

FIRE RESISTANCE CLASSIFICATION REPORT No. 11560B

Owner of the classification report:

GLAVERBEL S.A./N.V.
Chaussée de la Hulpe, 166
1170 BRUXELLES

Introduction:

This classification report defines the classification assigned to a fully insulated glazed non-loadbearing wall (PYROBEL 25 in a Janisol3 (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 25 in a Janisol3 (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 3) composed of vertical and horizontal steel sections welded to each other and five PYROBEL 25 glass elements and one sealing panel. 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. | 11560A | GLAVERBEL S.A./N.V. | 22/02/2005 | 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 |
|--|--------------------------------|
| Loadbearing capacity | Not applicable |
| Integrity | |
| Time of ignition of cotton pad | No failure at test termination |
| Time of occurrence of sustained flaming | 82 minutes |
| Time of failure of gap gauge criterion | No failure at test termination |
| Thermal insulation | |
| Time after which the mean temperature rise at the unexposed side exceeds 140 °C | 79 minutes |
| Time after which the maximum temperature rise at the unexposed side exceeds 180 °C | 63 minutes |
| Radiation | |
| Time after which the radiation exceeds 15 kW/m ² | No failure at test termination |
| Mechanical action | |
| No impact test | Not applicable |

The test duration was 82 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 60, E 30, E 20
EI 60, EI 45, EI 30, EI 20, EI 15
EW 60, 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 |
| Reviewed by | Prof. dr. ir. P. VANDEVELDE |  | 01 MAART 2007 |
| * For and on behalf of WFRGENT N.V. | | | |

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