

EC-TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

DBI Certification did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the schedule attached hereto.

Manufacturer	R&M International GmbH
Address	Schellerdamm 22-24 DE-21079, Hamburg Germany
Directive Reference	MED Directive 2014/90/EU , Regulation as amended by MED (EU) 2022/1157.
Regulation Item	MED/3.11b – 'A' & 'B' Class divisions fire integrity
Product Type	W25P - Perforated double wall system
Product Description	Class B-15 Bulk Head
Specified Standards	IMO Res.MSC.307(88)-(2010 FTP Code), as amended

The attached (*schedule of approval*) forms part of this certificate.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

Date of issue	2023-07-29	Issued by DBI Certification Notified Body No. 2531
Expiry date	2028-03-26	

This certificate was first issued 2018-04-18

This equipment is covered by the scope of " Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 18th, 2019" According to U.S. Coast Guard Approval Category No.: 46 CFR 164.108. 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 Mutual Recognition Agreement.

Signed



Name	Merete Poulsen	/	Lene Skovbjerg
	Responsible for evaluation		Responsible for certification decision

Notes:

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with, the notified body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by the 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-control phase module (D, E, or F) of the Directive is fully complied with.

In case limitations of use apply, these should be indicated of in the Annex

This certificate is issued under the authority of the Danish Maritime Authority.

(Annex)

Schedule of Approval

Place of Production

R&M Alvedoor (Kunshan) Co., Ltd., 75Guchen Road (M) Kunshan, 215300 Kunshan, P.R. of China

Product Description:

The "W25P – perforated double wall system" is a bulkhead construction (thickness in total: 70 – 150 mm) that incorporates two layers of panels, with an air gap* (varying distance of 20-100 mm) in between. Each panel (thickness: 25 mm) consists of a mineral wool core that is covered on exposed side to fire with a 0.6 mm thick galvanized steel sheet and on the side faced to the air gap with a perforated 0.5 mm thick galvanized steel sheet. Both steel sheets are affixed to the mineral wool core by an adhesive of approved type. The vertical edges of the panels are formed each as a tongue and a groove (depth 24 mm) for joint with adjacent panels; acc. to the annex attached to the test report, which includes further details, and the supplemented assessment report.

*Optionally the air gap may be filled with a non-combustible mineral wool layer that shall not be fixed to the panels.

Maximum panel size, without tongue:	Height: 2975 mm	Width: 600 mm
Panel core material:	"Tizol-Flot L 200" (nominal density: 200 kg/m ³), manufactured by Joint Stock Company "Tizol", Russia.	
Insulation for optional use in the air gap:	"ISOVER-marine felt ULTOMATE U SeaProtect Roll 13 to 36/ ISOVER-marine felt ULTIMATE U MFN 13 to U MFN 36" (nominal density: 13 up to 36 kg/m ³), or alternative "ISOVER-marine felt ULTIMATE U SeaProtect Roll 13 to 36 Alu1/ISOVER Class B-15 Bulk Head -marine felt ULTIMATE U MFA 13 up to U MFA 36" (nominal density: 13 up to 36 kg/m ³), both manufactured by SAINT-GOBAIN ISOVER G+H AG, Germany.	
Adhesive:	ICEMA R 145/31 S" (max. applied quantity: 60±10 g/m ²), manufactured by H.B- Fuller Adhesives Italia s.r.l.	

Product Classification:

Class B-15 Bulk Head

Application / Limitation of Product:

See product description.

Type Approval Documentation

Test report no.

16/1572-5 dated 2018-03-26, supplemented with Assessment report no. 17/1096-1 dated 2018-03-26, both issued by Currenta GmbH & Co. OHG, Germany.

Technical Documentation

Listed in Test report no. 16/1572-5 dated 2018-03-26, supplemented with Assessment report no. 17/1096-1 dated 2018-03-26, both issued by Currenta GmbH & Co. OHG, Germany.

Installation

Assembly procedure on board as stated in the test report/assessment, and as per manufacturer's instruction, which has to be supplied together with the product.

Marking of Product

The product or packing is to be marked with name of manufacturer, type designation, technical rating and Mark of Conformity.

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-control phase module (D, E, or F) of ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

End of Certificate