EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000ARU
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **A’ & ’B’ Class divisions fire integrity: - ’A’ class division**

with type designation(s)
RAC-PLUS Aluminium Bulkhead & Aluminium Channels – 150 mm Air Gap

issued to
CBG Systems International Pty Ltd
DERWENT PARK, **Australia**

is found to comply with the Implementing Regulation **(EU) 2024/1975** for
Item no. **MED/3.11a** (Row **2 of 2**)
according to the following requirements:
SOLAS 74 Reg. II-2/3.2, SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1616, IMO MSC.1/Circ.1621, IMO MSC/Circ.1120

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

Date of issue: **2025-03-03**

Expiry date: **2030-03-02**

DNV local unit:
Australia NB

Approval Engineer:
Tessa Biever

Notified Body
No.: **0575**

for **DNV AS**

Christine Mydlak-Röder
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.

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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) 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 USD 300 000.

Product description

'RAC-PLUS Aluminium Bulkhead & Aluminium Channels – 150 mm Air Gap'
Aluminium structural bulkhead insulated on the stiffened side exposed to the fire with Rapid Access Composite PLUS (RAC+) bulkhead structural fire protection system consisting of a composite panel supported by a framework, created by 0.45 mm thick “Ω” shaped aluminum channel, mounted on stand-off brackets using 2 steel screws diameter 5.5 mm. The unexposed side of the panels is fitted at 150 mm from the aluminum bulkhead plate.

The RAC+ panel is composed of a 20 mm layer of non-combustible material LW Marine Board (manufactured by UNIFRAX with density of 160 kg/m³) facing on both sides by means of Hybrid Inorganic Polymer System (HIPS) impregnated into a fiberglass cloth and covered with a facing material (exposed side& unexposed side). On both side of the panels, the surface products have low flame spread characteristics and may be intended as vapour barrier.

Joints between panels are covered with stainless steel cover strips, which are insulated with 6 mm insulation superwool paper (manufactured by Thermal Ceramics with density 230 kg/m³) and screwed to the framework at nominal 600 mm spacing by M6 stainless steel screws. Each intersection of 4 panels is supported by an aluminum corner support bracket and locking disc, covered with a pressed stainless steel cover plate insulated with 6 mm Superwool paper (manufactured by Thermal Ceramics with density 230 kg/m³).

For further details see documentation under Type Examination documentation below.

Application/Limitation

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

Restricted application: fire against insulated side.

Only the system consisting of structural aluminium bulkhead fitted with the insulated composite panels minimum 150 mm from the bulkhead, is approved as an A-60 class bulkhead.

Maximum panel dimensions: 2383 x 1183 mm (H x W).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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

Tests carried out

Tested in 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, MED Mark of Conformity and USCG approval number if applicable (see page 1).