



## Centrum stavebního inženýrství a.s. / Civil Engineering Centre

Fire technical laboratory

AUTHORISED  
PERSON AO 212

ANNOUNCED  
SUBJECT 1390

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

**Ordering party:** Icynene Europe Sprl  
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**Processing party:** Centrum stavebního inženýrství a.s. / (Civil  
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**Product name:** Icynene® spray foam thermal insulation with  
sprayed-on ignition BARRIER

**Classification  
report number:** PK-15-007

**Copy number:** 1/2

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This classification report contains 4 pages and can be used or  
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## 1. INFORMATION ABOUT THE CLASSIFIED PRODUCT

### Origin and use in practise

The product of Icynene® spray foam thermal insulation with sprayed-on ignition BARRIER is defined as a thermal insulation product.

### Description:

The product of Icynene® spray foam thermal insulation with sprayed-on ignition BARRIER is completely specified in the test reports stated in Art. 2.

## 2. TEST REPORTS AND TEST RESULTS USED FOR THIS CLASSIFICATION

### Test report

Laboratory name	Contracting party name	Test report No.	Test method
CSI a.s., PTL	LIKO-S a.s.	15/266/P016	ČSN EN ISO 11925-2
		15/267/P017	ČSN EN 13823

### Measured values and test results

Test method	Parameter	Number of tests	Results	
			Average continuous parameter (m)	Performance parameter
ČSN EN ISO 11925-2 exposition = 30 sec.	Fs ≤ 150 mm <sup>(1)</sup>	6	yes	yes (B – D)
	filter paper ignition <sup>(1)</sup>	6	no	no (d0)
ČSN EN 13823	FIGRA <sub>0,4MJ</sub> (W/s)	3	176.5	≤ 250 (C)
	LFS > edge	3	yes	yes (C)
	THR <sub>600 s</sub> (MJ)	3	11.2	≤ 15 (C)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	34.6	≤ 180 (s2)
	TSP <sub>600 s</sub> (m <sup>2</sup> )	3	181.6	≤ 200 (s2)
	flame-burning drops/particles (s)	3	no	no (d0)

(1): surface exposition

### 3. CLASSIFICATION AND DIRECT APPLICATION

#### Reference and direct classification

This classification was made in accordance with the article 11.5, 11.9.3 and 11.10.1 of ČSN EN 13501-1+A1: 2010.

#### Classification

The product of Icynene® spray foam thermal insulation with sprayed-on ignition BARRIER is classified in accordance with its reaction to fire:

**C**

Its additional classification according to the smoke development is:

**s2**

Its additional classification according to flame-burning drops/particles is:

**d0**

Regulation of the reaction-to-fire classification of the product of Icynene® spray foam thermal insulation with sprayed-on ignition BARRIER:

burning behaviour		smoke development			falling away burning particles	
C	-	s	2	-	d	0

**Classification of reaction to fire: C-s2, d0**

#### Application area

This classification is applicable to the following parameters of the product:

- thickness of the foam application: no limit
- dry efficiency of the sprayed-on ignition barrier  $\geq 2 \text{ kg/m}^2$

This classification is applicable to the following applications of the final use:

- Foam applied on A1 or A2 class substrates with the minimum thickness of 6 mm and density of 665  $\text{kg/m}^3$  min.

#### **4. SERVICEABILITY PROVISIONS**

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##### **Limitation**

This classification report is valid up to 27.01.2020 if there will be no change in the technical specifications of the product.

##### **Caution**

This document cannot substitute a type approval or a product certificate.

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