

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

Classification no.	2022-Efectis-R000894
Sponsor	Nederlandse Branchevereniging voor de Timmerindustrie Sectie Trappen Westeinde 10 1334 BK ALMERE THE NETHERLANDS
Product name	Spruce wood with a white primer
Prepared by	Efectis Nederland BV
Author(s)	G. van der Lee M.Sc. A.J. Lock
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1. INTRODUCTION

This classification report defines the classification assigned to **spruce wood with a white primer** in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **spruce wood with a white primer**, will be used as the vertical parts (risers) of a staircase construction.

2.2 MANUFACTURER

Nederlandse Branchevereniging voor de Timmerindustrie
Sectie Trappen
Westeinde 10
1334 BK ALMERE
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of spruce wood (*Picea abies*).

The tested panels are:

- 37.6 ± 0.4 mm and have a density from 400 kg/m³ to 500 kg/m³;
- Not impregnated;
- Coated with a white primer of reference with Ankocryl Basispaint for stairs S HB, usage 60 µm to 90 µm.

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2020	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	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	Nederlandse Branchevereniging voor de Timmerindustrie THE NETHERLANDS	2022-Efectis-R000652 2022-Efectis-R000769	EN ISO 11925-2:2020 EN 13823:2020

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	80	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	60	-
	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	565	-
	FIGRA _{0.4MJ} [W/s]		565	-
	THR _{600s} [MJ]		12.5	-
	LFS < edge		-	Compliant
	SMOGRA [m²/s²]		2.3	-
	TSP _{600s} [m²]		39	-
	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 Test method(s)	B	C	D
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, **spruce wood with a white primer**, in relation to its reaction to fire behaviour is classified:

D

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: D – s1, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	37.6 ± 0.4 mm
Surface density	From 15.04 kg/m ² to 18.8 kg/m ²
Coating	Coated with a white primer of reference with Ankocryl Basispaint
Coating usage	60 µm to 90 µm

This classification is valid for the following end use applications:

Substrate	Not applicable
Application	as the vertical part (riser) of a staircase construction
Joints	None
Other aspects of end use conditions	Used in combination with horizontal element to form a staircase

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.

5. LIMITATIONS

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



G. van der Lee M.Sc.
Project leader Reaction to Fire



A.J. Lock
Manager Testing Reaction to Fire