



**® TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague, SOE**

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán • Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body • Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

**Notified Body 1020**  
**Branch 0700 – Ostrava**

# REPORT

**on the assessment of performance**

according to the Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011  
(the Construction Products Regulation or CPR), Art. 1.4 of the Annex V (system 3)

**No. 1020-CPR-070059215**

Trade name:

**Fibre-cement corrugated sheets (painted or grey) NT B-1-Y, L x 1130 x 5.8**

Manufacturer:

**LTD IVANO-FRANKIVSK-DAH**

INo: 43632293  
Address: 77422, Ivano-Frankivsk region, Tysmenytsia district,  
v. Yamnytsia, N. Yaremchuk st., apt. 2/1, Ukraine  
Plant: LTD IVANO-FRANKIVSK-DAH  
Address: 77422, Ivano-Frankivsk region, Tysmenytsia district,  
v. Yamnytsia, N. Yaremchuk st., apt. 2/1, Ukraine  
Order: Z070200217

Number of report pages including title-page: 3

Number of Annexes: 4

The person taking responsibility for the content of this report:

**Vladimír Plaček Ph.D.**  
Head Assessor

The person taking responsibility for the correctness of this report:

Stamp of the Notified Body 1020

Ostrava, 6 April 2021



**Vojtěch Šebek**  
Deputy Manager of the Notified Body 1020

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Technical and Test Institute for Construction Prague, Branch 0700-Ostrava, U Studia 278/14, 700 30 Ostrava, Czech Republic  
Tel.: 595 707 201, Internat.: +420 595 707 201, e-mail: sebek@tzus.cz, www.tzus.cz, Bank Name: ČSOB. a.s., branch office, Praha 1,  
Jindřišská 2, Czech Republic, Account Number: 579195563/0300, INO: 000 15679, VAT: CZ00015679

## 1. Specification of tested subject

Description and intended use of the product: Fibre cement corrugated sheets for roofing, internal wall finishes, external wall and ceiling finishes.

Technical specification: EN 494:2012+A1:2015

Manufacturer: LTD IVANO-FRANKIVSK-DAH

INo: 43632293

77422, Ivano-Frankivsk region, Tysmenytsia district, v. Yamnytsia,  
N. Yaremchuk st., apt. 2/1, Ukraine

Plant: LTD IVANO-FRANKIVSK-DAH

INo: 43632293

77422, Ivano-Frankivsk region, Tysmenytsia district, v. Yamnytsia,  
N. Yaremchuk st., apt. 2/1, Ukraine

## 2. Sampling

Date of sampling: 23/10/2020

Place of sampling: LTD IVANO-FRANKIVSK-DAH

Sampler: LTD IVANO-FRANKIVSK-DAH

Sampling method: no verified data

Transport mode: delivery service

Date of the taking over: 16/11/2020

Sample Registration number: VZ070210118

## 3. The assessment of performance on basis of testing, calculation, tabulated values, descriptive documentation

The assessment was carried out on basis of testing.



### 3.1 The assessment on basis of testing

#### 3.1.1 Reaction to fire

Sample specification: part of PK1-01-21-033-E-0 issued on 15/03/2021.

Assessment according to the test method: EN 13501-1:2018.

Test was carried out by: PAVUS, a.s.

Date of the test ending: PK1-01-21-033-E-0 issued on 15/03/2021.

Another date about the test: not applicable.

Test result:

Characteristic	Obtained data value
	Sample No. VZ070210118
Reaction to fire class	A2-s1, d0

#### 3.1.2 Dangerous substances content

Product is produced with non-asbestos technology according to material safety data sheet provided by manufacturer.

#### 3.1.3 External fire performance

Sheets covered by this European Standard are considered “deemed to satisfy without the need for testing” in relation to the requirements for external fire performance, provided that they meet the definitions given in Commission Decision 2000/553/EC.

## 4. Annexes

### 4.1 Annex 1

Reaction to fire classification report PK1-01-21-033-E-0 issued on 15/03/2021 by PAVÚS, a.s., Czech Republic (4 pages)



Reaction to fire classification report PK1-01-21-033-E-0

Annex 1



**PAVUS, a.s.**

AUTHORIZED BODY 216  
NOTIFIED BODY 1391  
ACCREDITED CERTIFICATION BODY FOR  
PRODUCTS N° 3041

Branch: FIRE TESTING LABORATORY  
VESELÍ NAD LUŽNICÍ  
Čtvrť J. Hybeše 879  
CZ 391 81 Veselí nad Lužnicí  
Czech Republic

Address:  
Prosecká 412/74, 190 00 Praha 9 – Prosek  
Tel.: 286 019 587 Fax: 286 019 590  
Mail to: mail@pavus.cz, http://www.pavus.cz

Phone: +420 381 477 418  
Mail to: vesel@pavus.cz

## REACTION TO FIRE CLASSIFICATION REPORT

Object of classification: Construction products excluding floorings and linear pipe thermal insulation products in accordance with EN 13501-1:2018, clause 11

Classification report No: **PK1-01-21-033-E-0**

Type and product name: Fibre-cement corrugated sheets type NT

Sponsor: **Technický a zkušební ústav stavební Praha, s.p.**  
**Pobočka Ostrava**  
**U Studia 14**  
**700 30 Ostrava - Zábřeh**  
**Czech Republic**

For company: **LTD IVANO-FRANKIVSK-DAH**  
**77422, Ivano-Frankivsk region,**  
**Tysmenytsia district, v. Yamnytsia**  
**N. Yaremchuk st., apt. 2/1,**  
**Ukraine**

Issuing organization: **PAVUS, a.s.**  
**Authorized Body 216**  
**Notified Body 1391**  
**Accredited certification body for products No 3041**  
**- Accreditation issued by Czech Accreditation Institute, Public Service Company**  
**- Certificate of Accreditation No 689/2020**  
**Prosecká 412/74**  
**190 00 PRAHA 9**  
**Order No Z210210052**

Date of issue: 2021-03-15

Copies in total: 3

Copy number: 1

Pages in total: 4

## Reaction to fire classification report PK1-01-21-033-E-0

## Annex 1



## CLASSIFICATION REPORT No PK1-01-21-033-E-0

Page 2 of 4

## 1 INTRODUCTION

- 1.1 This classification report defines the classification assigned to *Fibre-cement corrugated sheets type NT* in accordance with the procedures given in EN 13501-1:2018.
- 1.2 This classification report has 4 pages and it can be used or reproduced as a whole only.

## 2 DETAILED INFORMATION ON THE PRODUCT TO BE CLASSIFIED

### 2.1 General

The product *Fibre-cement corrugated sheets type NT* is made by the company firmou LTD IVANO-FRANKIVSK-DAH, 77422, Ivano-Frankivsk region, Tysmenytsia district, v. Yamnytsia, N. Yaremchuk st., apt. 2/1, Ukraine according standard EN 494+A1:2015. It is used for roofing, internal and external wall and ceiling finishes.

### 2.2 Product description

Organic content:	approx. 6 wt. %
Density:	average 1,577 kg/m <sup>3</sup>
Thickness:	5.8 mm
Height of corrugation:	40 mm
Length of corrugation:	150 mm
Coating:	acrylic brown coating with mass per unit area 0.098 kg/m <sup>2</sup>
Composition:	portland cement, cellulose fibers, zeolite, PVA fibers, water

## 3 REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

### 3.1 Reports

Name of the Laboratory Address Accreditation number:	Name of sponsor of the Test Report	Report number Date of issue	Test method
PAVUS, a. s. Veselí nad Lužnicí ATL No 1026	Technický a zkušební ústav stavební Praha, s.p. Pobočka Ostrava U Studia 14 700 30 Ostrava - Zábřeh Česká republika	Pr-21-1.051 2021-03-15	EN 13823:2020 EN 494+A1:2015
		Pr-21-1.009 2021-02-02	EN ISO 1716:2018
		Pr-21-1.010 2021-02-01	

## Reaction to fire classification report PK1-01-21-033-E-0

## Annex 1



## CLASSIFICATION REPORT No PK1-01-21-033-E-0

Page 3 of 4

## 3.2 Results

Test method acc.	Parameter	Number of tests	Results	
			Continuous parameter-mean	Compliance with parameters
EN ISO 1716 Corrugated sheets – substantial component	PCS <sup>1)</sup> (MJ/kg)	3	0.58	≤ 3 (A2)
EN ISO 1716 acrylic coating – external non-substantial component	PCS <sup>1)</sup> (MJ/m <sup>2</sup> )	3	2.03	≤ 4 (A2)
EN ISO 1716 product as whole	PCS <sup>1)</sup> (MJ/kg)	-	0.78	≤ 3 (A2)
EN 13823	FIGRA <sub>0,2 MJ</sub> (W/s)	3	36.2	≤ 120 (A2)
	THR <sub>600s</sub> (MJ)		0.4	≤ 7,5 (A2)
	LFS < edge of specimen		-	ano (A2)
	SMOGR <sub>A</sub> (m <sup>2</sup> /s <sup>2</sup> )		1.6	≤ 30 (s1)
	TSP <sub>600s</sub> (m <sup>2</sup> )		19.6	≤ 50 (s1)
	non-occurring of flaming droplets/particles		-	ano (d0)

1) Identification of the gross heat of combustion according to EN ISO 1716:2018 is Q<sub>PCS</sub>.

## 4 CLASSIFICATION AND FIELD OF APPLICATION

## 4.1 Classification references

This classification was carried out in conformity with EN 13501-1:2018.

## 4.2 Classification

The product *Fibre-cement corrugated sheets type NT* in relation to its reaction to fire behaviour is classified:

**Reaction to fire class: A2-s1,d0**

## 4.3 The field of application

This classification is valid for the following product parameters:

Organic content: approx. 6 wt. %

Density: (1,577 ± 150) kg/m<sup>3</sup>

## Reaction to fire classification report PK1-01-21-033-E-0

Annex 1



CLASSIFICATION REPORT No PK1-01-21-033-E-0

Page 4 of 4

Thickness: 5.8 mm  
 Coating: acrylic brown coating with mass per unit area 0.098 kg/m<sup>2</sup>  
 with PCS = 2.03 MJ/m<sup>2</sup>  
 Composition: cannot be changed

The classification according to EN 494 + A1 also applies to fibre-cement corrugated sheets:

- with a different profile, with a wave height  $\geq 40$  mm
- with a different shape of the end corrugation
- with another overlap of the horizontal joint
- with a thickness  $\geq 5.8$  mm
- with the tested coating or with coatings having no difference in the organic component itself and with equal or less organic content (related to the mass in dried condition as in end use application) or with equal or less PCSs value per unit area (according to EN ISO 1716)
- attachment to a wooden structure or structures of reaction to fire class A1 by means of reaction to fire class A1
- without insulation or with insulation material of class A1, A2-s1, d0

## 5 RESTRICTIONS

This classification is valid unless the conditions, under which it was issued, have been changed (i.e., until the materials used, the composition or design of the product or the technical regulations relating to the product change).

The sponsor may request the issuing authority to review the influence of changes on the classification validity.

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

Elaborated by:

Lenka SOBOTOVA

Fire testing laboratory

PAVUS, a.s.  
 Autorizováno dle zákona AQ 308  
 391 B1 Všeobecné požární zkoušky

Approved by:

Jan TRIPES

