EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007UX

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Automatically self-righting liferafts: inflatable

with type designation(s)
SR-50, SR-66, SR-100

Issued to
AUXILIAR DE SEGURIDAD EN LA MAR, S.A.
Viladecans, Barcelona, Spain

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2021/1158,**
item No. MED/1.14a SOLAS 74 as amended Reg. III/4, III/26, III/ 34 and X/3, LSA Code I, IV and 1994 HSC Code 8. 2020 HSC Code 8

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-12-02**.

Issued at **Hamburg** on **2021-12-03**

DNV local station:
Area NB/CMC Iberia

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
Head of 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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

SR-50, SR-66, SR-100 are automatically self-righting liferafts, inflatable, throw over-board type, packed with SOLAS A- or SOLAS B-Pack.
Trade name: DUARRY
These liferafts are identical with the MED approved liferafts SEA-AIR ASR-50, ASR-66 and ASR-100 (certified with MEDB00007NR), manufactured by Ningbo Neptune Life Saving Equipment Co.,Ltd..
All these liferaft designs are complying with IMO Res. MSC.48(66)-(LSA Code) Ch. I and IV, as amended by IMO Res. MSC.218(82) and IMO Res. MSC.293(87).

Application/Limitation

Type	Persons (each 82.5 kg)	Weight [kg]		Required towing force [kN]		Maximum stowage height [m]
		SOLAS A	SOLAS B	2 knots	3 knots	
SR-50	50	395	280	1.8	3.0	50
SR-66	66	490	340	2.2	3.35	40
SR-100	100	815	600	3.2	3.5	40

- The liferaft shall be packed with a SOLAS A- or SOLAS B emergency pack.
- Gas cylinders shall be of an approved type.
- Components in the gas inflation system should be approved according to ISO 15738:2002.
- The liferaft is intended to be installed with external weak link and a hydrostatic release unit. Float free arrangement to be checked upon installation on board.
- Production tests are to be conducted in accordance with IMO Res. MSC.81(70), Part 2 and recorded by the manufacturer in compliance with the approved Production Quality Assurance System for Module D of the Marine Equipment Directive 2014/90/EC as amended.
- If carried on ro-ro passenger ships, these liferafts shall be fitted with a search and rescue locating device in the ratio of one serach and rescue locating device for every four liferafts, in accordance with SOLAS III/26.2.5.
- The liferafts are to be serviced annually, provided where in any case this in impracticable, the administration may extend this to a period to 17 months. They shall be serviced at approved service stations which are authorized by the manufacturer.

The liferafts of type “SR-50, SR-66 and SR-100”, each having a mass of more than 185 kg, are not suitable for side-to-side transfer and have to be stowed for launching directly from the stowed position under unfavourable conditions of trim and list, according to SOLAS Reg.III/16.1.2.

Type Examination documentation

Basis for approval:

Drawings for SR-50, SR-66 and SR-100	See list below.
Prototype test report witnessed by DNVGL Ningbo, technical file with Ref.:15-065264	2016-01-18
Inspection report: National Supervision and Testing Center of Fishery Machinery and Instrument, No.2015YW003	2015-07-01
Evaluation and test reports for inflatable liferaft materials:	
- Test report no. 2015182 (HSR-XB-A (HN)),	2015-12-01/18
- Test report no. 2015185 (HSR-B-W (2x3-2PU))	2015-12-07/18
- Test report no. 2015187 (HSR-B-T (100T)) from Wuhan Testing Centre of Marine Lifesaving Appliances, Wuhan district, Hubei Province, China	2015-12-21/22

Type	Drawing no.	Name
SR-50	ASR-50-00	Type ASR-50 self-righting inflatable liferaft General drawing
	ASR-50-01	Type ASR-50 self-righting inflatable liferaft Assembling drawing
	HSR-S-50-00	Container (SOLAS A Pack)
	HSR-R-100-00	Container (SOLAS B Pack)

SR-66	ASR-66-00	Type ASR-66 self-righting inflatable liferaft General drawing
	ASR-66-01	Type ASR-66 self-righting inflatable liferaft Assembling drawing
	HSR-S-50-00	Container (SOLAS A Pack)
	HSR-R-100-00	Container (SOLAS B Pack)
SR-100	ASR-100-00	Type ASR-100 self-righting inflatable liferaft General drawing
	ASR-100-01	Type ASR-100 self-righting inflatable liferaft Assembling drawing
	HSR-S-100-00	Container (SOLAS A Pack)
	HSR-S-50-00	Container (SOLAS B Pack)

Tests carried out

Prototype tests and test reports in accordance with the Recommendation on Testing of Life-Saving Appliances, IMO Res. MSC.81(70) part 1, including IMO Res. MSC.226(82), IMO Res. MSC.295(87) and MSC.323(89), have been witnessed and evaluated and found to be complying.

Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation, date of manufacture and the MED Mark of Conformity (see first page). The marking shall comply with the LSA Code (IMO Res. MSC.48(66)) item 4.2.6 and 4.2.7.