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Certificate No: LR2003735MB Issue Date: 07/01/2020 Expiry Date: 06/01/2025

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

Manufacturer **NARWHAL BOATS S.L.**

P.I. A Granxa, Avenida Principal S/N, 36475 Porriño, Spain **Address**

Reference Regulation (EU) 2019/1397

Regulation Item (No. & MED/1.20c Fast Rescue Boats - RIGID-INFLATED **Item Designation)**

Product Type RIGID-INFLATED FAST RESCUE BOAT

Rigid-Inflated Fast Rescue Boat Type - "FRB 700" **Product Description**

IMO Resolution MSC.81 (70), Part 1 as amended by MSC.226 (82), **Specified Standard**

MSC.274 (85), MSC.323 (89) & MSC.321 (89)

IMO MSC/Circ. 1006

ISO 15372

FRB 700 **Trade Name**

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate is issued under the authority of the MCA. 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. The manufacturer should notify LRV of any modification or changes to the equipment in order to obtain a valid Certificate.

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

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.

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A member of Lloyd's Register Group.

Lijo Thomas

Senior Surveyor to Lloyd's Register Verification Ltd A member of the Lloyd's Register Group

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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 forms part of the Certificate.

This Certificate is a Renewal of Certificate Number MED 1550005/M1

EXAMINED DOCUMENTATION

Operation and Maintenance Manual for the Rigid/Inflated Fast Rescue Boat Type "FRB 700" and dated 2014

Drawing No:	Rev. No:	<u>Date:</u>	<u>Title:</u>
FRB70003	2	24/10/2014	General Layout
FRB70012	2	24/10/2014	General Layout 2
FRB70002	1	15/07/2014	Inflatable Collar
FRB70001	2	24/10/2014	Main Dimensions
FRB70004	1	10/09/2014	Deck Scantling
FRB70005	1	10/09/2014	Hull Scantling 1
FRB70006	1	15/07/2014	Hull Lines
FRB70007	1	15/07/2014	Hull Buoyancy Foam
FRB70008	2	24/10/2014	Electric System
FRB70009	2	24/10/2014	Fuel System
FRB70010	1	15/07/2014	Roll Bar
FRB70011	1	15/07/2014	Fuel Tank
FRB70014	2	24/10/2014	Retro-Reflective Material
FRB70016	2	24/10/2014	Quick Release Hook
G-01	0	11/03/2020	General Arrangement (Anti -Pendulation System)
FRB700AP02	Α	05/05/2020	General Arrangement (Anti Pendulation vs Standard Model)

TEST REPORTS

- MSC/Circ. 980 Prototype Test Report for Rigid/Inflated Fast Rescue Boat Type "FRB 700", Report No ES NWL 052 SBC 313, dated 09/10/2013 as witnessed by Lloyd's Register Surveyor
- MSC/Circ. 980 Prototype Test Report for Rigid/Inflated Fast Rescue Boat Type "FRB 700", Report No ES NWL 052 SBC 313, dated 18/12/2014 as witnessed by Lloyd's Register Surveyor
- Fire Retardant Test Report for the material used in the construction of the Rigid/Inflated Fast Rescue Boat, performed as per MSC/Circ. 1006 Paragraph 3 at Exova Warringtonfire, Report No 34704 Issue No 1 and dated 23rd September 2014
- Flame Resistant Test Report for the material used in the construction of the Rigid/Inflated Fast Rescue Boat, performed as per MSC/Circ. 1006 Paragraph 4 at Exova Warringtonfire, Report No 34705 Issue No 1 and dated 18th September 2014

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CONDITIONS OF CERTIFICATION

. Maximum Weights:- Dimension (Overall):-

Lightweight: 1656 kg 6.81 x 2.7 x 0.5

Loose Equipment: 30 kg Fuel Oil: 200 kg

Complement Weight: 660 kg (8 Persons @ 82.5 kg)
Recovery Weight: 2381 kg (6 Persons @ 82.5 kg)
Fully Laden Weight: 2546 kg (8 Persons @ 82.5 kg)

2. Certified Equipment details:-

Rescue Boat Propulsion Engine:

Manufacturer: AB Volvo Penta Type: D3 -220

Bollard Pull: 7500 N (impulsor Turbo T2,9 kw)

6600 N (impulsor T2,9 kw)

Approved Hook Release Gear details:-

Manufacturer: H. Henriksen AS
Type: HMK 3.5
SWL: 3.5 tonnes

3. Materials:-

Proof Fabric for Inflatable Crafts:

Poliurethane ref. 1P U4-U4 AR/GR Chiorino.

Materials: Type: Manufacturer:

Gel Coat Neogel NPG Ral 2004 BUFA

Resins P4-01 & 8175-W-1 Palatal DSM & BUFA

Chopped Strand Mat MAT 300 PPG SINOMA Jinjing Fibre Glass Co., Ltd Woven Roving ROVIMAT 450/800 CHOMARAT Textiles Industries

Woven Roving ROVIMAT 450/800 CHOMARAT Textiles Industries
Buoyancy Foam NG 55-040-5 Lackfa Isolierstff GmbH & Co. KG

- 4. This Rescue Boat is automatic self-righting using manual initiation
- 5. The launch and recovery appliance is to be capable of raising the rescue boat from the water with its full complement of persons and equipment at a rate of not less than 0.8 m/s
- 6. For compliance with SOLAS Regulation III/35 and III/36 fully detailed operations and maintenance manuals shall be supplied with each rescue boat
- 7. Any inspection, maintenance, thorough examination, operational testing, overhaul and repair shall be carried out according to requirements of resolution MSC.402(96)
- 8. The Release Gear does not form part of this Design Appraisal Document, but it is expected that the Release Gear used in conjunction with the rescue boat covered under this Certificate is an approved type

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- 9. The Rescue Boat is approved for 8 persons, provided the seating arrangement is to the satisfaction of the attending Surveyor
- 10. Equipment items listed on the current version of the Marine Equipment Directive which are supplied with the boat are to be delivered with their own Declaration of Conformity issued by the corresponding manufacturer when delivered to EC flagged vessels
- 11. The Rescue Boat is to be provided with a 'foul weather recovery strop (s)' of Safe Working Load equivalent to at least the maximum laden weight of the boat. Additionally, if necessary, for stowage without re-launching, provision is to be made for "hanging off"
- 12. The Rescue Boat is to be marked in block capitals of the Roman Alphabet with the number of persons it is approved to carry, the name and port of registry of the ship to which the boat belongs; and means of identifying same from above, as required by SOLAS and LSA Code
- 13. Each Rescue Boat is to be marked with the information required by LSA Code Paragraph 1.2.2.9 and 4.4.1.2
- 14. Alterations/modifications of the Type Approved Rescue Boat will invalidate the Type Approval Certificate which, in turn, will affect the validity of the related Statutory Certificate (of the vessel on which the Rescue Boat is installed). In such cases, where the equipment requires alterations/modifications, these are only to be carried out with agreement/approval of the Flag State Administration (of the vessel on which the Rescue Boat is installed) on an installation-by-installation basis
- 15. Inflated sections of the Rescue Boat are to be maintained and repaired at a service station authorized by the manufacture which also approved by Lloyd's Register or the Flag Administration
- 16. **Installation on board:** The on board arrangements and installation of the Rescue Boat are not part of this Design Appraisal or Certificate. All such arrangements are to be to the satisfaction of the Surveyors attending on board. The compatibility of the pendulation system with the docking head of the davit has to be verified by way of installation test.
- 17. If the specified standards are amended during the validity of this Certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply
- 18. Production items are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive
- 19. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and be recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or witnessed by the Notified Body (LRV) as required by the Product Verification (Module F) of the Marine Equipment Directive. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration
- 20. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity"
- 21. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained

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PLACE OF PRODUCTION

NARWHAL BOATS S.L. P.I. A Granxa Avenida Principal S/N 36475 Porriño Spain

Lijo Thomas

Senior Specialist

Lijs Thomas

Fire & Safety, Statutory Discipline Team

 ${\it UK\&I Technical Support Office, Marine \& Offshore}$

For and on behalf of Lloyd's Register Verification

LRV EC Distinguishing No. 0038

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