DNV·GL

Certificate No:
MEDB00006HE

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 Lifejackets

with type designation(s)
70177 - Advanced Child Lifejacket SOLAS-(LSA Code) 2010

Issued to
Lalizas Hellas S.A.
Piraeus, Greece

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
item No. MED/1.4. SOLAS 1974 as amended, Reg. III/4, III/7, III/22, III/34 & X3, LSA Code, 2000 HSC Code 8 and IMO MSC/Circ.922, IMO MSC.1/Circ.1304 and 1470.

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

This Certificate is valid until **2025-05-12**.
Issued at **Hamburg** on **2020-05-13**

DNV GL local station:
Piraeus

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

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Product description

The LALIZAS 70177 is an inherently buoyant, children lifejacket and is approved for persons with a weight of 15 - 43 kg and a height of 100 - 155 cm.

Application/Limitation

- Retro-reflective material and position indicating light shall be approved in accordance 2014/90/EC as amended and be "wheelmarked".
- The design assessment is based on IMO Res. MCS.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82) and IMO Res. MSC.368(93).
- Production tests shall be carried out according to IMO Res. MSC.81(70), Part 2 as amended.
- IMO MSC/Circ.922 is not applicable for this lifejacket type.
- This certificate is based on the previous MED-B certificate MED 1550141/M1

Type Examination documentation

The following documentation is basis for the DNV GL approval:

- Prototype tests for MSC.81(70) as amended:
  Wuhan Marine Lifesaving Equipment Quality Inspection Center No. 2006067 dated 2006-12-20 and Wuhan Testing Center of Marine LSA 2015010 dated 2015-02-10

- Material tests:
  - No. 2006068 dated 2007-06-12 Fabric, Thread, Buckle and Fabric
  - No. 2009040 dated 2009-09-02 Waist buckle
  - No. 2009041 dated 2009-09-02 Webbing
  - No. 2009059 dated 2009-10-09 Foam flotation material
  - No. 09 1 0052-1 dated 2009-02-16 Webbing closure
  - No. 2015001 dated 2015-02-15 Side release buckle
  - No.2015006 dated 2015-03-11 Yellow polyester fabric

- Technical file approved with NPS job 344.1-010457-1

- Drawing: 70176 Final Drawing LLZ7017701

Tests carried out

Tests carried out in accordance with Revised Recommendations on testing of Life-Saving Appliances, IMO Res.MSC.81(70), Part 1, including IMO Res. MSC.200(80), IMO Res. MSC.226(82), IMO Res. MSC.323(89) and IMO Res. MSC.378(93).

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, batch or serial number or other elements allowing their identification and the MED Mark of Conformity (see first page). In addition the lifejacket shall be marked with the appropriate weight range and a child symbol in accordance with IMO Res. A.760(18). The marking shall comply with the LSA-Code (IMO Res. MSC.48(66)), item 1.2.2.9 and 2.2.1.10.