

FIRE RESISTANCE TEST OF BUILDING ELEMENTS

Classification report n° 10 – V – 433

According to the Standard NF EN 13501-2

Delivered on :

15 December 2010

Test report :

EFECTIS FRANCE 10-V-433

Scope :

A glazed partition wall with an insulated steel frame.

Framework : JANISOL C4 (JANSEN)

**Glazing : PYROBEL 30 (AGC)
PYROBEL 30 EG (AGC)
PYROBEL 30 DGU (AGC)**

Applicant :

**AGC GLASS EUROPE SA
166, Chaussée de la Hulpe**

B – 1170 BRUXELLES

1 INTRODUCTION

This resistance to fire classification report defines the classification assigned to a glazed partition, as described in the test report 10-V-433, in accordance with the procedure given in NF EN 13501-2.

2 TEST LABORATORY

Name : EFACTIS France
Address : Voie Romaine
F - 57280 MAIZIERES-Lès-METZ

3 TYPE FUNCTION

The glazed partition wall, subject of this classification report, is defined as a non load-bearing element type wall.

Its function is to resist fire in respect of the fire performance characteristics given in clause 5 of NF EN 13501-2.

4 DESCRIPTION OF THE ELEMENT

The glazed partition wall is described in the report test EFACTIS FRANCE n° 10-V-433.

The drawings for the glazed partition are given in Appendix.

5 TEST REPORT AND TEST RESULTS

This classification report is associated with the test report EFACTIS FRANCE n° 10-V-433, including the test results.

The test report EFACTIS n° 10-V-433 was realized in conformity with the standards NF EN 1363-1 and NF EN 1364-1.

6 CLASSIFICATION AND FIELD OF DIRECT APPLICATION

6.1 CLASSIFICATION REFERENCE

This classification was realized in conformity with the section 7.5.2. of the standard NF EN 13501-2.

6.2 CLASSIFICATION

The element is classified according to the following combinations of performance parameters and classes.

No other classification is allowed.

R	E	I	W		†	-	M	C	S	G	K
	E	I			90						
	E		W		90						
	E				90						

Fire side : see test report EFECTIS FRANCE 10-V-433

6.3 FIELD OF DIRECT APPLICATION

In conformity with the standard EN 13501-2, the element has the following field of direct application.

6.3.1 Generality

In conformity with section A.5.1. of standard EN 1364-1, the results of the fire test are directly applicable to similar construction where one or more of the changes listed below are made and the construction continues to comply with the appropriate design code for its stiffness and stability.

Other modifications are not permitted.

- a) Decrease in the linear dimensions of panes ;
- b) Change in the aspect ratio of panes provided that the largest dimension of the pane and its area are not increased ;
- c) Decrease in distance between mullions and/or transoms ;
- d) Decrease in distance between fixing centres;
- e) Increase in the dimensions of framing members ;
- f) Screwed-on glazing beads, if "clip-on" beads were incorporated in the test specimen;
- g) Allowance for expansion if none were incorporated in the test specimen ;
- h) Change in the angle of installation of up to 10° from the vertical.

6.3.2 Width Extension

In conformity with the section A.5.3. of standard EN 1364-1, the fire test results mentioned in the section 10 of the test report EFECTIS FRANCE n° 10-V-433 are also applicable to all identical glazed partition than the one tested and with unlimited width.

6.3.3 Height Extension

In conformity with section A.5.2. of the standard EN 1364-1, no height extension is allowed beyond the height of the test specimen , i.e 2 980 mm, and 400 mm for the plasterboard.

6.3.4 Supporting Structures

In conformity with section 13.4. of the standard EN 1364-1, the fire test results mentioned i the section 10 of the test report EFECTIS FRANCE n° 10-V-433 are also applicable to all identical partition than the one tested et installed in full concrete walls, or reinforced concrete or hollow blocks with a density of at least 2200 kg/m³.

7 LIMITATIONS

7.1 RESTRICTIONS

The validity period of this report classification must be defined in conformity with the standard of the product.

7.2 WARNING

This report does not represent the type approval or certification of the element.

This test report is not a french « procès-verbal de classement » according to the decree of the 22nd of March 2004 relating to fire resistance of products and building elements issued by the French Internal Affairs Ministry.

Issued in Maizières-lès-Metz, the 15 December 2010

A handwritten signature in black ink, appearing to read "Renaud FAGNONI".

Renaud FAGNONI
Fire Safety Engineer

A handwritten signature in black ink, appearing to read "Sébastien BONINSEGNA".

Sébastien BONINSEGNA
Head of Section "Essais 2"
Head of Section "Consultance"

Plate n° 1 – Overall view

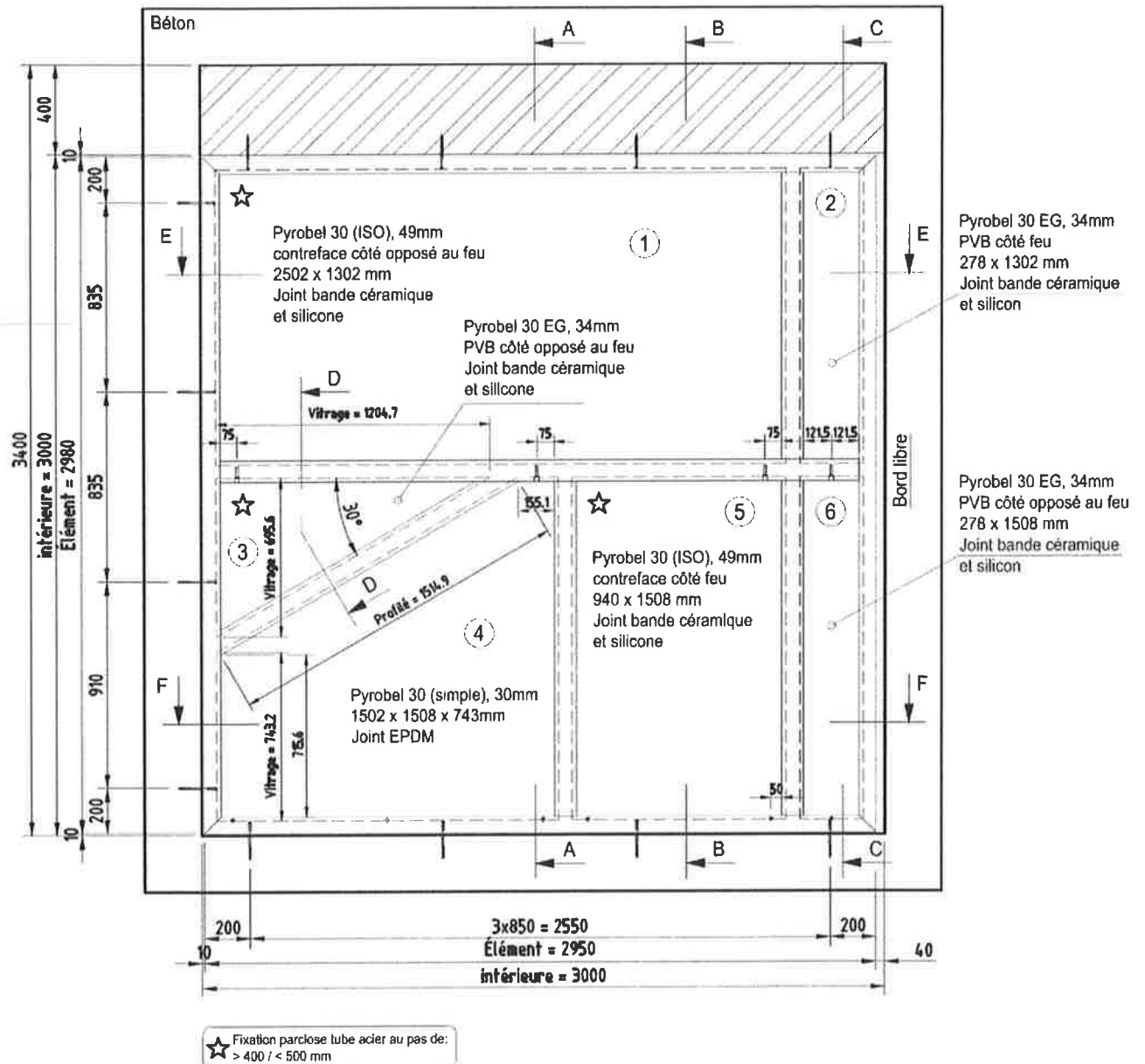


Plate n° 2 – Sections AA, BB et CC

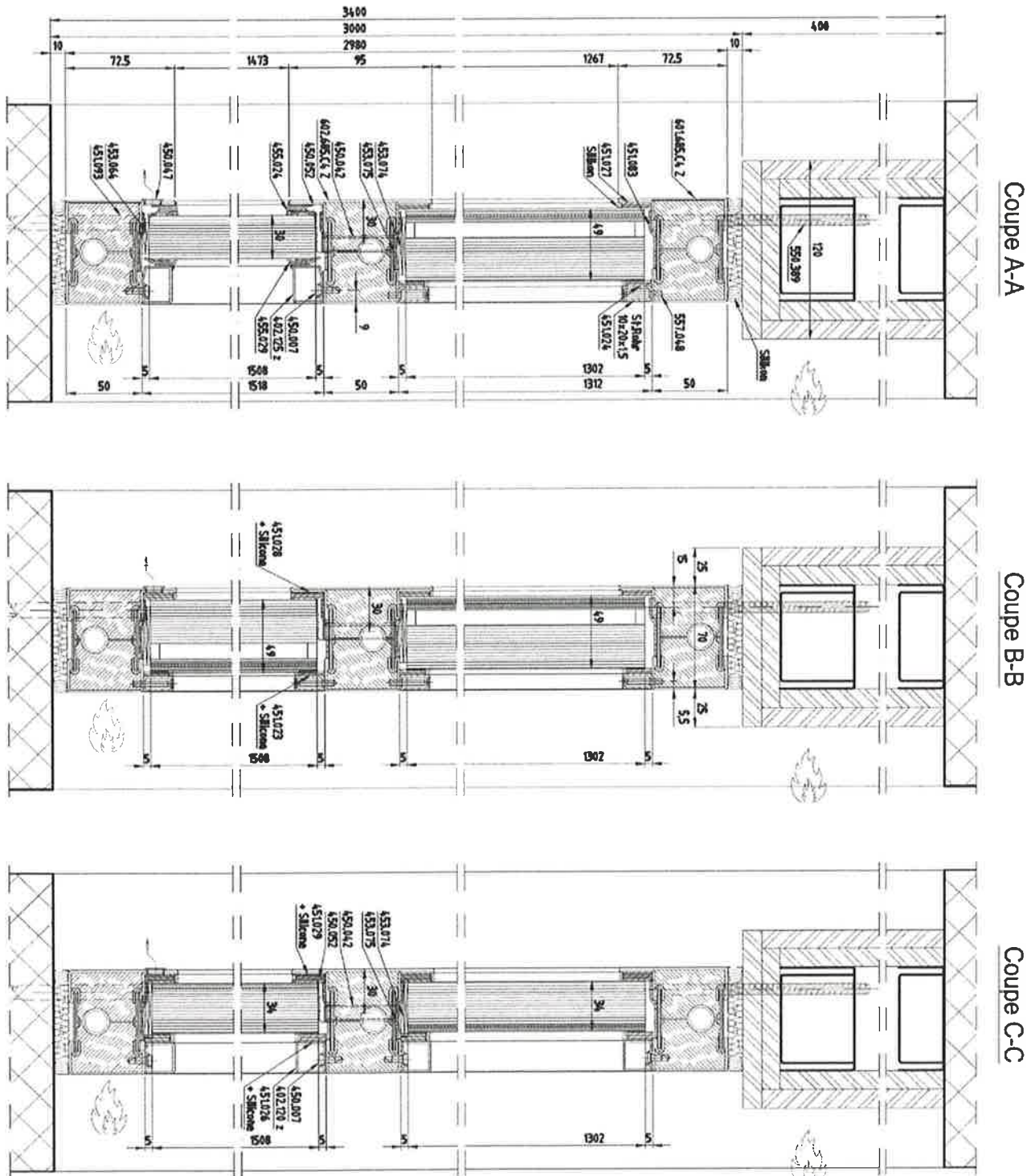


Plate n° 3 – Sections DD, EE et FF

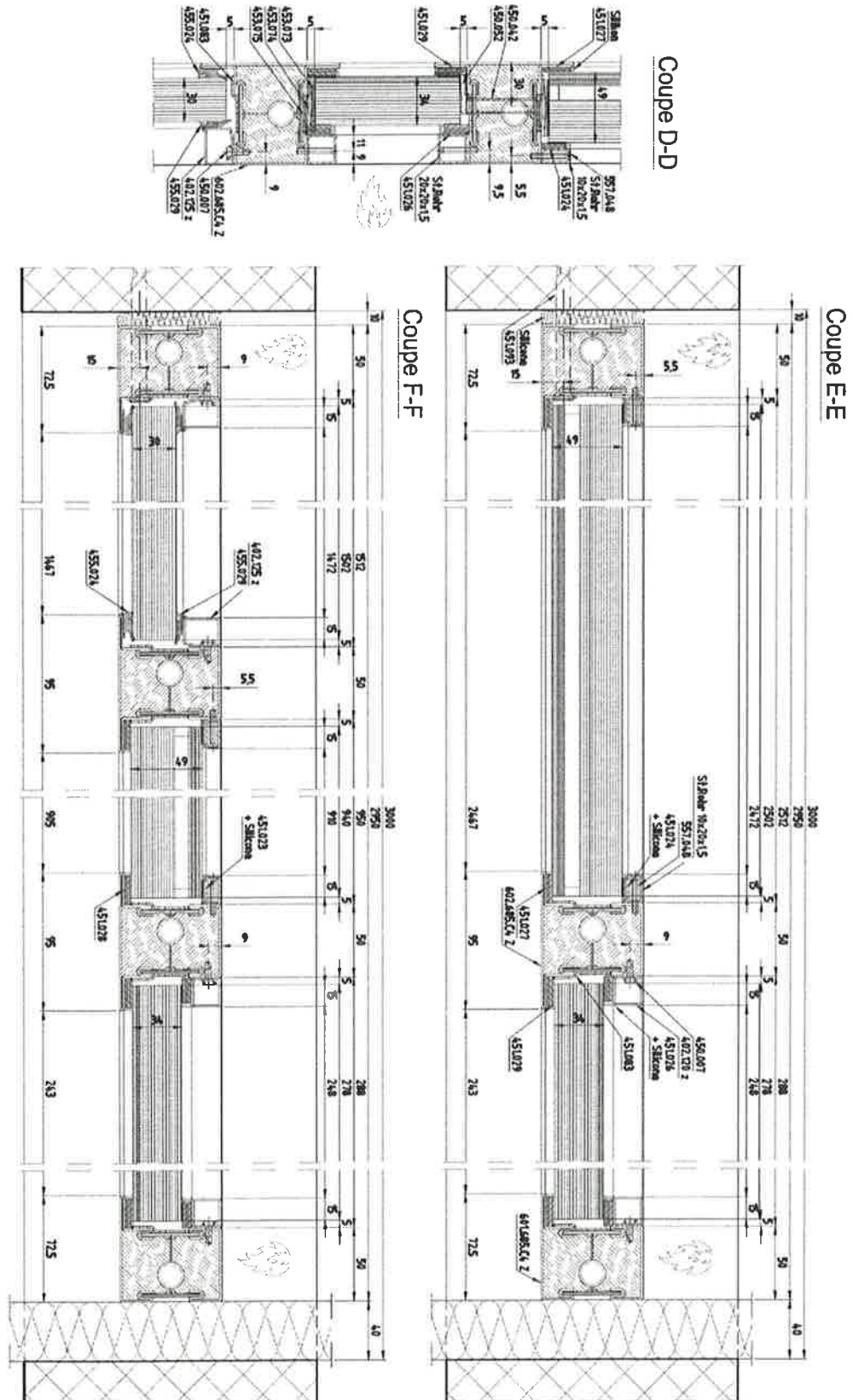


Plate n° 4 – Parts list

Profile			
601.685.C4.Z			
602.685.C4.Z			
402.120.Z			
402.125.Z			
Steel tube 10 x 20 x 1.5 mm			
Steel tube 20 x 20 x 1.5 mm			
Hardware			
Glass setting block	453.075		
Fire resistant sealing	451.083		
Mineral fiber	451.023	4 x 17 mm	
Mineral fiber	451.024	5 x 17 mm	
Mineral fiber	451.026	8 x 17 mm	
Mineral fiber	451.027	5 x 20 mm	
Mineral fiber	451.028	6 x 20 mm	
Mineral fiber	451.029	8 x 20 mm	
EPDM sealing	455.029		
EPDM sealing	455.024		
Bead fixation	455.007		
Screw M4 x 27 mm	557.048		
Screw Ø 10 x 135 mm	451.093		
Screw M8 x 145 mm	550.389		
Draining pipe	450.047		
Draining pipe	450.042		
Draining angle	450.052		
Neutral silicone	13527 (WÜRTH)		