No. Report: **3789.3** Date: **17.07.2023**
Client: **EXTRUPLAST S.R.L.**
Product: **PVC window EXTRUPLAST series Arkitek 70**

CLASSIFICATION REPORT
Product: PVC window EXTRUPLAST series Arkitek 70
No. Report: **3789.3**

1. Introduction:

This report refers to the performance regarding reaction to fire, the performance of windows and doors as described in the product standard **EN 14351-1:2006 + A2:2016 – Windows and doors. Product standard, performance characteristics. Part I. Exterior windows and doors for pedestrians.**
This report is prepared in accordance with the procedures of **EN 13501-1:2018 Fire classification of building products and elements. Part 1: Classification using the results of reaction to fire tests.**

Client:	**EXTRUPLAST S.R.L. Str. Petre Dulfu nr.124, Tohat, Ulmeni, Maramures, Romania**
Laboratory test:	**AXA CERT S.R.L.,** Moara Vlasiei, str Agromec nr 3, Jud. Ilfov, Hala C4/5, zona B, Tel/Fax: 0746 268015
Developed by:	**AXA CERT SRL,** Tâncabesti- Snagov -ILFOV Tel/Fax: 0746 268015
Product name:	PVC window, white color, two equal door leaves, tilt and turn left and fixed right, with mullion, **EXTRUPLAST** profile, **Arkitek 70 series,** equipped with thermal insulating glass
Sample code:	**According to test reports**

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2. Product details

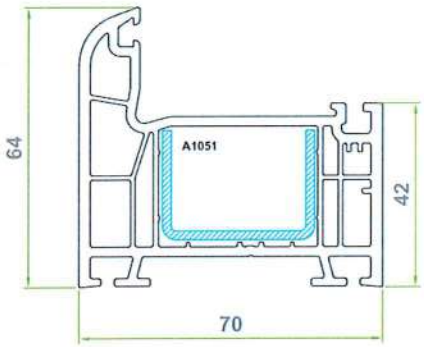
2.1 General

The data was processed in accordance with the sample sheet attached to this test report. The system description is the reference document for this assessment. According to the rules, the system components fall under the full responsibility of the manufacturer.

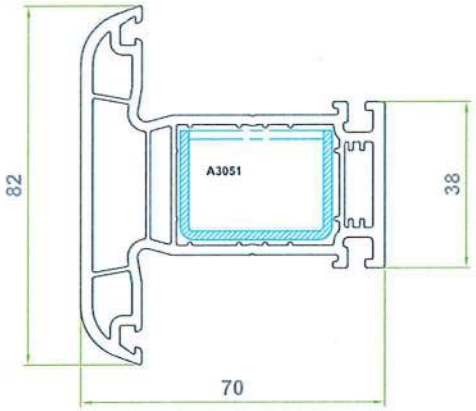
2.2. Product description

2.2.1 Name:PVC window, white color, two equal door leaves, tilt and turn left and fixed right, with mullion, **EXTRUPLAST** profile, **Arkitek 70 series,** equipped with thermal insulating glass, described below.

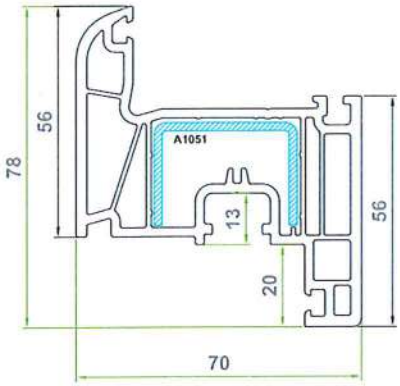
F10 Frame profile



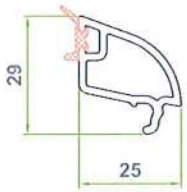
F30 Vertical post profile



F20 Sash profile



F41 Glassbead 24mm



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01.	Client	Name	EXTRUPLAST S.R.L.			
		Address	Tohat, Ulmeni	Str. Petre Dulfu nr.124	Maramureș County	
			Romania	Email:		
02.	Sample type	Window with two door leaves, fixed and tilt and turn				
03.	Profiles	Manufacturer EXTRUPLAST		Arkitek 70mm Series		
04.	Profile code	frame	F10	sash	F20	
		fixed pillar	F30	ramrod	F41	
05.	Profile dimensions	frame	(70 x 64)mm	sash	(70 x 78)mm	
		fixed pillar	(70 x 82)mm	ramrod	(25 x 29)mm	
06.	Reinforcement	frame	(25x35x25x1.5) mm	sash	(25x35x25x1.5) mm	
		fixed pillar	(25x35x1.5)mm	mullion	-	
07.	Gasket	TPE				
08.	Hinge	Type: standard No. pcs: 2				
09.	Glazing	Float + Low-E - 24 mm				
10.	Hardware	ROTO				
11.	Blockers	Type A7012 - 13 - N03 No. pcs.: 3				
12.	Water drainage holes	Interior	Number: 3	Sizes: 5x25 mm		
		Exterior	Number: 3	Sizes: 5x25 mm		
14.	Sizes	Door leaf:	Width	450 mm	Height	1125 mm
		Frame	Width	1000 mm	Height	1200 mm

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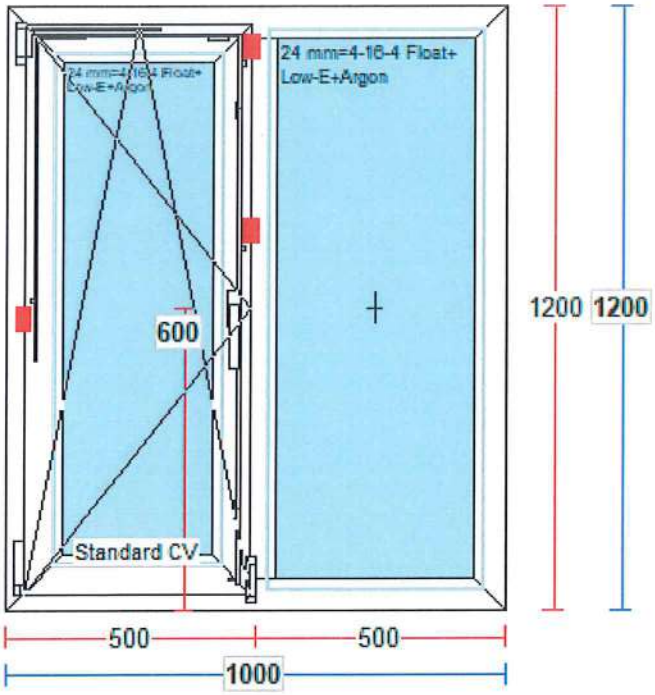
2.2.2 Sample outline:



2.3 Data about the construction of the samples:

- Support and fixing method used: support made of calcium silicate plates
- Fixing: mechanics with equipment fixings
- Joints: not the case
- Orientation: vertical, in front of an open space

Dimensions and number of samples:

- 1pc x (SBI 060.23) sample with dimensions (1000x1200)mm
- 1pc x (SBI 061.23) sample with dimensions (1000x1200)mm
- 1pc x (SBI 062.23) sample with dimensions (1000x1200)mm

Conditioning: The samples were conditioned 24 hours before the test, temperature (23 ± 2)°C and (50 ± 5)% relative air humidity.
Start date: 11.07.2023
Completion date: 12.07.2023

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3.Reports and results on the basis of which the classification is made:

3.1 Test reports:

Laboratory Name	Client / Manufacturer	Report No.	Testing method
S.C. AXA CERT S.R.L.	EXTRUPLAST S.R.L.	3789.2	EN 13823:2020
S.C. AXA CERT S.R.L.	EXTRUPLAST S.R.L.	3789.1	EN ISO 11925-2:2020 (flame exposure for 30s)

3.2 Results

Testing method	Parameters	Number of attempts	Results	
			The mean value of the continuous parameter	Compliance parameters
EN ISO 11925-2:2020 (flame exposure for 30s)	Fs≤ 150 mm	6	(-)	complying
droplets/ ignited particles	Igniting the filter paper		(-)	complying
EN 13823:2020	FIGRA $_{0,2MJ}$(W/s)	3	28.17	complying
	LFS<the edge of the sample		(-)	complying
	THR $_{600\ s}$ (MJ)		2.49	complying
	SMOGRA (m^2/s^2)		12.78	complying
	TSP $_{600s}$ (m^2)		197.59	complying
	Droplets /Ignited particles		None	complying

Note: (-) - not applicable

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In which:

EN 13823:2020 - Reaction to fire tests of construction products. Construction products, except floor coverings, exposed to the thermal action of a single burning object.

EN ISO 11925-2:2020 Fire reaction tests. Flammability of products that come into direct contact with the flame. Part 2. Experiment with the single flame source.

FIGRA $_{0,2MJ}$(W/s) – fire growth rate, using a threshold of 0.2 MJ for THR

FIGRA $_{0,4MJ}$(W/s) – fire growth rate, using a threshold of 0.4 MJ for THR

LFS<edge of the sample – lateral propagation of the flame on the long side (m)

THR $_{600\ s}$ (MJ) - total heat released during 600 s

SMOGRA (m^2/s^2) – smoke growth rate/smoke emission rate.

TSP $_{600s}$ (m^2) – total smoke emission for 600 s

Ignited droplets/particles≤10s - the fall of an ignited droplet/particle, within the given time interval and area, that remains ignited for no more than 10 s after falling.

Ignited droplets/particles>10s - the fall of an ignited droplet/particle, within the given time interval and area, that remains ignited for no more than 10 s after falling.

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4. Classification and scope

4.1 Classification reference

This classification was carried out in accordance with **EN 13501-1:2018**

4.2 Classification:

The product PVC window, white color, two equal door leaves, tilt and turn left and fixed right, with pillar, **EXTRUPLAST** profile, **Arkitek 70 series,** equipped with thermal insulating glass, described below.

in relation to the reaction to fire it is classified:

B

Additional classification in relation to smoke emission:

s2

Additional classification in relation to burning droplets/particles:

d0

The classification format for reaction to fire of construction products, excluding floors and heat-insulating products for linear pipes, is:

Reaction to fire		Smoke emission			Burning droplets	
B	-	s	2	,	d	0

Classification for Reaction to Fire: B - s2, d0

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4.3 Field of application:

The classification refers strictly to the sample tested according to the description in point. 2.2.

This classification can be applied as valid for the product PVC window, white color, two equal door leaves, tilt and turn left and fixed right, with mullion, **EXTRUPLAST** profile, **Arkitek 70 series,** equipped with thermal insulating glass as it is described in point 2.2.

This classification is valid for the following end-use applications:
Exterior windows and doors for pedestrians.

5. Limitations:

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

Therefore, the laboratory did not participate in the sampling of the product for the test, maintaining, however, appropriate references, provided by the manufacturer, for the traceability of the tested samples.

Final note: The test procedures are developed in accordance with the requirements of **EN ISO/IEC 17025:2017.**

Final results are not valid without Appendix 1 Sample Sheet.

The validity of this report is not temporally conditioned, the condition being that the product does not undergo changes.

Laboratory Head,
Eng. Andi PREDA

Technical Director,
Dragos GHEORGHE

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