# Centrum stavebního inženýrství a.s.

**Fire Technical Laboratory**

**AUTHORIZED BODY No. 212**

**NOTIFIED BODY No. 1390**

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

**Applicant:**
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**Product name:**
*CLIMATIZER PLUS*
*THERMOCELL 040*
*FLOCO`MOBIL*
*Dämmflocke / UniFloc*

**Classification report No.:** PK-15-061

**Issue number:** 1/2

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## 1. DETAILS OF CLASSIFIED PRODUCT

**Description:**

The product *CLIMATIZER PLUS / THERMOCELL 040 / FLOCO`MOBIL Dämmflocke / UniFloc* is fully described in the test reports in support of the classification listed in clause 2. *THERMOCELL 040 / FLOCO`MOBIL Dämmflocke / UniFloc* are alternate names of the tested product *CLIMATIZER PLUS.*

## 2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

**Test reports**

| Name of laboratory | Name of sponsor | Test report ref. no. | Test method |
|---|---|---|---|
| CSI a.s., Fire technical laboratory | CIUR a.s. | 15144 – 1/3<br>15144 – 2/3 | ČSN EN ISO 11925-2 |
| | | 15144 – 3/3 | ČSN EN 13823 |

**Measured values**

| Test method | Parameter | Number of test | Results | |
|---|---|---|---|---|
| | | | Continuous parameter mean (m) | Compliance parameters |
| ČSN EN ISO 11925-2[(1)] exposition = 30 s | *Fs* ≤ 150 mm<br>ignition of the filter paper | 6<br>6 | yes<br>no | yes (B to D)<br>no (d0) |
| ČSN EN ISO 11925-2[(2)] exposition = 30 s | *Fs* ≤ 150 mm<br>ignition of the filter paper | 6<br>6 | yes<br>no | yes (B to D)<br>no (d0) |
| ČSN EN 13823 | $FIGRA_{0,2\,MJ}$ (W/s)<br>*LFS* < edge<br>$THR_{600\,s}$ (MJ) | 3<br>3<br>3 | 3,4<br>yes<br>1,2 | ≤ 120 (B)<br>yes (B)<br>≤ 7,5 (B) |
| | *SMOGRA* ($m^2/s^2$)<br>$TSP_{600\,s}$ ($m^2$) | 3<br>3 | 0,0<br>16,8 | ≤ 30 (s1)<br>≤ 50 (s1) |
| | flaming droplets / particles | 3 | no | no (d0) |

(1): surface flame attack
(2): edge flame attack – exposed edge of insulation layer

## 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

**Reference and direct field of application**

This classification has been carried out in accordance with the clause 11.6, 11.9.2. and 11.10.1 of ČSN EN 13501-1+A1:2010.

**Classification**

The product *CLIMATIZER PLUS / THERMOCELL 040 / FLOCO`MOBIL Dämmflocke / UniFloc*, 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 *CLIMATIZER PLUS / THERMOCELL 040 / FLOCO`MOBIL Dämmflocke / UniFloc* is:

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

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

**Field of application**

This classification is also valid for the following product parameters:

- thickness of insulation: without limitation
- density of insulation: 35 – 70 kg/m$^3$

This classification is valid for the following end use conditions:

- Insulation *CLIMATIZER PLUS / THERMOCELL 040 / FLOCO`MOBIL Dämmflocke / UniFloc* applied to close cavity
- cavity walls are composed of products of reaction to fire class A2-s1, d0 at least 12 mm thickness and density of 525 kg/m3 or greater, or any product of reaction to fire class A1.

## 4. LIMITATIONS

### Restrictions

This classification report is valid until 12th July 2020, provided that the technical specifications of the product will not be changed.

### Warning

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

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