

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB000074W
Revision no.:
1

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)

A-60 aluminium deck - Rapid Access Composite plus ultralight (RAC+ ultralight)

issued to

CBG Systems International Pty Ltd
DERWENT PARK, Australia

is found to comply with the Implementing Regulation (EU) 2025/1533 for
Item no. **MED/3.11a (Row 2 of 2)**

according to the following requirements:

SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1616, IMO MSC.1/Circ.1621, SOLAS 74 Reg. II-2/3.2, IMO MSC/Circ.1120

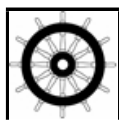
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-11-07**

Expiry date: **2030-11-06**

DNV local unit:
Australia NB

Approval Engineer:
Tessa Biever



Notified Body
no.: **0575**



for **DNV AS**

Digitally Signed By:
Permoda, Jowita
on behalf of

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

'A-60 aluminium deck - Rapid Access Composite plus ultralight (RAC+ ultralight)'

is a structural aluminium deck with non-homogenous 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 structural deck.

Composite panels

The RAC+ light panel consist of a 20 mm thick non-combustible material Marine Panel (density of 160 kg/m³, manufactured by Unifrax) faced on both sides by means of HIPS (Hybrid Inorganic Polymer System) impregnated in a fiberglass cloth and covered by a veneer named VentureClad-1577CW-WML (on fire exposed side) and an aluminium foil lining (on the unexposed side). The VentureClad-1577CW-WML on fire exposed side may be substituted by:

- aluminium foil lining named RAC-2 Alu foil facing
- venture tape lining named RAC-2 facing

The panels have maximum dimensions of 2382 mm x 1182 mm (L x W) and are typically 20 mm thick.

Supporting infrastructure and installation

The panels are mounted on a stainless steel framework suspended below the aluminium structural deck using eye bolt, hanging rod and clips. An air gap of 350 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 1500 mm maximum centres in the longitudinal and transverse directions.

Joints between the panels are covered with stainless steel cover strips which are insulated with 6 mm thick Superwool Paper (density 230 kg/m³, manufactured by Morgan Thermal Ceramics) and screwed to the framework at 600 mm spacing. In the middle of each joint a 0.45 mm thick stainless steel sheet having dimensions of 450 x 150 mm is fitted between the VentureClad-1577CW-WML surface and the stainless steel cover strips. Each intersection of 4 panels is supported by a stainless steel corner support bracket and a locking disc, covered with a pressed stainless steel cover plate insulated with 6 mm thick Superwool Paper (density 230 kg/m³, manufactured by Morgan Thermal Ceramics).

For further details see documentation under Type Examination documentation.

Application/Limitation

Approved for use as a horizontal fire retarding division of class A-60. The aluminium deck with suspended panel construction may also be used in fire resisting divisions in High Speed Craft.

During fire test the average temperature of aluminium deck structural core did not exceeded 140 degrees C.

Restricted application: Fire hazard shall be on the stiffened insulated side.

Max. panel size: 2382 mm x 1182 mm (L x W)

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

Please see Appendix: Type Examination Documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product



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The product is to be marked with name and address of manufacturer, type designation, fire-technical rating, the Mark of Conformity and the USCG number if applicable (see first page).

APPENDIX

Type Examination documentation

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Document No.	Rev.	Title
2020CS01313-3		Test report dated 25 May 2020 from RINA, Genova, Italy.
103603859SAT-002		Test report dated 27 July 2018 from Intertek, Texas, US.
103447451SAT-002		Test report dated 18 April 2018 from Intertek, Texas, US.
RAC-PLUS-DECK-G	D	Drawing RAC-PLUS DECK-GENERAL dated 7 February 2020 from manufacturer.
RAC-PLUS-DECK-P	I	Drawing RAC-PLUS-DECK-PARTS dated 18 February 2020 from manufacturer.
RAC-PLUS-COV		Drawing RAC-PLUS-COVERPLATE dated 4 April 2019 from manufacturer
RAC-PLUS-CSL-24		Drawing RAC-PLUS-COVERSTRIP-LONG-2400 dated 4 April 2019 from manufacturer.
RAC-PLUS-CSL		Drawing RAC-PLUS-COVERSTRIP-LONG dated 4 April 2019 from manufacturer.
RAC-PLUS-CSS		Drawing RAC-PLUS-COVERSTRIP-SHORT dated 4 April 2019 from manufacturer.
RAC-CSB	C	Drawing RAC-CORNER-SUPPORT-BRACKET dated 15 June 2020 from manufacturer.
RAC-RACPLUS-CHL	F	Drawing RAC_RACPLUS-CHANNEL-LONG dated 2 October 2023 from manufacturer.
RAC-RACPLUS-CHS	F	Drawing RAC RACPLUS CHANNEL SHORT dated 2 October 2023 from manufacturer.
RAC-RACPLUS-CLIP-SS-4H24	D	Drawing RAC RACPLUS CLIP SS SPECIAL 4H24 dated 20 October 2023 from manufacturer.
RAC-RACPLUS-CLIP-SS-4H58		Drawing RAC RACPLUS CLIP SS SPECIAL 4H58 dated 20 October 2023 from manufacturer.
RAC-RACPLUS-CLIP-SS-4H912	D	Drawing RAC RACPLUS CLIP SS SPECIAL 4H912 dated 20 October 2023 from manufacturer.
CBG-RAC-PLUS-DECK-A		Drawing RAC-PLUS Deck INSTALLATION DRAWING - Annotated dated 12 March 2019 from manufacturer.