

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

Classification no.	2018-Efectis-R000282[Rev.1]
Sponsor	Scandinavian Trading Limited 2 Glen Court Canada Road Byfleet Surrey KT14 7JL UNITED KINGDOM
Product name	Nordic QVFR
Prepared by	Efectis Nederland BV
Notified body no.	1234
Author(s)	A.J. Lock C.C.M. Steinhage B.Sc.
Project numbers	ENL-17-001295, ENL-18-000132 and ENL-18-000238
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Number of pages	5

1. INTRODUCTION

1.1 PRODUCT NAME

This classification report defines the classification assigned to **Nordic QVFR** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

1.2 REVISION INFORMATION

The product name is modified, a different notation of the density is used and an addition of the type of substrate.

Original date of issue:

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Nordic QVFR**, is defined as a flame retardant coating for wood substrates.

2.2 MANUFACTURER

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

2.3 PRODUCT DESCRIPTION

Product description: Nordic QVFR applied on OSB board

- OSB board, thickness 18 mm;
- Coated with Nordic QVFR Clear Intumescent Coating (2 coat system);
 - No.1 coat: 1 coat a 12 m² per litre;
 - No 2 coat: 1 coat a 12 m² per litre (finish coat).

The product has a total thickness of 19 mm and a density of 600-680 kg/m³.

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2010	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 13501-1:2007 +A1:2009	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests

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	2018-Efectis-R000152 2018-Efectis-R000153	EN ISO 11925-2:2010 EN 13823:2014

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	F _s ≤ 150 mm	6	35	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	F _s ≤ 150 mm	6	30	-
	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	35	-
	FIGRA _{0.4MJ} [W/s]		35	-
	THR _{600s} [MJ]		4.6	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		0.0	-
	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 ≤ 150 mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	FIGRA _{0.2MJ} ≤ 120 W/s LFS < edge of specimen	FIGRA _{0.4MJ} ≤ 250 W/s LFS < edge of specimen THR _{600s} ≤ 15 MJ	FIGRA _{0.4MJ} ≤ 750 W/s

	THR _{600s} ≤ 7.5 MJ		
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, **Nordic QVFR applied on OSB 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

Reaction to fire classification: B – s1, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness OSB Board	18 mm
Density	600-680 kg/m ³
Other properties	2 coating system: <ul style="list-style-type: none">- No.1 coat: 1 coat a 12 m² per litre;- No 2 coat: 1 coat a 12 m² per litre (finish coat).

This classification is valid for the following end use applications:

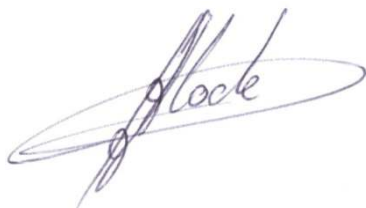
Substrate	OSB wood substrates of same density or higher
Application	Wall panel
Air gap	None
Methods and means of fixing	Paint
Joints	Yes
Other aspects of end use conditions	Closed surface, no openings or gaps between components

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.



A.J. Lock
Project leader reaction to fire



C.C.M. Steinhage B.Sc.
Project leader reaction to fire