

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	Window Box, class B-15
Product Description	Class B-15 bulkhead (lining) construction
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This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.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	2023-07-28	Issued by DBI Certification Notified Body No. 2531
Expiry date	2028-02-06	

*The certificate supersedes the certificate version issued: 2018-02-28
This certificate was first issued 2018-02-28*

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 Responsible for evaluation	/	 Lene Skovbjerg Responsible for certification decision
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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 "Window box, class B-15" is a recessed bulkhead construction (tested external depth 190 mm) for use to close a gap between an opening within a class "B-15" bulkhead lining (equivalent to *Alvedoor Marine W25*, certificate no. 102.362) and a steel frame for a window located in a structural steel core.

The elements of the window box that are clinched together consist each of a 24 mm thick mineral wool core, which is covered by galvanized steel sheets (thickness: 1.0 mm in exposed side, 0.5 mm on unexposed side) that are bonded to the core by an adhesive of approved type. The window box is connected to the bulkhead lining by tapping screws 4,2 x 32 mm (vertical 450 mm, horizontal 400 mm apart); gaps are filled with "SIKA Firesil Marine N". U-shaped steel profiles are riveted around the edges of the opening in the bulkhead lining. A sliding steel frame is fixed by tapping screws 4,2 x 16 mm (450 mm apart) each to the lining and the window box for reinforcement. On the unexposed side of the bulkhead window frame (flange depth: 50 mm) by screws; acc. to drawing no. WB-B-15_FIRETEST_09.2017, sheet 1-8/8 attached to the test report, which includes further details.

Max. clear opening in the class "B-15" bulkhead lining:	Height: 1766 mm	Width: 1525 mm
Tested clear window opening in the structural steel core:	Height: 1450 mm	Width: 1185 mm
Insulation Materials for the window box:	"Tizol Flot Lamella 200" (nominal density: 200 kg/m ³), manufactured by Joint Stock Company, Russia.	
Adhesive/Sealing:	"YB2 002X/8001" (max. applied amount 100 g/m ²), manufactured by Shanghai Niingrui Cemical Engineering Co., Ltd., China. "Sika Firesil® Marine N" or "Sikasil® N Plus", manufactured by Sika Services AG, ZURICH, Swizerland.	

Product Classification:

Class B-15 Bulk Head (lining) construction.

Application / Limitation of Product:

See product description.

Type Approval Documentation

Test report no.: PGA11902A Ed. 2, dated 2018-02-06 by DBI – Danish Institute of Fire and Security Technology, Denmark.

Technical Documentation

Listed in Test report no.: PGA11902A Ed. 2, dated 2018-02-06 by DBI – Danish Institute of Fire and Security Technology, Denmark.

Installation

Assembly procedure on board as stated in the test report/assessment, and as per manufacturers 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