

Summary of Research Product properties

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Fire resistance according to EN 1634-1:2008 of a thermal insulating roller blind of Hoefnagels, type EI

Sponsor/supplier:
Hoefnagels Brand- en Bedrijfsdeuren bv
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Efectis Nederland BV:
A TNO company

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By order of the company Hoefnagels Brand- en Bedrijfsdeuren, located in Tilburg, The Netherlands, a fire resistance test is examined of a thermal insulating roller blind of Hoefnagels, type EI mounted in an aerated light weight concrete wall with a thickness of 150 mm.

The fire test was carried out according to EN 1634-1:2008 with the construction mounted at the fire side. Details and results are noted in Efectis report 2010-Efectis-R0314 dated March 2010.

Several characteristic data of the examined construction are as follows:

Curtain : stainless steel wire glass fabric construction
height: 3300 mm - width: 3500 mm; provided with intumescent material in roll form

Criterion	According to EN 1634-1: 2008
Integrity (E)	38 minutes
Thermal insulation (I)	
Average temperature	7 minutes
Maximum temperature (I ₁)	29 minutes
Maximum temperature (I ₂)	30 minutes
Radiation (W)	37 minutes

Classification according EN 13501-2:2007

The classification, Efectis report 2010-Efectis-R0315 dated March 2010, has been carried out in accordance with clause 7 of EN 13501-2:2007: E 30 and EW 30.

Conditions and direct field of application

The results given above are only valid for a roller blind, type EI which is the same in detail as the tested structure and which comply with the following conditions:

- The type of curtain shall not be changed from that tested;
- The type of intumescent material in the curtain sections shall not be changed from that tested;
- The type of metal shall not be changed from that tested;
- The thickness of the metal may be increased by up to 25%;
- The number of fixings used to attach the side channels to the supporting construction may be increased but shall not be decreased and the distance between fixings may be reduced but shall not be increased;
- The construction can be used in a supporting construction of aerated light weight concrete with a minimum thickness of 150 and a density of at least 650 kg/m³.

Assessment according to Annex A of NEN 6069:2005

After the fire test, an assessment have been carried out by Efectis, ref. Efectis report 2010-Efectis-R0479. The conclusion in this report is as follows.

The roller blind construction as tested and described in report 2010-Efectis-R0314 can be classified according to NEN 6069: 2005 as a thermal insulated roller blind for a period of at least 30 minutes under the following conditions.

- The roller blind is constructed with a fabric with a thickness of approx. 0.6 mm ± 15% and 700 g/m²;
- The roller blind is constructed as a two layer fabric filled with intumescent material, type EG;
- The side guide channels are insulated with Promatect strips, dimensions 75 x 20 mm and 110 x 20 mm (w x t);
- The height and or the width of the curtain construction can be increased by up to 50% provided that the area is not increased by more than 50%;
- The curtain construction can be mounted at the non-fire side also.

