



Centrum stavebního inženýrství a.s.

Fire Technical Laboratory

AUTHORIZED  
BODY No. 212

**REACTION TO FIRE CLASSIFICATION**  
**REPORT No. PK-05-108**

of product

*Textile fabric Příhoda NHE*

on behalf of: **Příhoda s.r.o.**  
**Za Radnicí 476**  
**539 01 Hlinsko**

Job No. PTL-226/05

This classification report defines the classification assigned to product *Textile fabric Příhoda NHE*, in accordance with the procedures given in ČSN EN 13501-1.

Prague, December 2005

This classification report includes 3 pages

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## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

The product *Textile fabric Přihoda NHE* is defined as a „type of classified product“. Its classification is valid for the following end use application:

Hanged textile air distribution system.

### Description:

The product *Textile fabric Přihoda NHE* 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., PTL	Přihoda s.r.o.	12871 – 1/2	ČSN EN ISO 1716
CSI a.s., PTL	Přihoda s.r.o.	12871 – 2/2	ČSN EN 13823

### Test results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
ČSN EN ISO 1716	PCS (MJ/kg)	3	1,05 ± 0,08	(-)
ČSN EN 13823	FIGRA <sub>0,2 MJ</sub> (W/s)	3	0,0	(-)
	LFS > edge	3	(-)	no
	THR <sub>600 s</sub> (MJ)	3	0,6 ± 0,1	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	0,0	(-)
	TSP <sub>600 s</sub> (m <sup>2</sup> )	3	14,8 ± 1,7	(-)
	Flaming droplets/particles	3	(-)	no
(-): not applicable				

### 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

#### Reference and direct field of application

This classification has been carried out in accordance with clause 10.7.3 of ČSN EN 13501-1: 2002.

#### Classification

The product *Textile fabric Přihoda NHE*, in relation to its reaction to fire behaviour is classified:

**A2**

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 is:

**A2-s1, d0**

#### Field of application

This classification is valid for the following end use conditions:

- Without backing

### 4. LIMITATIONS

#### Restrictions

This classification report is valid until 16<sup>th</sup> December 2010.

#### Warning

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

Date: 16<sup>th</sup> December 2005

Prepared:

*Vit Slaboch*

Vit Slaboch



Reviewed:

*Pavel Vaniš*  
Pavel Vaniš Ph.D, CEng.  
head of Division of fire safety



Accredited Testing Laboratory No. 1007.7  
**TEST REPORT** No. 12871 - 1/2  
on Fire and Technical Characteristics



Our ref.: PTL - 226/05		Number of pages: 1			
Sponsor: Příhoda s.r.o., Za Radnicí 476, 539 01 Hlinsko					
<b>THE TEST ITEM</b>					
Product Name: Příhoda NHE					
Standard: Undeclared			Manufacturer: Undeclared		
Composition: Glass fibre, polyurethane					
Appearance: Silver-white textile of thickness ca 0,4 mm, mass per unit area 0,46 kg/m <sup>2</sup>					
Date of receipt of the sample: 2005-11-16    Sampling: The samples were delivered by the sponsor					
Date of realization of tests: 2005-12-16					
<b>TEST METHOD for determination of:</b>					
- gross heat of combustion (PCS): ČSN EN ISO 1716					
Conditioning: according to the EN 13 238					
Water equivalent of the calorimeter: 9,6588 kJ/K					
<b>MEASURED VALUES AND TEST RESULTS</b>					
Fire technical characteristics	Measured values			Results	Expanded uncertainty
	1st	2nd	3rd		
PCS [ MJ/kg ]	1,022	1,085	1,029	1,05	0,08
PCS [ MJ/m <sup>2</sup> ]	0,470	0,499	0,473	0,48	0,08
<b>Conclusion:</b>					
The mentioned expanded uncertainty is obtained by multiplying the standard uncertainty by a coverage factor k=2, which corresponded to a level of confidence of 95 %.					
The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing. The protocol shall not be reproduced except in full without the written approval of the testing laboratory.					
Responsible person: Vít Slaboch					
Date: 2005-12-19					





Accredited Testing Laboratory No. 1007.7

**TEST REPORT** No. 12871 - 2/2  
on Fire and Technical Characteristics



Our ref.: PTL - 226/05		Number of pages: 2 + appendix no. 1 to 3			
Sponsor: Příhoda s.r.o., Za Radnicí 476, 539 01 Hlinsko					
<b>THE TEST ITEM</b>					
Product Name: Příhoda NHE					
Standard: Undeclared			Manufacturer: Undeclared		
Composition: Glass fibre, polyurethane					
Appearance: A glass-fibre textile, silver from face side and white from back, two-sided modified by a polyurethane coating. Thickness of the textile ca 0,4 mm, mass per unit area 460 g/m <sup>2</sup> . The textile was fixed on a metal frame with a ventilated cavity of width 150 mm between textile and backing boards.					
Date of receipt of the sample: 2005-11-16		Sampling: The samples were delivered by the sponsor			
Date of realization of tests: 2005-12-15					
TEST METHOD: ČSN EN 13823					
Conditioning: From 11-21 till 12-15 according to the ČSN EN 13238					
<b>MEASURED VALUES AND TEST RESULTS</b>					
Test specimen no.	1	2	3	∅	Expanded uncertainty
Date of test	12-15	12-15	12-15		
LFS > edge	no	no	no	no	(-)
FIGRA <sub>0,2 MJ</sub> [W/s]	0	0	0	0,0	(-)
FIGRA <sub>0,4 MJ</sub> [W/s]	0	0	0	0,0	(-)
THR <sub>600 s</sub> [MJ]	0,5	0,7	0,5	0,6	0,1
SMOGR <sub>A</sub> [m <sup>2</sup> /s <sup>2</sup> ]	0	0	0	0,0	(-)
TSP <sub>600 s</sub> [m <sup>2</sup> ]	15,3	13,2	16,0	14,8	1,7
Flaming droplets/particles	no	no	no	no	(-)
Time of flaming [s]	(-)	(-)	(-)	(-)	(-)
Behaviour during the tests: The textile did not lose consistency, it lost the silver colouring in an impact area of the ignition source only.					

**Conclusion:**

The mentioned expanded uncertainty is obtained by multiplying the standard uncertainty by a coverage factor  $k=2$ , which corresponded to a level of confidence of 95 %.

The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing. The protocol shall not be reproduced except in full without the written approval of the testing laboratory.

Responsible person: Vít Slaboch

Date: 2005-12-16



Annotation:

(-): data was not determined/measured

Appendixes:

Appendix no. 1: The photograph of the exposed surface of long wing

Appendix no. 2: The photograph of the exposed surface of short wing

Appendix no. 3: The graphs of the measured and calculated values

