

Classification report

No. 221069-K1

issued 10.11.2022

Customer: Pure Vista Ltd
Pendewey Farm
Stony lane
Bodmin Cornwall PL31 2QX
UNITED KINGDOM

Order: Classification of the burning behaviour according to
DIN EN 13501-1 (2019-05)

Date of order: 25.10.2022

Notification number of the test laboratory

NB 1378

Designation of the classified building product

Product Name: Posiglaze
posiONE

This classification report lays down the classification of the building product above according to the procedures of DIN EN 13501-1.



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This classification report is a translation of the German version 221069-K1 (issued 10.11.2022). In case of doubt only the German version is valid. This classification report contains 5 pages.

1. Beschreibung des Probenmaterials

1.1 Angaben des Auftraggebers:

Product Name: Posiglaze
posiONE

Test side: Any

Sample/material description:

Main Components: Aluminium Channel & Beads Glass (PyroGuard 23mm)

Thickness: Glass = 23mm
Gel – Interlayer = 3 mm
Primary sealant = 3 mm
Secondary sealant = 3 mm

Gross weight/density: ~80kg/metre Channelsystem (8kg/m & Glass (72 kg/m)
23 mm ~59 kg/m²
Glass 10 mm : ~ 25 kg/m²
Gel – Interlayer: ~ 4,27 kg/m²
Primary sealant: ~ 0,05 kg/m²
Secondary sealant: ~ 0,076 kg/m²

Color: Channel = Silver, Glass = Clear
Gel – Interlayer = transparent
Primary sealant = grey – black
Secondary sealant = grey - black

Intended area of application: Glass Ballustrade/Barrier

1.2 At the specimen preparation from the Warringtonfire Frankfurt GmbH determined values:

Original - glass balustrade with aluminium base and upper, rounded aluminium edge, **1340 mm high.**

Sample	Material	Colour	Thickness glass [mm]	Total surface weight
1-3	Glass balustrade	Channel = Silver, Glass = Clear	Approx. 20	53,11

Material construction und fixing see pictures below:



picture: edge of the large sample wing



fixing of specimen

1.3 Production and pretreatment of the samples for the tests according to DIN EN 13823

The material was delivered by the manufacturer for testing and prepared for testing.

The test was carried out over the entire area.

The material was tested in 80 mm distance to the end plate analogous to DIN EN 13823, point 4.4.10 (calcium silicate) raw density $800 \pm 150 \text{ kg/m}^3$, thickness $12 \pm 3 \text{ mm}$).

Before the test, the samples were taken for more than 48 hours until the weight consistency according to DIN EN 13238 conditioned.

1.4 Production and pre-treatment of the samples for the tests according to DIN EN 1716

Tests according to DIN EN ISO 1716 under project number 22171 at Warrington Testing and Certification Limited.

12. Test reports and test results

2.1.1 Test reports

Name of test laboratory	Customer	Report to form the basis	Test procedure
Warringtonfire, Frankfurt GmbH	Pure Vista Ltd	221069 522171	DIN EN 13823 (SBI) DIN EN ISO 1716 (Determination of gross heat combustion)

2.1.2 Test results

Test procedures	Parameter / classes		Test results	
			average	
DIN EN 13823 (SBI)	FIGRA _{0,2MJ} ≤ 120 [W/s] for class A2 FIGRA _{0,2MJ} ≤ 120 [W/s] for class B		2,45	
	FIGRA _{0,4MJ} ≤ 250 [W/s] for class C FIGRA _{0,4MJ} ≤ 750 [W/s] for class D		2,45	
	THR _{600s} [MJ] ≤ 7,5 MJ for class A2 THR _{600s} [MJ] ≤ 7,5 MJ for class B THR _{600s} [MJ] ≤ 15 MJ for class C THR _{600s} [MJ] no requirement for class D		0,20	
	SMOGRA-index ≤ 30 [m ² /s ²] für s1 SMOGRA-index ≤ 180 [m ² /s ²] für s2		0,00	
	TSP _{600s} ≤ 50 [m ²] for s1 TSP _{600s} ≤ 200 [m ²] for s2		14,30	
	LFS < edge of the specimen for class A2 LFS < edge of the specimen for class B LFS < edge of the specimen for class C		fulfilled	
	no burning dripping off/dropping within 600s for class d0		fulfilled	
	DIN EN ISO 1716	PCS ≤ 3,0 MJ/kg ^a for Class A2 PCS ≤ 4,0 MJ/m ^{22b} for Class A2 PCS ≤ 4,0 MJ/m ^{22d} for Class A2 PCS ≤ 3,0 MJ/kg ^e for Class A2	Glass: 0,1 MJ/kg Aluminium channel: 0,0 MJ/kg Gel Interlayer: 0,4 MJ/kg Primary sealant: 22,7 MJ/Kg = 1,135kg/m ³ Secondary sealant: 10,5 MJ/kg = 0,7938 MJ/m ²	Total heat combustion: 0,0135 MJ/kg

Explanations of table standing too above:

Figra_{0,2MJ}: Heat release rate with consideration of the THR of threshold value of 0,2MJ [W/s]

Figra_{0,4MJ}: Heat release rate with consideration of the THR of threshold value of 0,4MJ[W/s]

THR_{600s}: Total set free warmth during 600s [MJ]

SMOGRA: Smoke development rate

TSP_{600s}: Total set free smoke quantity during 600s [m²]

LSF: lateral propagation of flames

a: for homogenous products and substantial contents of inhomogeneous products

b: for every outer not substantial content from not homogenies products.

d: for every inner not substantial content from not homogenies products

e: for the complete product

3 Classification and range of application

3.1 Reference

The classification was carried out according to the chapter 11 of DIN EN 13501-1

3.2 Classification

The tested material is ranked related to its behaviour in case of fire and according to its heat combustion into the class **A2**.

Concerning the smoke development the tested material is ranked into the class **s1**

Concerning the dripping off behavior the tested material is ranked into the class **d0**.

The classification of the tested material reads thus:

A2 – s1 d0

3.3 Area of application

The classification is only valid for the in chapter one described glass balustrade, in the tested construction, colour, thickness and surface weight, in free standing arrangement.

The distance to other flat materials must be ≥ 80 mm.

4 Reservation

This classification report replaces not a possible required type admittance or type certification of the product.

5 Decision rule and measurement uncertainty

In determining the results, the normative test conditions and limits are not adjusted to account for uncertainties in measurement. The determined measurement uncertainties are not combined with the measured results to evaluate compliance with the product specifications.

Frankfurt, the 10.11.2022



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Tester in charge



P. Scheinkönig
Technical Lab Leader construction product regulations



Deutsche
Akkreditierungsstelle
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