

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)
WR100/WR30-A60.80

Issued to

Libra-Plast A/S
HAREID, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
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 **2024-02-03**.

Issued at **Høvik** on **2019-02-04**

DNV GL local station:
Ulsteinvik

Approval Engineer:
Synnøve Bolstad Eri



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"WR100/WR30-A60.80"

composed of single leafed hinged door with outer and inner steel sheets made of 6 mm and 1.25 mm respectively. The door blade is insulated with 40+40 mm thick insulation layers of type "Ultimate Marine Slab U Sea Protect 96-40" of density 100 kg/m³ (manufactured by Saint-Gobain Isover G+H AG). The 6 mm thick steel sheet is fitted with internal horizontal stiffeners (10 mm x 50 mm).

Total thickness of door leaf: 87 mm.

The door leaf is fixed to the door frame with multiple hinges. The door frame may be welded or bolted (bolts of type M12x20, max. spacing 100 mm) to the bulkhead. The connection between door leaf and frame is sealed with neoprene gasket and intumescent gasket.

The door is equipped with a locking system consisting of main handle or wheel connected to several fixing points.

The door leaf may be fitted with window of type "Pyrostop EI60" and 10 mm tempered safety glass, total thickness 37 mm, in the upper part of the door leaf.

For number of hinges, internal stiffeners and toggles see drawing no. A-1-00011 rev. C.

For further details, see drawings listed 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 door leaf:	1259 mm x 2109 mm (W x H)
Max. clear opening door:	1200 mm x 2050 mm (W x H)
Max. clear opening window:	600 mm x 600 mm (W x H)

The insulation materials and adhesives 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.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to watertightness, weathertightness, etc.).

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

Type Examination documentation

Test report No. 150071-11 dated 12 September 2015 from SP fire research, Trondheim, Norway.

Assessment report No. 150101-44 dated 2018-12-03 from RISE, Trondheim, Norway.

Drawing Nos. (all from the manufacturer):
T-3-26594 rev. E (2 pages) dated 13 August 2012,
D-3-26593 rev. G dated 13 August 2012,
LM-3-04273 rev. D dated 14 August 2012
LM-3-04274 rev. D dated 14 August 2012,
A-3-00265 rev. E dated 30 November 2015,
A-1-00011 rev. C dated 27 October 2017,
LG-3-00142 issue B (spacing bolts).



Job Id: **344.1-007532-1**
Certificate No: **MEDB00003BS**

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED 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.