

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifebuoys

with type designation(s)
Lifebuoy 2,5 kg and 4,2 kg. Trade name: PB-Buoy

Issued to

Peters + Bey GmbH
Reinbek, Germany

is found to comply with

**SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code, 2000 HSC Code 8
TP14475E Ed.1 (2010-03) Canadian life saving appliance standard**

Application :

Approved for use as lifebuoys with launching from a height of 60 m.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

This certificate is recognized by Transport Canada.

Issued at **Hamburg** on **2021-07-23**

for **DNV**

This Certificate is valid until **2026-07-22**.

DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Roland Priebe**

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Jörg Kallies
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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.



Product description

The **Lifebuoy 2,5 kg and 4,2 kg** are constructed of inherent buoyant material and have an outer diameter of not more than 800 mm and an inner diameter of not less than 400 mm.

Trade name: PB-Buoy

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

The lifebuoy 4,2 kg has sufficient mass to operate the quick-release arrangement provided for self-activated smoke signals and self-igniting lights. The lifebuoy 2,5 kg has not this mass.

The lifebuoys 2,5 kg and 4,2 kg are approved for launching from a height of 60 m.

The used retro-reflective material has 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) 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.

Additional Standard: EM14144

Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, September 2018.

Test report No. 2008/CS/01/5410 issued by RINA on 2008-12-03

Drop test from 60 m (Köhlbrandbrücke): issued by GL on 2011-05-26

<u>Drawings:</u>	<u>Drawing number</u>	<u>Dated:</u>
Lifebuoy 2,5	1831504-3-3	2021-05-25
Lifebuoy 4,2	1831503-3-3	2021-05-20

Tests carried out

The products have been tested in accordance with 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 and operational restrictions.

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.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances and Fire Safety Systems, Equipment and Products (TP 14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNVGL-CP-0338, Section 4.