

Resistance to Fire Classification Report

Product:

Single leaf hinged door

O. H. Industri A/S
Smedevej 17
DK-7430 Ikast
Denmark

File: PC10074
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The present classification report supersedes DIFT's classification report dated 2006-02-01 under the file number below

1 OWNER

O. H. Industri A/S
Smedevej 17
DK-7430 Ikast
Denmark

2 INTRODUCTION

This classification report defines the classification assigned to the product in accordance with the procedures given in EN 13501-2:2003.

The designation for the product is: none

3 DETAILS OF CLASSIFIED PRODUCT

3.1 GENERAL

The product is defined as a door.

Its classification is valid for the following end use application: Door mounted in a vertical fire separating building element with a fire resistance of at least EI 30.

3.2 DESCRIPTION

The door is a single leaf hinged door. The door leaf consists of surface layers of plywood, a core of 13 mm gypsum board and 2 x 22 mm soft wood and a door leaf frame of pinewood. The door leaf includes a 756 x 966 x 32 mm glass pane. The door frame consists of pinewood.

The door leaf measures (thickness x width x height) are 68 mm x 1123 mm x 2343 mm.

The build-up of the door is detailed in the test reports in support of this classification. The test reports is quoted in clause 4.

4 TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION



4.1 TEST REPORTS

Name of Laboratory	Name of sponsor	Test report File No.	Test method	Date of test
Danish Institute of Fire and Security Technology	O. H. Industri A/S	PG11503, dated 2005-12-21	EN 1634-1	2005-10-04
Bodycote warringtonfire	O. H. Industri A/S	157246, dated 2007-02-13	EN 1634-3 clause 3.1.2	2006-08-16
Bodycote warrington apt	O. H. Industri A/S	158347, dated 2006-10-23	EN 1191	2006-10-12 to 2006-10-24

4.2 TEST RESULTS

Test method	Parameter	Results
EN 1634-1	<u>Integrity</u>	
Test duration: 49 minutes	- Time of ignition of cotton pad:	49 minutes
	- Time of occurrence of sustained flaming:	No failure at test termination
	- Time of failure of gap gauge criterion:	49 minutes
	<u>Insulation</u>	
	- Time of failure of insulation due to failure of integrity:	49 minutes
	- Time after which the measured temperature rise at the unexposed surface of the door leaf exceeds 140°C:	No failure at test termination
	- Time after which the maximum temperature rise at the unexposed surface of the door leaf 25 mm from the gap between the door leaf and the door frame exceeds 180°C:	No failure at test termination
	- Time after which the maximum temperature rise at the unexposed surface of the door leaf 100 mm from the gap between the door leaf and the door frame exceeds 180°C:	No failure at test termination



	<ul style="list-style-type: none">- Time after which the maximum temperature rise at the unexposed surface of the door frame exceeds 180°C:- Time after which the maximum temperature rise at the unexposed surface of the door frame exceeds 360°C:	No failure at test termination No failure at test termination
EN 1634-3 Pressure: 25 Pa	<u>Smoke leakage</u> (at ambient temperature) <ul style="list-style-type: none">- Linear leakage rate (positive)- Linear leakage rate (negative)	 1,3 m ³ /h/m 1,1 m ³ /h/m
EN 1191	<u>Durability of self-closing</u> <ul style="list-style-type: none">- Number of test cycles completed	 50.000 cycles

5 CLASSIFICATION AND FIELD OF APPLICATION

5.1 REFERENCE

This classification has been carried out in accordance with clause 7.5.5 of EN 13501-2:2003.

5.2 CLASSIFICATION

The resistance to fire classification for the product is: **EI₁ 45-S_a-C3 / EI₂ 45-S_a-C3**

5.3 FIELD OF APPLICATION

This classification is valid for the following end use conditions for the door:

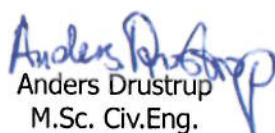
- The thickness of the door leaf and the density of each of the materials may be increased provided that the total increase in the weight of the door leaf is not greater than 25 %.
- The dimensions and the density of the frame may be increased.
- The height and width of the glass pane may be decreased, but the distance between the edge of glazing and the perimeter of the door leaf may not be reduced.
- The door leaf may be produced without a glass pane.
- The door leaf may be painted.




- Decorative laminates and timber veneers up to 1.5 mm thickness may be added to the door leaf faces (but not to the door leaf edges).
- The number of fixings to attach the door to the supporting construction may be increased and the distance between the fixings may be reduced.
- Unlimited reduction in door leaf width and door leaf height is permitted on the condition that the relative positioning of movement restrictors (e.g. hinges) remain the same as tested.

6 LIMITATIONS

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


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