

Reaction to fire testing of Spruce wood with a white primer Ignitability test according to EN ISO 11925-2

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1. PRODUCT IDENTIFICATION

Spruce wood with a white primer, further referred to as ‘the product’.

2. ABSTRACT

Determination of the **ignitability** properties of the product, by **direct small flame impingement** according to EN ISO 11925-2, with the objective to obtain the reaction to fire classification according to EN 13501-1.

3. DETAILS OF THE PRODUCT TESTED

3.1 INTENDED APPLICATION

The product will be used as part of a staircase construction.

3.2 MANUFACTURER

Nederlandse Branchevereniging voor de Timmerindustrie
Westeinde 10
1334 BK ALMERE
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3.3 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.

4. DETAILS OF THE EXAMINATION

4.1 SAMPLES

Sampling procedure	The specimens were submitted and prepared and submitted by the sponsor.
Age	At the time of receipt: no information received.
Date of receipt	March 23 rd 2022

4.2 SPECIMEN PREPARATION

Substrate used	Not applicable
Method of fixing	Not applicable

4.3 CONDITIONING

Prior to the examinations, the specimens were conditioned over a period of two weeks minimum at a temperature of (23 ± 2) °C and a relative humidity of (50 ± 5) % according to § 4.1 of EN 13238.

4.4 EXAMINATION

Number of tests	A total of twelve single ignitability tests were carried out according to EN ISO 11925-2.
Deviations from the test method	None
Harmonised Product Standard	At the time of examination of the product, the sponsor was not aware of a related existing Harmonised Product Standard.
Date of examination	May 10 th 2022
Location of examination	Efectis Nederland BV, Bleiswijk, The Netherlands
Performed by	LEG

The results are given in Table 1, Appendix: Results.

5. CONCLUSIONS

A formal classification is to be assessed in accordance with EN 13501-1, "Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests".

Remarks:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Regarding the precision of the test method, following Annex B of EN ISO 11925-2, the absolute repeatability/reproducibility for this test method is estimated to lie within 3 s to 5 s for all times measured.



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Project leader Reaction to Fire



A.J. Lock
Manager Testing Reaction to Fire

APPENDIX: RESULTS

Table 1: Ignitability classification parameter results

Flame application time: 30 s					
Sample	Ignition of sample	Maximum flame Height	t ₁₅₀	Afterburning time	Ignition of filter paper
	{Y=Yes/N=No}	[mm]	[s]	[s]	{Y=Yes/N=No}
Surface ignition					
1	Y	70	not reached	10	N
2	Y	80		15	N
3	Y	75		7	N
4	Y	70		15	N
5	Y	80		7	N
6	Y	70		10	N
Maximum	Y	80			
Classification parameters		150 mm reached within 60 s			N
		Ignition of filter paper			N
Edge ignition					
1	Y	60	not reached	15	N
2	Y	40		5	N
3	Y	50		5	N
4	Y	40		> 30	N
5	Y	35		30	N
6	Y	40		15	N
Maximum		60			
Classification parameters		150 mm reached within 60 s			N
		Ignition of filter paper			N

Observations of physical behaviour of the test specimen: None.