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CLASSIFICATION OF FIRE RESISTANCE ACCORDING TO EN 13501-2:2023

Classification no.	2026-Efectis-R001285
Sponsor	AGC GLASS EUROPE-SENEFFE PLANT Rue J.Bordet - Parc Industriel C 7180 SENEFFE BELGIUM
Product name	Pyrobel 25 EG Vision Line
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1. INTRODUCTION

This classification report defines the resistance to fire classification assigned to **'Pyrobel 25 EG Vision Line'** in accordance with the procedures given in EN 13501-2:2023.

1.1 NORMATIVE REFERENCES

Table 1.1: Normative references

European standard	Part
EN 1364-1:2015	Fire resistance tests for non-loadbearing elements - Part 1: Walls
EN 15254-4:2018	Extended application of results from fire resistance tests - Non-loadbearing walls - Part 4 : glazed constructions
EN 13501-2:2023	Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services

1.2 REVISION INFORMATION

This is the first issue of the classification report.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, 'Pyrobel 25 EG Vision Line' is defined as a 'transparent infill in partitions that create a separation between two spaces or internal/external space, while maintain this separation during fire'.

For the dimensions and specifications of the materials and components of the examined construction, also see the figures in chapter 6. Details of the assembly of the construction are given in the paragraphs below.

2.2 DESCRIPTION

The element, 'Pyrobel 25 EG Vision Line' is fully described in the test reports in support of this classification listed in 3.1. A summary of the tests is given below.

Table 2.2:Test report 1

Test laboratory/ test report number	Efectis Nederland BV 2012-Efectis-R9405a[Rev.1]
Test standard	EN 1364-1:1999 / prEN 1364-1:2011*
Test date	December 19th, 2012
Date test report	May 2023 (date last revision)
Dimensions	3700 x 3000 x 30 (glass) / 70 (profiles)mm (w x h x t)
Tested side	The construction was symmetrical, apart from the glass make-up

Tested angles	The angels between the tested panes were: ▪ 90°, inside with regard to exposed side ▪ 90°, outside with regard to exposed side ▪ 135°, inside with regard to exposed side ▪ 135°, outside with regard to exposed side
Supporting construction	Aerated concrete 150 mm thickness
Glass	Pyrobel 25 EG Vision Line, thickness 30 mm from exposed to unexposed side ▪ float glass 3 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 3 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 8 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 3 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 3 mm; ▪ PVB interlayer 0.76 mm; ▪ float glass 3 mm.
Glazing materials	The joints between the glazing panes with an inner angle of 90°/270° were made with two self-adhesive Gluske Kerafix FXL 200 strips, 2 x 10 mm, and sealed on both sides with a neutral silicon type ‘ Momentive Pensil 300’, width 12 mm. The joints between panes with an angle of 135°/225° were made with two self-adhesive Gluske Kerafix FXL 200 strips, 2 x 5 mm, and sealed on both sides with a neutral silicon type ‘Momentive Pensil 300’, width 10.5 mm.
Profile system	Jansen Janisol C4 profiles (ref 600.005.C4 Z) 70 x 50 mm (d x h) beads 20 mm high Central glazing

**) The test was performed according to an older no longer valid test method. A gap analysis has been performed.*

Table 2.2:Test report 2

Test laboratory/ test report number	Efectis France Efectis_test_23-V-004678-1
Test standard	EN 1364-1:2015
Test date	21st November 2024
Date test report	10th February 2025
Dimensions	2745 x 2970 x 30 (glass) / 70 (profiles) mm (w x h x t)
Tested side	The glazing beads were on the exposed side
Supporting construction	An associated supporting construction of plasterboard type ‘Placoflam BA 13’ thickness 125 mm
Glass	Pyrobel 25 Vision Line, thickness 26.6 mm from exposed to unexposed side ▪ float glass 3 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 3 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 8 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 3 mm; ▪ intumescent interlayer 1.65 mm; ▪ float glass 3 mm.

Glazing materials	The joints between the glazing panes were made with two self-adhesive Gluske Kerafix FXL 200 strips, 2 x 7 mm, and sealed on both sides with a neutral silicon type 'Dowsil 895', width 9.8 mm.
Profile system	Jansen Janisol C4 profiles (ref 402.130 Z) 70 x 50 mm (d x h) beads 20 mm high Not central glazing

3. TEST REPORTS AND EXTENDED APPLICATION REPORTS AND RESULTS IN SUPPORT OF THE CLASSIFICATION

3.1 TEST REPORTS AND EXTENDED APPLICATION REPORTS

Table 3.1: Details reports

Name of laboratory and notified body number	***Name of sponsor***	***Report ref. no***	***Test standard and date Extended application standard and date***
Efectis Nederland BV	AGC GLASS EUROPE-SENEFFE PLANT	2012-Efectis-R9405a[Rev.1]	*EN 1364-1:1999 / prEN 1364-1:2011**
Efectis France	AGC GLASS EUROPE-SENEFFE PLANT	Efectis_test_23-V-004678-1	EN 1364-1:2015
Efectis Nederland BV	AGC GLASS EUROPE-SENEFFE PLANT	2026-Efectis-R000848	EN 15254-4:2018

**) The test was performed according to an older no longer valid test method. A gap analysis has been performed.*

3.2 RESULTS

Table 3.2: Summary of test results of report 2012-Efectis-R9405a[Rev.1]

Performances		**Criteria**	Time (completed minute)
E	Integrity	Ignition of a cotton pad	68 min
		Sustained flaming	68 min
		Cracks or openings in excess of given dimensions	68 min
I	Thermal insulation	Average temperature, increase of Δ140 K	68 min
		Maximum temperature, increase of Δ180 K	68 min
W	Radiation	Average radiation value > 15 kW/m² 0.6 kW/m² at 60 minutes	68 min

Table 3.3: Summary of test results of report Efectis_test_23-V-004678-1

Performances		**Criteria**	Time (completed minute)
E	Integrity	Ignition of a cotton pad	64 min
		Sustained flaming	64 min
		Cracks or openings in excess of given dimensions	64 min
I	Thermal insulation	Average temperature, increase of Δ140 K	64 min
		Maximum temperature, increase of Δ180 K	64 min

W	Radiation	Average radiation value > 15 kW/m²	64 min*

*) radiation not measured but the surface temperatures remained below 300°C

Table 3.4: Summary of extended application results report 2026-Efectis-R000848

Performances		Time
E	Integrity	60 min
I	Thermal insulation	60 min
W	Radiation	60 min

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with Clause 7 of EN 13501-2:2023.

4.2 CLASSIFICATION

The element, 'Pyrobel 25 EG Vision Line' is classified according to combinations of performance parameters and classes as described in Clause 6.7 of EN 13501-2:2023.

EIW60

4.3 FIELD OF APPLICATION

4.3.1 General

The test results are directly applicable to similar constructions where one or more of the changes in this chapter are made and the construction continues to comply with the appropriate design code for its stiffness and stability. Other changes are not permitted.

4.3.2 Glass

The product can be installed with either Pyrobel 25 Vision Line (thickness 26.6 mm) or Pyrobel 25 EG Vision Line (thickness 30 mm).

4.3.3 Installation angle

4.3.3.1 Vertical

The product can be installed at a maximum angle of ± 10° from the vertical plane, provided the height of the glazed element is maximum 2970 mm.

4.3.3.2 Horizontal

The product can be installed at all angles, 0° - 180°.

4.3.4 Glazing system (see Figure 16 in EN 1364-1)

4.3.4.1 Linear dimensions

The linear dimensions of panes may be decreased from the dimensions tested. Height and width may be considered independently.

4.3.4.2 Glazing beads

The product can be installed with both 'clip-on' beads and screwed-on glazing beads, applied with a centre-to-centre distance of no more than 890 mm.

Since the bead profiles are non-combustible a higher bead depth is allowed.

4.3.4.3 Glazing system materials

The product can be installed with both type ‘Momentive Pensil 300’ or type ‘Dowsil 895’ for the silicone joint application.

4.3.5 Framing system (see Figure 16 in EN 1364-1)

The distance between joints may be decreased from that tested.

The distance between fixing centres may be decreased from that tested.

The cross-sectional dimensions of the frame profiles may be increased from the dimensions tested, under the following restrictions:

- For combustible framing intended to be used for E and/or EW classification, the depth of the frame profiles on the unexposed side is as tested.
- For framing systems intended to be used for EI classification, no increase in width is allowed in case no temperature measurements on the unexposed side of the profiles were made during the test for these framing systems.

4.3.6 Supporting constructions

The following supporting constructions are allowed:

- A flexible standard supporting construction with 75 mm wide metal or timber studs and covered on both sides with at least two gypsum boards of at least 12.5 mm thickness, with at least a fire resistance classification of 60 minutes, and a thickness of at least 125 mm.
- A rigid standard supporting construction of at least 600 kg/m^3, with at least a fire resistance classification of 60 minutes.

4.3.7 Dimensions of the glazed element

4.3.7.1 Height

The product can be installed with heights up to 3564 mm.

4.3.7.2 Width

The product can be installed in higher widths by replicating the element or segments thereof.

4.3.8 Dimensions and area of individual rectangular glass panes

Glass panes can be installed with dimensions up to:

- Width of max. 1672 mm
- height of max. 3432 mm,
- Area of max. 4.69 mm^2.

In order to accommodate the increase in glass dimensions, it is permitted to increase the distance between mullions and/or transoms.

5. LIMITATIONS

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

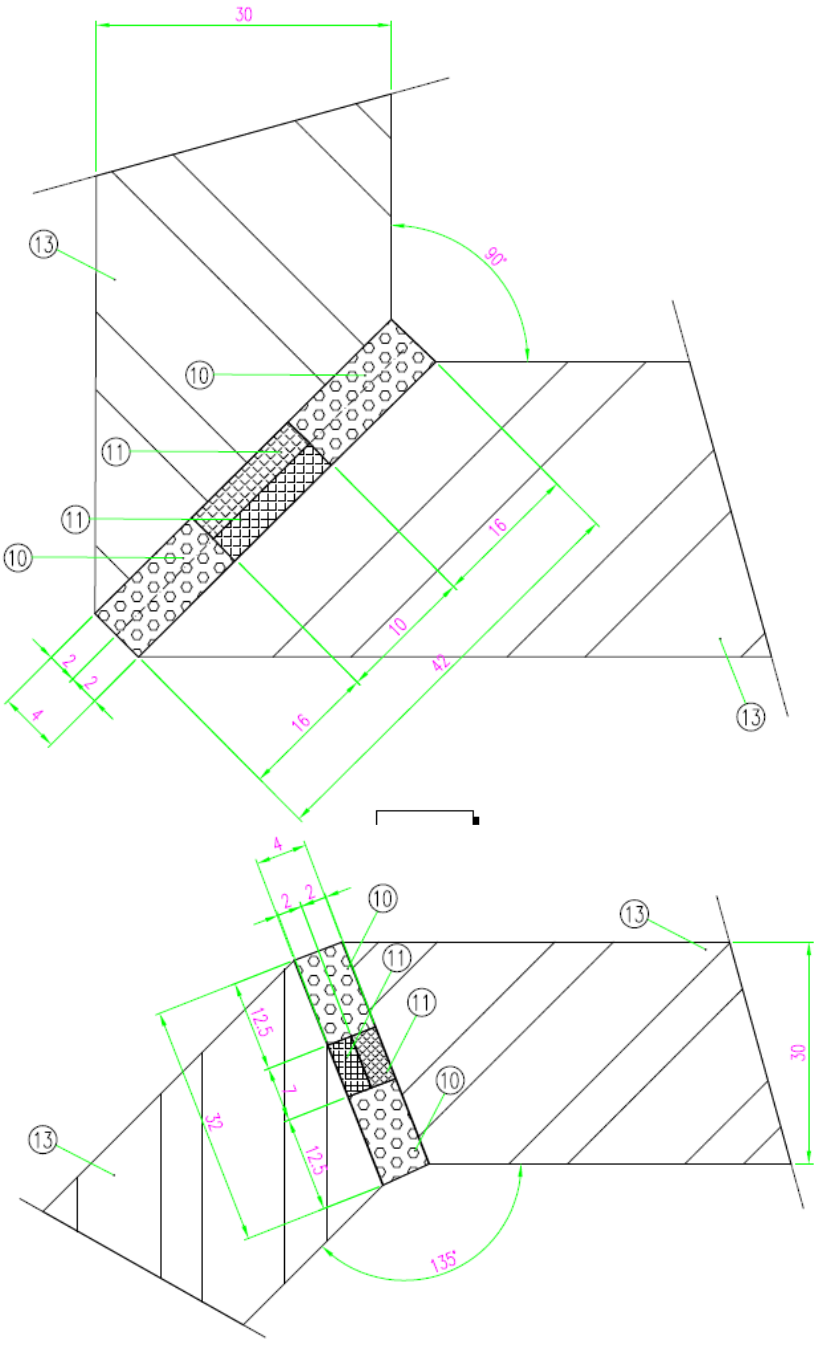
Signed by: Saskia NIEUWENDIJK

Project Leader Fire Resistance Engineering

Signed by: Robert SCHEEPE

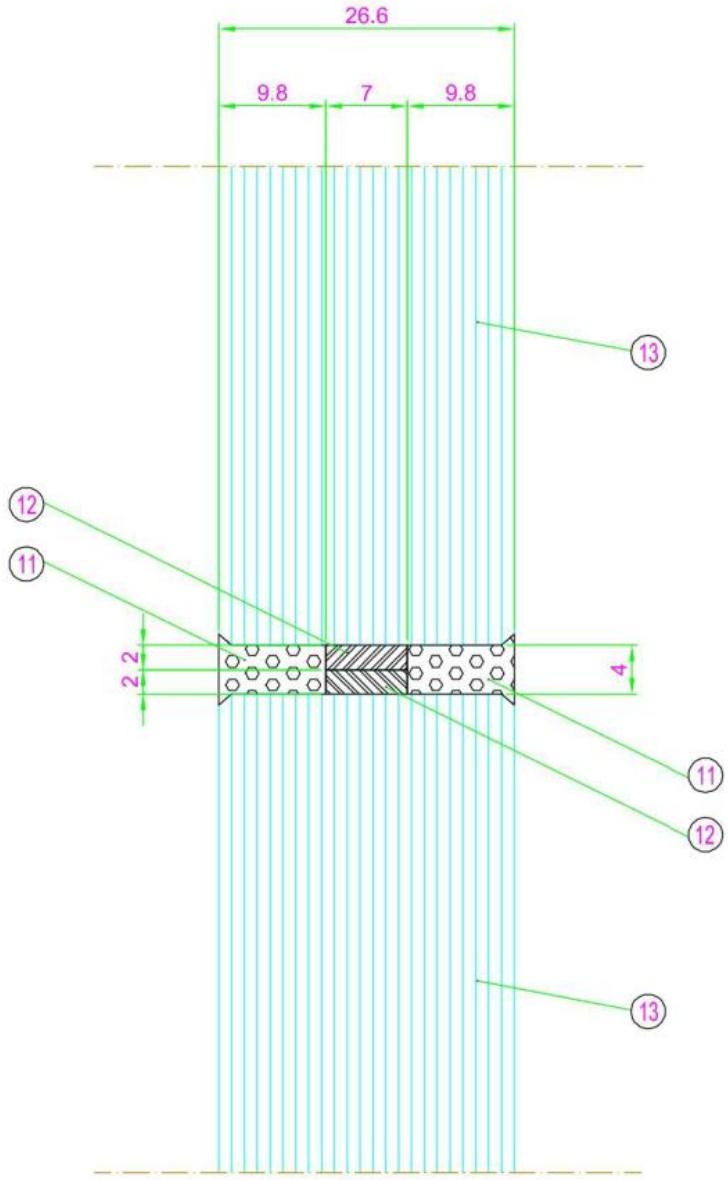
Manager Fire Resistance Engineering

6. DRAWINGS



10	Neutral Silicone : Momentive Pensil 300 – grey
11	Self–adhesive Gluske Kerafix FXL200
12	Thermal Insulation Flumroc FPI700 – 120 kg/m3
13	PYROBEL 25 EG VisionLine

Figure B. 1 Joint as installed in test report 2012-Efectis-R9405a[Rev.1]



11	Structural Glazing Sealant - Dow - Dowsil 895 - black
12	Self-adhesive Gluske Kerafix FXL200 - 7 x 2 mm
13	Pyrobel 25 VL (3/3/8/3/3)

Figure B. 2 Joint as installed in test report EFR-23-004678-1