAQVA, 10 m² per liter

The tongue and groove planks will be mounted on a supporting construction of pine wood timber with a minimum density of 450 kg/m³.

The product has a total thickness of 25 mm, a density of approx. 600 kg/m³ and a mass per unit area of approximately 13.0 kg/m².

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN 14915 Solid wood panelling and cladding - Characteristics, evaluation of conformity and marking

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Intumescent Systems Ltd UNITED KINGDOM	2016-Efectis-R000217 2016-Efectis-R000218	EN ISO 11925-2:2010 EN 13823:2014

3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
EN ISO 11925-2				
surface flame impingement	$F_s \leq 150$ mm	6	40	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	$F_s \leq 150$ mm	6	26	-
	Ignition of filter paper		-	Compliant
EN 13823				
25 mm	FIGRA _{0,2MJ} [W/s]	3	8	-
	FIGRA _{0,4MJ} [W/s]		8	-
	THR _{600s} [MJ]		1.1	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		1.3	-
	TSP _{600s} [m ²]		19	-
	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	$F_s \leq 150$ 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 13501-1:2007+A1:2009.

4.2 CLASSIFICATION

The product, **Softwood Spruce with Envirograf coating system, product 92 ES/VFR and top coating Sherwin/Williams ED1143 LAQVA** 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

Reaction to fire classification: B - s1, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	25 mm
Surface density	13.1 kg/m ²
Other properties	Softwood Spruce with a density of 600 kg/m ³ Supporting construction of Pine wood timber with a minimum density of 450 kg/m ³

This classification is valid for the following end use applications:

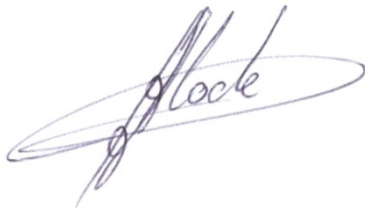
Substrate	Not applicable
Application	As wall covering
Air gap	yes
Methods and means of fixing	Mechanically
Joints	Horizontal and vertical
Other aspects of end use conditions	Closed surface, no openings or gaps between components

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

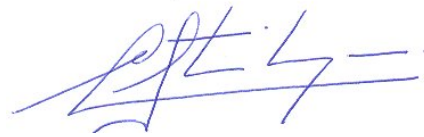
There are no limitations in time on the validity of this report.

5. LIMITATIONS

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



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