

ift Rosenheim GmbH
Brandschutzzentrum Nürnberg
Tillystraße 2 ♦ 90431 Nürnberg

ELTON B.V.
Herrn Fokke Ros
2E Energieweg 5
9301 LL Roden
Niederlande

ift Rosenheim GmbH
Brandschutzzentrum Nürnberg

Ihr Zeichen
Ihre Nachricht vom 23. September 2015
Unser Zeichen ej
Telefon 08031 261- 2459
Telefax 08031 261- 2507
E-Mail etzel@ift-rosenheim.de
Rosenheim 28. September 2015

ift Rosenheim fire test with the operation number 15-001653

Dear Mr Ros,

Herewith we confirm the implementation of two small scale fire tests according to EN1363-1 and EN 1634-1 on 20 August 2015. The ift Rosenheim GmbH project numbers are 15-001653-PR01 and 15-001653-PR02.

The doors dimensions were (L x W x H) 393 mm x 392 mm x 54 mm. The structure of the door leaf consisted of a framework of eucalyptus (W x H) 48.5 mm x 75 mm, a chipboard core H = 42.5 mm (350 kg / m³), a of board "MGO Fiberboard M" d = 6 mm on each side and a MDF top layer d = 2.8 mm on each side. Above and sidelong the foaming agent "Firetherm GH" (W x H) was placed 15 mm x 2 mm in a groove in the door edge.

The door panel of the specimen 15-001653-PR01 was installed in a four-sided framed wooden construction of Meranti (650 kg / m³). The specimen 15-001653-PR02 in a four-sided framed wooden construction of Merbau (650 kg / m³). The frame with the dimensions (W x H) 500 mm x 500 mm and a cross section (B x D) of 51 mm x 114 mm had a three-sided framed silicone gasket type "1501". The door leaves were fixed with two door hinges of the type "S2 HMR C1122" in the frame. The locking was ensured by a sliding bolt.

The bottom seal "EllenMatic Soundproof Quickfix" of the company ELTON B.V. Netherlands was installed in the specimen with the project number 15-001653-PR01 in a groove (W x H) x 15,5 mm x 30 mm at the door bottom edge. The evaluation of the temperature measuring points on the unexposed side of the specimen surface showed an exceeding of the permissible temperature increase in 51 minutes with 187.3 K. The criteria "integrity" remained until the end of fire test in the 62nd minute.

The bottom seal "EllenMatic Soundproof" of the company ELTON B.V. Netherlands was installed in the specimen with the project number 15-001653-PR02 in a groove (W x H) 15,5 mm x 30 mm at the door bottom edge. The evaluation of the temperature measuring points on the unexposed side of the specimen surface showed no exceeding of the permissible temperature rise until the end of fire test in the 62nd minute. The maximum temperature increase was 187.1 K. The loss of the integrity happend in the 55. minute by sustained flames at the lower edge of the door leaf.

One possible classification according to EN 13501-2 according to the achieved results of the specimens with the project numbers 15-001653 and 15-001653-PR01-PR02 is:

E 45 for the criteria "integrity"

EI 45 for the criterion insulation

Best regards

ift Rosenheim



i.A. Jörg Etzel, Dipl.-Ing.(FH)

Produktiongenieur

Geschäftsbereich Bauteile