

„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA  
VAT No. LV 43603022749  
Dobeles iela 41, Jelgava, LV-3001, Latvia  
Phone +371 63010605 \* E-mail meka@e-koks.lv \* Web www.e-koks.lv



## Classification of reaction to fire performance in accordance with EN 13501-1:2007+A1:2009

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**Sponsor:** Collstrop Anti Fire ApS.

Customer's address: Toldbodgade 16 st., DK-6000 Kolding, Denmark.  
Reg. No. DK-35655174

**Manufacturer:** Collstrop Anti Fire ApS.

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

**Product name:** Building material – Fire retardant treated birch plywood.

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.

*Classification report refers only to these test objects. This classification report may not be reproduced otherwise than in full text, excepted with the prior written approval of the Forest and Wood Products Research and Development Institute*

## 1. Introduction

This classification report defines the reaction to fire classification assigned to building material – Fire retardant treated birch plywood in accordance with the procedures given in EN 13501-1:2007+A1:2009.

## 2. Details of classified product

### 2.1. General

Product is intended to use as fire retardant treated building material. Birch plywood is defined as plywood according to standard EN 636:2012+A1:2015.

### 2.2. Product description

- Product name: Building material – Fire retardant treated birch plywood.
- Manufacturer: Collstrop Anti Fire ApS.
- Wood species: birch.
- Nominal thickness: 12 mm.
- Fire retardant: Antifire.
- Treatment method: impregnated with average retention 127 dm<sup>3</sup>/m<sup>3</sup>.

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

### 3.1. Test reports

Name of laboratory	Name of sponsor	Test reports	Test method
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Collstrop Anti Fire ApS.	1782-1/2016	EN 13823:2010+A1:2014
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Collstrop Anti Fire ApS.	1782-2/2016	EN ISO 11925-2:2010

### 3.2. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2010+A1:2014	<i>FIGRA</i> <sub>0,2MJ</sub> (W/s)	3	90.1	Compliant
	<i>FIGRA</i> <sub>0,4MJ</sub> (W/s)		72.6	(-)
	<i>THR</i> <sub>600s</sub> (MJ) <i>LFS</i>		5.2 <1000 mm	Compliant Compliant
	<i>SMOGRA</i> (m <sup>2</sup> /s <sup>2</sup> )		1.2	Compliant
	<i>TSP</i> <sub>600s</sub> (m <sup>2</sup> )		27.5	Compliant
	Flaming droplets <10s Flaming droplets >10s		no no	Compliant Compliant
EN ISO 11925-2:2010  Exposure time 30 s. Test duration 60 s.	Flame spread (Fs)	12	Less than 150 mm	Compliant
	Ignition of filter paper		no	(-)
	Flaming droplets/particles		no	(-)
(-) 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 13501-1:2007+A1:2009.

### 4.2. Classification

Building material – Fire retardant treated birch plywood in relation to its reaction to fire behaviour 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 the reaction to fire classification for construction product excluding floorings and linings is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

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



### 4.3. Field of application

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

Product is intended to use as fire retardant treated building material.

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

Thickness: valid only for product thickness as tested.  
Chemical composition of fire retardants: valid only for product composition as tested.  
Wood species: valid only for birch wood.  
Retention of fire retardant: valid for fire retardant retention equal or more than  $127 \text{ dm}^3/\text{m}^3$ .  
Coatings: valid only without additional coatings.

#### 4.3.3. Classification valid for installation parameters:

Mounting: valid for product mounting without air gap between product and substrate.  
Substrates: product performance determined on gypsum plasterboard substrate A2-s-1-d0 reaction to fire class and classification is valid for product mounting on substrates at least reaction to fire class A2-s-1-d0.  
Orientation: valid for mounting in any board orientation.  
Joints: product tested without joints.

### 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

(signature)

E. Bukšāns

Reviewed by

(signature)

K.Būmanis