

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007GA

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the A & B Class divisions fire integrity: A class divisions.

with type designation(s)
Novum Marine FRG System

Issued to
Novum Structures GmbH
Veitshöchheim, Bayern, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2021/1158,
item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO
MSC/Circ.1120 and IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1435.

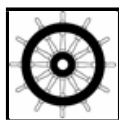
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-11-16**.

Issued at **Hamburg** on **2021-11-17**

DNV local station:
Augsburg

Approval Engineer:
Roland Priebe



Notified Body
No.: **0098**

for DNV SE

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Christine Mydlak-Roeder
Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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

Novum Marine FRG System is a butt-jointed glazed partition wall. It is class A-60 for the straight bulkhead and class A-30 for faceted bulkhead. It consists of a steel frame RP-ISO-HERMETIC 70FP EI 60 (RP TECHNIK) and the 32 mm thick PYROGUARD T-EI60/32-2 SWS (PYROGUARD) glazing. The glazed partitions are 3250 mm height and max 1500 mm wide.

The glazing is manufactured at PYROGUARD UK LTD UNIT H1; St. Helens Merseyside, Haydock, UK and the frame is manufactured at RP TECHNIK GmbH, Böhnen, Germany.

The glazed panes are held in place by a single bead system made of stainless-steel profiles RP 92 006 3 (RP TECHNIK). It is pushed onto the profiles of the framework.

The profile fins as well as the glazing beads are associated with calcium magnesium silicate tape KERAFIX® 2000 and silicone DOWSIL 895 (DOW) is applied over the silicate tape. An adhesive graphite intumescent tape KERAFIX® FXL 200 is glued on the polyamide profiles in a groove all around the glazing.

An adhesive intumescent tape PALUSOL® PL 100 is glued on each glazing edge at the junctions. Silicone DOWSIL 895 (DOW) is applied on both sides of this junction.

For faceted walls with e.g. 170° angles an adhesive intumescent tape PALUSOL® 104 is glued between the PALUSOL® PL 100 tapes. Angles of 90° - 270° may be realized.

The framework consists of thermally insulated stainless-steel profiles RP-ISO-HERMETIC 70FP EI60 (RP TECHNIK). Alternatively, the profiles may be realized in mild steel or carbon steel – see technical assessment 21/1.

The profiles forming the frame are fastened to the supporting construction using steel screws Ø 7.5 x 132 mm at a max. spacing of 410 mm. Each fixation point is associated with a calcium silicate setting block PROMATECT H (PROMAT). The 10 – 15 mm thick clearance between the framework and the supporting construction is sealed by a layer of mineral wool.

Alternatively, for vertically fixation on existing steel bulkheads stainless-steel M6 x 100 mm with M6 nuts or welding may also be used. At the bottom stainless-steel screws of Ø 6 x 90 mm or welding may be used – see technical assessment.

For further details refer to the documentation listed below under “Type Examination documentation”.

Application/Limitation

The straight bulkhead construction is approved for use as non-load bearing vertical fire retarding division of class A-60. The faceted bulkhead construction is approved for use as non-load bearing vertical fire retarding division of class A-30.

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).

Maximum glass partition size: 1500 mm x 3250 mm x 32 mm (W x H x T)

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. EFR-20-H-003829 – Rev.1 dated 2021-04-21 from EFECTIS, Maizieres-Les-Metz, France.

Test report No. EFR-20-V-002487 dated 2021-02-18 from EFECTIS, Maizieres-Les-Metz, France.

Technical Assessment No. 21/1 dated 2021-04-27 from EFECTIS, Maizieres-Les-Metz, France.

Drawings from manufacturer:

Drawing No.	Title	Dated
FR-100 rev.1	Profiles and Accessories - Overview Sheet	2021-02-11
FR-200	General Arrangement Drawing Class A-60	2021-03-02
FR-201	General Arrangement Drawing Class A-30	2021-03-02
FR-500 rev.1	Standard Assembly Overview	2021-02-11
FR-501	Connection Details	2021-03-15

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex1, Part 3



Job Id: **344.1-011560-1**
Certificate No: **MEDB00007GA**

Marking of product

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