Efectis Nederland BV
P.O. Box 554 | 2665 ZN Bleiswijk
Brandpuntlaan Zuid 16 | 2665 NZ Bleiswijk
The Netherlands
+31 88 3473 723
nederland@efectis.com

REPORT

Extended Application according to EN 15254-4:2018 of a non-load bearing glazed partition with butt joints, glass type Pyrobel 25 EG Vision Line

Report no.	2026-Efectis-R000848
Sponsor	AGC GLASS EUROPE-SENEFFE PLANT Attn. Mrs. A. Seweryn Rue J.Bordet - Parc Industriel C 7180 SENEFFE BELGIUM
Author(s)	
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CONTENTS

1. GENERAL

1.1 REPORT

The extended application process is carried out in conformity with the extended application standard and the test results were obtained in accordance with the test method as mentioned in table 1.

Table 1

Type	European standard	Part
Test	EN 1364-1:2015	Fire resistance tests for non-loadbearing elements - Part 1: Walls
ExAp	EN 15254-4:2018	Extended application of results from fire resistance tests - Non-loadbearing walls - Part 4 : glazed constructions
ExAp	EN 15725: 2023	Extended applications on the fire performance of construction products and building elements: Principle of ExAp standards and ExAp reports

1.2 DETAILS OF THE PRODUCT OR BUILDING ELEMENT CONCERNED

The details of the product concerned are mentioned in table 2.

Table 2 Product details

Nature	Fire resistant
Product Technical Specifications	Glass pane
Product family	Pyrobel
Intended use	Non-loadbearing internal or external partitions
End use application	Transparent infill in partitions that create a separation between two spaces or internal/external space.

1.3 DESCRIPTION

The constructions are transparent partitions/separations with a fire-resistant nature.

2. REVISION INFORMATION

This is the first issue of this report.

3. PRIMARY TEST REPORT AND TEST RESULTS IN SUPPORT OF THIS EXTENDED APPLICATION REPORT

Table 3 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
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
Test result [min]	**Integrity** Cotton pad — 68 minutes Gap gauge Ø 6 mm — 68 minutes Gap gauge Ø 25 mm — 68 minutes Sustained flaming > 10 sec — 65 minutes **Insulation** Average temperature — 68 minutes Maximum temperature — 68 minutes **Heat Radiation**

	25 kW/m^2	68 minutes

*) *The test was performed according to an older no longer valid test method.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

Table 4 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

Test result [min]	**Integrity**	
	Cotton pad	64 minutes
	Gap gauge Ø 6 mm	64 minutes
	Gap gauge Ø 25 mm	64 minutes
	Sustained flaming > 10 sec	64 minutes
	Insulation	
	Average temperature	64 minutes
	Maximum temperature	64 minutes
	Heat Radiation	
	25 kW/m^2	64 minutes

4. DEVIATIONS FROM TEST METHODS

4.1 GENERAL

Apart from the gap analysis mentioned in §4.2, there were no relevant deviations in the test reports.

4.2 GAP ANALYSIS

To be able to use the test report with number 2012-Efectis-R9405a[Rev.1], for this Extended Application report, a gap analysis was performed to investigate whether the results of the test performed according to the standard EN 1364-1:1999 are still valid for use according to the currently applicable standard EN 1364-1:2015 as required by EN 15254-4:2018.
Extended Application has made a comparison between the two EN 1364-1 standards and examined the test reports. Extended Application concluded that the results of the test according to EN 1364-1:1999 standard are still valid according to the standard EN 1364-1:2015.
Therefore, the test reports can be used as a basis for an Extended Application report according to the standard EN 15254-4:2018.

The deformation has not been measured at the prescribed positions in accordance with EN 1364-1:2015. However, the deformation has been measured in the centre of the test specimens where the largest deformation is expected to occur.

The temperature was measured in line with EN 1364-1:2015.

5. EXTENDED APPLICATION REQUESTS

This extended application procedure is based on approach 2 of EN 15725:2023. Definition of the Extended Application based on available test results in accordance with relevant extended application standard EN 15254-4.

The sponsor requested the following variables:

- Exchange of mastic (glazing system materials)
- Exchange of glazing system.

6. EXTENDED APPLICATION RESULTS

6.1 VARIABLES / VALUATION

Table 5: Information on exchange of the glazing system materials

No.	§5.6
Construction parameter	Glazing system materials
Variation	Exchange
Information on the variation	Except for glazing beads, exchange of a glazing material, e.g. gaskets, is only allowed if it is demonstrated in a reference test and/or pre-existing test data that the exchange does not have a detrimental effect on the fire performance within a comparable glazing system of the same glass product range.
Valuation	Both constructions have proved in a test to have similar fire resistance qualities
Comment	Condition met

Table 6: Information on change on the glazing system

No.	§5.1.2 h
Construction parameter	Glazing system
Variation	Adding extra layer
Information on the variation	Additional non-fire-resistant glass panes may be added to the tested glass using non-fire protection interlayers with a thickness < 1 mm
Comment	Condition met

6.2 FIRE PERFORMANCE PARAMETERS

Performances	**Criteria**	**Time**	**Failure**
Integrity	*Ignition of a cotton pad*	*60*	*No*
	Sustained flaming	*60*	*No*
	Cracks or openings in excess of given dimensions	*60*	*No*
Insulation	*Average temperature, increase of Δ140 K*	*60*	*No*
	Maximum temperature, increase of Δ180 K	*60*	*No*
Radiation	*Maximum radiation value > 15 kW/m²*	*60*	*No*

7. CONCLUSION

The mastic used in either test, may be replaced by the other one as is stated in *Table 5* of §6.1. Therefore, either type ‘Momentive Pensil 300’ or type ‘Dowsil 895’ can be applied to both tested elements, with the silicone joint application as tested in each case.

A glass layer may be added according to *Table 6* of §6. Therefore, the glass (Pyrobel 25 Vision Line, thickness 26.6 mm) tested in an associated supporting construction of plasterboard type ‘Placoflam BA 13’ (as described in report 2) can be replaced by the glass type described in report 1 (Pyrobel 25 EG Vision Line).
Thus, an associated supporting construction of Plasterboard type ‘Placoflam BA 13’ (as described in report 2) is allowed in the element tested in report 1 (with corners).

8. ADDITIONAL STATEMENT

The extended application results relate to the behaviour of a product/product family or building element 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/product family or building element in use.

This extended application is issued on the basis of test data and the content of the relevant part(s) of EN 15254-4 at the time of issue.

Saskia Nieuwendijk

Signed by: Saskia NIEUWENDIJK

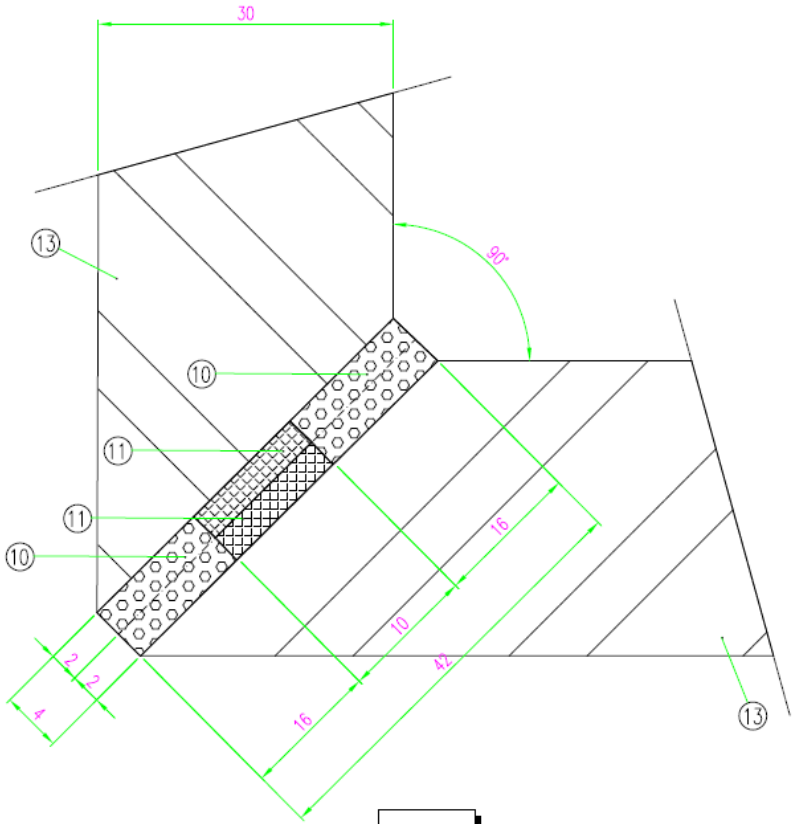
Project Leader Fire Resistance Engineering

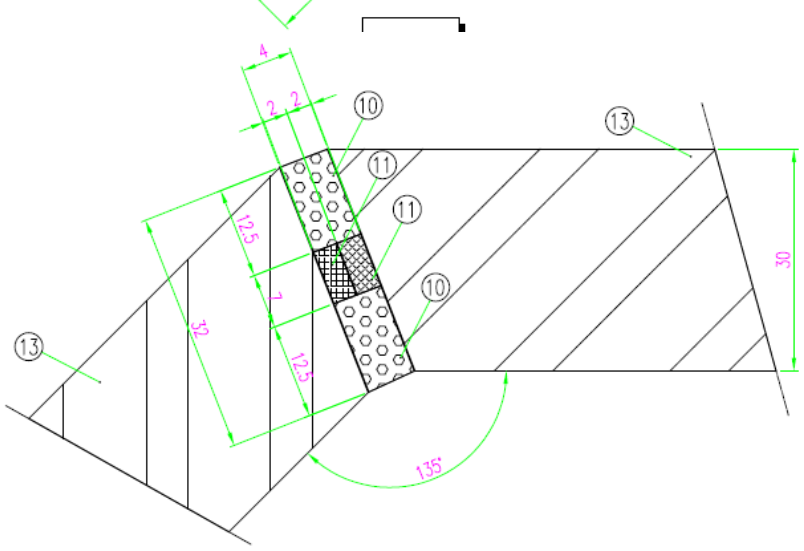
Robert Scheepe

Signed by: Robert SCHEEPE

Project Leader Fire Resistance Engineering

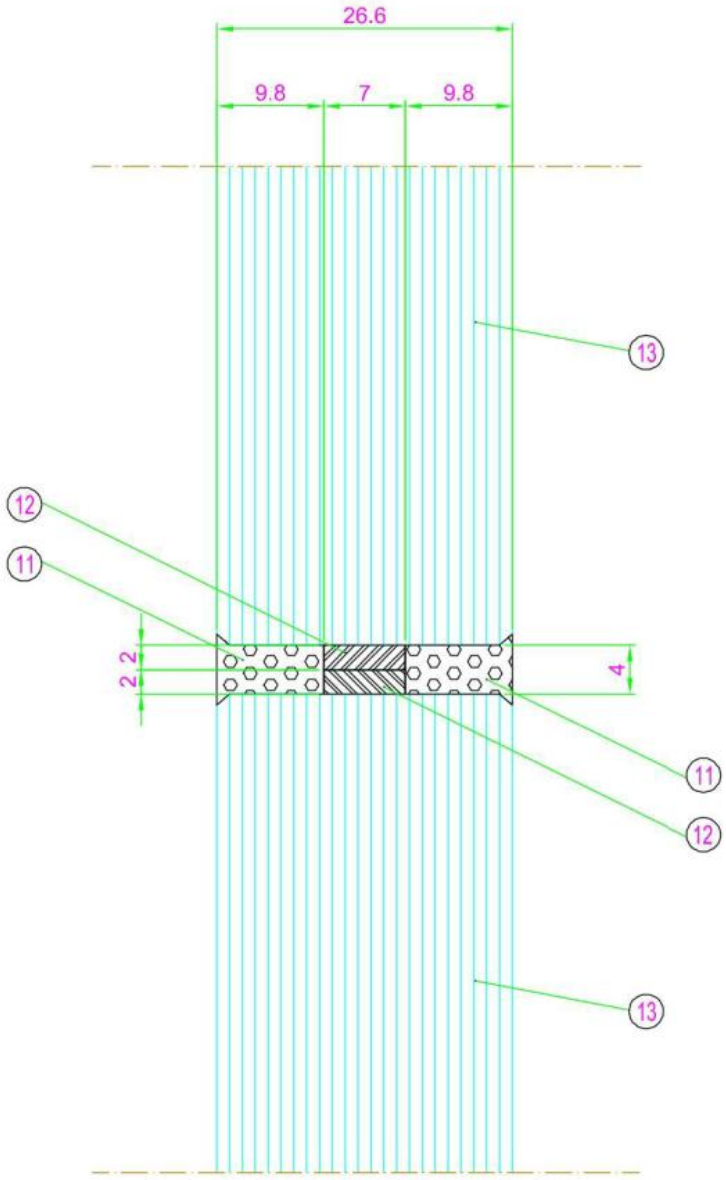
APPENDIX B: DRAWINGS





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