DNV·GL

Certificate No:
MEDB000038R

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)
Davit-launched type: ANA-D15, ANA-D16, ANA-D20, ANA-D-25

Issued to
Akana Deniz Teknolojileri San.Tic.Ltd.Sti
Trabzon, **Turkey**

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 **2022-10-01**.

Issued at **Hamburg** on **2017-10-02**

DNV GL local station:
Hamburg Ship Safety

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Product description

Inflatable liferafts, davit launched type (with SOLAS A and B Pack)
ANA-D15, ANA-D16, ANA-D20, ANA-D25

Application/Limitation

Max. drop height: 30m
Technical Data
Conditions of Certification:

Type:	Persons (each 82.5 kg)	Weight [kg] SOLAS A/B	Required bollard pull [kN] (2 kn)	(3 kn)	max. Stowage Height
ANA-D15	15	165 / 135	0.95	1.55	30 m
ANA-D16	16	168 / 138	1.10	1.80	30 m
ANA-D20	20	180 / 137	1.25	1.95	30 m
ANA-D25	25	210 / 155	1.45	2.40	30 m

- The liferafts shall be packed with SOLAS A Pack or SOLAS B Pack.
- Gas cylinders shall be of an approved type.
- Components of 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.
- The liferafts are to be serviced annually, provided where in any case this is impracticable, the administration may extend this period to 17 month. They shall be serviced at approved service stations which are authorised by the manufacturer.
- Production tests are to be conducted in accordance with IMO Resolution MSC.81(70) Part 2 and recorded by the manufacturer in accordance with the approved Production QualityAssurance system for Module D of the Marine Equipment Directive 96/98/EC as amended.

Type Examination documentation

Design calculation for ANA-D type inflatable liferafts,
Servicing Manual and User Manual
These liferafts are technically identical to the liferaft type manufactured by Shanghai Haian Lifesaving Equipment, HAF-D15/D16/D20/D25 certified with MEDB00001W5, as agreed in letter of authorization dated 2017-06-29 between Haian and Akana.

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.218(82), MSC.226(82), MSC.295(87) and MSC.323(89), have been witnessed and found to be in compliance.
- Test reports from GL Shanghai dated 2009-11-30, 2010-01-29, 2011-09-21 (Ref. 11-153105) and 2015-02-11 (Ref. 15-020877 for new boarding platform)
The National Supervision and Testing Center of Fishery Machinery and Instrument (No.2014YW107)

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, date of manufacture batch or serial number or other elements allowing their identification. The marking shall comply with the LSA Code (IMO Res.MSC48(66) item 4.2.6.3
and 4.2.7).