



**INSTYTUT KOLEJNICTWA  
OŚRODEK JAKOŚCI I CERTYFIKACJI**

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AC 128

## CERTIFICATE OF CONFORMITY IK CZ - 025/2020

Name and address of certificate holder:

**NAWI Solutions Sp. z o.o. Sp. K.  
ul. Mickiewicza 29, 40-085 Katowice**

Name and address of the manufacturer:

**NAWI Solutions Sp. z o.o., Sp. K.  
Tułowice Małe 2/4, 49-130 Tułowice**

Name of the product:

**Polyester-glass laminate with a varnish coating.**

Type/variety

series of types 5 [mm] thick consisting of:

- Büfa Firestop 8175-W-1 resin,
- Büfa Firestop GC H285 gel coat,
- Metox 50W peroxide,
- emulsion mat 450 g,
- NUVOVERN DS varnish. ÜBERZUNG.

The product meets the requirements of:

**PN-EN 45545-2+A1:2015-12** Railway applications – Fire protection on railway vehicles – Part 2: Requirements for materials and elements in the scope of fire properties according to: **R1** and **R7** at the Hazard Level **HL1** and **HL2** in the field of fire safety materials for:

- vehicles according to design category: **N, A, D** and **S**, which are in operation category no.: **1** and **2**,
- vehicles according to design category: **N, A** and **D**, which are in operation category no.: **3**.

**N** (standard vehicles), **A** (vehicles forming part of an automatic train having no emergency trained staff on board), **D** (double decked vehicles) and **S** (sleeping and couchette vehicles),

- 1 - vehicles for operation in infrastructure in which they can be stopped with a minimum delay and can immediately reach a safe area,
- 2 - vehicles for operation on underground sections in tunnels and / or on structures raised above the terrain, with the possibility of side evacuation and in which there are rescue stations or stations that provide a safe place for passengers, accessible after a short driving time,
- 3 - vehicles for use on underground sections in tunnels and / or on structures raised above the terrain with the possibility of side evacuation and in which there are rescue stations or stations, which provide a safe place for passengers, accessible after a long driving time.

In accordance with the report of tests conducted by:

**Materials and Structure Laboratory – Railway Institute Warsaw, Poland**

Test report:

**Test report No. nr IK.LKA98.A165/19 of 15.10.2019.**

Scope of utility:

**Glass-polyester laminate with a varnish coating for the construction of the skeleton of the box and internal lining in rolling stock trams and buses.**

The right to use the Certificate of Conformity is valid exclusively for the copies of products of the same parameters as specimen (specimens) subjected to scrutiny and complying with mentioned standard.

Certificate valid from **25.05.2020** to **24.05.2023**

Certification according to Certification Program **PCW-02**

KIEROWNIK  
OŚRODKA JAKOŚCI I CERTYFIKACJI

*mgr inż. Krzysztof Szepka*  
The Head of Quality and Certification  
Centre



ZASTĘPCA DYREKTORA  
DS. INTEROPERACYJNOŚCI KOLEI

*dr inż. inż. Marek Panik*

Director of  
Railway Institute

**Warsaw, 25<sup>th</sup> of May 2020**