DNV·GL

Certificate No:
MEDB000045H

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
IDM-SLH-A60-INT/FP

Issued to
InterDam Holding B.V.
Ridderkerk, Netherlands

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

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

This Certificate is valid until **2023-05-15**.

Issued at **Høvik** on **2018-05-16**

DNV GL local station:
Rotterdam, Product Certification /Verification

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

A 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.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

NORWEGIAN ACCREDITATION PROD 019

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

"IDM-SLH-A60-INT/FP"
A single leaf, hinged door with door leaf constructed of two skins of 1 mm galvanised steel sheet bonded to a calcium silicate core type Skamol Skamopro 300 with thickness of 70 mm. A Promaseal PL intumescent strip, 25 mm wide and 2.5 mm thick, is fitted to the entire perimeter of the door leaf, at the base a double strip was mounted. A Promaseal PL intumescent patch, 50 mm x 70 mm, 2.5 mm thick, to be placed in each corner of the door leaf.

Total door leaf thickness is 73 mm.

The door may be fitted with a window type Pyrostop A60, a multilayer glass pane with intumescent interlayer. The glass pane thickness is 27 mm.

The three sided door frame is comprised of two jambs and one top rail from 1.5 mm steel sheets. A rubber seal was contained in the folded cavity in the internal flange of the door frame. Around the perimeter of the door frame an intumescent strip, 25 mm wide and 2.5 mm thick, is provided. The door frame (1.5 mm) is to be bolted/screwed (M6) to an angle bar, which is intermittently welded to the bulkhead.

For further details see Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Maximum size of clear opening:	1305 mm x 2200 mm (W x H)
Maximum size of door leaf:	1341 mm x 2207 mm (W x H)
Maximum size of glazing unit clear opening:	400 mm x 400 mm (W x H)

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

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

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

Type Examination documentation

Test report No. 2017-Efectis-R001609 dated November 2017 from Efectis Nederland, Bleiswijk, The Netherlands.
Test report No. 2017-Efectis-R002145[Rev.1] dated December 2017 from Efectis Nederland, Bleiswijk, The Netherlands.
Assessment No. 2018-Efectis-R000249/ONR/TNL dated 9 February 2018 from Efectis Nederland, Bleiswijk, The Netherlands.

Drawing No. 07-007, sheet No. 21-201, Rev.F2, dated 24 August 2017 from maker.
Drawing No. 07-007, sheet No. 21-202, Rev.F2, dated 24 August 2017 from maker.
Drawing No. 07-007, sheet No. 21-211, Rev.F2, dated 23 October 2017 from maker.
Drawing No. 07-007, sheet No. 21-212, Rev.F1, dated 24 August 2017 from maker.
Drawing No. 07-007, sheet No. 21-213, Rev.F1, dated 24 August 2017 from maker.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

The door has been successfully tested for extended test period of 68 minutes.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG approval if applicable (see page 1).

USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.