



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED117622WS/002

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2021/1158.

<i>MED Item N°</i>	MED/1.2b
<i>USCG Category N°</i>	161.110
<i>Description</i>	Position-indicating lights for life-saving appliances: (b) for lifebuoys
<i>Type</i>	AQLBL; AQLBA
<i>Applicant</i>	AQUASPEC LIMITED HYS PORT HAMBLE, HAMBLE, SOUTHAMPTON SO31 4NN Hampshire UNITED KINGDOM
<i>Testing standards</i>	IMO Res. MSC.81 (70), as amended, EN 60945:2002 incl. IEC 60945 Corr. 1:2008, ISO 24408:2005.
<i>Reference standards</i>	SOLAS 74 Reg.III/7, SOLAS 74 Reg.III/22, SOLAS 74 Reg.III/32, SOLAS 74 Reg.III/34, IMO Res.MSC.36(63)-(1994 HSC Code) 8, IMO Res.MSC.48(66)-(LSA Code) I, IMO Res.MSC.48(66)-(LSA Code) II, IMO Res.MSC.97(73)-(2000 HSC Code) 8.

Issued in **SHANGHAI** on
May 1, 2022

This Certificate is valid until
April 30, 2027

This Certificate consists of this sheet plus an attachment



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RINA Services S.p.A.

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000





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Manufacturer

XIAMEN LONAKO INDUSTRY & TRADE CO., LTD

Place of Manufacturer

N307
WEIYE BUILDING
CHINA PIONEERING PARK FOR CHINESE OVERSEAS SCHOLARS Xiamen
CHINA

Name & place of Authorised Representative

Mr. Johannes Graf Strachwitz
Walhallastraße 38, 80639 München, Germany
GERMANY

Product Description

Model of lights: AQLBL - Lifebuoy self-igniting light automatically activated by water sensor;
AQLBA - Lifebuoy light upright self-igniting.

The above lights are manufactured with following characteristics:

Items	AQLBL	AQLBA
Dimension of body	Ø 90 mm, height 124 mm	Ø 60 mm, height 144 mm
Color of shell	Transparent	Transparent
Color of body	Red	Red
Weight	Light 180g, Clip 36g	114g (Including clip)
Flash rate	about 54 flashes per minute	about 56 flashes per minute
Battery	1 x 3.0 Volt, 1200mAh, model CR123A lithium	2 x 1.5 Volt, Alkaline type LR6
Bulb	White LED, 0.5W, 50mA	White Powerful LED, 0.5W, 50mA

The lights are supplied with a clamp for fastening closed to the lifebuoy.

Reference Documents

AQLBL:

Booklet of Technical Drawings (AQLBL Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-9100;

Modification Statement (AQLBL Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and filed by RINA with No.: SHFP-9101;

Updated Technical Specification (LNK-LB-01B Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-17933;

Labeling (LNK-LB-01B Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-17774.

AQLBA:

Booklet of Technical Drawings (AQLBA Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and approved by RINA with No.: CSST-8903;

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
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Signature





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Continued:

Technical Specifications (AQLBA Lifebuoy Light) edit by Xiamen LONAKO and approved by RINA with No.:SHFP-20217;

Operation and Maintenance Instructions (AQLBA Lifebuoy Light) edit by Xiamen Lonako and approved by RINA with No.: CSST-8904.

Tests Carried Out

AQLBL:

- Evaluation and Test Report edit by RINA Shanghai Office according to IMO Res. MSC.81(70) as amended by Res.MSC.200(80), MSC.226(82) and MSC.323(89) and filed by RINA with No.: CSST-7173;
- Inspection Report (Ref No.: 2010YW149) issued by The National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.: SHFP-17769;
- Test Report (Ref No.: 2010YW035) issued by The National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.: CSST-7174;
- Test Report (Ref No.: 2010YW036) issued by The National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.:CSST-7175;
- EMC Test Report (Ref. No.: 2020EC-WJ0055) edit by Xiamen Products Quality Supervision & Inspection Institute according to REG. 9.3, 10.4 and 10.9 of IEC 60945:2002 incl. IEC 60945 Corr.1 (2008) and filed by RINA with No.: SHFP-17771;
- Additional Evaluation and Test Report (Ref. No.: 2021LB-01B) edit by Xiamen Lonoko Industry & Trade Co., Ltd. according to REG. 8.3, 8.5, 8.6, 8.9 and 11.2 of IEC 60945:2002 incl. IEC 60945 Corr.1 (2008) witnessed by RINA dated on 23.03.2021~24.03.2021 and filed by RINA with No.: SHFP-17770.

AQLBA:

- Evaluation and Test Report edit by RINA Shanghai Office according to IMO Res. MSC.81(70) as amended by Res.MSC.200(80), MSC.226(82) and MSC.323(89) and filed by RINA with No.: CSST-8907;
- Inspection Report (Ref.: No.2010YW036 and No. 2012YW033) edit by National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.: CSST 8908 and SHFP-20203 (including tests of ISO 24408:2005);
- Test Report (Ref No.: 2009227) edit by Center of Analysis & Measurement of Shanghai Institute of Industrial Microbiology and filed by RINA with No.: CSST-8910;
- Additional Evaluation and Test Report (Ref.: No.2022LB-02B) edit by XIAMEN LONAKO INDUSTRY & TRADE CO., LTD according to Chapter 8.3, 8.5, 8.6, 8.9 and 11.2 of IEC 60945:2002 incl. IEC 60945 Corr.1 (2008) and filed by RINA with No.: SHFP-20204.

Field of Application

Lifebuoy self-igniting light is designed in compliance with MSC48(66) (LSA Code) with a maximum drop height of 30m.

Remark

Previous issued MED Module B certificate No.: MED069519WS/002 was annulled and replaced accordingly.

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
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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 control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX Notified Body number undertaking surveillance module

YYYY The year in which the mark is affixed

USCG Approval marking

This equipment is covered by the scope of 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 according to U.S. Coast Guard approval category **161.110**.

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 MED.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.



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