

# FIRE RESISTANCE CLASSIFICATION REPORT No. 12342B

## Owner of the classification report:

GLAVERBEL S.A./N.V.  
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## Introduction:

This classification report defines the classification assigned to a fully insulated glazed non-loadbearing wall (PYROBEL 16 in a Janisol2 (Jansen) frame) in accordance with the procedures given in EN 13501-2: 2003: Fire classification of products and building elements – Part 2: Classification using data from fire resistance tests, excluding ventilation services.

This classification report consists of five pages and may only be used or reproduced in its entirety.

## 1 Details of classified product

### 1.1 General

The element is defined as a fully insulated glazed non-loadbearing wall (PYROBEL 16 in a Janisol2 (Jansen) frame). Its function is to resist fire in respect of the fire performance characteristics given in clause 5 of EN 13501-2: 2003.

### 1.2 Product description

The element is fully described in the test report provided in support of this classification listed in Clause 2.1.

#### Short product description:

The glazed wall consists of a window framework (JANISOL 2) composed of vertical and horizontal steel sections welded to each other and six PYROBEL 16 glass elements. The glazing 'clip-on' beads are all on the exposed side.

## 2 Test report and test results in support of this classification

### 2.1 Test report

Name of laboratory that undertook the test	Identification number of test report	Owner of test report	Date of test	Test method
WFRGENT N.V.	12342A	GLAVERBEL S.A./N.V.	10/08/2006	EN 1363-1: 1999 EN 1364-1: 1999

Exposure conditions of the fire resistance test:

Temperature/time curve: standard as in EN 1363-1: 1999.

Direction of exposure: the window framework is a symmetrical construction. The glazing beads are clipped on the exposed side.

One side exposed to the fire.

No load applied.

One vertical edge fixed, one vertical edge free.

## 2.2 Test results

Parameter	Results
<b>Loadbearing capacity</b>	Not applicable
<b>Integrity</b>	
Time of ignition of cotton pad	No failure at test termination
Time of occurrence of sustained flaming	No failure at test termination
Time of failure of gap gauge criterion	52 minutes
<b>Thermal insulation</b>	
Time after which the mean temperature rise at the unexposed side exceeds 140 °C	36 minutes
Time after which the maximum temperature rise at the unexposed side exceeds 180 °C	33 minutes
<b>Radiation</b>	
Time after which the radiation exceeds 15 kW/m <sup>2</sup>	No failure at test termination
<b>Mechanical action</b>	
No impact test	Not applicable

The test duration was 55 minutes.

### 3 Classification and field of application

#### 3.1 Reference of classification

This classification has been carried out in accordance with clause 7.5.2 of EN 13501-2: 2003.

#### 3.2 Classification

The element is classified according to the following combinations of performance parameters and classes as appropriate. No other classifications are permitted.

**E 30, E 20**  
**EI 30, EI 20, EI 15**  
**EW 30, EW 20**

#### 3.3 Field of direct application

This classification is valid for the following end use applications according to EN 13501-2: 2003 and EN 1364-1:1999.

The results of the fire test are directly applicable to similar constructions 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 changes are not permitted.

- unlimited increase or decrease in the wall width of 3 m.
- unlimited decrease in the wall height of 3 m. No extension in height is allowed above 3 m.
- decrease in linear dimensions of the panes.
- change in the aspect ratio of the panes provided that the largest dimension of the pane and its area are not increased.
- decrease in the distance between mullions and/or transoms.
- decrease in distances between fixing centres.

- increase in the dimensions of framing members.
- screwed-on glazing beads, if 'clip-on' beads were incorporated in the test specimen.
- allowances for expansion if none were incorporated in the test specimen.
- change in the angle of installation of up to 10° from the vertical.

#### 4 Duration of the validity of the classification report

At the time the standard EN 13501-2: 2003 was published, no decision was made concerning the duration of validity of the classification document.

#### 5 Warning

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

Report	Name	Signature*	Date
Prepared by	N. DE KLERCK		01 MAART 2007
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* For and on behalf of WFRGENT N.V.			

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