

## CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS No. FAB004117XW

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

Description Stud link anchor chain cables and accessories

Type Offshore Mooring Chain

Applicant RAMNAS BRUK AB

P.O. BOX 14

SE-730 60 Ramnas

SWEDEN

Manufacturer RAMNAS BRUK AB

Place of manufacture P.O. BOX 14

**SE-730 60 Ramnas** 

**SWEDEN** 

Reference standards RINA Rules for the approval of manufacturers of materials

Issued in STOCKHOLM on March 20, 2017. This Certificate is valid until March 20, 2022

Christopher Alixius

RINA Services S.p.A.ixius Christopher Alixius

This certificate consists of this page and 1 enclosure

#### **CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS**

No. FAB004117XW Enclosure - Page 1 of 1 Offshore Mooring Chain

#### APPROVAL CONDITIONS

Chain Type	Grade	Delivery Conditions	Diameter mm	Steel bars supplier
Stud link and Stud less	R4S	Quenched and Tempered	143	OVAKO
Stud link and Stud less	R5	Quenched and Tempered	143	OVAKO
Stud link and Stud less	R4	Quenched and Tempered	143	OVAKO

#### **General conditions for the approval**

- -The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.
- -RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.
- As the relevant international rules have not yet been published, for the grades R4, R4S and R5, the approval is to be considered according the manufacturer specification.
- All chain cables and accessories to be used on ships classed with RINA shall meet the requirements of the RINA Rules and other applicable reference standards and shall be tested accordingly.

STOCKHOLM March 20, 2017





# LABORATORY RECOGNITION STATEMENT No. REC004117XW

### This is to certify that:

Description Laboratory Recognition

Type Certificate of Laboratory approval

Applicant RAMNAS BRUK AB

P.O. BOX 14

**SE-730 60 Ramnas** 

**SWEDEN** 

Manufacturer RAMNAS BRUK AB

Place of manufacture P.O. BOX 14

**SE-730 60 Ramnas** 

**SWEDEN** 

Reference standards RINA Rules for the Recognition of Testing Laboratories

has been found in compliance with the requirements of the RINA "RULES FOR THE ASSESSMENT OF TESTING LABORATORIES" for the performance of the tests listed in the attachment to this certificate

Issued in STOCKHOLM on March 20, 2017. This Certificate is valid until March 20, 2022

RINA Services S.p.A. Christopher Alixius

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