



## EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No. 1025) did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection equipment requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2017/306 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer (Applicant) Address</b>	Knauf B.V.  Mesonweg 8 - 12 3542 AL Utrecht Netherlands, The
<b>Reference Regulation Item (No &amp; Item designation) USCG Category Number</b>	<b>Regulation 2017/306</b> MED/3.11b 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY - 'B' CLASS DIVISIONS 164.108 - 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY (Bulkhead Panels)
<b>Product Type</b>	<b>B-15 BULKHEAD</b>
<b>Product Description</b>	Fire-Resisting Bulkhead Panel System - Type "Knauf Diamond Board Marine DFH2IR 12,5 AK"
<b>Specified Standard</b>	IMO Res.MSC.61 (67) - (FTP Code) Annex 1 Part 3 IMO MSC/Circ.1120 IMO Res. MSC.307(88) - (2010 FTP Code) Part 8

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue 25 January 2018

Expiry date 24 January 2023

Certificate No. MED 1850011

Signed

Sheet No 1 of 3

Name

J. M. Evans  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA.

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

USCG-EU MRA - This product has been assigned a U.S. Coast Guard Module B number: USCG Module B number: 164.108/EC0038 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment."

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Page 2 of 3
Document number MED 1850011
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 25 January 2018	Quote this reference on all future communications SOUTSO/SFS/TA/JE/WP31251078
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850011

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

APPROVAL/EXAMINED DOCUMENTATION

Warringtonfiregent (WFRGENT NV), Gent, Belgium, Test Report No. 13111A dated 10<sup>th</sup> January 2008.

CONDITIONS OF CERTIFICATION

1. Bulkhead consisting of: 0.6mm thick steel section framework faces on both sides with "Knauf Diamond Board Marine DFH2IR 12,5 AK" fibre reinforced plasterboard (12.5mm thick, 12.7kg/m2 weight). Total bulkhead thickness 70mm. Secured to supporting decks and bulkheads on all sides by 3.8mm diameter fixings at a maximum of 600mm centres
2. Steel section framework comprises: U-profiles 45/40/0.6mm secured to decks top and bottom, attached to C-profiles 45/50/0.6mm, secured to both supporting sides and spaced at 600mm centres. All faces to surrounding structure jointed with Knauf Sealing tape 30mm x 3.2mm
3. Maximum plasterboard panel size: 1200mm wide x 3000mm high x 12.5mm thick. All plasterboards secured to all profiles of the steel section framework by 3.9mm diameter steel screws spaces at 150mm centres. All plasterboard joints are staggered with tapered edges and finished with a joint filler "Knauf Fugenfuller Leicht" and "Knauf Self Adhesive" glass fibre reinforcement mesh
4. Composition and application of component materials to be maintained in production and use in accordance with originally tested composition formula and method of application, and manufacturer's instructions
5. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place
6. This product has been assigned a U.S. Coast Guard Module B number USCG Approval Category 164.108 /EC0038 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment"

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Ltd., such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements



Lloyd's  
Register

**Lloyd's Register Verification Limited**

71 Fenchurch Street, London, EC3M 4BS  
Telephone 020 7423 2416 Fax 020 7423 2053  
Email med@lr.org

Page 3 of 3
Document number MED 1850011
Issue number 1

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7. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place

**NOTE**

The bulkhead arrangement maintained both the insulation and integrity performance criteria for 43 minutes.

**PLACE OF PRODUCTION**

Knauf B.V. Logistiekweg 7 4906 AB Oosterhout The Netherlands	Knauf Gips KG Holeburgweg 47 37627 Stadtdendorf Germany
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Jessica Evans  
Senior Specialist  
Statutory Fire & Safety  
Southampton Technical Support Office, Marine & Offshore  
For and on behalf of Lloyd's Register Verification  
**LRV EC Distinguishing No. 0038**

