



quality in construction

Building Research Institute

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CLASSIFICATION REPORT REACTION TO FIRE according to PN-EN 13501-1+A1:2010

Contract nr: 2342/14/Z00NP

Customer:	Profile Vox Sp. z o.o. Sp. k. 143 Gdynska Str. 62-004 Czerwonak
Prepared by:	Fire Research Department Building Research Institute 1 Filtrowa Str. 00-611 Warszawa
Product name:	S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 PVC-U wall panels with PVC-U finishing elements: S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20
Classification report №:	2342.4/14/Z00NPEZ (English version of 2342.4/14/Z00NPZ)
Issue nr: 1	Copy № 1
Date of issue:	2015-10-16

This classification report consists of five pages and may only be used or reproduced in its entirety.

1. Introduction

This classification report defines the classification assigned to **S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 PVC-U wall panels with PVC-U finishing elements: S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20** in accordance with procedures given in PN-EN 13501-1+A1:2010.

SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20 in accordance with procedures given in PN-EN 13501-1+A1:2010.

2. Details of classified product

2.1. General

S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 wall panels with PVC-U finishing elements: **S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20** are used in constructions.

2.1 Product description

The product is described below.

S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 wall panels are made from unplasticized poly(vinyl chloride) PVC-U.

- S-01, SX-01, SV-01, SVP-01, SXP-01 panels width: 285 mm
- S-05, SVP-05, SV-05, SX-05, SXP-05 panels width: 283,5 mm
- S-02, SV-02 panels width: 262 mm
- S-07, SV-07, SVP-07 panels width: 340 mm
- S-08, SV-08, SVP-08 panels width: 340 mm
- Panels length: 2,5 – 6 m

Finishing elements: S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20 are made from PVC-U.

PVC-U wall panels with PVC-U finishing elements schematics are included in the Enclosure № 1 for this classification report.

The product standard is PN-EN 13245-2.

Panels and finishing elements are produced by the company Profile Vox Sp. z o.o. S. K., Czerwonak k/Poznanian.

3. Test reports and test results as a basis of the classification

3.1. Test reports

Laboratory	Customer	Test report nr	Test method
Fire Testing Laboratory Building Research Institute	Profile Vox Sp. z o.o. S. K.	LP14-2342/14/Z00NP	PN-EN 13823:2010
		LP21-2342/14/Z00NP	PN-EN ISO 11925-2:2010

3.2. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with the parameter
PN-EN ISO 11925-2 30 s exposure Surface and edge exposure	Flame propagation $F_s \leq 150$ mm	12	(-)	Y
	Flaming droplets/particles		(-)	N
PN-EN 13823	FIGRA _{0,2MJ} [W/s]	3	304,4	(-)
	FIGRA _{0,4MJ} [W/s]		304,4	(-)
	LFS < edge		(-)	Y
	THR _{600s} [MJ]		8,8	(-)
	SMOGR [m ² /s ²]		371,5	(-)
	TSP _{600s} [m ²]		837,6	(-)
	Flaming droplets/particles		(-)	N
(-): not applicable, Y: Yes, N: No				

4. Classification and the field of application

4.1. Reference of the classification

The classification has been carried out in accordance with PN-EN 13501-1+A1:2010.

4.2. Classification

S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 PVC-U wall panels with PVC-U finishing elements: S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20, in relation to its reaction to fire behaviour are classified:

D

The additional classification in relation to smoke production is:

s3

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour		Smoke production			Flaming droplets	
D	-	s	3	,	d	0

i.e.: **D-s3,d0**

Reaction to fire classification: D-s3,d0

4.3 Field of application

This classification is valid for the following parameters: **S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 PVC-U wall panels with PVC-U finishing elements: S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20** described in section 2.

This classification is valid for the following end-use applications:

- **S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 PVC-U wall panels with PVC-U finishing elements: S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20** mounted in horizontal orientation directly on substrates,
- **S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 PVC-U wall panels with PVC-U finishing elements: S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20** fixed mechanically or glued directly to the gypsum plaster board or any substrate with the reaction to fire class at least A2-s3.d0.

5. Limitations

This classification will be valid until:

- The test method remains unchanged,
- Product standard or technical approval remains unchanged,
- Constructional or material modifications do not exceed limits of the field of application defined in 4.3.

This classification report has been issued in 3 copies. Additional approved copies can be issued by Fire Research Department – Building Research Institute under the request of the report's owner only.

The classification defined for the product and given in this report corresponds with the manufacturer declaration of performance - system 3 and CE marking according to the harmonized standard and "Construction products Directive".

The manufacturer declared that during the product formulation process do not occur any special processes, procedures, steps (eg. addition of fire retardants, decreasing of the organic substrates or addition of fillers), which could improve the fire properties of the product and in consequence the higher fire classification. In the consequence the manufacturer declares that the declaration of performance - system 3 is appropriate. The manufacturer declaration is archived.

Resume, the research laboratory does not participate in the sampling, although it has got appropriate information given by the producer to allow the identification of tested samples.

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

Signed

Katarzyna Kaczorek-Chrobak MPhil Eng.

**Head of Fire Development
and Material Testing Division**

Bartłomiej K. Papis, Ph.D. Eng.

Approved

HEAD
Fire Research Department

Paweł Sulik, Ph.D. Civil Eng.

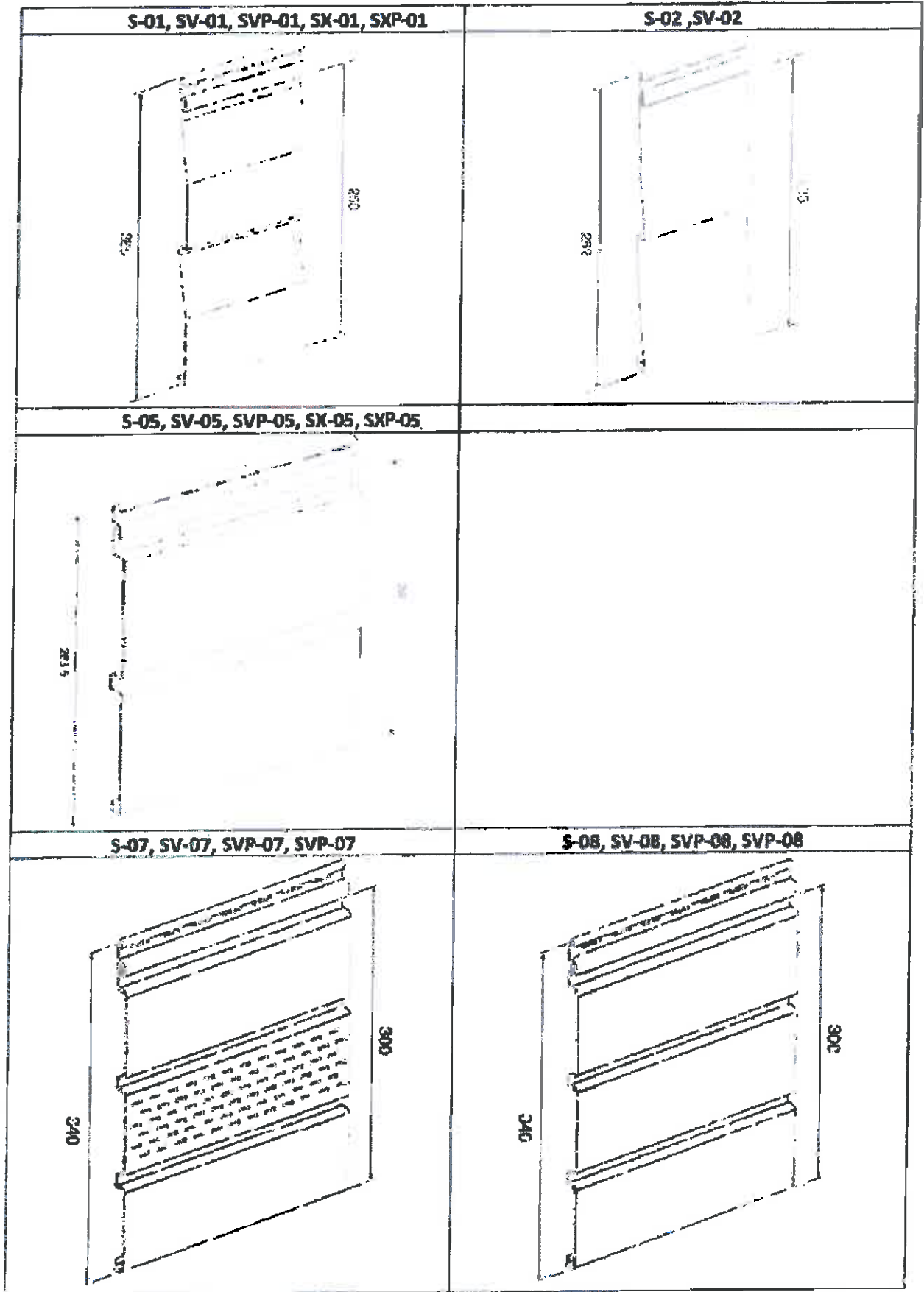


Figure 1 S-01, SV-01, SVP-01, SX-01, S-02, SV-02, S-05, SV-05, SVP-05, SX-05, S-07, SV-07, SVP-07, S-08, SV-08, SVP-08, SXP-01, SXP-05 wall panels schematics





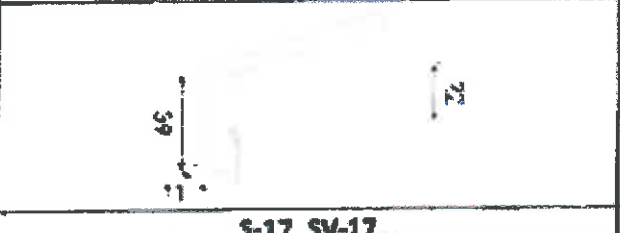
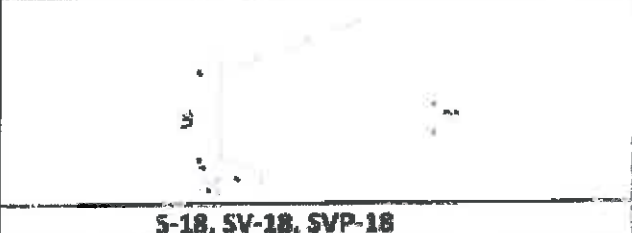

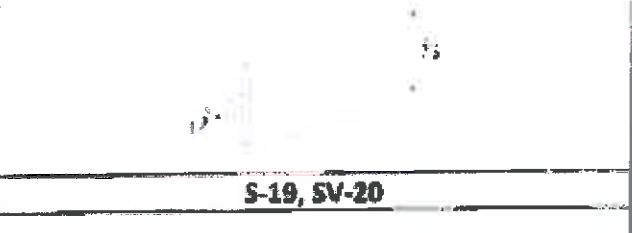


<p align="center">S-11, SV-11</p> 	<p align="center">S-12, SV-12, SVP-12</p> 
<p align="center">S-13, SV-13, SVP-13</p> 	<p align="center">S-14, SV-14, SVP-14</p> 
<p align="center">S-15, SV-15, SVP-15</p> 	<p align="center">S-16, SV-16</p> 
<p align="center">S-17, SV-17</p> 	<p align="center">S-18, SV-18, SVP-18</p> 
<p align="center">S-19, SV-19</p> 	<p align="center">S-19, SV-20</p> 

Figure 2 Finishing elements S-11, SV-11, S-12, SV-12, SVP-12, S-13, SV-13, SVP-13, S-14, SV-14, SVP-14, S-15, SV-15, SVP-15, S-16, SV-16, S-17, SV-17, S-18, SV-18, SVP-18, S-19, SV-19, S-20, SV-20 schematics