

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

**Sponsor:** *SALAMANDER INDUSTRIE GMBH, Jakob – Sigle – Straße 58,  
86842 Türkheim, Germany*

**Manufacturer:** *Profile production: Salamander Window & Door Systems S.A.,  
Al.Kazimiera Wielkiego 6 A, 87-800 Włocławek Poland  
Window production: SC ADF PROD SRL, Str. Dimitrie Leonida  
nr.113C, Piatra Neamt, Romania*

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

**Prepared by:** *„Center for Testing and European Certification” LTD  
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**Notified body №:** *1871*

**Product name:** *PVC windows, equipped with double thermal insulating glass,  
profiles system Brüggemann bluEvolution 82 MD*

**Classification report №:** *1871-CPR-RtF-277*

**Issue number:** *01*

**Date of issue:** *26.03.2018*

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 Brüggmann bluEvolution 82 MD*, 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 Brüggmann bluEvolution 82 MD*, 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 Brüggmann bluEvolution 82 MD* 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: Brueggmann bluEvolution 82 MD
Profile code	Frame: HO9020 Fixed mullion: HO9320 Leaf: HO8520
Profiles reinforcement/thickness	Heel: VS8020-2mm Fixed pillar: VS8020-2mm Leaf: VS8020-2mm
Seals	Material: TPE
Hinges	Type: WINDOW number 2
Hardware	ROTO or equivalent MACO, GU, SIEGENIA, WINKHAUS
Water outlet holes	Inside: Number 4; dimensions $\varnothing 5 \times 30$ mm Outer: Number 3; dimensions $\varnothing 5 \times 30$ mm
Ventilation systems	Holster: width 1000mm; height 1200mm Leaf: width 424mm; 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
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	SALAMANDER INDUSTRIE GMBH, Germany	1420259/26.03.2018	BDS EN 13823:2010+A1:2015
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	SALAMANDER INDUSTRIE GMBH, Germany	1420260/26.03.2018	BDS EN ISO 11925-2:2010

#### 3.2 Test results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
BDS EN 13823:2010+A1:2015	FIGRA 0.2MJ LFS THR 600s	3	39.7 (-) 2.1	Compliant
	SMOGRA TSP <sub>600s</sub>		12.9 125.8	Compliant
	flaming droplets/particles		No	Compliant
BDS EN ISO 11925-2:2010 (30s exposure surface)	F <sub>s</sub>	6	Nil	Compliant
	flaming droplets/particles		None	



#### 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 Brüggemann bluEvolution 82 MD*, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s2**

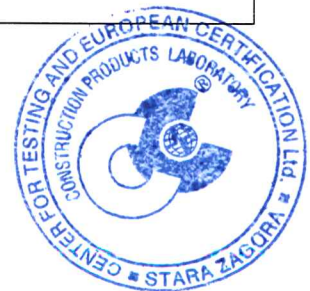
The additional classification in relation to flaming droplets / particles is:

**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>B</b>	-	<b>s</b>	<b>2</b>	,	<b>d</b>	<b>0</b>

**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**

