



Center for  
Testing and  
European  
Certification

CONSTRUCTION PRODUCTS TESTING LABORATORY  
2, Industrialna street, Stara Zagora, Bulgaria

No 1871 - CPR - RtF -780/28.06.2024

Issue: 1

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## CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2018

**Sponsor:** Q-VENT AD, Sofia, str. Prof. Ivan Georgov" No. 1A, Bulgaria

**Prepared by:** „Center for Testing and European Certification“ LTD  
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**Product name:** Ventilated facade system QV2

**Classification report №:** 1871-CPR-RtF-780

**Issue number:** 01

**Date of issue:** 28.06.2024

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## 1 Introduction

This classification report defines the classification assigned to the product Ventilated facade system QV2, in accordance with the procedure given in EN 13501-1:2018

## 2 Details of classified product

### 2.1 General

The product, Ventilated facade system QV2, is defined as a system, suitable for structural adhesive attachment of cladding types. The product is manufactured from Q-VENT AD, Sofia, str. Prof. Ivan Georgov" No. 1A, Bulgaria

### 2.2 Product description

The product, Ventilated facade system QV2 is described below or described in the reports provided in support of classification listed in clause 3.1.

#### Product description:

The product Ventilated facade system QV2 consist of:

- 1] Aluminium wall brackets QVB or stainless steel wall brackets QTB
- 2) Aluminium profiles attached to the wall brackets using stainless steel fasteners
- 3) Cladding panels: LAMINAM 5+ a ceramic multilayer slab which consists of:
  - # one layer of dry-pressed ceramic slab (according to EN 14411:2016) with nominal thickness of 5.6 mm, reinforced with
  - # one layer of glass fibre mat on the back with a nominal thickness of 0.4 mm, which is applied on the ceramic slab under a controlled industrial process by means of
  - # a polyurethane adhesive.
- Total thickness mm: 5.9 up to 6.8
- 4) Adhesive system TWEHA consists of:
  - # adhesive tape TWEHA TAPE with a thickness of 3 mm and a consumption rate of 0.018 kg/m<sup>2</sup>
  - # TWEHA PANELMATE - a homogeneous one-component adhesive with a thickness of 3 mm and a consumption rate of 0.222 kg/m<sup>2</sup>.
- 5) Mineral wool

The test specimens are mounted on a standard 12.5 mm thick plasterboard substrate with a density of 800kg/m<sup>3</sup> and an air gap of 20 mm.

## 3 Reports and results in support of this classification.

### 3.1 Reports

Name of Laboratory	Name of sponsor	Report ref.no.	Test method and date Field of application rules and date
CONSTRUCTION PRODUCTS TESTING LABORATORY CTEC LTD Stara Zagora, Bulgaria	Q-VENT AD, Sofia, Bulgaria	1420970/25.06.2024	БДС EN 13823:2020+A1:2022
		1420971/26.06.2024	БДС EN ISO 1716:2018



### 3.2 Results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
БДС EN 13823:2020+A1:2022	FIGRA <sub>0.2MJ</sub> LFS THR <sub>600s</sub>	3	6.1 (-) 0.6	Compliant
	SMOGRA TSP <sub>600s</sub>		2.2 37.5	Compliant
	flaming droplets/particles		None	Compliant
БДС EN ISO 1716:2018 for the glue	Q <sub>PCS</sub> , MJ/m <sup>2</sup>	3	3.79	Compliant
БДС EN ISO 1716:2018 for the tape	Q <sub>PCS</sub> , MJ/m <sup>2</sup>	3	0.82	Compliant
БДС EN ISO 1716:2018 for the mineral wool	Q <sub>PCS</sub> , MJ/kg	3	2.74	Compliant
БДС EN ISO 1716:2018 for the panel	Q <sub>PCS</sub> , MJ/kg	3	0.84	Compliant
БДС EN ISO 1716:2018 for the whole product	Q <sub>PCS</sub> , MJ/kg	3	2.74	Compliant

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018

### 4.2 Classification

The product, Ventilated facade system QV2, in relation to their reaction to fire behaviour are classified:

**A2**

The additional classification in relation to smoke production is:

**s1**

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	
A2	-	s	1	,	d	0

**Reaction to fire classification: A2 – s1, d0**

#### 4.3 Field of application

This classification is valid for the following product parameters:

- Product composition: not allowed amendment
- Adhesive: Valid for quantity of tested adhesive 0.222 kg/m<sup>2</sup> or lower quantity. Valid for an alternative adhesive and different quantity, with calorific value ≤ to 3.79 MJ/m<sup>2</sup>
- Adhesive tape: Valid for an alternative adhesive tape with calorific value ≤ to 0.82 MJ/m<sup>2</sup>
- Mineral wool: Valid for an alternative product with calorific value ≤ to 2.74 MJ/kg
- Panel: Valid for an alternative product with calorific value ≤ to 0.84 MJ/kg

#### 5 Limitations

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

**SIGNED:**



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**Katya Boycheva**  
 Specialist testing and quality

**APPROVED:**



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**Hristina Angelova**  
 Head of laboratory  
 on behalf of: CTEC LTD

