

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Lifeboats**with type designation(s)
PEL12.5

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 :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed**
by DNV GL.Issued at **Hamburg** on **2017-04-10**This Certificate is valid until **2019-04-16**.for **DNV GL**DNV GL local station: **Hamburg**Approval Engineer: **Roland Priebe**

Antje Fleischhauer
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.



Job Id: **262.1-025790-1**
Certificate No: **TALB000001J**

Product description

The PEL12.5 is a partly enclosed davit launched lifeboat designed for evacuation from a passenger ship.

Length:	12.60 m
Breadth:	5.00 m
Depth:	1.89 m
Weight of boat, fully equipped:	12.305 kg
Weight of boat, fully manned (incl. 314 pers. x 75 kg):	35.855 kg
Hook manufacturer and type:	Hatecke Duplex 20 (MED-60117-13 HH)
Hook SWL:	20.0 to
Hoisting distance:	11500 mm +/- 25 mm or 12075 mm +/- 25 mm
Hull material:	GRP: Glas fibre reinforced polyester (hand laminated)
Buoyant material:	Polyurethane foam, volume 25.5 m ³
Propulsion system:	Inboard engine
Engine manufacturer and type:	2 x Nanni.Kubota N3.30 KC, 21.3 kW each
Bollard pull:	3.3 kN

Application/Limitation

The above product will be accepted as being compliant with the applicable DNVGL 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 DNVGL and on passenger ships for which DNVGL 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 314 persons, provided an engineering analysis according to SOLAS III/38 has been performed and is accepted by the flagstate 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.

Each lifeboat shall be delivered together with a DNVGL Boat certificate.

Type Approval documentation

Basis for this approval is the previously issued GL Approval Certificate 95098-14 HH with the drawing approvals 14-014048 and 14-005521 as well as the following drawings:

PEL12.5-018-24512	Approved 2016-09-19 with 16-009291/kpo
PEL12.5-418	Approved 2016-09-23 with 16-009254/kpo
Prototyp tests acc. MSC/Circ.980 witnessed by DNVGL	14-014048 dated 2014-02-06 to 2014-03-05
witnessed by BG-Verkehr and LR	dated 2010-05-20 to 2010-08-24
witnessed by BG-Verkehr and LR	dated 2012-11-22 to 2013-01-24

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Seating space test acc. MSC.81(70) 6.7.1, for 314 persons witnessed by DNVGL	dated 2014-02-26
Material tests acc. MSC/Circ.1006	

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.226(82), IMO Res. MSC.274(85), IMO Res. MSC.323(89), IMO Res. MSC.321(89) and IMO MSC/Circ.1006.

Marking of product

The product is to be indelibly marked with name of manufacturer, type designation, capacity and date of manufacture according to LSA code item 1.2.2.9, 4.4.1.2 and 4.4.9.

Periodical assessment

DNVGL'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.