

**EXTERNAL EXPOSURE TO FIRE CLASSIFICATION REPORT  
OF ROOF CONSTRUCTION**

**Sponsor:** Donleon OÜ  
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**Notified Body No:** 0809

**Products:** Bronya Aquablock NG

**Classification report No:** EUFI29-19004510-T2

**Date of issue:** 10 October 2019

## 1 Introduction

This classification report defines the classification assigned to the roofing material Bronya Aquablock NG in accordance with the procedures given in EN 13501-5:2016.

## 2 Description of the roof covering

The roofing product Bronya Aquablock NG is described below.

Manufacturer: OOO NPO "BRONYA"

Product description: Polymer waterproofing Bronya AquaBlock NG is designed for indoor and outdoor use and is applied to cement screed, concrete, metal, plastic, wood, or any other old waterproofing surfaces and other roofing materials in order to waterproof the foundation, walls, floors, balconies, roofs, inter panel joints, pools, tanks, etc.

Product composition:

|                                     |        |
|-------------------------------------|--------|
| Ceramic Hollow Microspheres         | (15 %) |
| Acrylic (Acryl)                     | (25 %) |
| Corrosion Inhibitor                 | (1 %)  |
| Silicon-Organic (Silicone) Modifier | (1 %)  |
| Nitrile-acrylic additives           | (1 %)  |
| Ammonium Polyphosphate              | (15 %) |
| Melamine                            | (25 %) |
| Water                               | (17 %) |

Typical dry film thickness: 1 - 3 mm

Spreading rate or mass per unit area: 1,0 - 1,2 kg/m<sup>2</sup>

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

### 3.1 Test report

| Name of laboratory          | Name of sponsor | Test report        | Test method and date                 |
|-----------------------------|-----------------|--------------------|--------------------------------------|
| Eurofins Expert Services Oy | Donleon OÜ      | EUFI29-19004510-T1 | CEN TS 1187 Test 2<br>8 October 2019 |

### 3.2 Test 2

Test pitch: 30°

Substrate: fiber reinforced calcium silicate board of density (680 ± 50) kg/m<sup>3</sup> and thickness (10 ± 2) mm

| Parameter                               | Criteria |       |         |         |         |      |     | Compliance |
|---|----------|-------|---------|---------|---------|------|-----|------------|
|   | Mean     | Max   | Spec. 1 | Spec. 2 | Spec. 3 | Mean | Max |            |
| Damaged length at 2 m/s – roof covering | ≤ 550    | ≤ 800 | 64      | 66      | 61      | 64   | 66  | Yes        |
| Damaged length at 2 m/s – substrate     | ≤ 550    | ≤ 800 | 0       | 0       | 0       | 0    | 0   | Yes        |
| Damaged length at 4 m/s – roof covering | ≤ 550    | ≤ 800 | 78      | 68      | 71      | 72   | 78  | Yes        |
| Damaged length at 4 m/s – substrate     | ≤ 550    | ≤ 800 | 0       | 0       | 0       | 0    | 0   | Yes        |

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

### 4.2 Classification

The roof covering, Bronya Aquablock NG in relation to its external fire performance is classified:

B<sub>ROOF</sub> (t2)

### 4.3 Field of application

This classification is valid for the following conditions.

- Non-combustible substrates with density of at least 510 kg/m<sup>3</sup>

## 5 Limitations

This classification report does not represent type approval or certification of the products.

Espoo, 10 October 2019

Matti Lanu  
Business Unit Manager

Jere Heikkinen  
Expert

Distribution Customer, Electronically approved



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