DNV·GL

Certificate No:
MEDB000014C

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" Class divisions, fire integrity

with type designation(s)
YB-FA60-2 Type Class A-60 Floating Floor

Issued to
Suzhou Yibo Industry & Trading Co., Ltd.
Suzhou 100, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO 2010 FTP Code.

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

This Certificate is valid until **2021-10-25**.

Issued at **Hamburg** on **2016-10-26**

DNV GL local station:
Shanghai CMC

Approval Engineer:
Timo Linn

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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

Product description
"YB-FA60-2 Type Class A-60 Floating Floor"
is composed of a stiffened steel deck of 5mm thickness and reinforced with stiffeners of L 100x 70 x 8mm.
Deck has been insulated with :

- 30 mm ABM-SR rock wool with nominal density of 140kg/m^3 as bottom layer.Manufacturer : Shanghai ABM rock Wool CO.Lfd.
- 5 mm steel mesh as mid layer
- 20mm AC-JIII fire proof deck covering with a density of 1700Kg/m^3. Manufacturer:Suzhou Yibo Industry & Trade Co.,LTD.

Insulation has been fixed with an adhesive of approved type.

The stiffened steel side of specimem was exposed to fire while the insulated (non stiffened side) side was unexposed to the fire.

For further details, see test report figur1 (page 7 of 20) to figure 3 (page 9 of 20).

Application/Limitation
Approved for use as horizontal fire retarding division of class A-60.

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.

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

Type Examination documentation
Fire test report No. FT16190 dated 1st July 2016, from Far East Fire Testing Centre, China

Tests carried out
Tested according to IMO 2010 FTP Code Annex1, part 3.

Marking of product
The product or packing is to be marked with name of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).