



„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA  
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## Classification of reaction to fire in accordance with EN 13501-1:2018

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**Customer:** Global Timber A/S.

Customer's address: Michael Drewsens Vej 1, 8270 Højbjerg, Aarhus, Denmark.  
Reg. No. 29429774.

**Manufacture and owner of classification report:** Global Timber A/S.

**Prepared by:** SIA "Meža un koksnes produktu pētniecības un attīstības institūts" (*Forest and Wood Products Research and Development Institute Ltd*).

Test performed at: SIA "Meža un koksnes produktu pētniecības un attīstības institūts" (*Forest and Wood Products Research and Development Institute Ltd*), "Pienavas katlu māja", Pienava, Džūkstes pagasts, Tukuma novads, LV-3147, Latvia (*"Pienava heat plant", Pienava, Džūkste parish, Tukums region, LV-3147, Latvia*).

**Product name:** Mahogany Hardwood.

Laboratory involved in testing is accredited by the Latvian National Accreditation Bureau (LATAK) according to the standard LVS EN ISO/IEC 17025 under the terms of Latvian legislation with reg. No. T-316. Laboratory is a notified body with reg. No. NB 2040 under construction product regulation No. 305/2011.

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## 1. Introduction

This classification report defines the reaction to fire classification assigned to Mahogany Hardwood in accordance with the procedures given in EN 13501-1:2018.

## 2. Details of classified product

### 2.1. General

Mahogany Hardwood is defined as solid wood lamellas for ribbon installation. Product can be defined as solid wood cladding according to product standard EN 14915:2013.

### 2.2. Product description

- Product name: Mahogany Hardwood.
- Manufacturer: Global Timber A/S.
- Materials used for manufacturing:
  - mahogany lamellas with dimension 20 x 40 mm;
  - installed as wood ribbons with 10 mm spacing between lamellas on solid wood framework created from 20x40 mm wood battens;
  - density about 650 kg/m<sup>3</sup>.
- Nominal thickness tested: 20 mm.

## 3. Test reports and test results in support of classification

### 3.1. Specific conditions

Not applicable

### 3.2. Test reports

Name of laboratory	Name of sponsor	Test reports	Test method
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Global Timber A/S	8945-1/2024	EN 13823:2020+A1:2022
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Global Timber A/S	8945-2/2024	EN ISO 11925-2:2020

### 3.3. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2020+A1:2022	<i>FIGRA</i> <sub>0,2MJ</sub> (W/s)	4	593	(-)
	<i>FIGRA</i> <sub>0,4MJ</sub> (W/s)		593	(-)
	<i>THR</i> <sub>600s</sub> (MJ)		97.3	(-)
	<i>LFS</i> < edge of specimen		yes	Compliant
	<i>SMOGRA</i> (m <sup>2</sup> /s <sup>2</sup> )		9	(-)
	<i>TSP</i> <sub>600s</sub> (m <sup>2</sup> )		55	(-)
	Flaming droplets <10s Flaming droplets >10s		(-) (-)	Compliant Compliant
EN ISO 11925-2:2020  Exposure time 30 s. Test duration 60 s.	Flame spread (Fs) ≤ 150mm	12	yes	Compliant
	Ignition of filter paper		no	Compliant
	Flaming droplets/particles		no	Compliant
(-) not applicable				

## 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

Mahogany Hardwood in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction product excluding floorings and linings is:

Fire behaviour		Smoke production			Flaming droplets	
D	-	s	2	,	d	0

**Reaction to fire classification: D-s2, d0**

### 4.3. Field of application

4.3.1 This classification is valid for the following product end use applications:

Product primary is intended to use as wood ribbon installation for walls and ceilings installations in buildings.

4.3.2. This classification is also valid for following product parameters:

- valid for mahogany wood lamellas thickness and geometry as tested;
- valid only for product compositions as tested;
- valid without additional coatings;
- mounted with ventilated or non-ventilated air gap to substrate of any A1 or A2-s1,d0 with a minimum density of 525 kg/m<sup>3</sup> and thickness at least 12 mm, and with the air gap constructed by wooden battens of class D-s2,d0 or better or any A1 or A2-s1,d0 product.
- valid for product mounting with air gap between product and substrate. Valid also for product mounting on substrates without air gap;
- valid for vertical and horizontal arrangements;

### 5. Limitations.

5.1. No restrictions on the duration of validity of this classification report as long as the product specifications remain unchanged.

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

Prepared by

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(signature and name)

Reviewed by

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