



**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague**

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán / Accredited Testing Laboratory, Authorised Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body.



**Centrální laboratoř - zkušebna Praha**  
**Central Laboratory – Testing Department Prague**

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Testing Laboratory No. 1018.3 accredited by ČIA pursuant to ČSN EN ISO/IEC 17025:2018

# TEST REPORT

**No. 010-046911**

## on determination of water vapour transmission properties

Manufacturer: Balticfloc Ltd.  
Address: Ata Kronvalda Street 40/22-601, Cēsis, Latvia  
Identification No: LV44103062908  
Ordering party: Technical and Test Institute for Construction Prague, SOE  
Branch 0100 – Prague, Notified Body 1020  
Prosecká 811/76a, 190 00 Praha 9, Czech Republic

Test sample: **BFlex Hemp**

Order No.: Z010220247

Number of pages of the Test Report incl. title page: 2

Number of annexes: -

Prepared by:

**Michal Kadeřávek**  
test technician - specialist

Approved by:

**Ing. Radka Sedmidubská**  
head of the Testing Department

Copy No: 1



Number of prints: 3

Praha, 08.06.2023

stamp of the Testing laboratory No. 1018.3

**Declaration:** 1) The test results in this test report relate only to the tested product and they do not substitute any other documents  
2) The test report shall be copied as a whole only otherwise a written consent of the testing laboratory is needed.

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Entered in the Commercial Register maintained by Municipal Court in Prague, Section ALX, Insert 711, Comp. ID: 00015679, VAT: CZ00015679

## 1. Sample data

Evidence Number: VZ010230154  
 Sample: BFlex Hemp  
 Factory-made thermal and/or acoustic insulation product made of vegetable or animal fibres  
 Order No.: Z010220247  
 Date of delivery: 03.03.2023  
 Sampling place: Not stated  
 Sampling method: Not stated  
 The test results are related to the sample as received.  
 The sample preparation was performed according to the technical requirements of the applicant and the test samples were prepared for testing according to the relevant standard.

## 2. Test methods

Identification of the test method		Test method
ČSN EN 12086	Thermal insulating products for building applications - Determination of water vapour transmission properties	Determination of water vapour transmission properties

*Deviations from the standard procedure or use of non-standardized methods: were not applied.*

### Other, related standards:

EAD 040005-00-1201	Factory-made thermal and/or acoustic insulation product made of vegetable or animal fibres
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## 3. Test results

The tests were performed on: 14.04.2023 - 26.04.2023  
 Place of testing: TZÚS Prague, Testing Department Prague  
 The tests were performed by: Michal Kadeřávek

Data on the person who performed the test, test conditions and equipment used are listed in the test minutes. Apparatuses and measuring instruments that used have been verified pursuant to a valid plan of the Testing Department Prague.

### 3.1 Determination of water vapour transmission properties according to ČSN EN 12086

Method C. Environment in the climatic chamber: temperature 23 °C, relative humidity 50 %.  
 Used desiccant: CaCl<sub>2</sub> (calcium chloride). Used sealing material: mixture of microcrystal wax and paraffin

Table No.1

<b>The average thickness of the test sample d [m]</b>	<b>0,05</b>
<b>Water vapour permeance W [mg/(m<sup>2</sup>.s.Pa)]</b>	<b>6,37.10<sup>-10</sup></b>
<b>Water vapour permeability δ [kg/(m.s.Pa)]</b>	<b>2,72.10<sup>-11</sup></b>
<b>Water vapour resistance μ [-]</b>	<b>7,70</b>
<b>Expanded uncertainty U* for μ [-]</b>	<b>2,77</b>
<b>Water vapour diffusion-equivalent air layer thickness S<sub>d</sub> [m]</b>	<b>3,28.10<sup>-1</sup></b>

END OF THE TEST REPORT

