DNV·GL

Certificate No:
MEDB0000535

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)
A60-D1 Type Class A-60 Deck

Issued to
Yixing City Ocean Ship Material Co., Ltd
Yixing, 100, China

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

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

This Certificate is valid until **2024-07-04**.

Issued at **Hamburg** on **2019-07-05**

DNV GL local station:
Jiangyin

Approval Engineer:
Roland Priebe

Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"A60-D1 Type Class A-60 Deck"
is composed of a steel structural core with stiffeners and insulation material.

Construction:
The core steel plate is 5 mm thick and is welded lengthwise with stiffeners made of L100 x 70 x 8 angle steel spaced at 600 mm.

The insulation material is TG-II type ceramic wool from the applicant himself. It is nominal 30 mm thick, has a nominal density of 170 kg/m³ and 2.5 % organic content.

Th insulation material is applied on the surface of the stiffened side and on the stiffener with one layer of 30 mm thick insulation. It is fixed with pins with a max. distance between the pins of 205 mm in width direction and of 500 mm in length direction. The pins are 3 mm in diameter and the securing washers are 30 mm in diameter, both made of steel.

For further details see test report stated under "Type Examination documentation" below.

Application/Limitation

This certificate is replacing the previous MED-B 61832-14 HH issued on 2014-09-17.

Approved for use as a 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, use and maintenance.

Type Examination documentation

Test report no. FT13229 dated 2013-08-07 issued by Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO 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, the MED Mark of Conformity and USCG approval number, if applicable (see page 1).