

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No: MEDB00003DA Revision No:

2

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 Fire resisting divisions for high speed craft

with type designation(s)

"Rapid Access Composite" (RAC-LD) - non-load bearing deck 60

Issued to

CBG Systems International Pty Ltd DERWENT PARK, TASMANIA, Australia

is found to comply with the requirements in the following Regulations/Standards: Regulation (EU) 2022/1157,

item No. MED/3.34. SOLAS 74, Regulation X/3, 2000 HSC Code 7, IMO MSC.1/Circ.1457 and IMO 2010 FTP Code

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

This Certificate is valid until 2027-12-14.

Issued at Høvik on 2022-12-15

DNV local unit: Australia NB

Approval Engineer: **Tessa Biever**

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for **DNV AS**

Notified Body No.: **0575** Sverre Olav Bergli 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 1/2019 dated February 22nd, 2019.



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



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Job Id: **344.1-007576-3** Certificate No: **MEDB00003DA**

Revision No: 2

Product description

"Rapid Access Composite" (RAC-LD) - non-load bearing deck 60

is a structural fire protection system consisting of composite panels and light gauge stainless steel supporting structure, mounted so that a minimum 350 mm air gap is maintained between the back (non-fire side) of the panels and the aluminium deckhead plate.

Aluminium deck

Aluminium deck arrangement consists of minimum 3 mm aluminium plate stiffened by:

- aluminium I-beam girders with dimensions 175x5/80x8 mm fitted with pitch of 1200 mm.
- aluminium T-beam stiffeners with dimensions 34x40x3 mm fitted with pitch of 175 mm.

Equivalent stiffness could be accepted case-by-case.

Composite panels

"Rapid Access Composite" (RAC-LD) panels are composed of a 10 mm ALUCOIL aluminium honeycomb "LARCORE" panel (with 0.3 mm skins) and a layer of 6.5 mm thick insulation (compressed) CBG-RAC-I-Insulation (Superwool 60981A, 9.0 intumescent mat) laminated onto the honeycomb. On an exposed side panels are lined with self-adhesive veneer type "VenturetapeClad-1577 CW-WML".

The panels have nominal maximum dimensions of 2383 x 1183 mm and are typically 16.5 mm thick. The CBG-RAC-I-Insulation may be composed of Evanite 702 or Lauscha B-00-F or Lauscha B-02-F.

Supporting infrastructure and installation

Panels are mounted on a stainless-steel framework suspended below aluminium deck using Erico Caddy M6Ti clips with a 2 mm steel leg installed on stiffener flange. Clips are fitted with M6 steel eye bolt with rubber grommet. 4.76 to 6 mm steel hanging rods are installed between the eye bolt and the framework at nominal 1500 mm centres. Hanging rods are linked to steel grid structure supporting composite panels. Additional clips are riveted to the structure where additional support is required. Joints between panels are covered with stainless steel strips, which are insulated with 6.5 mm (compressed) thick CBG-RAC-I-Insulation and screwed to the framework at nominal 600 mm spacing. Each intersection of 4 panels is supported by a 0.55 mm stainless steel corner support bracket and locking disc and covered with a pressed stainless steel cover plate insulated with 6.5 mm (compressed) thick CBG-RAC-I-Insulation. An air gap of at least 350 mm is to be maintained between the aluminium deck plating and unexposed side of the panels.

For further details see documentation under Type Examination documentation below.

Application/Limitation

Approved for use as a non-load bearing fire-resisting deck 60.

During fire test the average temperature of aluminium deck did not exceed 150°C.

Only the combined product (supporting infrastructure, composite panels, air gap and aluminium deck arrangement) is approved as a fire resisting division. Maker is to ensure that the product is manufactured and installed as tested (see Type Examination documentation).

The insulation material, and any surface materials and adhesive used must be approved according to the Marine Equipment Directive and bear the MED Mark of Conformity

Any surface materials used must be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code Annex 1 parts 2 and 5) when required according to relevant rules.

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

Type Examination documentation

Test Report No. 2017CS011932/1 dated 29 June 2017 from RINA, Italy.

Tests carried out

Tested according to IMO 2010 FTP Code part 11.

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Revision No:

Marking of productThe product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating and MED Mark of Conformity (see page 1).

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