DNV·GL

Certificate No:
MEDB00003N5

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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

This is to certify:

That the Inflatable liferafts

with type designation(s)
SEA-AIR ATOB-6/8/10/12/15/16/20/25/30/35 (throw over-board type)

Issued to
Ningbo Neptune Life-Saving Equipment Co., Ltd.
Ningbo 130, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/1.12. SOLAS 74 as amended, Regulation III/4, III/13, III/21, III/26, III/31, III/34 & X/3, LSA Code, IMO MSC/Circ.811 and 2000 HSC Code 8

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

This Certificate is valid until **2023-01-30**.

Issued at **Hamburg** on **2018-01-31**

DNV GL local station:
Ningbo

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Job Id: **344.1-007770-2**
Certificate No: **MEDB00003N5**

Product description

Throw over-board type, inflatable liferafts SOLAS A and B Pack, with the following type designation:

SEA-AIR ATOB-6/8/12/15/16/20/25/30/35

Trade names:

SEAWOLF ECE-6/8/12/15/16/20/25/30/35

ANGEVINIER ATOB-6/8/12/15/16/20/25/30/35

The liferaft design is complying with the LSA Code as amended, including IMO Res. MSC. 293(87).

Application/Limitation

Type	Persons (82,5 kg)	Weight [kg] SOLAS A	Weight [kg] SOLAS B	Required bollard pull [kN]		Max. Stowage Height [m]
				2 kn	3 kn	
ATOB-6	6	76	66	0.30	0.80	50
ATOB-8	8	85	73	0.35	0.90	50
ATOB-10	10	98	82	0.40	0.90	50
ATOB-12	12	108	92	0.45	0.95	50
ATOB-15	15	122	97	0.50	1.30	50
ATOB-16	16	127	100	0.70	1.50	50
ATOB-20	20	149	120	0.80	1.80	50
ATOB-25	25	178	135	1.00	1.85	50
ATOB-30	30	205	140	1.10	2.00	50
ATOB-35	35	223	148	1.30	2.40	50

- 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 month. They shall be serviced at approved service stations which are authorized by the manufacturer.
- The liferaft shall be packed with a SOLAS A PACK or SOLAS B 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 shall be carried out in accordance with IMO Resolution MSC.81(70) Part 2

The liferafts ATOB-30 and ATOB-35 with SOLAS emergency pack type A have a mass of more than 185 kg and may not be used for positions where side-to-side transfer is required.

Type Examination documentation

This certificate is replacing the previous MED B certificate 12234-10 HH.

- Test report of Germanischer Lloyd SE dated 2010-12-31, 2011-06-10 and 2012-09-05. The National Supervision and Testing Center of Fishery Machinery and Instrument No. 2010YW140.
- Drawings and technical file for SEA-AIR ATOB models

Tests carried out

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

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation and date of manufacture. The marking shall comply with the LSA Code (IMO Res.MSC48(66) item 4.2.6.3 and 4.2.7.