

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)
Libra HDS80-A60

Issued to

Libra-Plast A/S
HAREID, Norway

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 **2023-05-13**.

Issued at **Høvik** on **2018-05-14**

DNV GL local station:
Ulsteinvik

Approval Engineer:
Fryderyk Hoga



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

"Libra HDS80-A60"

is a single-leaf steel door equipped with 4 hinges. The door is insulated with two 40 mm thick layers of mineral wool type Isover U Sea Protect 96, with nominal density of 96 kg/m³ (manufactured by ISOVER Saint Gobain) and 6 mm thick layer of Insulfrax paper with nominal density of 150 kg/m³ (manufactured by Unifrax Ltd.) fitted between them. Insulation is covered from both sides with 2 mm thick steel sheets and whole door is stiffened with 5 vertical steel L-profiles with dimensions 40 x 40 x 5 mm (W x B x T). A silicone-rubber gasket and Ruko intumescent gasket were applied around the perimeter of the door leaf.

Door frame is made of 3 mm thick steel and may be bolted (30 bolts M10x30) or welded to the bulkhead. Mastic Firestop 400 (manufactured by FireSeal) to be used between door frame and bulkhead plate before bolting.

The door may be fitted with 27 mm thick window type Pilkington Pyrostop 60-201 (manufactured by Pilkington). Emergency exit panic bar type Glutz 8610 can be installed instead of door handle.

Total door leaf thickness: 90 mm

For further details see drawings and test report stated under 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.

Max. size of clear door opening:	1000 x 2100 mm	(W x H)
Max. size of door leaf:	1095 x 2165 mm	(W x H)
Max. size of clear window glazing unit:	350 x 550 mm	(W x H)

The insulation materials used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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, use and maintenance.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

The door has been successfully tested with extended test period of 68 minutes in compliance with IMO MSC.1/Circ. 1319.

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 number if applicable (see first page).

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.