

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)
Class B-0 Navy-Panel Wall

Issued to
KAEFER Schiffsausbau GmbH
Bremen, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2.3.4 & II-2/9 and IMO 2010 FTP Code

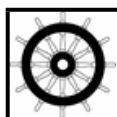
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-01-31**.

Issued at **Hamburg** on **2019-02-01**

DNV GL local station:
Bremerhaven

Approval Engineer:
Pavel Golyshev



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"Class B-0 Navy-Panel Wall"

The wall system consists of individual, prefabricated metal panels which are held together in a cassette-like form by means of multiple flanged profiling at the panels' vertical edges (without use of screws).

An individual panel is composed (from the side unexposed to fire) of 0.5 mm thick steel sheet, 0.8 mm thick corrugated aluminium sheet fixed to the steel sheet on the other side with an adhesive of approved type. Further, three perforated sheet strips made by 1 mm thick aluminium plate of specification 540 mm x 200 mm (width x height) are fixed across the height of each panel by means of the approved adhesive.

The panels' vertical edges are made by multiple flanged profiles (M- and V-edge types) and are partly insulated with mineral wool of type Rockwool RPI 17 (nominal density: 170 kg/m³, provided by Rockwool International A/S).

Total panel thickness: 23 mm.

For further details, please see test report with included drawings listed under Type Examination documentation below.

Application/Limitation

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

Tested with the aluminium corrugated sheet and perforated sheet strips exposed to fire.

Maximum panel size: 600 mm x 2320 mm (width x height).

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

Test report No. 20180242 dated 14th of August 2018 issued by MPA Dresden (Fire Test Laboratory) Germany.

Tests carried out

Tested according to IMO Resolution MSC.307(88) – 2010 FTP Code, Annex 1, 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 and USCG Approval Number if applicable (see first page).