Certificate No:
TALB0000048

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifeboats

with type designation(s)
PEL 12.5 NEO (davit-launched, partially enclosed)

Issued to
Hatecke GmbH
Drochtersen, Niedersachsen, Germany

is found to comply with
SOLAS 74 as amended, Regulation III/4, III/21, III/31, III/34 & X/3, LSA Code, IMO MSC/Circ. 1006 & 1423, and 2000 HSC Code 8

Application :

This lifeboat is designed for max. 382 persons and may only be used for installation on passenger ships, provided an engineering analysis according to SOLAS III/38 has been performed and is accepted by the flag-state concerned.

Issued at **Hamburg** on **2021-12-10**
This Certificate is valid until **2026-12-09**.
DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Michael Oberländer**

for **DNV**

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 PEL12.5 NEO is a partially enclosed, davit-launched lifeboat designed for evacuation from a passenger ship.

Length over all:	12.92 m
Breadth over all:	5.70 m
Height over all:	3.97 m
Max. weight of boat, fully equipped:	13.350 kg
Max. weight of boat, fully manned (incl. 382 pers. x 75 kg):	42.000 kg
Hook manufacturer and type:	Hatecke Duplex 20.0 (for loaded weight <40.0 t) or Duplex 27.0 (for loaded weight >40.0 t) (MEDB00002W7 or MEDB00003K0 Rev.3)
Hook SWL:	20.0 t for Duplex 20.0 / 26.0 t for Duplex 27.0
Hoisting distance:	11800 mm +/- 25 mm
Hull material:	GRP: Glas fibre reinforced polyester (hand laminated)
Buoyant material:	Polyurethane hard foam, total volume 24.2 m³
Propulsion system:	Inboard engines
Engine manufacturer and type:	2 x NANNI N3.30 KC, 21.7 kW each
Bollard pull:	3.3 kN

Application/Limitation

The above product will be accepted as being compliant with the applicable DNV Rules for Classification and Construction and with the International Convention for the Safety of Life at Sea as amended and other IMO codes, for use on passenger ships classed with DNV and on passenger ships for which DNV is authorized by contracting governments to issue the relevant certificates.

The Lifeboat is not complying with LSA-Code 4.4.2.1 (max. lifeboat capacity 150 persons) and may therefore only be used for 382 persons, provided an engineering analysis according to SOLAS III/38 has been performed and is accepted by the flag-state concerned.

The design assessment is based on IMO Res. MSC 48(66) as amended by IMO Res. MSC 218(82), IMO Res. MSC 272(85) and IMO Res. MSC 320(89).

An operation and maintenance manual in compliance with MSC.1/Circ.1205 shall be provided with each lifeboat.

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), part 2, as amended.

Annual thorough examination, five-yearly thorough examination and overhaul, overload testing and repair of lifeboat and release gear to be done by OEM trained and certified personnel only.

Each lifeboat shall be delivered together with a DNV Boat Certificate.

Type Approval documentation

Basis for this approval:

Technical documentation as listed in LIS-PEL12.5N-0-Drawing list DNV-Rev.2	2021-12-02
Material Specification SPC-PEL125NEO-0-Material specification GRP-Rev.0.docx	2021-05-25

Main drawings:

General Arrangement Plan PEL12,5Neo (383 persons) PEL12.5N-000-0	2020-08-10
Seating Arrangement (382 persons) PEL12.5N-003-0	2021-02-16
Laminate plan hull PEL12.5N-201	2020-03-23
Laminate plan bottom frame PEL12.5N-210	2020-07-17
Laminate plan inner bottom PEL12.5N-220	2021-03-24
Laminate plan tween deck PEL12.5N-230	2021-01-22
Stiffener tween deck PEL12.5N-231	2021-01-21
Stiffener upgrade tween deck PEL12.5N-232	2021-01-21
Laminate plan frame canopy PEL12.5N-240	2021-02-12

Laminate plan canopy PEL12.5N-250	2020-07-06
Laminate plan canopy reinforcement PEL12.5N-251	2020-12-07
Foundation for hoisting hook PEL12.5N-401	2021-11-18
Release system PEL14-403	2021-05-21
Engine and Propulsion Arrangement PEL12.5N-004-0	2021-05-28
Skates PEL12.5N-600	2021-05-28
Impact fender PEL12.5N-601	2021-05-28

Prototype test reports

Report. No.	***Dated***
Evaluation and test report in accordance with MSC/Circ.980/Add.1, Sec 4.4 witnessed by DNV surveyor	2021-06-07 / 2021-07-20 / 2021-08-19 / 2021-08-20 / 2021-08-27
Fire testing of lifeboat laminate acc. to IMO MSC/Circ. 1006, SINTEF, Trondheim, NOR 102010.80/10.086	2010-11-08

Tests carried out

The product has been tested in accordance with Recommendation on Testing of Lifesaving Appliances, IMO Res. MSC.81(70) part 1, as amended by IMO Res. MSC.226(82), IMO Res. MSC.274(85), IMO Res. MSC.321(89), IMO Res. MSC.323(89) and IMO MSC/Circ.1006.

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, dimensions, date of manufacture, boat model and serial number or other elements allowing their identification in accordance with LSA Code (IMO Res. MSC.48(66)) 4.4.1.2. Further it shall be marked with the max. number of persons, the name and port of registry of the mother ship and means of identifying according to LSA Code (IMO Res. MSC.48(66)) 4.4.9.

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 the procedure described in Class Programme DNV-CP-0338, Section 4.