



AB 088



IGNITABILITY TESTING SECTION

Poznań, 30th September 2020

TEST REPORT No. 2994/2020/S.K

English version of the Test Report No A2994/2020/S.B issued on 29.12.2021

Subject of the order: Tests of reaction to fire and classification in the scope of reaction to fire of solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet



Order No.: A-2994-POŚ/2020

Name and address of the client/manufacturer producer:

Przedsiębiorstwo Dyzewne „JAWOR”
ul. Grunwaldzka 87
13-300 Nowe Miasto Lubawskie

Performance date: 9th September – 28th September 2020

Operators

First name and surname	Signature
specialist Mirosława Radlicka	
specialist Urszula Matejska	

Laboratory stamp

Authorised representative
Jacek Pawłowski, M.Sc.



1. IDENTIFICATION (DESCRIPTION OF TEST SAMPLES)

According to the Customer's declaration the subject of the tests was a sample of an oak parquet of a two-layer structure with dimensions of 11x70x490 mm. The top layer made of oak wood, 3.6 mm thick, was hybrid coated with oil-wax and Jawor-Parkiet varnish. The bottom part, increasing the resistance to deformation, stabilizing and facilitating assembly, made of pine wood.

Before testing, the parquet was glued to the substrate. A standard substrate was used in the test: a fiber-cement board with a thickness of 8 mm and a polyurethane-silane one-component, solvent-free, flexible hybrid adhesive for wooden floors J-P Bond Elastic produced by Jawor -Parkiet.

2. DELIVERY DATE OF TESTED SUBJECT

Samples for tests taken by the Customer were delivered to the Lukaszewicz Research Network - Wood Technology Institute on 9th September 2020.

3. SYMBOLS AND NAMES OF TEST METHODS APPLIED

Tests were carried out based on the standardized methods according to:

- PN-EN ISO 9239-1:2010 [EN ISO 9239-1:2010] – REACTION TO FIRE TESTS FOR FLOORINGS – PART 1: DETERMINATION OF THE BURNING BEHAVIOUR USING A RADIANT HEAT SOURCE (Method 6K)
- PN-EN ISO 11925-2:2010 [EN ISO 11925-2:2010] – REACTION TO FIRE TESTS – IGNITABILITY OF BUILDING PRODUCTS SUBJECTED TO DIRECT IMPINGEMENT OF FLAME – PART 2: SINGLE-FLAME SOURCE TEST (Method 7K)

4. LIST OF MEASURING AND TEST EQUIPMENT

The following equipment was used for the tests:

- Test stand for determination of flame spreading on floorings acc. to PN-EN ISO 9239-1:2010 [EN ISO 9239-1:2010] (identification number K4)
- Test stand for determination of ignitability of products subjected to direct impingement of small flame acc. to PN-EN ISO 11925-2:2010 [EN ISO 11925-2:2010] (identification number K6)

5. TEST RESULTS

The detailed results of tests are presented in the records no. 1/2994/2020/S.K and 2/2994/2020/S.K.

6. STATEMENT

The results of tests relate only to the behaviour of samples of the products tested under particular test conditions; the results cannot be the sole criterion for assessment of potential fire hazard of the used products.

The test report cannot be copied in parts, but only in its entirety.

RECORD No. 1/2994/2020/S.K
RESULTS OF TEST OF FLAME SPREADING ON FLOORINGS
acc. to PN-EN ISO 9239-1:2010 [EN ISO 9239-1:2010]

Order no.: A-2994-POS/2020 **Date of testing:** 28th September 2020
Product type: solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet
Producer: Przedsiębiorstwo Drzewne „JAWOR” ul. Grunwaldzka 87 13-300 Nowe Miasto Lubawskie
Client: Przedsiębiorstwo Drzewne „JAWOR” ul. Grunwaldzka 87 13-300 Nowe Miasto Lubawskie
Sample name: solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet
Identification number of the sample: A-2994-POS/2020

Conditioning: Samples for testing were conditioned acc. to EN 13238:2010 standard (temperature 23±2°C, relative humidity 50±5%), time: from 9th to 28th September.

Detailed test results

No.	Time at which the flame front passed through the zones [s]										Time at which a flame went out [s]	Attenuation of the light flux		Range of the flame front [mm]	CHF value [kW/m ²]		
	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	450 Mm	500 Mm		Max. [%]	Total [%·min]				
1*	131	131	175	296	384	497	668	884	1147	1502	-	-	>1800	0.0	0.0	421	4.96
2**	150	150	193	284	438	560	752	936	1232	-	-	-	1534	0.0	0.0	382	5.71
3*	133	133	216	307	372	448	554	708	886	1214	-	-	>1800	0.0	0.0	433	4.78
4*	133	133	236	332	428	559	732	934	1220	-	-	-	1641	0.0	0.0	411	5.11
Mean value of samples no. 2, 3, 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4.95
Standard deviation of the mean	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0.17
Coefficient of variation [%]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3.5

Extended uncertainty of the measurement at the level of confidence of approx. 95% and coefficient $k = 2$ **4.95 ± 0.34**

*sample cut out parallel to the fibres **sample cut out perpendicularly to the fibres; The better result (sample No. 2) was rejected, and the remaining two samples of the product cut out parallel to the fibres were tested.

Range of the flame	Sample			
	1	2	3	4
after 10 minutes/mm	225	210	260	210
after 20 minutes/mm	355	350	400	350

Observations: After the pilot burner was turned off, the surface of the sample was burning from the flame front to the edge of the sample mounting frame.

Comments:

Carried out by: Mirosława Radlicka **Poznań, 28th September 2020**
 Urszula Matecka
Verified by: Mirosława Radlicka

RECORD No. 2/2994/2020/S.K
RESULTS OF TEST OF PRODUCT SUBJECTED
TO DIRECT IMPINGEMENT OF FLAME
acc. to PN-EN ISO 11925-2:2010 [EN ISO 11925-2:2020]

Order no.: A-2994-POŚ/2020 **Date of testing:** 28th September 2020
Product type: solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet
Producer: Przedsiębiorstwo Drzewne „JAWOR” ul. Grunwaldzka 87 13-300 Nowe Miasto Lubawskie
Client: Przedsiębiorstwo Drzewne „JAWOR” ul. Grunwaldzka 87 13-300 Nowe Miasto Lubawskie
Sample name: solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet
Identification number of the sample: A-2994-POŚ/2020

Conditioning: Samples for testing were conditioned acc. to EN 13238:2010 standard (temperature 23±2°C, relative humidity 50±5%), time: from 9th to 28th September.

Exposition: surface exposition

Time of flame impingement: 15 s

Detailed test results

Parameter	Sample number						Mean value
	1*	2*	3*	4**	5**	6**	
Ignition occurrence (Yes/No)	No	No	No	No	No	No	-
Reaching the distance of 150 mm by the flame front (Yes/No)	No	No	No	No	No	No	-
Time after which the flame reached the distance of 150 mm (s)	-	-	-	-	-	-	-
Falling of burning drops (Yes/No)	No	No	No	No	No	No	-
Ignition of filter paper (Yes/No)	No	No	No	No	No	No	-
Range of the flame influence (mm)	35	32	32	34	35	34	33.7

*sample cut out parallel to the fibres

**sample cut out perpendicularly to the fibres

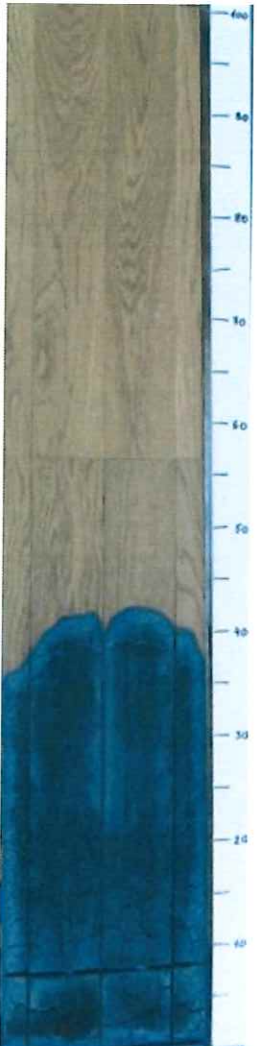
Observations: none

Comments: none

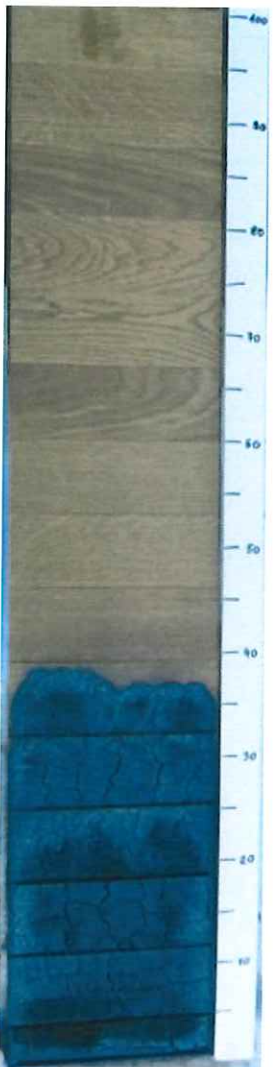
Carried out by: Mirosława Radlicka
Verified by: Mirosława Radlicka

Poznań, 28th September 2020

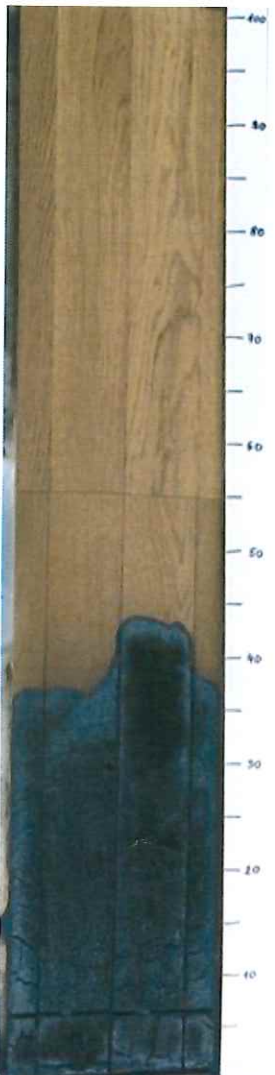
**PHOTOGRAPHS OF THE SAMPLES AFTER TESTS OF FLAME SPREADING
ON FLOORINGS acc. to PN-EN ISO 9239-1:2010 [EN ISO 9239-1:2010]**



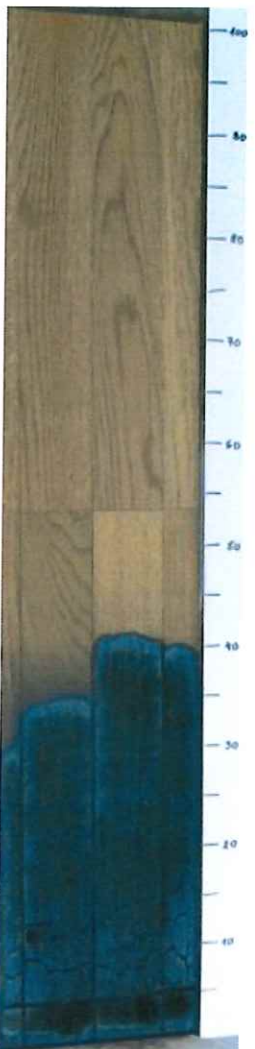
Sample No.1



Sample No.2



Sample No.3



Sample No.4

END OF THE TEST REPORT



ŁUKASIEWICZ RESEARCH NETWORK – WOOD TECHNOLOGY INSTITUTE

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Poznań, 30th September 2020

Reaction to fire classification report

English version of the Reaction to fire classification report No. 4/2020 issued on 29.12.2021

1. Introduction

This classification report defines the classification assigned to of solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet in accordance with the procedures given in PN-EN 13501-1+A1:2010.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH PN-EN 13501-1:2019-02

Sponsor:
Przedsiębiorstwo Dizewne „JAWOR”
ul. Grunwaldzka 87
13-300 Nowe Miasto Lubawskie

Prepared by:
Łukasiewicz Research Network - Wood Technology Institute
(Sieć Badawcza Łukasiewicz - Instytut Technologii Drewna)
ul. Winiarska 1
60-654 Poznań
Poland

Notified Body No.: 1583

Product name: solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet

Classification report No.: 4/2020

Issue number: 1

Date of issue: 30th September 2020

This classification report consists of four pages and may only be used or reproduced in its entirety

2. Details of classified product**2.1 General**

The product, solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet.

2.2 Product description

According to the Customer's declaration the subject of the tests was a sample of an oak parquet of a two-layer structure with dimensions of 11x70x490 mm. The top layer made of oak wood, 3.6 mm thick, was hybrid coated with oil-wax and Jawor-Parkiet varnish. The bottom part, increasing the resistance to deformation, stabilizing and facilitating assembly, made of pine wood.
Before testing, the parquet was glued to the substrate. A standard substrate was used in the test: a fiber-cement board with a thickness of 8 mm and a polyurethane-silane one-component, solvent-free, flexible hybrid adhesive for wooden floors J-P Bond Elastic produced by Jawor -Parkiet.

3. Reports and results in support of this classification**3.1 Reports**

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
Wood, Wood-Based Materials, Packaging, Furniture, Wooden Constructions and Woodworking Machines Testing Laboratory of Wood Technology Institute in Poznań	Przedsiębiorstwo Drzewne "JAWOR" ul. Grunwaldzka 87 13-300 Nowe Miasto Lubawskie Poland	2994/2020/S.K record no. 1/2994/2020/S.K	EN ISO 9239-1 (radiant heat source method) 28 th September 2020 direct application
Wood, Wood-Based Materials, Packaging, Furniture, Wooden Constructions and Woodworking Machines Testing Laboratory of Wood Technology Institute in Poznań	Przedsiębiorstwo Drzewne "JAWOR" ul. Grunwaldzka 87 13-300 Nowe Miasto Lubawskie Poland	2994/2020/S.K record no. 2/2994/2020/S.K	EN ISO 11925-2 (direct impingement of single flame method) 28 th September 2020 direct application

3.2 Results

Test method and test number	Parameter	No. Tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN ISO 9239-1 (radiant heat source method) A-2994-BOS/2020/6K	Critical heat flux (kW/m ²)	3	4.95	(-)
	Smoke production (%·min)		0	(-)
EN ISO 11925-2 (direct impingement of single flame method) Surface exposition Exposure time: 15 s A-2994-BOS/2020/7K	The flame spread $F_s \leq 150$ mm within 20 s from the time of application	6	(-)	YES

(-):not applicable

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with PN-EN 13501-1+A1:2010.

4.2 Classification

The product, solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet, in relation to its reaction to fire behaviour is classified:

C_{fl}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire behavior	Smoke production	
C _{fl}	-	S 1

ie.: **C_{fl}-s1**

Reaction to fire classification: C_{fl}-s1

4.3 Field of application

This classification is valid for the following product parameters:

- solid oak parquet with hybrid surface (oil-wax and varnish) Jawor-Parkiet
- substrate on a mineral foundation
(Test report no. 2994/2020/S.K of 28th September 2020)

This classification is valid for the following end use applications:

- The product used on floorings or bases of reaction to fire classes A1 or A2-s1,d0.

5 Limitations

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

This document is valid provided that neither the composition nor production technology of the product are changed, but not longer than until **30th September 2025**.

SIGNED AND APPROVED



Mariusz Józwiak

Date: 30th September 2020