



CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1: 2007+A1:2009

Sponsor: *MEDIAPRESS S.R.L., bdul. Bucuresti 44, Baia Mare,
Jud. Maramures, Romania*

Manufacturer: *Profile production: Salamander Window & Door Systems S.A.,
Al.Kazimiera Wielkiego 6 A, 87-800 Włocławek Poland
Window production: HOME & OFFICES GLASS DESIGN S.R.L.,
Popesti Leordeni Sos. Olteniei nr.181C, jud. Ilfov, Romania*

Applicant: *AXA CERT S.R.L, Tancabesti Ilfov, Romania, RO 27367700*

Prepared by: *„Center for Testing and European Certification” LTD
2 Industrialna Street, Stara Zagora Bulgaria*

Notified body №: *1871*

Product name: *PVC windows, equipped with double thermal insulating glass,
profiles - System bluEvolution 73*

Classification report №: *1871-CPR-RtF-270*

Issue number: *01*

Date of issue: *12.02.2018*

This classification report consists of 5 pages and may only be used or reproduced in its entirety.



1 Introduction

This classification report defines the classification assigned to *PVC windows, equipped with double thermal insulating glass, profiles - System bluEvolution 73*, in line with the procedures given in EN 13501-1:2007+A1:2009

2 Details of classified product

2.1 General

The product, *PVC windows, equipped with double thermal insulating glass, profiles - System bluEvolution 73*, is defined as building component for closing an opening in a wall or pitched roof that will admit light and may provide ventilation.

2.2 Product description

The product, *PVC windows, equipped with double thermal insulating glass, profiles - System bluEvolution 73* is described below and in the test reports provided in support of classification listed in clause 3.1.

Product description:

Sample type	Window with two leaves, oscilo-folding / fixed
Profiles	Series: System bluEvolution 73
Profile code	Frame: HP 1220 Fixed mullion: HP 3020 Leaf: HP1720 Glazing bead: GP5240
Profiles reinforcement/thickness	Heel: VS1020-1.5mm Fixed pillar: VS3020-1.5mm Leaf: VS1020-1.5mm
Seals	Material: TPE
Hinges	Type: WINDOW number 2
Hardware	ROTO or equivalent MACO, GU, SIEGENIA, WINKHAUS
Glazing	Int. 4 float – 16- ext. 4 float
Water outlet holes	Inside: Number 4; dimensions $\phi 5 \times 30$ mm Outer: Number 3; dimensions $\phi 5 \times 30$ mm
Ventilation systems	Frame: width 1000mm; height 1200mm Leaf: width 447mm; height 1124mm



3 Test reports and test results in support of classification .

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports	Test method / extended application rules & date
<i>CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria</i>	MEDIAPRESS S.R.L., Romania	1420170/12.02.2018	<i>BDS EN ISO 11925-2:2010</i>
<i>CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria</i>	MEDIAPRESS S.R.L., Romania	1420169/12.02.2018	<i>BDS EN 13823:2010+A1:2015</i>

3.2 Test results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
<i>BDS EN ISO 11925-2:2010 (30s exposure surface)</i>	F_s	6	Nil	Compliant
	flaming droplets/particles		None	
<i>BDS EN 13823:2010+A1:2015</i>	FIGRA _{0,2MJ} LFS THR _{600s}	3	22.3 (-) 1.7	Compliant
	SMOGRA TSP _{600s}		15.2 117.9	Compliant
	flaming droplets/particles		No	Compliant



4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

4.2 Classification

The product, *PVC windows, equipped with double thermal insulating glass, profiles - System bluEvolution 73*, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

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 products for thermal insulation of pipes is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	-	s	2	,	d	0

Reaction to fire classification: B – s2, d0



4.3 Field of application

This classification is valid for the product's parameters described in p.2.2

5 Limitations

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

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is claimed to be relevant to the samples tested and that will provide for their traceability

SIGNED:

.....
Katya Boycheva
Specialist testing and quality

APPROVED:

.....
Hristina Angelova
Head of laboratory

on behalf of: **CTEC LTD**





CENTER FOR TESTING AND EUROPEAN CERTIFICATION LTD

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CONSTRUCTION PRODUCTS TESTING LABORATORY
Сертификат за акредитация, рег. No 252 ЛИ /05.08.2016, валиден до 07.08.2018г.,
издаден от ИА БСА, съгласно изискванията на стандарт БДС EN ISO/IEC 17025:2006



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REPORT

FROM TESTING

№ 1 42 0169 / 12.02.2018

1. Construction products, products and constructive elements – PVC windows equipped with double thermal insulating glass, profiles - System bluEvolution 73. Profile production: Salamander Window & Door Systems S.A. Poland. Window production: Home & Offices Glass Design S.R.L., Romania

2. Applicant: AXA CERT S.R.L, Tancabesti Ilfov, Romania, RO 27367700,
application № 2-0062 / 08.02.2018

3. Test methods:

BDS EN 13823:2010+A1:2015 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item

4. Date of delivery of samples to the laboratory:

08.02.2018

5. Quantity of test samples:

Three samples with the following identification numbers and sizes:

0147-1/1 rectangular sample with sizes 1200/1000 mm

0147-1/2 rectangular sample with sizes 1200/1000 mm

0147-1/3 rectangular sample with sizes 1200/1000 mm

6. Date of test: 08.02.2018

Head of laboratory:

(eng. H. Angelova)





7. Test results:

No	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample №	Test results (uncertainty)	Environmental conditions	Deviations, additions or exclusions from the test methods
1	2	3	4	5	6	7	8
Thermal attack by a single burning item							
1.	Fire growth rate index FIGRA _{0,2 MJ}	W/s	BDS EN 13823:2010+A1:2015	0147-1/1	13.2	t ₀ =12.6 C° RH =63 %	No
				0147-1/2	27.4	t ₀ =18.3 C° RH =60 %	No
				0147-1/3	26.2	t ₀ =19.8 C° RH =51 %	No
2.	Fire growth rate index FIGRA _{0,4 MJ}	W/s	BDS EN 13823:2010+A1:2015	0147-1/1	12.2	t ₀ =12.6 C° RH =63 %	No
				0147-1/2	18.7	t ₀ =18.3 C° RH =60 %	No
				0147-1/3	26.2	t ₀ =19.8 C° RH =51 %	No
3.	Totally heat release for 600 s - THR _{600s}	MJ	BDS EN 13823:2010+A1:2015	0147-1/1	1.5	t ₀ =12.6 C° RH =63 %	No
				0147-1/2	1.8	t ₀ =18.3 C° RH =60 %	No
				0147-1/3	1.8	t ₀ =19.8 C° RH =51 %	No
4.	Presence of lateral flame spread	-	BDS EN 13823:2010+A1:2015	0147-1/1	No	t ₀ =12.6 C° RH =63 %	No
				0147-1/2	No	t ₀ =18.3 C° RH =60 %	No
				0147-1/3	No	t ₀ =19.8 C° RH =51 %	No
5.	Smoke growth rate index SMOGRA	m ² /s ²	BDS EN 13823:2010+A1:2015	0147-1/1	12.1	t ₀ =12.6 C° RH =63 %	No
				0147-1/2	17.9	t ₀ =18.3 C° RH =60 %	No
				0147-1/3	15.6	t ₀ =19.8 C° RH =51 %	No
					average		
					22.3		
					average		
					19.0		
					average		
					1.7		
					average		
					15.2		

No	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample No	Test results (uncertainty)	Environmental conditions	Deviations, additions or exclusions from the test methods
1	2	3	4	5	6	7	8
6.	Total smoke production within 600 s - TSP _{600s}	m ²	BDS EN 13823:2010+A1:2015	0147-1/1 0147-1/2 0147-1/3	102.6 124.1 127.0 average 117.9	t ₀ =12.6 C° RH =63 % t ₀ =18.3 C° RH =60 % t ₀ =19.8 C° RH =51 %	No No No
7.	Production of flaming droplets and particles		BDS EN 13823:2010+A1:2015	0147-1/1 0147-1/2 0147-1/3	No No No	t ₀ =12.6 C° RH =63 % t ₀ =18.3 C° RH =60 % t ₀ =19.8 C° RH =51 %	No No No

8. Additional information required by BDS EN 13823:2010+A1:2015

- the test was carried out in the state of delivery of the samples;
- **Note:** "The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use."

Note I: The test results apply to the samples only.

Note II: The test certificate shut be entirely copied only and with agreement by the test laboratory.

Tested by:.....
(A.Laskov)



Head of laboratory:.....
(eng. H. Angelova)



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CONSTRUCTION PRODUCTS TESTING LABORATORY

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REPORT

FROM TESTING

№ 1 42 0170 / 12.02.2018

1. Construction products, products and constructive elements – PVC windows, equipped with double thermal insulating glass, profiles system bluEvolution 73. Profile production: Salamander Window & Door Systems S.A. Poland. Window production: Home & Offices Glass Design S.R.L., Romania

2. Applicant: AXA CERT S.R.L, Tancabesti Ilfov, Romania, RO 27367700,
application № 2-0062 / 08.02.2018

3. Test methods:

BDS EN ISO 11925-2:2010 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test (ISO 11925-2:2010)

4. Date of delivery of samples to the laboratory:

08.02.2018

5. Quantity of test samples:

Six samples with the following identification numbers and sizes:

- № 0147-2/1 rectangular sample with sizes 90/250 mm
- № 0147-2/2 rectangular sample with sizes 90/250 mm
- № 0147-2/3 rectangular sample with sizes 90/250 mm
- № 0147-2/4 rectangular sample with sizes 90/250 mm
- № 0147-2/5 rectangular sample with sizes 90/250 mm
- № 0147-2/6 rectangular sample with sizes 90/250 mm

6. Date of test: 09.02.2018

Head of laboratory:

(eng. H. Angelova)



7. Test results:

№	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample №	Test results (uncertainty)	Environmental conditions	Deviations, additions or exclusions from the test methods
1	2	3	4	5	6	7	8
1.	Single-flame source test						
1.1	Ignition	-	BDS EN ISO 11925-2:2010	0147-2/1 0147-2/2 0147-2/3 0147-2/4 0147-2/5 0147-2/6	no no no no no no		
1.2	Flame tip reaches 150 mm (Fs)	-	BDS EN ISO 11925-2:2010	0147-2/1 0147-2/2 0147-2/3 0147-2/4 0147-2/5 0147-2/6	no no no no no no	t = 23° C RH = 50 %	No
1.3	Time at which flame tip reaches 150 mm	s	BDS EN ISO 11925-2:2010	0147-2/1 0147-2/2 0147-2/3 0147-2/4 0147-2/5 0147-2/6	0 0 0 0 0 0		
1.4	Ignition of the filter paper	-	BDS EN ISO 11925-2:2010	0147-2/1 0147-2/2 0147-2/3 0147-2/4 0147-2/5 0147-2/6	no no no no no no		



№	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample №	Test results (uncertainty)	Environmental conditions	Deviations, additions or exclusions from the test methods
1	2	3	4	5	6	7	8
1.5	Physical behaviour of the test specimen	-	BDS EN ISO 11925-2:2010	0147-2/1 0147-2/2 0147-2/3 0147-2/4 0147-2/5 0147-2/6	not produce smoke no flaming particles not produce smoke no flaming particles not produce smoke no flaming particles not produce smoke no flaming particles not produce smoke no flaming particles not produce smoke no flaming particles	t = 23° C RH = 50 %	No

8. Additional information required by EN ISO 11925-2:2010

- the test was carried out in the state of delivery of the samples;
- During application of the flame – 30 seconds on the surface of samples
- Note: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use

Note I: The test results apply to the samples only.

Note II: The test certificate shut be entirely copied only and with agreement by the test laboratory.

Tested by:
(D. Feneva)

