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FIRE AND RESCUE DEPARTMENT UNDER THE MINISTRY OF THE INTERIOR OF  
THE REPUBLIC OF LITHUANIA

**FIRE RESEARCH CENTRE  
PRODUCTS RESEARCH DIVISION**

### 1. Introduction

This classification report defines the classification assigned to the cement-bonded particleboard in accordance with procedures given in LST EN 13501-1:2007+A1:2010

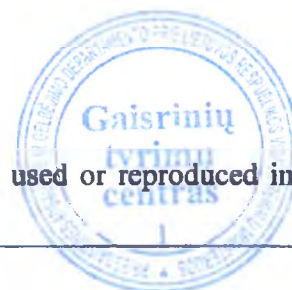
## **CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH LST EN 13501-1:2007+A1:2010**

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<b>Prepared by:</b>	Fire Research Centre, Lithuania.
<b>Product name:</b>	Cement-bonded particleboard fully described in ch. 2.2.
<b>Classification report No.:</b>	20-10.2016.24
<b>Issue number:</b>	Exemplar No. 1 ( <i>Classification report was prepared only in English</i> )
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## 2. Details of classified product

### 2.1 General

The product, cement-bonded particleboard is defined as wood-based panels for use in construction.

### 2.2 Product description

In accordance with customer declaration cement-bonded particleboard consists of: 24 % wood shavings, 65 % portland cement, 8,5 % water and 2,5 % supplements (liquid glass, aluminum sulphate and etc).

8 mm thickness cement-bonded particleboard density is 1339 kg/m<sup>3</sup> and 24 mm thickness density is 1357 kg/m<sup>3</sup>).

## 3. Reports and results in support of classification

### 3.1 Reports

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
Fire Research Centre Products Research Division	Joint Limited Liability Company "CSP BZS"	20-6.2016.3 20-7.2016.3	LST EN 13823:2010 + A1:2015
Fire Research Centre Products Research Division	Joint Limited Liability Company "CSP BZS"	20-5.2016.5	LST EN ISO 11925-2:2010

### 3.2 Results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
LST EN ISO 11925-2 Surface flame attack Flame exposition period 30 s	F <sub>s</sub> ≤ 150 mm within 30 s	7	Yes	Compliant
	Ignition of filter paper		No	Compliant
LST EN ISO 11925-2 edge flame attack Flame exposition period 30 s	F <sub>s</sub> ≤ 150 mm within 30 s	7	Yes	Compliant
	Ignition of filter paper		No	Compliant
LST EN 13823 (24 mm cement-bonded particleboard )	FIGRA <sub>0,2MJ</sub> ≤ 120 W/s LFS < edge of specimen THR <sub>600s</sub> ≤ 7,5 MJ	3	11,0 Yes 1,3	Compliant
	SMOGR <sub>A</sub> ≤ 30 m <sup>2</sup> /s <sup>2</sup> TSP <sub>600s</sub> ≤ 50 m <sup>2</sup>		0,0 20,7	Compliant
	Within 600 s there are any flaming droplets/particules		Yes	Compliant
LST EN 13823 (8 mm cement-bonded particleboard)	FIGRA <sub>0,2MJ</sub> ≤ 120 W/s LFS < edge of specimen THR <sub>600s</sub> ≤ 7,5 MJ	3	12,6 Yes 1,8	Compliant
	SMOGR <sub>A</sub> ≤ 30 m <sup>2</sup> /s <sup>2</sup> TSP <sub>600s</sub> ≤ 50 m <sup>2</sup>		0,0 22,8	Compliant
	Within 600 s there are any flaming droplets/particules		Yes	Compliant

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with LST EN 13501-1:2007+A1:2010 chapter 11.



#### 4.2 Classification

The product, cement-bonded particleboard in relation to its reaction to fire behavior is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

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

**d0**

The format of reaction to fire classification construction products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour		Smoke production		Flaming droplets
<b>B</b>	-	<b>s1</b>	,	<b>d0</b>

i.e. **B-s1, d0**.

**Reaction to fire classification: B-s1, d0**

#### 4.3 Field of application

This classification is valid for in chapter 2.2 listed and additionally for following product parameters:

- cement-bonded particleboard nominal thickness  $\geq 8$  mm and  $\leq 24$  mm;
- classification is valid for application with or without air gap;
- nominal density  $\geq 1339$  kg/m<sup>3</sup>.

#### 5. Limitations

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

Classification Report prepared by:

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Classification Report approved by:

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