



# INSTYTUT TECHNOLOGII DREWNA

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Notified Body N° 1583



AB 088



## WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE, WOODEN CONSTRUCTIONS AND WORKING MACHINES TESTING LABORATORY

IGNITABILITY TESTING SECTION

Poznań, 22<sup>nd</sup> June 2018

### TEST REPORT No. 1537/2018/S.K

**Subject of the order:** Reaction to fire tests and the determination of fire reaction class of laminated floor panels

**Order No.:** A-1537-BOŚ/2018

**Name and address of the client/manufacturer** CCWPD – ITD

**producer:** Korostenskii MDF plant  
Yaroslavov Val str. 38  
01034 Ukraine Kiev

**Performance date:** 16<sup>th</sup> May – 22<sup>nd</sup> June 2018

**Operators:**

First name and surname	Signature
Hanna Wróblewska, PhD	
Specialist Mirosława Radlicka	
Specialist Urszula Matelska	

Laboratory stamp

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Authorised representative

KIEROWNIK  
Sekcji Badań Palności  
  
dr Hanna Wróblewska, prof. ITD

## 1. IDENTIFICATION (DESCRIPTION OF TEST SAMPLES)

The subject of tests were laminated floor panels – Elegant - on the base of HDF board. The dimension of floor panels was 1380 x 191 mm and thickness was 10 mm.

Identification number: A-1537-BOŚ/2018.

## 2. DELIVERY DATE OF TESTED SUBJECT

Samples for tests taken by the client/producer were delivered to the Wood Technology Institute Section K on 16<sup>th</sup> May 2018.

## 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/AC:2011] – 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/AC:2011] (identification number K6)
- Electronic scales Sartorius LC 2200 S (identification number K1/11)
- Digital caliper Baker SD-10 150 mm (identification number M3/14)

## 5. TEST RESULTS

The detailed results of tests are presented in the record no. 1/1537/2018/S.K and 2/1537/2018/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. 1/1537/2018/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-1537-BOS/2018 **Date of testing:** 20<sup>th</sup> June 2018  
**Product type:** laminated floor panels – Elegant - on the base of HDF board.  
**Client:** CCWPD-ITD  
**Producer:** Korostenskii MDF plant, Yaroslavov Val str. 38, 01034 Ukraine Kiev  
**Sample name:** laminated floor panels with a thickness of 10 mm  
**Identification number of the sample:** A-1537-BOS/2018

**Conditioning:** Samples for testing were conditioned to the constant mass acc. to EN 13238 standard (temperature 23±2°C, relative humidity 50±5%, time: from 17.05.-20.06.2018).

The temperature resistance of TM Rezzult flooring is 0.03 m<sup>2</sup>K / W, which meets the requirements of CE 0.15 m<sup>2</sup>K / W.

**Detailed test results**

No.	Ignition time [s]	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 <sup>2</sup> ]
		50 mm	100 mm	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	450 mm	500 mm		Max. [%]	Total [%·min]		
1*	185	550	839	1081	1421	-	-	-	-	-	-	>1800	0.75	1.19	253	8.26
2**	371	729	914	1095	1423	1778	-	-	-	-	-	>1800	0.27	0.14	270	7.87
3**	273	660	803	1075	1352	1730	-	-	-	-	-	>1800	1.37	2.60	265	7.98
4**	325	712	832	1044	1343	1708	-	-	-	-	-	>1800	0.39	0.32	268	7.91
Average of 2, 3, 4		x	x	x	x	x	x	x	x	x	x	x	x	1.02	x	<b>7.92</b>
Standard deviation of the mean		x	x	x	x	x	x	x	x	x	x	x	x	1.37	x	0.06
Coefficient of variation [%]		x	x	x	x	x	x	x	x	x	x	x	x	134.3	x	0.76

Extended uncertainty of the measurement at the level of confidence of approx. 95% and coefficient  $k = 2$  **7.92 ± 0.12**

\*sample cut out parallel to the direction of manufacture (longitudinal sample)

\*\*sample cut out perpendicularly to the direction of manufacture (transversal sample)

Range of the flame	Sample			
	1	2	3	4
after 10 minutes	55 mm	40 mm	45 mm	37 mm
after 20 minutes	157 mm	170 mm	175 mm	185 mm

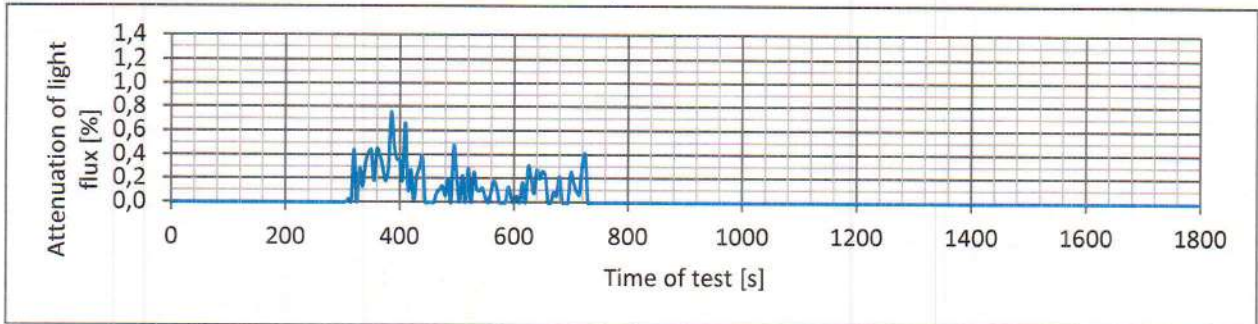
**Observations:** none

**Comments:** none

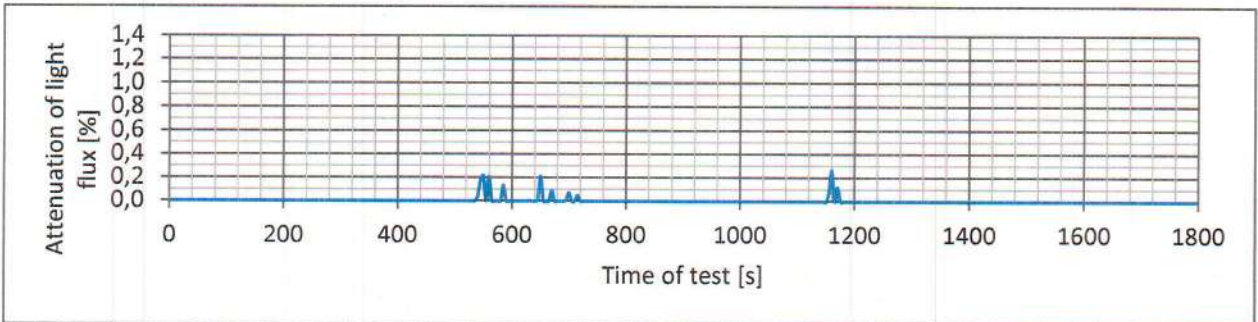
**Carried out by:** Mirosława Radlicka *M. Radlicka*  
 Urszula Matelska *U. Matelska* Poznań, 20<sup>th</sup> June 2018  
**Verified by:** Hanna Wróblewska *H. Wróblewska*

**GRAPHS OF THE LIGHT ATTENUATION OVER TIME OF TEST OF FLAME SPREADING ON FLOORINGS acc. to PN-EN ISO 9239-1:2010 [EN ISO 9239-1:2010]**

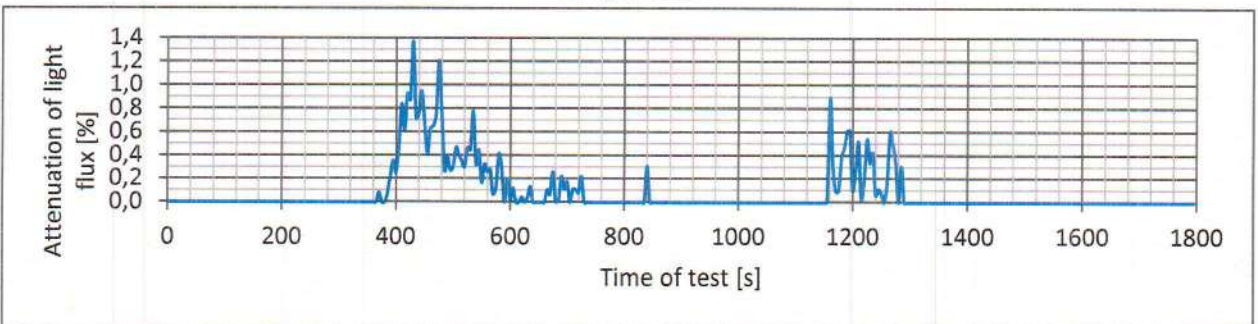
Sample No. 1



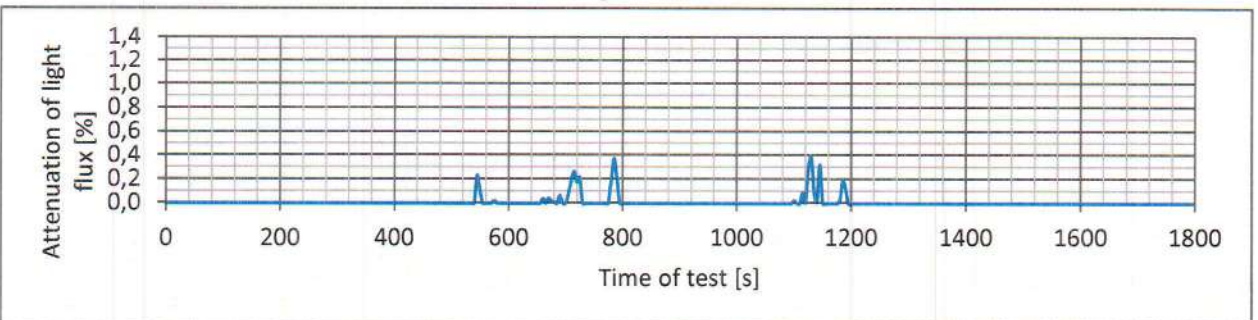
Sample No. 2



Sample No. 3



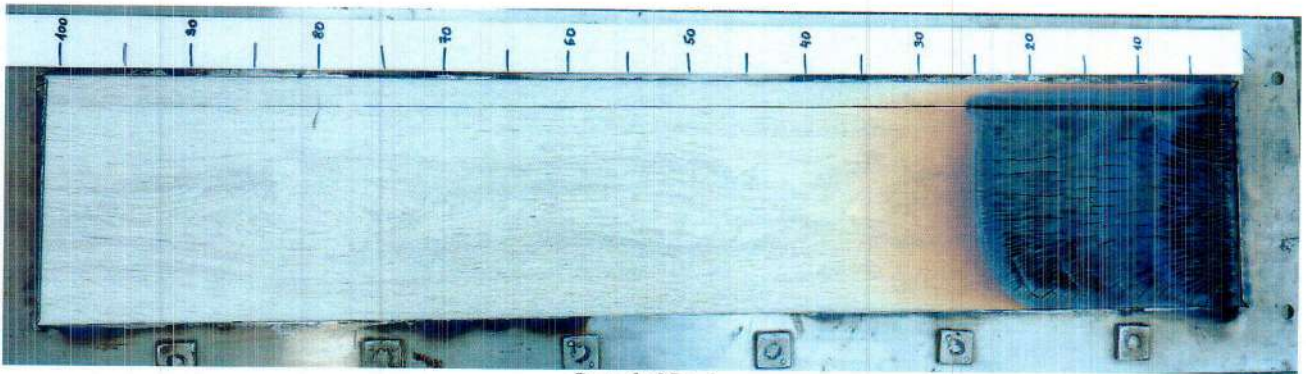
Sample No. 4



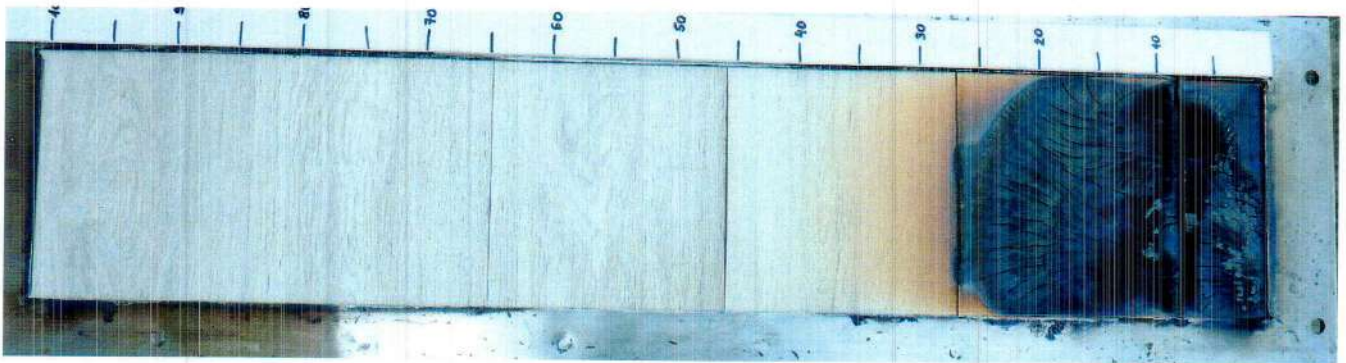
**RECORD No. 2/1537/2018/S.K**  
**RESULTS OF TEST OF PRODUCT SUBJECTED**  
**TO DIRECT IMPINGEMENT OF FLAME**  
**acc. to PN-EN ISO 11925-2:2010 [EN ISO 11925-2:2010/AC:2011]**

<b>Order no.:</b> A-1537-BOŚ/2018		<b>Date of testing:</b> 19 <sup>th</sup> June 2018					
<b>Product type:</b> laminated floor panels – Elegant - on the base of HDF board.							
<b>Client:</b> CCWPD-ITD							
<b>Producer:</b> Korostenskii MDF plant, Yaroslavov Val str. 38, 01034 Ukraine Kiev							
<b>Sample name:</b> laminated floor panels with a thickness of 10 mm							
<b>Identification number of the sample:</b> A-1537-BOŚ/2018							
<b>Conditioning:</b> Samples for testing were conditioned to the constant mass acc. to EN 13238 standard (temperature 23±2°C, relative humidity 50±5%, time: from 17.05.-19.06.2018).							
<b>Exposition:</b> surface exposition							
<b>Time of flame impingement:</b> 15 s							
<b>Detailed test results</b>							
Parameter	Sample number						Average 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)	0	0	0	0	0	0	0
*sample cut out parallel to the direction of manufacture (longitudinal sample)							
**sample cut out perpendicularly to the direction of manufacture (transversal sample)							
<b>Observations:</b> none							
<b>Comments:</b> none							
<b>Carried out by:</b> Mirosława Radlicka		<i>M. Radlicka</i>				Poznań, 19 <sup>th</sup> June 2018	
Urszula Matelska		<i>U. Matelska</i>					
<b>Verified by:</b> Hanna Wróblewska		<i>H. Wróblewska</i>					

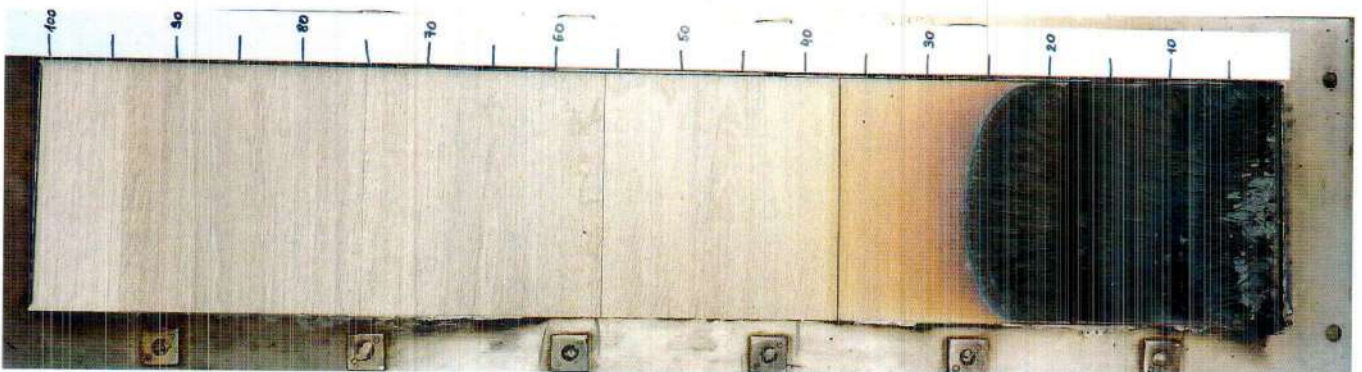
**PHOTOGRAPHS OF THE SAMPLES AFTER TESTS OF FLAME SPREADING  
ON FLOORINGS acc. to PN-EN ISO 9239-1:2010 [EN ISO 9239-1:2010]**



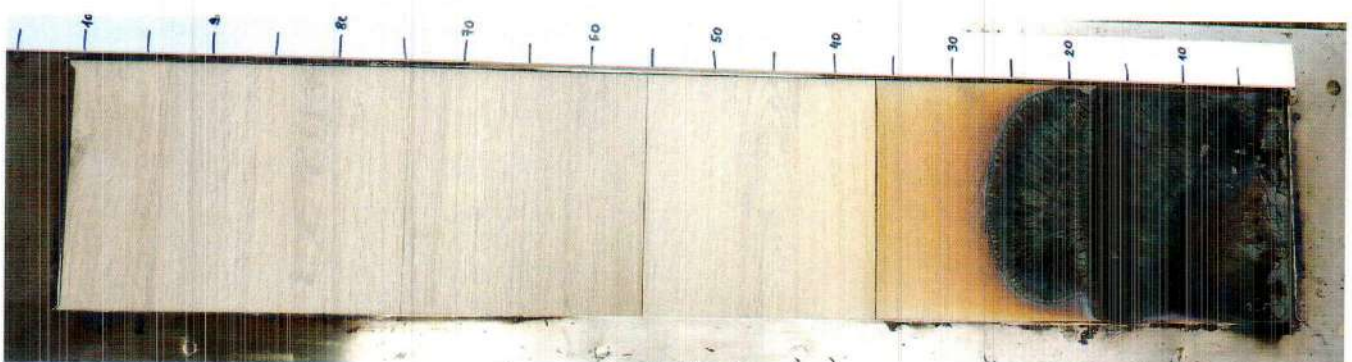
Sample No. 1



Sample No. 2



Sample No. 3



Sample No. 4

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END OF THE TEST REPORT