

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00002UB
Revision No:
4

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" 60 Minute Deckhead

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) 2021/1158,
item No. MED/3.34. SOLAS 74, Regulation X/3, 2000 HSC Code 7, IMO MSC.1/Circ.1457 and IMO 2010 FTP Code

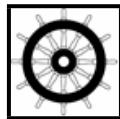
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-07-03**.

Issued at **Høvik** on **2022-07-04**

DNV local station:
Australia NB

Approval Engineer:
Karolina Kusmider



Notified Body
No.: **0575**



for **DNV AS**

Digitally Signed By:
Trond Kleivi Sjøvåg
Location: DNV Høvik, Norway
on behalf of

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.



Product description

"Rapid Access Composite (RAC)" 60 Minute Deckhead

light weight composite fire resisting division is a structural fire protection system consisting of composite panels and light gauge steel supporting structure, mounted so that a minimum 300 mm air gap is maintained between the back (non-fire side) of the panels and the aluminium deckhead plate.

Aluminium deck

Aluminium deckhead shall consist of 6 mm shell plate with stiffeners of 150 mm x 100 mm x 9 mm every 600 mm. Equivalent stiffness will be accepted.

Composite panels

The Rapid Access Composite Panels consist of a 10 mm aluminium honeycomb panel and a layer of 9.5 mm CBG-RAC-I-Insulation towards the fire side, compressed to a nominal 6.5 mm. The panels have nominal maximum dimensions of 2400 mm x 1200 mm and are typically 16.5 mm thick. An optional aluminium sheet (40 microns) may be applied to the reverse (non-fire) side of the sheet.

The CBG-RAC-I-Insulation may be composed of Evanite 702 or Lauscha B-00-F or Lauscha B-02-F.

The panels may be covered with a facing on the exposed side. This lining (in combination with insulation) shall comply with the requirements of IMO 2010 FTP code part 10 (Fire restricting material).

Supporting infrastructure and installation

The supporting infrastructure and composite panels are suspended below an aluminium deckhead using eye bolt, hanging rod and clips.

An air gap of 300 mm is to be maintained between the aluminium shell plating and the non-fire side of the panels. Suspension rods are to be installed at 1200 mm nominal maximum centres in the longitudinal and transverse directions.

Inspection hatch

The deck can be fitted with an inspection hatch with maximum clear opening of 900 x 900 mm (W x H), with hinge fitted on the exposed side. The hatch to be installed in the middle of the RAC panel horizontally, at least 450 mm away from the short panel joint. The hatch leaf, having dimensions of 940 x 940 mm (W x H) is composed of two stainless steel sheets of 0.9 mm thick each and insulation material (2 layers of 25 mm each of "Firemaster Marine Plus" with density of 128 kg/m³ and incorporating 0.6 mm thick aluminium sheet in between which is held in place by Z shaped steel brackets) in-between. The hatch frame is composed of a C shaped stainless-steel profile having dimensions of 1000 x 1000 x 70 mm (W x H x D) and thickness of 0.9 mm, and is fixed to a panel support structure by means of stand-off brackets. The frame incorporates sealing gasket type "Promaseal LFC Laminate". Hatch leaf is fitted with three-point locking mechanism activated by a single handle.

For further details see documentation under Type Examination documentation below.

Application/Limitation

Approved for use as a non-load bearing fire-resisting division of class 60.

The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

Fire hazard shall be on the insulated side (restricted application).

Only the combined product (supporting infrastructure, composite panels, air gap and aluminium structure) 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 main issues are listed below.

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

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

Type Examination documentation

Fire Test Report No. P803736, dated November 2008, SP, Sweden.

Room corner test report no. 31724800-5 dated 11th December 2014 from Exova Warrington Fire, Australia.

Report "RAC Felt Raw Materials" dated 28th April 2014 from Morgan Advanced Materials, UK.

Fire Test Report No. 2017CS01483/2 dated 6th March 2017 from Rina, Italy.

Fire Test Report No. 2016CS013500/3 dated 12th December 2016 from Rina, Italy.

Technical Statement WF No. 341913 dated 20th June 2014 from Exova Warringtonfire, UK.

Technical Statement, Assessment no. FCO-2827 dated 7th June 2016 from CSIRO, Australia.

Design Specifications DS 01 from CBG Systems Pty. Ltd. Revisions of Design Specifications are to be approved by DNV GL.

Title	Drw. No.	Rev. No.	Date	App No.
Cover plate	001-10	2	28 th October 2008	3
Locking disc & spacer	001-08	3	28 th October 2008	4
Corner Bracket	001-07	C	28 th October 2008	5
Channel intersection join detail	001-07	A	31 st October 2008	6
Support Channel	001-09	2	28 th October 2008	7
Cover strip	001-11	B	6 th July 2004	8
Caddy clip hanging detail	-	-	15 th November 2008	-

Tests carried out

Tested according to IMO 2010 FTP Code part 3 and part 10 and according to IMO FTP Code Part 11 and in compliance with IMO 2010 FTP Code Ch. 8.

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 the USCG number if applicable (see first page).