



# 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:** Příhoda s.r.o.  
Za Radnicí 476  
539 01 Hlinsko  
Czech Republic

**Prepared by:** Centrum stavebního inženýrství a.s.  
Pražská 16  
102 00 Praha 10  
Czech Republic

**Product name:** INSULATION

**Classification  
report No.:** PK-16-068

**Issue number:** 1/2

**Date of issue:** 30<sup>th</sup> May 2016

This classification report consists of 4 pages and may only be used or reproduced in its entirety.

Address:  
PRAŽSKÁ 16, 102 00 PRAHA 10, Czech Republic, E mail: csias@csias.cz, <http://www.csias.cz>  
Reg. No. 45274860, VAT No. CZ45274860. The Company is registered in the Commercial Register administered by the Municipal Court of Prague (section B, inset 1595).  
Fire Technical Laboratory, E-mail: ptl@csias.cz  
Phone: +420 281 017 111, Fax: +420 281 017 455

## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

The product *INSULATION* is defined as a type of thermal insulation product according to CUAP N°12.01/16.

### Description:

The product *INSULATION* is fully described in the test reports in support of the classification listed in clause 2.

## 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	CSI a.s., Notified Body No. 1390	14949 – 2/2	EN ISO 11925-2
		14950 – 2/2	
		14949 – 1/2	EN 13823
		14950 – 1/2 16/330/P080	

### Measured values and test results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
EN ISO 1925-2 Appendix A thickness = 60 mm	$F_s \leq 150$ mm	6	yes	yes (B to D)
	ignition of the filter paper	6	no	no (d0)
EN ISO 1925-2 Appendix A thickness = 180 mm	$F_s \leq 150$ mm	6	yes	yes (B to D)
	ignition of the filter paper	6	no	no (d0)
EN 13823 thickness = 30 mm	$FIGRA_{0,2 MJ}$ (W/s)	1	5,1	$\leq 120$ (B)
	$LFS < \text{edge}$	1	yes	yes (B)
	$THR_{600s}$ (MJ)	1	0,8	$\leq 7,5$ (B)
	$SMOGRA$ ( $m^2/s^2$ )	1	0	$\leq 30$ (s1)
	$TSP_{600s}$ ( $m^2$ )	1	10,0	$\leq 50$ (s1)
	flaming droplets / particles	1	no	no (d0)
EN 13823 thickness = 60 mm	$FIGRA_{0,2 MJ}$ (W/s)	3	30,6	$\leq 120$ (B)
	$LFS < \text{edge}$	3	yes	yes (B)
	$THR_{600s}$ (MJ)	3	3,4	$\leq 7,5$ (B)
	$SMOGRA$ ( $m^2/s^2$ )	3	0	$\leq 30$ (s1)
	$TSP_{600s}$ ( $m^2$ )	3	28,9	$\leq 50$ (s1)
	flaming droplets / particles	3	no	no (d0)
EN 13823 thickness = 180 mm	$FIGRA_{0,2 MJ}$ (W/s)	3	80,8	$\leq 120$ (B)
	$LFS < \text{edge}$	3	yes	yes (B)
	$THR_{600s}$ (MJ)	3	7,2	$\leq 7,5$ (B)
	$SMOGRA$ ( $m^2/s^2$ )	3	17,0	$\leq 30$ (s1)
	$TSP_{600s}$ ( $m^2$ )	3	153,9	$\leq 200$ (s2)
	flaming droplets / particles	3	no	no (d0)

### 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, 11.9.3. and 11.10.1 of ČSN EN 13501-1+A1:2010.

#### Classification

The product *INSULATION*, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s2**

The additional classification in relation to flaming droplets/particles is:

**d0**

The format of the reaction to fire classification for *INSULATION* is:

Fire behaviour		Smoke production				Flaming droplets	
B	-	s	2	,	d	0	

**Reaction to fire classification: B-s2, d0**

**Field of application**

This classification is also valid for the following product parameters:

- Thickness: 30 to 180 mm

**4. LIMITATIONS****Restrictions**

This classification report is valid until 30<sup>th</sup> May 2021, 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.

Prepared:		Reviewed:
		
.....		.....
Jiří Socha		Vít Slaboch technical manager of laboratory