



## CERTIFICATE OF TYPE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

**Manufacturer** NARWHAL BOATS SL

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

**Product Type** RESCUE BOATS

**Product Description** 6/8 persons outboard powered davit-launched rigid/inflated rescue boat - Type: "SV-750"

**Specified Standards** IMO Resolution MSC.81 (70), Part 1 as amended by IMO Resolution MSC. 226(82)  
MSC.274 (85) and MSC.321 (89)  
IMO MSC/Circ.1006  
ISO 15372:2000

**The attached Design Appraisal Document forms part of this certificate.**

**This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.**

Date of issue 16 August 2017

Expiry date 14 March 2022

Certificate No. SAS S170031/M1

Signed

Sheet No 1 of 4

Name

L. Thomas

Surveyor to Lloyd's Register EMEA

A Member of the Lloyd's Register Group

**Note:**

**This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate.**

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page	2 of 4
Document number	SAS S170031/M1
Issue number	1

**DESIGN APPRAISAL DOCUMENT**

Date 16 August 2017	Quote this reference on all future communications SOUTSO/SFS/TA/LT/WP29818818
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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170031/M1**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate

**EXAMINED DOCUMENTATION**

Operation and Maintenance Manual for Rigid Inflated Rescue Boat Type "SV-750"

<u>Dwg No.</u>	<u>Rev. No.</u>	<u>Date</u>	<u>Drawing Title</u>
CSV75001	A	19.01.10	GENERAL LAYOUT
CSV75002	1	12.05.11	MAIN DIMENSIONS
CSV75005	A	19.01.10	HULL SCANTLING
CSV75006	A	19.01.10	DECK SCANTLING
CSV75009	A	23.09.10	STEERING AND PROPULSION
CSV75011	3	24.05.11	ELECTRIC SYSTEM
CSV75012	A	19.01.10	TOWING & HOISTING SYSTEM
CSV75013	A	19.01.10	DRAINING & OPENINGS
CSV75008	A	19.01.10	INFLATABLE COLLAR
7.2/13	1	19.01.10	HULL BUOYANCY FOAM

**TEST REPORTS**

- MSC/CIRC.980 Prototype Test Report for Rigid Rescue Boat Type "SV-750" dated 15.02.2010 as witnessed by a Lloyd's Register Surveyor
- TEST REPORT for acceptance of fire-retardant materials for the construction of the lifeboat performed as per IMO MSC. Circular 1006 performed at CIDEMCO TECNALIA, Report No: 26167 dated 18.10.2010 and Report No: K276-2005 dated 06.05.2005

**CONDITIONS OF CERTIFICATION**

- Rescue Boat Weights:-**

Lightweight	: 1617 kg	<b>Dimensions (Overall)</b> 7.48 x 2.77 x 1.15 metres (L x B x D)
Fully equipped weight	: 2250 kg	
Complement weight	: 660 kg, 8 persons @ 82.5 kg	
Recovery weight	: 2910 kg with 8 persons	
Fully Laden weight	: 2910 kg with 8 persons	
- Certified Equipment Details:**

**Engine**

Manufacturer	: YAMAHA MOTOR ESPANA, S.A.
Type	: YAMAHA F150 A
Power	: 110,3kW
Maximum Bollard pull	: 11340N



Page 3 of 4
Document number SAS S170031/M1
Issue number 1

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------------------------	--

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170031/M1

<u>Materials</u>	<u>Type</u>	<u>Manufacturer</u>
Gel Coat resin	BUFA -MARINE -NPG- GELCOAT TYPE 748-9999	BUFA GELCOAT PLUS GmbH & Co. KG
Polyester Resin	BUFA FIRESTOP S 590	BUFA GELCOAT PLUS
Chopped Strand mat	MAT 92	PPG SINOMA
Buoyant Material	ISOTHANE ECOFIL 40	ISOTHANE Ltd.
Coated Fabric for inflatable chambers	ORCA 866	PENNEL & FLIPO
Coated Fabric for inflatable chambers	1PU4-U4 AR/GR	CHIORINO

3. This boat is not self-righting
4. The launching/recovery appliance is to be capable of raising the rescue boat from the water with its full rescue boat complement of people and equipment at a rate of not less than 0.3m/s
5. The rescue boat is provided with a fixed single-point suspension arrangement for launching from a ship at sea and shall be equipped with an approved release mechanism certified for a maximum safe working load (SWL) of not less than the boat's maximum fully laden weight
6. All equipment which are supplied with the Rescue Boat, as required by LSA Code are to be delivered with an Approval Certificate (as applicable)
7. 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"
8. It is to be demonstrated to the attending surveyor's satisfaction that the rescue boat can be raised/lowered without interference with the occupants of the boat
9. For compliance with SOLAS Regulation III/35 and III/36 fully detailed operations and maintenance manuals shall be supplied with each rescue boat
10. The release gear does not form a part of this design appraisal but it is expected that the release gear used in conjunction with the rescue boat covered under this certificate is an approved type
11. The loose lifting gear is to be tested in accordance with the requirements of the IMO Resolution MSC.81 (70) and Chapter 12 of the LR Code for lifting appliances as appropriate, to the attending Surveyor's satisfaction
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 from above the ship to which the boat belongs along with the number of the boat
13. The rescue boat may be approved for up to a maximum of 8 persons provided the seating arrangement is to the satisfaction of the attending Surveyor
14. **Installation on board:** The launching arrangements and installation of the boat are not part of this design appraisal or certificate. All such arrangements are to be to the satisfaction of the attending Surveyors
15. Each rescue boat is to be marked with the information required by LSA Code, Paragraph 1.2.2.9 and 4.4.1.2



Lloyd's  
Register

## Lloyd's Register EMEA

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Page	4 of 4
Document number	SAS S170031/M1
Issue number	1

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#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170031/M1

16. 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
17. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5
18. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. 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
19. 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

#### PLACE OF PRODUCTION

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



Lijo Thomas  
Senior Specialist  
Statutory Fire & Safety  
Southampton Technical Support Office, Marine & Offshore  
Lloyd's Register EMEA

#### Supplementary Type Approval Terms and Conditions

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).*