classification report

Bodycote

Title:

Classification of Fire Resistance Performance In Accordance With EN 13501-2:2003

Notified Body No:

0833

Product Name:

Pyrobelite 7

Report No:

162123

Issue No:

1

Prepared for:

Glaverbel Seneffe

Chaussée de la Hulpe 166
1170 Brussels
Belgium

Date:

26th February 2007

warringtonfire global safety

TESTING

1. Introduction

This classification report defines the classification assigned to the element 'Pyrobelite 7' in accordance with the procedures given in BS EN 13501-2:2003.

2. Details of classified product

2.1 General

The element 'Pyrobelite 7' is defined as a fire resisting glass to be used in non-loadbearing internal partition assemblies.

2.2 Product description

The element, 'Pyrobelite 7', is fully described in the test report provided in support of classification detailed in Clause 3.1.

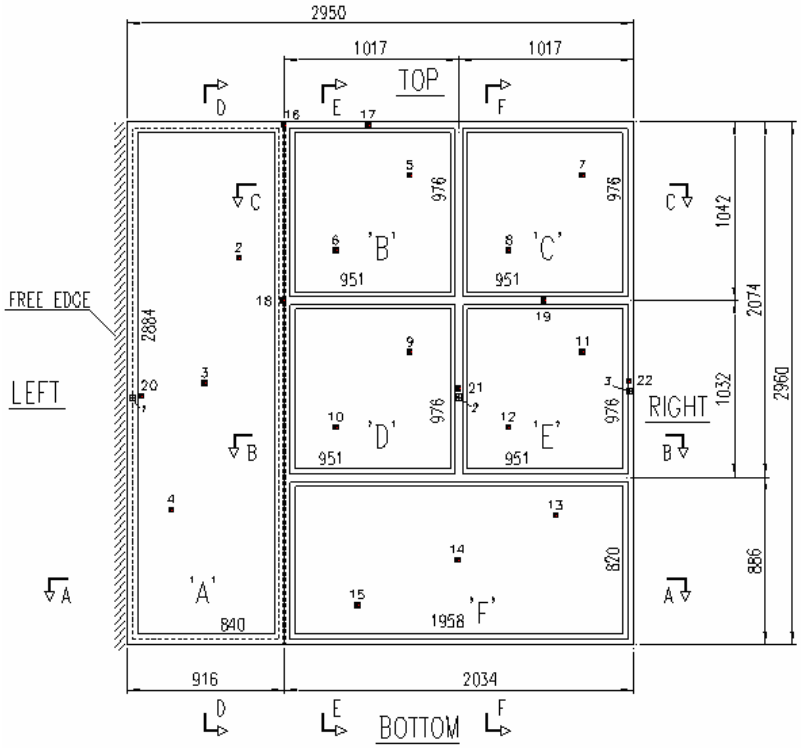
3. Test report in support of classification

3.1 Summary of test report

Name of laboratory	Name of sponsor	Test report no.	Test method
Warrington Fire Research Centre - Notified Body No. 0833	Glaverbel S.A. / N.V.	WF Test Report No. 158419	EN 1364-1: 1999

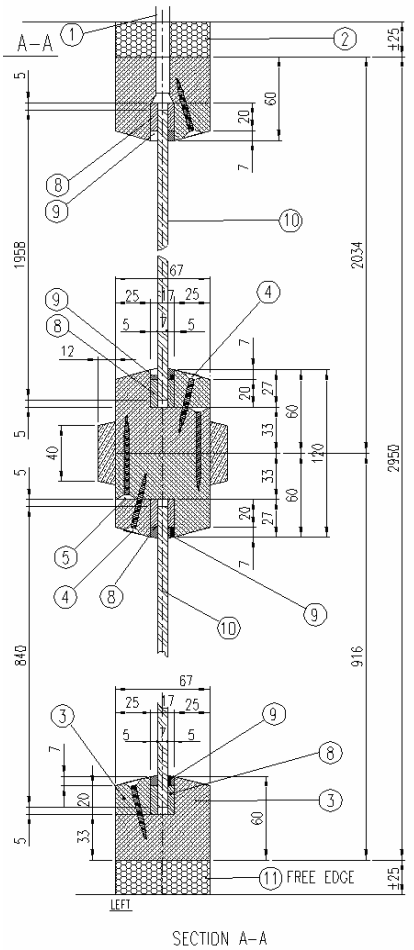
Direction of exposure: the window framework and the glass elements are symmetrical. Some timber glazing beads were orientated towards the fire exposed and some were orientated towards the non-fire exposed face.

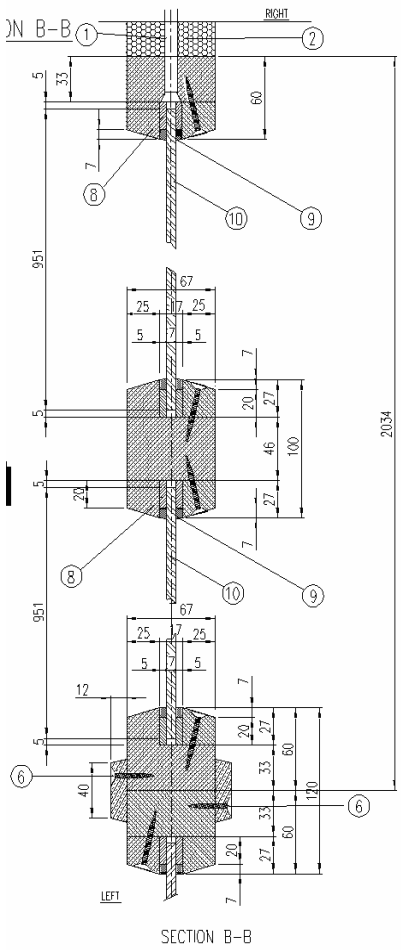
Summary of WF Test Report No. 158419

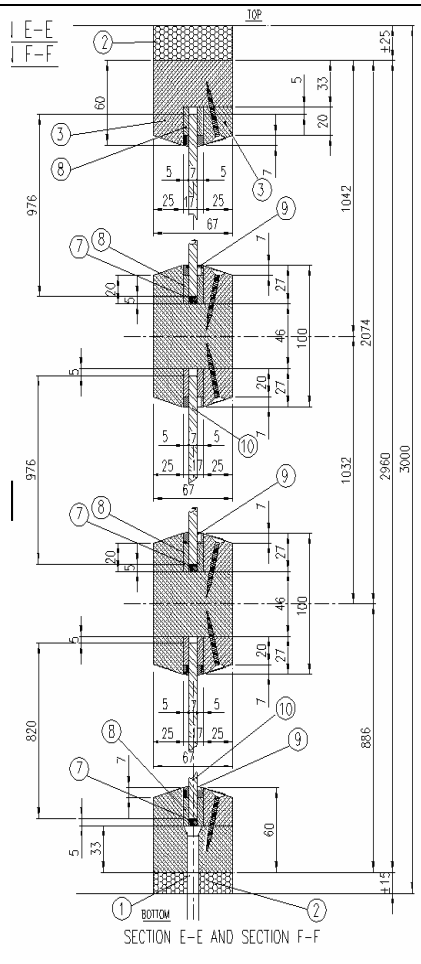


Key to drawings:

1. Fixing – Hilti 100HT
2. Insulation – Superwool 607
3. Frame – hardwood (meranti)
4. Screw – 4 mm by 50 mm
5. Screw – 5 mm by 60 mm
6. Screw – 3.5 mm by 35 mm
7. Setting block – Promatect H
8. Glazing strip – Superwool 607
9. Glazing seal – Dow Corning Firestop 700
10. Glass – Pyrobelite 7
11. Insulation - Rockwool







Typical Sections through Transoms, Mullions and Perimeter Edges

Field Of Direct Application:
▪ Decrease in the linear dimensions of panes. ▪ Change in the aspect ratio of panes provided that the largest dimension of the pane and its area are not increased. ▪ Decrease in the distance between fixing centres. ▪ Decrease in the distance between mullions and/or transoms. ▪ Increase in the dimensions of framing members. ▪ Change in the angle of installation by up to 10° from the vertical. ▪ No extension of height is allowed above that tested. ▪ The result of the test is applicable to any other high density rigid supporting construction that has a greater fire resistance than that of the specimen.

Test Results:		
Integrity	cotton pad	37 minutes
	gap gauges	40 minutes (no failure)
	sustained flaming	37 minutes
Insulation	Time after which temp. rise of unexposed face exceeds 140°C (average) or 180°C (maximum)	7 minutes
Radiation	Time after which radiation exceeds 15kW/m^2	40 minutes (no failure)

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 7.5.3 of EN 13501-2: 2003.

4.2 Classification

The product, 'Pyrobelite 7' may be classified according to the following combinations of performance parameters and classes as appropriate.

R	E	I	W		*t*	-	M	C	S	IncSlow	sn	ef	r

Considering the tests submitted for classification, 'Pyrobelite 7' provides the following classification for the tested glass type:

Fire resistance classification:
E30, E20, E15
EW30, EW20

4.3 Field of application

The results of the tests are directly applicable to similar constructions where one or more of the changes listed below each test summary are made and the construction continues to comply with that appropriate design code for its stiffness and stability. Other changes are not permitted.

5. Limitations

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

SIGNED

A Kearns
Technical Manager

APPROVED

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Technical and Business Development Manager

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