DNV·GL

Certificate No:
MEDB000070A

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the A & B Class divisions fire integrity: A class divisions.

with type designation(s)
YB-A60FIV-1 Type Class A-60 Floating Floor

Issued to
Suzhou Yibo Industry & Trading Co., Ltd.
Suzhou, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1435.

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

This Certificate is valid until **2025-11-29**.
Issued at **Hamburg** on **2020-11-30**

DNV GL local station:
Shanghai

Approval Engineer:
Roland Priebe

Notified Body
No.: **0098**

for **DNV GL SE**

Christine Mydlak-Roeder
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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

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Product description

The **YB-A60FIV-1 Type Class A-60 Floating Floor** is in total 73 mm thick and to be applied on a stiffened core steel deck. The floating floor consists of seven layers from the bottom up of 1.5 mm thick damping material DP-SDI + 1.5 mm thick galvanized steel plate + 15 mm thick fireproof deck covering AC-JIII + 50 mm thick ABM-SR type rock wool + 2 mm thick galvanized steel plate + 1.5 mm thick damping material DP·SDI + l.5 mm thick galvanized steel plate.

The floating floor is installed in a steel frame (L 100 x 70 x 8 mm) continuously welded to the steel deck, with a 10 mm thick ceramic wool padded in between. The stiffened core steel side of the deck was the exposed side and the insulated side (the non-stiffened side) was the unexposed side.

According to test report no. 2015G-004 dated 2015-03-30 issued by TCLVN, which is not part of certification; the A-60 Deck has been tested according to noise and vibration.

Materials:
ABM-SR type rock wool produced by Shanghai ABM Rock Wool Co., Ltd. is 50 mm thick and has a nominal density of 140 kg/m³.

AC-JIII type levelling fireproof deck covering is provided by the client with a density of 1900 kg/m³.

DP-SDI is a primary deck covering produced by Suzhou Yibo Industry & Trading Co., Ltd with a density of 1300 kg/m³.

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

Approved for use as a horizontal fire retarding division of class A-60.

The deck coverings, insulation materials and primary deck covering 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.

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

Type Examination documentation

This certificate is based on the previous MED-B certificate 14740-15 HH issued 2015-10-12.

Test report No. FT15025 dated 2015-04-21 issued by Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO Res. MSC.307(88) - 2010 FTP Code, Annex 1, Part 3.

Marking of product

The product or packing is to be marked with:

- name and address of manufacturer,
- type designation,
- fire technical rating and
- the MED Mark of Conformity (see page 1) and
- USCG approval number, if applicable.