

## 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.

<b>Manufacturer</b>	R&M International GmbH
<b>Address</b>	Schellerdamm 22-24, DE-21079, Hamburg, Germany
<b>Directive Reference</b>	MED Directive 2014/90/EU , Regulation as amended by MED (EU) 2022/1157.
<b>Regulation Item</b>	MED/3.11b – 'A' & 'B' Class divisions fire integrity
<b>Product Type</b>	W50SJ - Wall panel
<b>Product Description</b>	Class B-15 bulkhead
<b>Specified Standards</b>	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**This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.**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. <b>2531</b>
Expiry date	2026-05-06	

*The certificate supersedes the certificate version issued: 2018-05-28  
This certificate was first issued 2018-05-28*

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	/	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 B-15 class bulkhead panel “W50SJ” (Thickness in total: 50 mm) consists of a mineral wool core, covers on both sides with 0.8 mm thick aluminum sheets that are affixed to the core by an adhesive of approved type. The mineral wool core is provided by insulation material with unequal densities: Material with a density of 100kg/m<sup>3</sup> is used for lamellas at the edges- The vertical edges at the panel are grooved (dept: 26 mm) such that a separate tongue (width: 50 mm) made from approved non-combustible material will be inserted for joint the panels together. On both sides of the joints, self-tapping screws (4.2 mm x 32 mm) are provided at a height of 2200 mm from bottom and in the upper and lower edges; acc. to the annex attached to the test report, which includes further details, and the relevant assessment report.

Maximum panel size:	Height: 600 mm	Width: 2475 mm
Slab:	“Tizol-Flot 100” (nominal density: 100 kg/m <sup>3</sup> ), manufactured by Joint Stock Company “Tizol”, Russia Or alternative “ABM-SR” (nominal density: 100 kg/m <sup>3</sup> ), manufactured by Shanghai ABM Rockwool Co., Ltd., P.R. China	
Lamella:	“Tizol-Flot Lamella 200” (nominal density: 200 kg/m <sup>3</sup> ), manufactured by Joint Stock Company “Tizol”, Russia Or alternative “ABM-SR” (nominal density: 200 kg/m <sup>3</sup> ), manufactured by Shanghai ABM Rockwool Co., Ltd., P.R. China	
Adhesive:	ICEMA R 145/31 S” (max. applied quantity: 60± <sup>2</sup> ), manufactured by H.B- Fuller Adhesives Italia s.r.l. Or alternative “YB2002X/8001” (max-applied quantity: 100± 10g/m <sup>2</sup> ), manufactured by Shanghai Ningrui Chemical Engineering Co., Ltd., P. R. China.	
Tongue:	“Promaxon type A” (nominal density: 850 kg/m <sup>3</sup> ), manufactured by Promat Shanghai Ltd., P. R. China (with thickness of 6 mm; configuration type 2)	

**Product Classification:**

Class B-15 bulkhead

**Application / Limitation of Product:**

See product description.

**Type Approval Documentation**

Test report no. 20161009 dated 2016-05-06, in conjunction with technical assessment no.: 20170737. Dated 2018-16-04, both issued by MPA Dresden, Germany.

**Technical Documentation**

Listed in Test report no. 20161009 dated 2016-05-06, in conjunction with technical assessment no.: 20170737. Dated 2018-16-04, both issued by MPA Dresden, Germany.

**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