

REACTION TO FIRE CLASSIFICATION REPORT according to PN-EN 13501-1:2019-02

Contract No. 01901/20/R38NZP

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
Product name:	FS-304 film coated facade panel with finishing elements
Classification report no:	01901.1/20/R38NZP
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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 FS-304 film coated facade panel with finishing elements in accordance with the procedures specified in PN-EN 13501-1:2019-02.

2. Product details

2.1 General provisions

FS-304 film coated facade panels with PVC-U finishing elements - a set of strip elements made of unplasticized expanded polyvinyl chloride (PVC-UE) with a co-extruded layer of PVC-U for use in the construction industry.

Product description

The product is described below.

FS-304 film coated facade panel with finishing elements Maximum width: 374 mm Film density: 1.350 kg/m ³ See appendix for detailed drawings and markings. The FS-304 film coated facade panels with finishing elements are manufactured by Profile VOX Sp. z o.o. Sp. k., ul. Gdyńska 143, 62-00 Czerwonak, Poland.
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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.	LZP04-01901/20/R38NZP	PN-EN ISO 11925-2:2010
		LZP03-01901/20/R38NZP	PN-EN 13823+A1:2014

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 Surface and edge flame attack Exposure: 30 s	Flame spread $F_s \leq 150$ mm	6	(-)	Y
	Flaming droplets/particles		(-)	N
PN-EN 13823+A1:2014	FIGRA _{0.2MJ}	3	477.1	(-)
	FIGRA _{0.4MJ}		474.8	(-)
	LFS < edge		(-)	Y
	THR _{600s} [MJ]		28.4	(-)
	SMOGRA [m ² /s ²]		288.0	(-)
	TSP _{600s} [m ²]		2,195.9	(-)
	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 PN-EN 13501-1:2019-02.

4.2 Classification

In terms of reaction to fire, the product described in Clause 2 above (FS-304 film coated facade panel with finishing elements) is classified as follows:

D

In terms of smoke emission, 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 and linear products for thermal insulation of ducts, the classification format in terms of reaction to fire is as follows:

Fire performance		Smoke emission			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 to the following end uses:

- FS-304 film coated facade panel with finishing elements installed directly to or at any distance from a substrate with a reaction to fire class of at least A2-s1,d0 acc. to PN-EN 13501-1:2019-02.
- FS-304 film coated facade panel with finishing elements 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 or the product technical approval 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.

This classification report has been issued in 3 copies (2 for the Client, 1 for ITB's Fire Research Department archives). Certified-true copies may be issued by ITB's Fire Research Department only at the request of the Report Owner.

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

Łukasz Jarołowicz

Accepted by

Manager, Fire Research Department
dr inż. Bartłomiej K. Papis