

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)
A0 WR100/WR30

Issued to

Libra-Plast A/S
HAREID, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

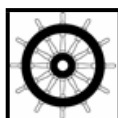
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-01-20**.

Issued at **Høvik** on **2020-01-21**

DNV GL local station:
Ulsteinvik

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, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A0 WR100/WR30"

composed of single leafed hinged door with door blade made of 5 mm steel plate.

The door may be fitted with a 27 mm circular window (type Pilkington Pyrostop 60-201), with or without an additional 10 mm tempered safety glass (facing outside), in the upper part of the door leaf.

The door can be equipped with a locking system consisting of opening wheels controlling the linkage rod.

The door frame may be welded or bolted (bolts of type M12x20, max. spacing 100 mm) to the bulkhead. When bolted, sealing "Firestop 400" shall be used.

Number of hinges and toggles, insulation around window and other details are given in drawings mentioned under Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-0. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Door outer dimensions: 969 mm x 2059 mm (w x h)
Max. size door clear opening: 910 mm x 2000 mm (w x h)
Max. clear opening window: Ø250 mm

Number of hinges may be reduced if the door is of less height (case by case approval).

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. 103060.28 dated 15 April 2008 from SINTEF, Trondheim, Norway.

Assessment report No. 103203.91 dated 23 July 2008 (tempered glass) from SINTEF, Norway.

Assessment report No. 103203.94 dated 21 August 2008 (opening wheels) from SINTEF, Norway.

Assessment report No. 103205.21 dated 5 December 2013 (bolted door frame) from SINTEF, Norway.

Drawing No. T-1-0178 (page 1 of 2) issue A dated 2 June 2008 from Libra-Plast AS.

Drawing No. T-3-18548 issue D dated 11 March 2008 from Libra-Plast AS.

Drawing No. LG-3-00142 issue B (spacing bolts) from Libra-Plast AS.

Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

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