Translation from Polish into English

Instytut Techniki Budowlanej
(Building Research Institute)
Science and Expertise for the Construction Industry of Tomorrow

REACTION TO FIRE CLASSIFICATION: according to PN-EN 13501-1:2019

Contract No. 01901/24/R70NZP

Client:	**Profile VOX Sp. z o.o. Sp. k.** **ul. Gdyńska 143** **62-004 Czerwonak**
Issued by:	**Fire Research Department** **Building Research Institute** **ul. Filtrowa 1** **00-611 Warsaw**
European Notified Body:	**No. 1488**
Product name:	**PVC-U SOLVO facade panels with finishing elements**
Classification report no:	**01901.3/24/R70NZP**
Issue No.:	**1**
Date of release:	**05 February 2025**

This classification report consists of three pages and a two-page appendix. It may only be used or reproduced in its entirety.

1. Introduction

This classification report defines the classification of PVC-U SOLVO facade panels with finishing elements in accordance with the procedures specified in PN-EN 13501-1:2019-02 and PN-EN 13245-2:2009/AC:2010.

2. Product details

2.1 General provisions

PVC-U SOLVO panels used for facades with PVC-U finishing elements for use in the construction industry.

Product description

The product is described below.

PVC-U SOLVO facade panel with finishing elements
Maximum width: 188 mm
Panel grammage: up to 8.7 kg/m^2
See appendix for detailed drawings and markings.
SOLVO facade panels with finishing elements are manufactured by Profile VOX sp. z o.o. sp. k., ul. Gdyńska 143, 62-004 Czerwonak, Poland.

3. Test reports and test results underlying the classification

3.1 Test reports

Laboratory name	Client name	Test report No.	Test method
ITB Fire Research Laboratory	Profile VOX sp. z o.o. sp. k.	LZP05-01901/24/R70NZP	PN-EN ISO 11925-2:2010+AC:2011
		LZP04-01901/24/R70NZP	PN-EN 13823+A1:2022-12

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Constant parameter - mean value (m)	Compliance with the parameter
PN-EN ISO 11925-2:2010+AC:2011 Surface and edge flame attack Exposure time: 30 s	Flame spread $F_s \leq 150$ mm	6	(–)	Y
	Flaming droplets/particles		(–)	N
PN-EN 13823+A1:2022-12	FIGRA $_{0.2MJ}$	3	586.0	(–)
	FIGRA $_{0.4MJ}$		586.0	(–)
	LFS < edge		(–)	Y
	THR_{600s} [MJ]		49.6	(–)
	SMOGRA [m^2/s^2]		258.8	(–)
	TSP_{600s} [m^2]		2930.2	(–)
	Flaming droplets/particles		(+)	Y

(–): not applicable
Y: YES
N: NO

4 Classification and its scope of application

4.1 Classification reference

Classification has been determined in accordance with the criteria given in PN-EN 13501-1:2019-02.

4.2 Classification

In terms of reaction to fire, the product (PVC-U SOLVO facade panel with finishing elements) is classified as follows:

D

In terms of smoke growth, the product is additionally classified as follows:

s3

In terms of the presence of flaming droplets/particles, the product is additionally classified as follows:

d2

For construction products other than flooring the classification format in terms of reaction to fire is as follows:

Fire performance		Smoke production			Flaming droplets	
D	**-**	**s**	**3**	**,**	**d**	**2**

i.e. D-s3,d2

Reaction to fire classification: D-s3,d2

4.3 Scope of application

This classification is valid for the following product parameters:

- Product described in Section 2 of this classification report.

This classification is valid for the following end uses:

- PVC-U SOLVO facade panel with finishing elements as described in Section 2 of this classification report installed directly to or at any distance from a substrate with a reaction to fire class of at least A2-s3,d0 acc. to PN-EN 13501-1.
- PVC-U SOLVO facade panel with finishing elements as described in Section 2 of this classification report mechanically installed in any arrangement to a substructure made of wood of European origin or to a metal substructure.

5 Limitations

The classification remains valid as long as:

- the test method is not changed,
- the product standard is not changed (does not apply to the date of the standard),
- changes in design and materials do not go beyond the scope of application defined in section 4.3.

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The classification determined for the product and given in this report is relevant for the manufacturer's declaration of performance (until 1 July 2013 - the declaration of conformity) within the system 3 of assessment and verification of constancy of performance (until 1 July 2013 - the system of conformity assessment) and CE marking in accordance with the harmonized technical specification of the product and the Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products and repealing Council Directive No. 89/106/EEC.

The manufacturer has submitted the declaration, which is kept on file. It confirms that there are no special processes, procedures or steps in the manufacturing process of the product (e.g. addition of retardants, reduction of organic content or addition of fillers) that are used to improve the fire performance in order to obtain the classification. Consequently, the manufacturer declares that the conformity assessment system 3 is appropriate.

Therefore, the testing laboratory does not participate in collecting samples for testing, although it is in possession of information, provided by the manufacturer, necessary to enable traceability of the test samples.

This classification document is not an approval or certification of the product.

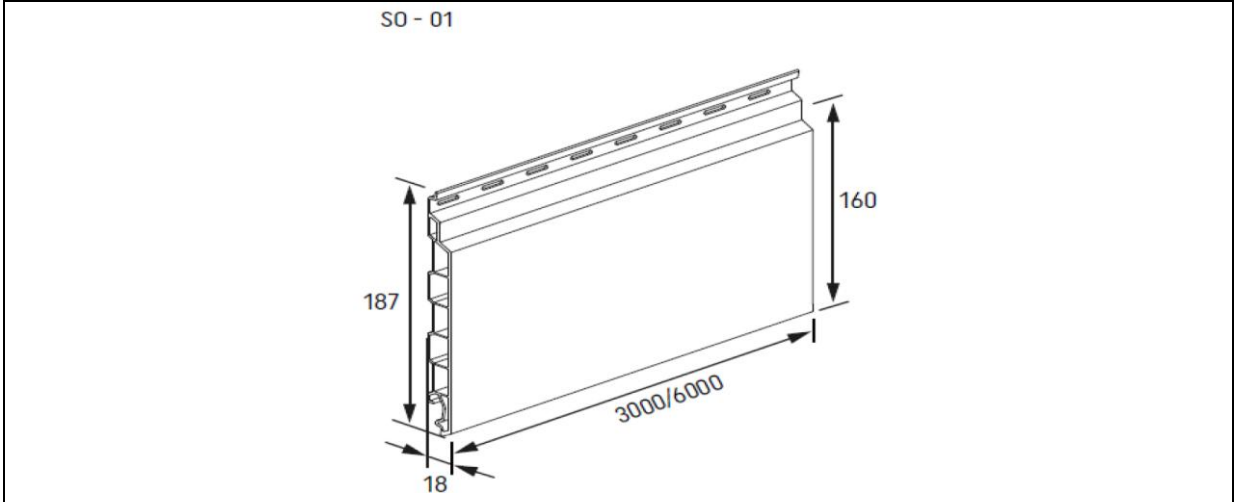
Signed by

ŁukaszJarochowicz
signed digitally

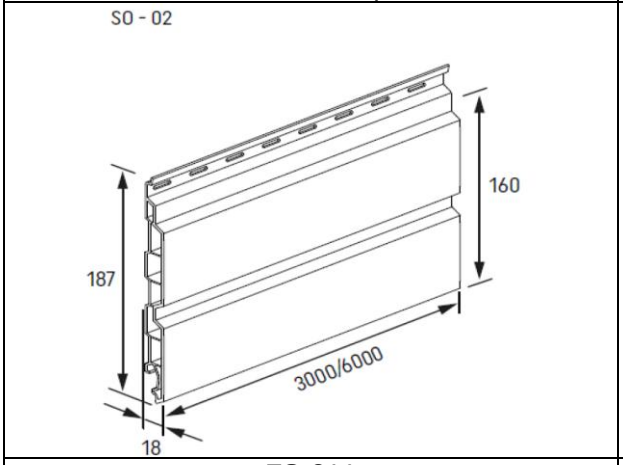
Accepted by
Manager, Fire Research Department

dr inż. Bartłomiej K. Papis
signed digitally

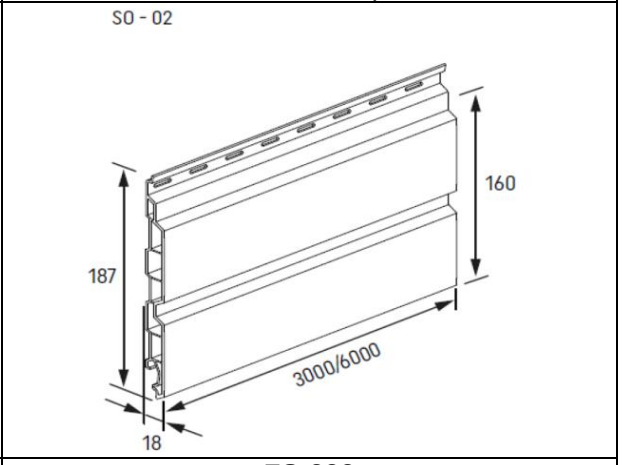
SOLVO SO-01 panel



SOLVO SO-02 panel



SOLVO SO-03 panel



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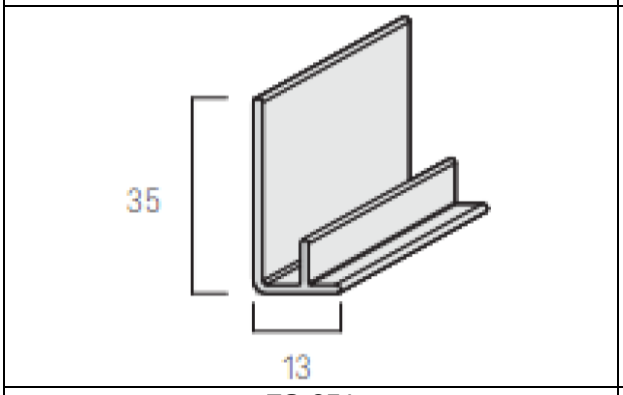

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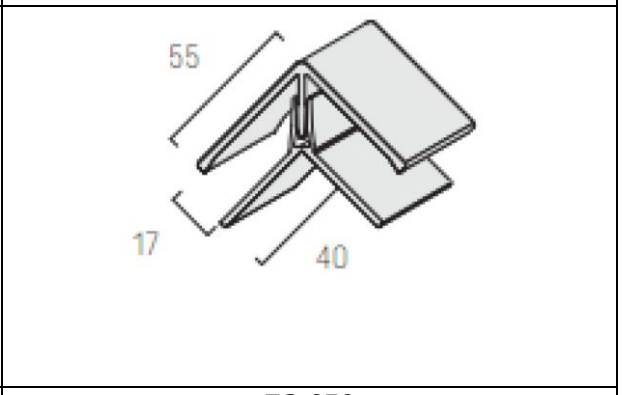

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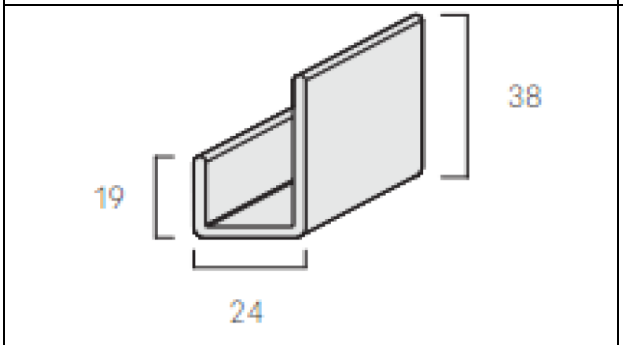

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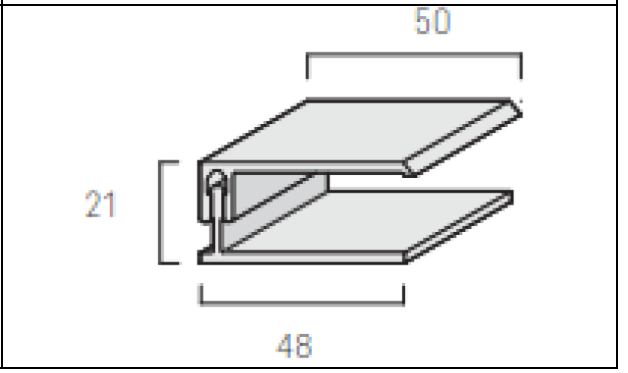

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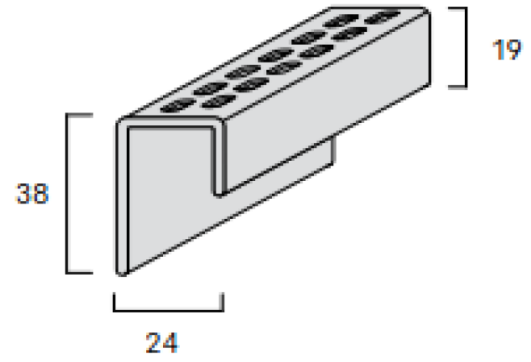	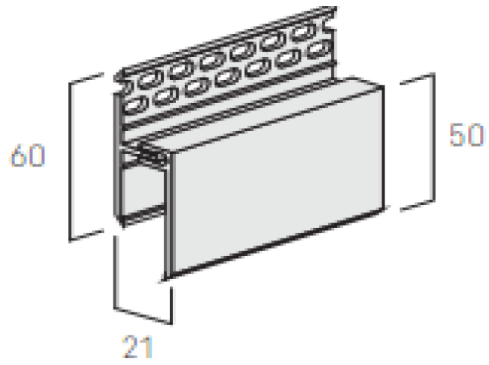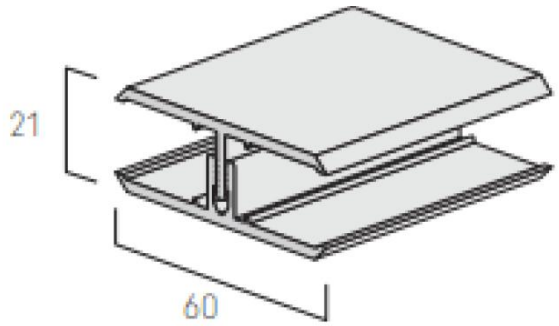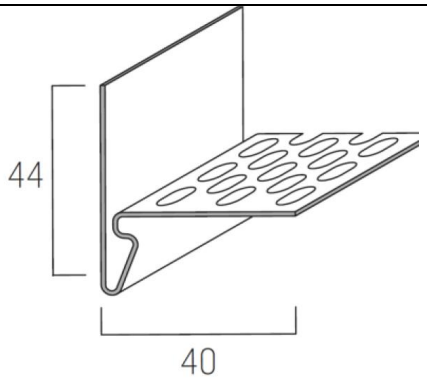
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