



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2008/67/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-5693**

This is to certify that the
Fire Doors

with type designation(s)
A-60 SLIDING DOOR TYPE HB-S

Manufacturer
NORAC Baggerød A/S
HORTEN, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/and IMO FTP Code

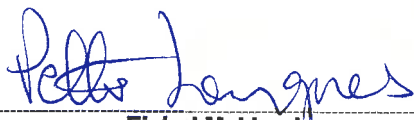
Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2009-11-13
for Det Norske Veritas AS



This certificate is valid until
2012-01-04

Notified Body No.: **0575**



Eivind Mykland
Head of Department

DNV local office:
DNV Sandefjord



Rolf Emilsen
Surveyor



Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.
The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-5693
Item No.: A.1/3.16
Job Id.: 344.1-000463-8

Product description

"A-60 Sliding door type HB-S"

single leaf sliding door with doorblades composed of 1,5mm steel sheets, insulated with 2 x 38 mm "Firemaster Blanket X-607" with density 96kg/m³.

The door may be fitted with hoseport fitted in the lower part of the door.

The door may be fitted with a window, composed of 21 mm Pyrostop A-60 window fitted into a 1,5 mm steel frame and insulated with Duraboard and Promatec.

Total doorblade thickness: 79 mm.

For further details see approved drawings listed below.

Application/Limitation

Approved for use as an integrated part of fire retarding divisions class A-60.

Max. clear opening 2100 x 2100 mm (W x H).

Max. size of exposed fire technical glazing unit: 500 x 200 mm (H x W)*.

* For USCG approval the window area is limited to 645 cm².

The insulation materials used and any surface materials used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Each product is to be supplied with its manual for installation and maintenance.

Type Approval documentation

Test Reports No:

PG 10672, Serial No. 7883, dated 10 January 2001

PG 10932, Serial No. 8236 dated 8 October 2001

PG 10591, Serial No. 7564 dated 11 July 2000

PG10939, Serial No. 8047 dated 9 October 2001

PG10949-3 dated 12 December 2001 (Alternative frames).

Assessment report PH13440 dated 27 October 2010 (A-60 window).

All test reports from Danish Institute of Fire Technology (DIFT), Hvidovre, Denmark.

Drawings:

BH15-G03, Rev.3 dated 3 October 2000 (General drawing)

BH15-G04, Rev.1 dated 3 October 2000 (Hose port)

BH15-G05, Rev.1 dated 10 September 2001 (Alternative frames)

15042-001, Rev.0 dated 9 October 2009 (A-60 window)

All drawings from Norac Baggerød AS.

Tested according to IMO FTPC Part 3 (IMO Res. A.754 (18)).

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating, Mark of Conformity and USCG approval (see below and page 3).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.





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USCG Approval

An U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of certificates of conformity for marine equipment" signed 17 October 2005.

