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based on testing)

**Branch 0800 – FIRE SAFETY**

**REACTION TO FIRE**

# REPORT

**in accordance with EN 13501-1:2018**

**080-025351**

Product Name:

**BFlex Hemp**

carried out on the basis of test report No. 010-046912

Order No: Z 080230004

Classification report No.: PKP – 23 - 059

Applicant: Balticfloc Ltd  
Ata Kronvalda Street 40/22-601, Cēsis, Latvia

Plant: Balticfloc Ltd  
Ata Kronvalda Street 40/22-601, Cēsis, Latvia

Ordering Party: Notified Body 1020, Technical and Test Institute for Construction  
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Date of issue: 16.06.2023



This document consists of 4 pages

Number of prints: 3

Issue number: 1

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## 1. Introduction

1.1. This Classification Report determines the classification of a product called **BFlex Hemp** in accordance with the procedures in EN 13501-1:2018.

### 1.2. Normative backgrounds:

- EN 13501-1: Fire classification of construction products and building structures - Part 1: Classification according to the results of reaction to fire tests (2018)
- ČSN EN ISO 11925-2: Testing of reaction to fire - Flammability of construction products exposed to direct flame - Part 2: Testing for a small flame source (7/2020)
- ČSN EN 13238: Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates (6/2010)
- ČSN P CEN/TS 15117: Guidance on direct and extended application (2/2006)
- ČSN EN 15715: Thermal insulation products - Instructions for mounting and fixing for reaction to fire testing - Factory made products (6/2010)
- EAD 040005-00-1201: Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres (2/2016)

## 2. Description of the construction product

### 2.1. Generally

**Product – BFlex Hemp** is defined according to the EAD 040005-00-1201: Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres.

### 2.2. Description

BFlex Hemp is cellulose-hemp insulation mat.

Composition: - Cellulose 50%

- Hemp fibre 20%
- Bicomponent-binder 24-26% (polyester fibre core with a sheath of ethylene/vinyl acetate copolymer)
- Additives – 4-6% (fire retardant, against microbiological pollution, rodents)

Intended use:

Insulation of walls, roofs and ceilings

The product **BFlex Hemp** is fully described in the test report in support of classification listed in clause 3.

## 3. Protocols and results used for this classification

### 3.1. Protocols

Name of the laboratory	Name of the manufacturer	Protocol No. Date of issue	Test method and date Application rules area and date
TZUS Prague, s.p., Branch 0100 - Prague AZL. č. 1018.3	Balticfloc Ltd Ata Kronvalda Street 40/22-601, Cēsis, Latvia	010-046912 (2023-06-08)	ČSN EN ISO 11925-2:2020



### 3.2. Test results

Sample	Test method	Parameter	Number of tests	Results	
				Continuous parameter – average	Compliance the parameters
1	ČSN EN ISO 11925-2 exposure time 15 s exposure of the edge	F <sub>s</sub> > 150 mm during 20 s	6	yes	meets
		Ignition of filter paper		no	not classified
	ČSN EN ISO 11925-2 exposure time 15 s exposure of the area	F <sub>s</sub> > 150 mm during 20 s	6	yes	meets
		Ignition of filter paper		no	not classified
2	ČSN EN ISO 11925-2 exposure time 15 s exposure of the edge	F <sub>s</sub> > 150 mm during 20 s	6	yes	meets
		Ignition of filter paper		no	not classified
	ČSN EN ISO 11925-2 exposure time 15 s exposure of the area	F <sub>s</sub> > 150 mm during 20 s	6	yes	meets
		Ignition of filter paper		no	not classified

Sample 1 – thickness 40 mm, Sample 2 – thickness 100 mm

## 4. Classification and area of direct application

### 4.1. Classification links

This classification was carried out in accordance with EN 13501-1:2018.

### 4.2. Classification

**BFlex Hemp** is classified according to its reaction to fire:

**F**

Additional classification according to burning droplets / particles:

**no additional classification**

Modification of the reaction to fire classification for construction products excluding floor coverings and thermal insulating pipe products:

Fire behavior		Smoke production		Burning particles	
<b>F</b>		<b>s</b>	not classified	<b>d</b>	not classified

**Reaction to fire classification: F**

### 4.3. Application area

This classification applies to the following parameters:

- The product described in paragraph 2,
- Thickness: 40 – 100 mm,
- Density: tested density  $\pm$  15%

The classification applies to the following end use applications:

- Insulation of walls, roofs and ceilings.




## 5. Restrictions

This classification report is only valid as a whole, and each page must be provided by the identification number of the classification report, page number of the total number of pages and the stamp of the contractor.

This classification report does not replace any type approval or product certification.



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Prague, the 16.06.2023