

**Mfpa Leipzig GmbH**

Gesellschaft für Materialforschung  
und Prüfungsanstalt für  
das Bauwesen Leipzig mbH

Testing, inspection and  
certification  
body for building materials,  
products and systems

Accredited in accordance with the  
State Building Code (SAC02) and  
notified in accordance with the  
Construction Products Regulation  
(NB 0800)

Division III:  
Structural Fire Protection  
Head of Division:  
Dipl.-Ing. Michael Juknat  
Phone: +49 (0) 341-6582-134  
Fax: +49 (0) 341-6582-197  
brandschutz@mfpa-leipzig.de

Team 3.1  
Fire Behaviour of Building  
Products

Contact person:  
Dipl.-Ing. (FH) R. Pusch  
Phone: +49 (0) 341-6582-255  
r.pusch@mfpa-leipzig.de

**General appraisal certificate  
no. P-SAC02/III-885**

from 20 March 2023

First copy

**Subject matter:** Rigid polyurethane foam in non-refillable pressure cans  
designated as  
"B1 Foam"

**corresponding to** the administrative regulation of the Saxon State Ministry  
for Regional Development on the validity of the technical  
building regulations (VwV TB),  
dated 6 January 2021 (SächsABl. [Official Journal of  
Saxony] 3/2021 p. 52), and the appendix to paragraph I  
of the VwV TB dated 6 January 2021  
part C3, ser. no. C 3.4:  
Building materials with requirements regarding their  
reaction to fire only  
- which must be hardly inflammable, except floorings

**Applicant:** Novatech International N.V.  
Industrielaan 5B  
2250 Olen  
Belgium

**Date of issue:** 20 March 2023

**Valid until:** 12 February 2028

**Person in charge:** Dipl.-Ing. (FH) Rüdiger Pusch

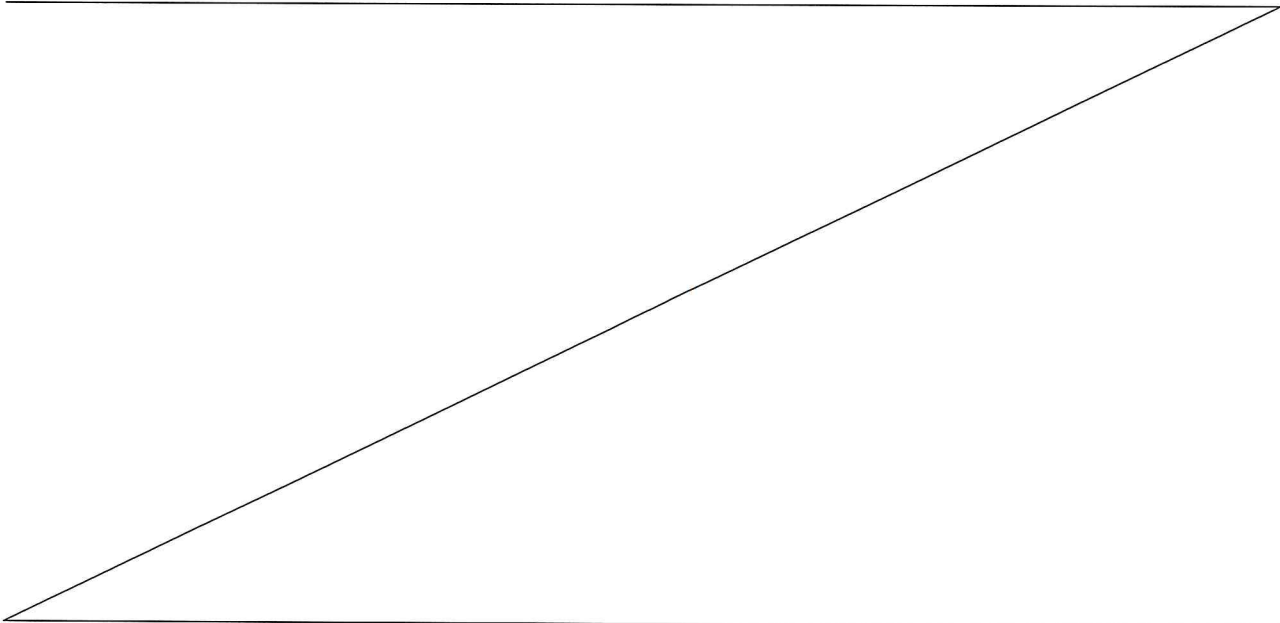
On the basis of this general appraisal certificate, the aforementioned subject  
matter can be used in accordance with the state building codes.

This document consists of 6 pages.  
In case of doubt the German version shall apply.

This general appraisal certificate replaces the general appraisal certificate  
P-SAC02/III-885 by Mfpa Leipzig GmbH from 02 May 2018.

This document may only be copied and published in an unabridged form. The German document with original signatures and the  
original seal of the authorised signatory is the legally binding version. The terms and conditions (T&C) of Mfpa Leipzig GmbH  
apply.

## **A General provisions**

- (1) The general appraisal certificate proves the applicability of the building product as defined by the state building codes.
  - (2) The general appraisal certificate does not replace the statutory permits, approvals and certificates prescribed for building projects.
  - (3) The general appraisal certificate is issued without prejudice to third-party rights, in particular private property rights.
  - (4) The manufacturer and distributor of the building product must provide the user of the building product with copies of the general appraisal certificate, without prejudice to any further regulations in the "Special provisions" and point out that the general appraisal certificate must be present at the place of use. The authorities involved must be provided with copies of the general appraisal certificate on request.
  - (5) The general appraisal certificate may only be copied in its entirety. Any publication in extracts requires the consent of the testing authority Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen mbH. Texts and drawings in advertising brochures may not contradict the general appraisal certificate. Translations of the general appraisal certificate must bear the note: "Translation of the original German version not verified by the Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen Leipzig mbH".
  - (6) The general appraisal certificate may be cancelled after issue. The provisions of the general appraisal certificate can be subsequently supplemented and amended, in particular if this is required due to new technical findings.
- 
- 
- A large diagonal line is drawn across the lower half of the page, extending from the bottom left corner towards the top right corner, crossing the horizontal line above it.

## **B Special provisions**

### **1 Subject matter and scope of the general appraisal certificate**

#### **1.1 Subject matter**

The general appraisal certificate applies to the production and use of the one-component, self-expanding rigid polyurethane foam in non-refillable pressure cans which is used as an assembly foam for foaming using a foam gun and is designated as “B1 Foam” (subsequently referred to as assembly foam) as a hardly inflammable building material (building material class DIN 4102-B1) in accordance with the standard DIN 4102-1:1998-05.

The building product does not produce flaming droplets/particles as defined by the standard DIN 4102-1.

#### **1.2 Scope**

1.2.1. The general appraisal certificate applies to the use of the polyurethane assembly foam as an in-situ foam for assembly and filling.

1.2.2. The assembly foam is to be used between solid mineral building materials with bulk densities of  $\geq 1500 \text{ kg/m}^3$  in a thickness (filled joint depth) up to a maximum of 20 mm and a joint width up to a maximum of 30 mm.

The reaction to fire is not verified if the surface of the assembly foam is also painted, laminated or otherwise covered.

1.2.3. The assembly foam must not be exposed to outdoor weather conditions after filling and curing.

1.2.4. The general appraisal certificate only applies insofar as there are requirements arising from the administrative regulation of the Saxon State Ministry for Regional Development on the validity of the technical building regulations (VwV TB), dated 6 January 2021 (SächsABl. 3/2021 p. 52) and the appendix to paragraph I of the VwV TB dated 6 January 2021, part C3, ser. no. C 3.4, that need to be fulfilled.

If there are any requirements with respect to the stability, fall protection, thermal and noise protection of the building product or if there are any advanced requirements regarding fire protection, additional verification is required.

1.2.5. Health and environmental protection are not part of the present general appraisal certificate; if there are any requirements in this regard, additional tests are necessary.

### **2 Provisions for the building product**

#### **2.1 Properties and composition**

2.1.1. The one-component rigid polyurethane foam has to be made of MDI, polyester polyol and propellant.

The colour of the assembly foam has to be blue.

2.1.2. After foaming and curing, the assembly foam has to have a bulk density of approx.  $13.5 \text{ kg/m}^3$ .

2.1.3. The assembly foam which is used to fill joints has to meet the requirements for hardly inflammable building materials (building material class DIN 4102-B1) as per the standard DIN 4102-1:1998-05.

2.1.4. The chemical composition of the assembly foam has to comply with the specifications filed with MFPA Leipzig GmbH. Changes are subject to the approval of MFPA Leipzig GmbH.

2.1.5. Basic test documents

The description of the performed tests and the presentation of the results can be found in the test reports:

PZ III/08-045 by MFPA Leipzig GmbH dated 16/10/2008,

ÜB 3.1/18-200-2 by MFPA Leipzig GmbH dated 05/07/2018,

ÜB 3.1/19-112-3 by MFPA Leipzig GmbH dated 23/04/2019,

ÜB 3.1/19-112-4 by MFPA Leipzig GmbH dated 23/04/2019,

ÜB 3.1/20-151-2 by MFPA Leipzig GmbH dated 13/05/2020,

ÜB 3.1/21-196-2 by MFPA Leipzig GmbH dated 06/10/2021,

ÜB 3.1/22-235-2 by MFPA Leipzig GmbH dated 01/08/2022.

## 2.2 Production and marking

### 2.2.1 Production

For the production of the building product, the provisions of section 2.1 must be observed.

### 2.2.2 Marking

The building product must be marked by the manufacturer with the mark of conformity (Ü mark) in accordance with the ordinances of the German federal states which regulate marks of conformity. Marking may only be carried out if the requirements of section 2.3 are met.

The Ü mark has to be on the building product or its packaging (which includes package inserts) or, if this is not possible, on the delivery note.

The building product, packaging, package insert or delivery note must bear the following information:

- Product name
- Mark of conformity (Ü mark) including
  - o Manufacturer's name
  - o Number of the general appraisal certificate: P-SAC 02/III-885
  - o Logo or name of the certification body
- Manufacturing plant

Reaction to fire: Building material class, hardly inflammable (DIN 4102-B1) between solid, mineral substrates.

## **2.3 Certificate of conformity**

### **2.3.1 General**

The compliance of the building product with the provisions of the present general appraisal certificate has to be confirmed for each manufacturing plant by a certificate of conformity based on factory production control and regular third-party monitoring including an initial inspection of the building product according to the following provisions.

The manufacturer of the building product must commission a notified certification body and an authorized inspection agency which are approved for this purpose with the issuance of the certificate of conformity and with third-party monitoring including the product tests which are to be performed.

### **2.3.2 Factory production control**

Factory production control should be set up and carried out at this production plant according to DIN 18200:2018-09, guaranteeing that the building product is consistently manufactured and composed in accordance with section 2.1. Factory production control means the continuous monitoring of the production by the manufacturer to ensure that the produced building product complies with the provisions of the present general appraisal certificate.

For factory production control, the “Richtlinien zum Übereinstimmungsnachweis schwerentflammbarer Baustoffe (Baustoffklasse DIN 4102-B1) nach allgemeiner bauaufsichtlicher Zulassung” [Guidelines for the certificate of conformity for flame-resistant building materials (building material class DIN 4102-B1) according to the general appraisal certificate]<sup>1</sup> as amended from time to time must be observed.

### **2.3.3 External monitoring**

In each manufacturing plant, the factory production control is to be checked regularly, at least once a year, by third-party monitoring.

The “Richtlinien zum Übereinstimmungsnachweis schwerentflammbarer Baustoffe (Baustoffklasse DIN 4102-B1) nach allgemeiner bauaufsichtlicher Zulassung”, as amended from time to time, must be observed when carrying out monitoring.

As part of third-party monitoring, an initial inspection of the building product has to be performed. During third-party monitoring, samples for sample testing are to be taken. Sampling and tests are to be performed by the approved inspection agency.

The results of the certification and third-party monitoring are to be kept on file for at least five years. They have to be presented to the competent supreme building control authority by the certification body or the inspection body on request.

---

<sup>1</sup> The “Richtlinien zum Übereinstimmungsnachweis schwerentflammbarer Baustoffe (Baustoffklasse DIN 4102-B1) nach allgemeiner bauaufsichtlicher Zulassung” were published in the “Mitteilungen des Deutschen Instituts für Bautechnik” [Communications by the German Institute for Building Technology] dated 1 April 1997.

### **3 Provisions for the design**

- 3.1. The provisions in sections 1.2 and 2.1 are to be observed.
- 3.2. The assembly foam is to be used between non-flammable building panels or solid mineral substrates with a bulk density  $\geq 650 \text{ kg/m}^3$  and a thickness  $\geq 11 \text{ mm}$  or a bulk density  $\geq 1500 \text{ kg/m}^3$  and a thickness  $\geq 6 \text{ mm}$  according to DIN 4102-16:2015-09 in a maximum thickness (filled joint depth) of 20 mm and a maximum joint width of 30 mm.
- 3.3. The reaction to fire is not verified if the assembly foam is also painted, laminated or otherwise covered.
- 3.4. The assembly foam must not be exposed to outdoor weather conditions after filling and curing.

### **4 Legal basis**

- 4.1. This general appraisal certificate is issued based on sec. 19 of the building code for the state of Saxony (SächsBO) in the version from the publication dated 11 May 2016, last amended by the law of 20 December 2022 (SächsGVBl. [Saxon Gazette of Laws and Ordinances] p. 705), and based on the administrative regulation of the Saxon State Ministry for Regional Development on the validity of the technical building regulations (VwV TB), dated 6 January 2021 (SächsABl. 3/2021 p. 52) and the appendix to paragraph I of the VwV TB dated 6 January 2021, part C3, ser. no. C 3.4.
- 4.2. Corresponding legal bases are contained in the state building codes of the other German federal states.

### **5 Legal remedies**

- 5.1. A protest can be lodged against this general appraisal certificate within one month of its receipt.
- 5.2. The protest must be lodged in writing or for record to the Managing Director of Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen Leipzig mbH, Hans-Weigel-Straße 2b, 04319 Leipzig, Germany.
- 5.3. The time at which the letter of protest is received by the Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen Leipzig mbH is decisive for the timeliness of the protest.

Leipzig, 20 March 2023

---

Dipl.-Ing. M. Juknat  
Assistant Head of the Testing  
Laboratory

---

Dipl.-Ing. (FH) R. Pusch  
Testing Engineer

---

## Authentication

As a translator for English, Croatian, Serbian and Bosnian, duly sworn and publicly appointed by the President of the Higher Regional Court of Dresden, I hereby certify:

The above translation of the document in German language, the original/a photocopy of which was presented to me, is true and complete.

Ante Pavić

Leipzig, 04 April 2023

