efectis nederland
The European experts in fire safety

OBS - UTDRAG UR TESTPROTOKOLL , EJ KOMPLETT

CLASSIFICATION OF FIRE RESISTANCE PERFORMANCE ACCORDING TO EN 13501-2:2007+A1:2009 OF A ROLLING SHUTTER TYPE RGS EI (1) 120 MOUNTED ON A WALL

Sponsor:

Prepared by:	Efectis Nederland B.V. Centre for Fire Safety Lange Kleiweg 5 P.O. Box 1090 2280 BC RIJSWIJK The Netherlands
Notified Body No:	1234
Product name:	Rolling shutter RGS EI (1) 120 mounted on a wall
Classification report No.:	2012-Efectis
Issue number:	01
Project number:	201
Date of issue:	April 2012

1. Introduction

This classification report defines the classification, according to the procedures given in EN 13501-2:2007+A1:2009, assigned to a Rolling shutter RGS EI (1) 120 mounted on a wall.

2. Details of classified product

2.1 General

3. Test report & test result in support of classification

3.1 Test report

Name of Laboratory	Name of sponsor	Test report No.	Test method
Efectis Nederland BV Centre for Fire Safety		2012-Efectis	EN 1634-1:2008

3.2 Test results

3.2.1 Test report 2011- Efectis

	rolling shutter mounted on the exposed side of the wall	rolling shutter mounted on the non-exposed side of the wall
Integrity, (**E**)		
– Cotton pad	133 minutes	180 minutes no failure
– Gap gauges		
∅ 6 mm	135 minutes no failure	180 minutes no failure
∅ 25 mm	135 minutes no failure	180 minutes no failure
– Flames longer than 10 sec.	133 minutes	180 minutes no failure
Thermal insulation, (**I**)		
– Average temperature rise	135 minutes no failure	176 minutes
– Maximum temperature rise I_1	135 minutes no failure	175 minutes
– Maximum temperature rise I_2	135 minutes no failure	175 minutes
Heat radiation, (**W**)	135 minutes no failure	180 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 of EN 13501-2:2007+A1:2009.

4.2 Classification

The fire resistance of a Rolling shutter RGS EI (1) 120 mounted on a wall:

Fire resistance classification:

Rolling shutter RGS EI (1) 120 mounted on a wall on the exposed side

E120, $EI_1$120, $EI_2$120, EW60

Rolling shutter RGS EI (1) 120 mounted on a wall on the non-exposed side

E180, $EI_1$120, $EI_2$120, EW60

4.3 Field of application

The conclusions in chapter 4 apply exclusively to door/frame structure types mounted in an aerated concrete wall which are equivalent in detail, including fittings/furniture and materials used as the tested structure and that also comply with the following conditions:

4.3.1 Specific restrictions on materials and construction

- The dimensions of metal wrap around frames may be increased to accommodate increased supporting construction thickness. The thickness of the metal may also be increased by up to 25 %.
- The type of metal shall not be changed from that tested.

4.3.2 Decorative finishes

- Since according to expectations a paint finishing layer does not contribute to the fire behaviour, applying a paint coating to the door surface is allowed.
- Decorative laminates and wood veneers with a maximum thickness of 1.5 mm may be added to the surfaces, but not the edges.

4.3.3 Fixings

- The number of fixings to attach the frame to the support structure may be increased but not decreased. The centre to centre distance between the fastenings may be reduced but not increased.

4.3.4 Hardware

- The number of locks may be increased but not decreased.

4.3.5 Permissible size variations

- For EI_1120 and EI_2120 classification the dimensions of the rolling shutter may be enlarged with the following percentages:
  - 30% in height;
  - 10% in width.

4.3.6 Other changes

- The relative position of movement restrictors will remain the same for smaller rolling shutters than that tested, or any change in the distance between them will be limited to the same percentage reduction as the decrease of the specimen size.
- The metal thickness of side guides and barrel carrying end plates may be increased by up to 50 % but it shall not be reduced beyond metal industry tolerances.
- The clearance between the end of the shutter laths and the inside faces of the guides shall be increased in proportion to the increase in width of the laths The tightness (overlap) between the shutter curtain and the vertical guides shall not be reduced for size decreases, but shall be increased proportionally for the increase in width.

4.3.7 Support structure

- The rolling shutter built on to a standard rigid support construction as specified in EN 1363-1 can be applied to a door set mounted in the same manner in a wall provided with a density of at least 650 ±200 kg/m^3 and a minimum wall thickness of 200 mm.

5. Limitations

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

SIGNED **APPROVED**

P.W.M. Kortekaas S. Lutz