



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007C9

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 Position indicating lights for life-saving appliances: (b) for lifebuoys

with type designation(s)
Lifebuoy Light, type QD2-2

Issued to

Ningbo Zhenhua Life-saving Equipment Co., Ltd.
Ningbo, 130, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2020/1170,

item No. MED/1.2b. SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code, 2000 HSC Code 8

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

This Certificate is valid until **2026-04-28**.

Issued at **Hamburg** on **2021-04-29**

DNV local station:
Ningbo FIS

Approval Engineer:
Didier Girardin



Notified Body
No.: **0098**



for DNV SE
Digitally Signed By: Mydlak-Röder, Christine
Location: DNV GL SE, Hamburg

Christine Mydlak-Roeder
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Form code: MED 201.DEU

Revision: 2021-03

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Product description**Lifebuoy self-igniting light, type QD2-2**

Lifebuoy Light of type QD2-2 activated automatically after being pulled from its holding bracket by the act of deployment of the lifebuoy by being switched "ON" automatically.

Technical Data

Luminous intensity of lights: $\geq 2\text{cd}$

Luminous period of lights: $\geq 2\text{h}$

Lifebuoy self-igniting light (combining self-activating smoke signal, Certificate No: MEDB00007C8) **Type QCYD-I 15-2-2**

Application/Limitation

Instruction for maintenance and operation manual to be provided with each delivery

Examination documentation

Hidden

Renewal of 42 394 - 16 HH

End of hidden

TR-2021002 MSC Circ-980 (QD2-2) dated 2021.01.19

TR-2014112 MSC Circ-980 (QD2-2) dated 2014.09.22

Test report: Wuhan Testing Center of Marine Life-saving Appliances

Lithium batteries' short circuit test report, dated 2015-12-03, issued by the manufacturer, DNV GL Ref. No.: 15-054680

Tests carried out

MSC.81(70) as amended

EN 60945:2002 incl. IEC 60945 Corr. 1:2008

Marking of product

According to Article 10 of the Council Directive (MED) and including information required by the LSA Code § 1.2.2.9 and § 1.2.3

- Manufacturer name
- Type identification
- Lot number/Serial number
- USCG approval number: USCG 161.110/EC0098/MEDB00007C9