



FIRE AND RESCUE DEPARTMENT UNDER THE MINISTRY OF  
INTERIOR

**FIRE RESEARCH CENTRE**  
PRODUCTS RESEARCH DIVISION

**1. Introduction**

This classification report defines the flammability class attributed to the two-layer parquet boards made from oak, by adhering to the procedure determined in LST EN 13501-1:2007+A1:2010.

**FLAMMABILITY CLASSIFICATION REPORT IN ACCORDANCE TO**  
**LST EN 13501-1:2007+A1:2010**

**Customer:** Traverse Wood

**Prepared by:** Fire Research Centre  
18 Švitrigailos Str., LT-03223 Vilnius

**Product:** Two-layer parquet board made from oak

**Classification Report No.** 20-14.2024.24

**Publication No.** Exemplar No. 1

**Date of preparation:** 4 July 2024

**Grounds:** 18 May 2024 Work Execution Contract No. 57-44 (2GB/1KL) and  
27 June 2024 Amendment No. 1 to the Work Execution Contract  
No. 57-44 (2GB/1KL).  
Application, registration No. 55-58/17.

This Classification Report is comprised of three pages. It may be used or copied only in its entirety.

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THE REPUBLIC OF LITHUANIA \* FIRE RESEARCH CENTRE 1/*

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## 2. Details of the Product Being Classified

### 2.1. General Part

The Product, two-layer parquet board made from oak, is defined as wooden flooring.

### 2.2. Description of the Product

In accordance to the Customer's declaration, the two-layer parquet board made from oak is comprised of 4.00 mm nominal thickness oak wood, the nominal density of which is 650 kg/m<sup>3</sup>, which is glued to the 15.00 mm nominal thickness birch plywood (manufacturer: 'Latvijas Plywood Mill Ltd.', Latvia), the density of which is from 650 to 700 kg/m<sup>3</sup>. Oak wood was glued to the birch plywood using cold pressing method and glue "M610" (manufacturer: 'Kiilto Kestokol', Sweden), output 200 g/m<sup>2</sup>. As per the demands of the Customer, the parquet board was covered with these layers of covering (manufacturer: 'Bona Industry AB', Sweden) and their yields:

1. Intermediate undercoat "UW-0308", output: 15 g/m<sup>2</sup>;
2. Undercoat "UB-1328", output: 33.2 g/m<sup>2</sup>;
3. Undercoat "UB-1328", output: 47.8 g/m<sup>2</sup>;
4. Undercoat "UB-1328", output: 47.8 g/m<sup>2</sup>;
5. Lacquer "UT-1250/2", output: 7.5 g/m<sup>2</sup>.

For the testing in accordance to LST EN ISO 9239-1:2010 and LST EN ISO 11925-2:2010, the parquet boards were glued to the standard foundation made from wood chips in accordance to LST EN 13238:2010 by using polyurethane glue "Uzin MK 95 New", output: from 1,000 to 1,200 g/m<sup>2</sup>.

## 3. Reports and Results Substantiating This Classification

### 3.1. Reports

Name of the laboratory	Name of the customer	Report No.	Test method and rules of the application area
PRD of the FRC of the FRD under the MoI	Traverse Wood	20-15.2024.5	LST EN ISO 11925-2:2010
PRD of the FRC of the FRD under the MoI	Traverse Wood	20-1.2024.4	LST EN ISO 9239-1:2010

### 3.2. Results

Test method	Parameter	Number of tests	Results	
			Equivalent parameter average	Conformity parameter
LST EN ISO 11925-2 surface exposure to flame 15 s exposure	F <sub>s</sub> ≤ 1500 mm no longer than 20 s	6	Yes	Conforms
	Catching fire of the filtration paper		No	Conforms
LST EN ISO 9239-1	Critical flow ≥ 4.5 kW/m <sup>2</sup>	3	6.3*	Conforms
	Accumulation of smoke ≤ 750 % x min.		23.4	Conforms

\*- in accordance to Points 7.3.c) and 7.3.d) of the standard LST EN 13501-2007+A1:2010, after performing the minimum number of tests, this result did not meet the conformity parameter, which is why, two additional tests were performed, and the parameter average was calculated by adding the values of additional tests results and rejecting the threshold values (highest and lowest).

## Classification and Area of Application

### 4.1. Reference of Classification

This classification has been performed in accordance to Chapter 12 of LST EN 13501-1:2007+A1:2010.

### 4.2. Classification:

Due to its flammability, the product (two-layer parquet board made from oak) is classified as C<sub>fl</sub>.

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Additional classification associated with the accumulation of smoke: s1

Flammability classification form of floorings:

Type of fire		Accumulation of smoke	
C <sub>fl</sub>		s	1

i.e., C<sub>fl</sub>-s1

**Flammability class: C<sub>fl</sub>-s1**

#### **4.3. Area of Application**

This classification is used for these conditions of practical use:

- The product is mounted on a foundation not lower than D-s2, class: d0, thickness:  $\geq 18$  mm;
- The product is glued to the foundation via any polyurethane glues, the output of which is  $\leq 1,200$  g/m<sup>2</sup>.

This classification is suitable only in the presence of the product parameters indicated in Point 2.2.

#### **5. Restrictions**

##### **5.1. Prohibitions**

The classification of this product is valid until 4 July 2026.

##### **5.2. Warning**

This document is not confirmation of type or product certificate.

Classification Report was prepared by:

Chief Specialist

Aurelija Kindurienė /Signature/

Classification Report was approved by:

Manager

Vytautas Jocius /Signature/

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