

EC CERTIFICATE TYPE EXAMINATION (MODULE B)

DNV·GL

This is to certify that:

DNV GL SE, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No. **42 398 - 16 HH**

Applicant **Lalizas Hellas S.A.**
3, Gounari Str.
185 31 Piraeus, GREECE

Product Description **Inflatable liferafts (davit launched type)**

Product Name **Lalizas Oceano, DL-12/-15/-16/-20/-25**

Trade Name **Lalizas Oceano, DL-12/-15/-16/-20/-25**

Specified Standards **SOLAS 74 as amended Reg. III/4, III/13, III/21, III/26, III/31, III/34 and X/3, LSA Code I and IV, 1994 and 2000 HSC Code 8, MSC/Circ.811**

Related Directive **2014/93/EU**

Equipment Section **Life-saving appliances**

Annex A.1 Item No. **A.1/1.12**

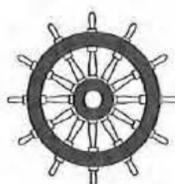
Date of Issue **2016-02-09**

Expiry Date **2021-02-08**

DNV GL SE

Notified Body No.: 0098

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Christine Mydlak-Röder

Certificate No: 42 398 - 16 HH

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Schedule of Approval

Additional Standards

None

Approval Documentation

- test report no "HSR-ADL-BG05" dated 2012-09, witnessd by GL,
- assembly drawings ADL-12-00, ADL-15-00, ADL-16-00, ADL-20-00 and ADL-25-00

Ref.no. 16-002723

Technical Data

Type	Persons (82.5 kg)	Weight [kg] SOLAS A	Weight [kg] SOLAS B	Required towing force [kN]		Maximum stowage height [m]
				2 knots	3 knots	
ADL-12	12	80	65	0.98	1.05	50
ADL-15	15	150	115	1.0	1.6	50
ADL-16	16	160	125	1.2	1.7	50
ADL-20	20	208	165	1.45	1.9	50
ADL-25	25	239	185	1.5	2.4	50

The design assessment is based on IMO Res. MSC.48(66)-(LSA Code), as amended by:

- IMO Res. MSC.207(81),
- IMO Res. MSC.218(82),
- IMO Res. MSC.293(87)

The product has been tested in accordance with IMO Res. MSC.81(70) part 1, as amended by:

- IMO Res. MSC.226(82),
- IMO Res. MSC.295(87),
- IMO Res. MSC.323(89)

The equipment and marking of the liferaft shall be in accordance with LSA-Code 4.1.5.

The container shall be installed with external weak links and hydrostatic release units in accordance with LSA Code 4.1.6, to be verified upon installation on board.

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 Res. MSC.81(70) Part 2 and recorded by the manufacturer in accordance with the approved Production Quality Assurance system for Module D of the Marine Equipment Directive (MED) as amended.

Remarks

The liferafts DL-20 and DL-25 with SOLAS emergency pack type A have a mass of 208 kg / 239 kg and may not be used for positions where side-to-side transferability is required.

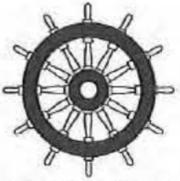
Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE, as the Notified Body, of any modifications or changes to the approved equipment. Should the specified regulations or standards be amended during the validity of this certifiante, the product is to be re-approved before being placed on board a vessel to which the amended regulations or

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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-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.

Limitations on the acceptance or use of the product

None

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