



UK Approved Body Authorised
by the MCA

Certificate number: 74342/A0 UK

File number: LSA 140674/03

Item number: UK/1.2b

*This certificate is not valid when
presented without the full attached
schedule composed of 7 sections*

Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

This certificate is issued to:

AquaSpec Limited
Southampton - UNITED KINGDOM

for the type of product

POSITION-INDICATING LIGHTS FOR LIFEBUOYS
AQLBA & AQLBL

Requirements:

SOLAS 74 Convention, as amended, Regulations III/4, III/7, III/22, III/32, III/34, X/3
IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89),
MSC.368(93), MSC.425(98), MSC.459(101) and MSC.485(103) I, II
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8
IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89),
MSC.378(93), MSC.427(98), MSC.472(101) and MSC.488(103)
IEC 60945:2002 incl. IEC 60945 Corr.1:2008
ISO 24408:2005
IMO MSC.1/Circ.1628

The attached (schedule of approval) forms part of this certificate.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

This certificate will expire on: 29 Apr 2028

Issued by Bureau Veritas SA UK Branch Office

(Approved Body 8517)

At BV SHANGHAI, on 29 Apr 2023,

Jennifer Zhang

This certificate was created electronically and is valid without signature



Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

Note 2: Should the specified Regulations or standards be amended during the period of validity of this certificate, the product(s) is/ are to be re-approved prior to it/ they being placed on the UK market and on board vessels to which the amended regulations of standards apply.

Note 3: "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 Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body."

Note 4: In case limitations of use apply, these should be indicated in the Annex.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Trademark	AquaSpec Limited	
Type	AQLBA	AQLBL

AQLBA

Main body Dimension	Battery	Activation	Light type
#60*144mm	2* AA alkaline (replaceable)	Automatically turn on when the head of light is upwards; Automatically turn off when the head of light is downwards.	Flashing

AQLBL

Main body Dimension	Battery	Activation	Light type
#90*124mm	Lithium	Automatically turn on when head of LED lamp upwards and water sensors contact water same time. Automatically turn off otherwise	Flashing

As indicated in the technical documentation submitted by the Applicant.

2. DOCUMENTS AND DRAWINGS:

AQLBA

- Technical Drawings

Number	Title	Issue	Date
LNK-LB-02B	List of Technical drawing	A0	2023-2-6

- Materials & Components

Number	Title	Issue	Date
LNK-LB-02B	Bill of Material - Lifebuoy Light	V1.0	12/01/2023

- Markings & Manual(s) for installation use and maintenance:

Number	Title	Issue	Date
LB-02B-mark	Mark	V0	2023.1.10
LNK-OM-LB-02B(AQ)/A0	OPERATION and MAINTENANCE INSTRUCTIONS	A0	2023.1.10

AQLBL

- Technical Drawings

Number	Title	Issue	Date
LNK-LB-01B	List of Technical drawing	A0	2023-2-6

- Materials & Components

Number	Title	Issue	Date
LNK-LB-01B	Bill of Material - Lifebuoy Light	V2.0	2023.1.12

- Markings & Manual(s) for installation use and maintenance:

Number	Title	Issue	Date
LB-02B-mark	Mark	V0	2023.1.10
LNK-OM-LB-01B(AQ)/A0	OPERATION and MAINTENANCE INSTRUCTIONS	A0	2023.1.10

No departure from these documents is permitted without the prior consent of the Society.

3. TEST REPORTS:

TYPE TESTS - AQLBA

Number	Title	Date
2012YW033	Initial type test report	30/07/2012
2022LB-02B	Additional IEC 60945:2022	16-18/03/2022
2010YW036	Additional IEC 60945:2022	16/07/2010
20092277	Mould Growth test according to the MSC.81(70)	25/01/2010

TYPE TESTS - AQLBL

Number	Title	Date
2010YW149	Initial type test report	21/03/2011
2021LB-01B	Additional IEC 60945:2022	23-24/03/2021
2010YW036	Additional IEC 60945:2022	16/07/2010
2010YW035	Corrosion and Seawater Resistance test report	16/07/2010
20092277	Mould Growth test according to the MSC.81(70)	25/01/2010
20092276	Mould Growth test according to the MSC.81(70)	25/01/2010

4. APPLICATION / LIMITATION:

- The scope of the appraisal made by Bureau Veritas to issue this certificate is strictly restricted to the relevant requirements stated on the front page of this certificate.
- Each position indicating light shall be supplied with its instructions for use, inspections and on-board maintenance complying with the regulations stated on the front page of this certificate.
- Position-indicating lights for lifebuoys not using disposable batteries shall be replaced prior the date of expiry which is marked on the signal casing.
- Position-indicating lights for lifebuoys using disposable batteries as power source, batteries shall be changed annually.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, is to be complied with and controlled by a written inspection agreement with an Approved Body.

5.2 - The manufacturer shall institute a quality control procedure to ensure that positioning-indicating lights are produced to the same standard as the approved prototype and shall keep records of any production tests carried out.

5.3 - Each position indicating Light intended to be fitted onboard a United Kingdom ship shall be delivered with a United Kingdom Declaration of Conformity

5.4 - Each equipment, or batch of equipment, is to be supplied with its Manual(s) for installation, use and maintenance.

5.5 - For information concerning the production phase modules, **AquaSpec Limited** has declared the following manufacturing site(s):

XIAMEN LONAKO Inc.

1019-2 Wanjiachun Road, Torch High-tech
Zone(XiangAn), Xiamen, P.R.China

6. MARKING OF PRODUCT:

The positioning-indicating light shall be permanently and legibly marked with:

- Approval information : 74342/A0 UK (BV TAC number),
- Any operational restrictions,
- Date of Expiry,
- Precise definition of intended use (e.g. "Lifebuoy self-igniting light"),
- Serial number,
- Identification of the Manufacturer,
- Easy understandable symbols for on/off switching,
- Model Designation, and
- Information on proper battery disposal by the words "DO NOT INCINERATE/DO NOT RECHARGE/DO NOT TAMPER".

Reference is made to the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, Part3:

In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS:

It is **AquaSpec Limited's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

***** END OF CERTIFICATE *****