DNV·GL

Certificate No:
MEDB000063G

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 Lifebuoys

with type designation(s)
BUOY1, BUOY2

Issued to
Shanghai Yibei Safety Equipment Co. Ltd.
Shanghai, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/1.1. SOLAS 74 as amended, Regulation III/4, III/7, 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 **2025-09-01**.
Issued at **Hamburg** on **2020-09-02**

DNV GL local station:
Shanghai

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Name:	BUOY 1	BUOY 2
Weight:	2.5 kg	4.3 kg
Diameter, inner/outer:	440/720 mm	470/760 mm
Colour:	orange	
Max. drop height:	80 m	
Buoyancy material:	Polyurethane foam	
Cover material:	HDPE F60	

Application/Limitation

The lifebuoy BUOY1 does not have sufficient mass to operate the quick-release arrangement provided for self-activated smoke signals and self-igniting lights.

Self-igniting light and retro-reflective material used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

The design assessment is based on IMO Res. MSC.48(66) LSA-Code as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2, Ch.3 and recorded by the manufacturer in accordance with the approved Production Quality Assurance system for Module D of the Marine Equipment Directive.

Type Examination documentation

Test report No. 2019072 and 2019073 both dated 2019-05-27 until 2019-07-22 of Wuhan Testing Center of Marine Life-saving Appliances, China.
Drawings: Lifebuoy 2.5kg and Lifebuoy 4.3 kg both dated 2020-01-11

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.200(80) and IMO Res. MSC.226(82).

Marking of product

The product is to be marked with name and address of manufacturer, type designation, date of manufacture, date of expiry, operational restrictions and Mark of Conformity (see page 1).
In addition each lifebuoy shall be marked in block capitals of the Roman alphabet with the name and port of registry of the ship on which it is carried in accordance with SOLAS III/7.1.4.