DNV·GL

Certificate No:
MEDB0000664

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 "B" Class divisions, fire integrity

with type designation(s)
B30A(IV) type B-0 Class Bulkhead Panel

Issued to
Huanan Building Materials (Shenzhen) Co., Ltd.
Shenzhen, Guangdong, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581

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

This Certificate is valid until **2025-03-16**.
Issued at **Hamburg** on **2020-03-17**

DNV GL local station:
China South NB

Approval Engineer:
Timo Linn

Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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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Job Id: **344.1-010079-1**
Certificate No: **MEDB0000664**

Product description

"**B30A(IV) Type Class B-0 Bulkhead Panel**"

The overall dimension of the B Class Bulkhead specimen is 3000mm wide x 2465mm high, assembled with five 2300mm high x 600mm wide x 30mm thick compound rock wool plates covered with 0.55 mm thick galvanized steel plates. These bulkhead panels are wedge jointed, and a stiffener made by 0.5mm thick galvanized steel plate is fixed at the panel joint.
The whole bulkhead panel is bounded round with the enclosed frame made by angle steel of L63mm x 63mm x 5mm and is fastened by angle steel of L30mm x 30mm x 3mm.
There is a L-type GRP bottom tray for bathroom unit of 3mm thick and 50mm high fixed at the bottom of the compound rock wool plate, which is made by the client itself. The 182mm high bathroom unit bottom tray support is made by 1.5mm thick steel plate, which is fixed to the compound rock wool plate by six ST4.2 self-tapping screws.
Adhesive of approved type has used in between the galvanized steel plate and rock wool for bonding.

Total panel thickness is 30 mm.

Insulation material
Rock wool produced by Rockwool Firesafe Insulation (Guangzhou) Co., with nominal thickness 50mm, nominal density 120kg/m^3, ≤0.5% in moisture content and ≤4% in nominal organic content.

For further details see drawing listed under Type Approval documentation below.

Application/Limitation

Approved for use as a vertical fire retarding division of Class B-0.

Maximum size of bulkhead panels: 600 mm x 2300 mm (W x H).

Any surface materials used have to be approved for smoke and toxicity and low flame-spread characteristics (IMO 2010 FTP Code parts 2 and 5) when required according to relevant rules and regulations.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5.

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

Type Examination documentation

Test report No. FT18226 dated 16th of October 2018 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing No. Q354HN136-00SY page 1 to 6, Rev. A, dated 20th of April 2018 from the manufacturer.

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. (see first page).