

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00007D7**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Lifeboats: Davit-launched lifeboats: partially enclosed**

with type designation(s)  
**PEL/R/T 8.5 (with rescue boat function)**

Issued to

**Hatecke GmbH**  
**Drochtersen, Niedersachsen, Germany**

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2020/1170,  
item No. MED/1.17a. 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

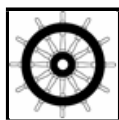
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-06-10**.

Issued at **Hamburg** on **2021-06-11**

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

Approval Engineer:  
**Michael Oberländer**



Notified Body  
No.: **0098**

for DNV SE

.....  
**Christine Mydlak-Roeder**  
**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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 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

PEL/R/T 8.5 is a davit launched, partially enclosed lifeboat for max. 48 persons for use on passenger ships. This lifeboat fulfils also the functionality of a rigid rescue boat in accordance with LSA Code 5.1 (6 persons when used as a rescue boat).

Materials:

| Material                             | Type                                                                                      | Manufacturer                                          |
|--------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Polyester resin                      | POLYTE 516 Series with variants                                                           | Reichhold AS                                          |
| Fire retardant polyester resin       | DION FR 820 series containing ATH                                                         | Reichhold AS                                          |
| Glass Fiber (Chopped Strand Mat)     | E-Glass Chopped Strand M; EMC-Series (20-900 g/m <sup>2</sup> )                           | Changsu Dongyu Insulated Compound Materials Co., Ltd. |
| Glass Fiber (Combined woven rovings) | Woven Rovings (270-1800 g/m <sup>2</sup> ) with or without CSM (50-600 g/m <sup>2</sup> ) | Ahlstrom Glasfibre Plant OY, Mikkeli Plant            |
| Fire retardant gelcoat               | Norpol SVG X2 & Norpol SVG X3                                                             | Reichhold AS                                          |
| Buoyancy Foam                        | LAMOLTAN-Polyurethane-Rigid-Foam-System NG55-40-5                                         | Lackfa Isolierstoff GmbH & Co. KG                     |

Dimension LxBxH (hull): 8.50 m x 2.80 m x 1.36 m

Weight (fully equipped): max. 3885 kg

Weight (fully manned): max. 7485 kg (with 48 persons / 75 kg each)

Hull material: Glass fibre reinforced polyester (GRP)

Buoyant material: Polyurethane rigid foam

Propulsion system: Inboard diesel engine NANNI Industries SAS, Typ N4.80 with 57.4 KW

Bollard pull: 7.40 kN (@ 2350 rpm)

Release mechanism: Hatecke, On/Off Load DUPLEX 6.0 (SWL = 5.8 t /each hook), Cert. MEDB0000199 Rev.1

Max. number of persons: 48 (as lifeboat) / 6 (as rescue boat)

## Application/Limitation

- Lifeboat equipment and marking/instructions to be inspected after installation on board the ship. Equipment shall comply with LSA-Code and IMO Res.81(70).
- The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82), IMO Res. MSC.272(85) and IMO Res. MSC.320(89).
- Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2 with each lifeboat model.

## Type Examination documentation

Basis for approval:

|                                                                           |            |
|---------------------------------------------------------------------------|------------|
| Technical documentation as listed in LIS-PELRT85-0-Drawing list DNV-Rev.0 | 2021-03-18 |
|---------------------------------------------------------------------------|------------|

Main drawings:

|                                                     |            |
|-----------------------------------------------------|------------|
| General Arrangement Plan PEL85-00-2739              | 2021-02-26 |
| GRP-Plan I PEKRT85-01                               | 2000-12-18 |
| GRP-Plan II – transverse section PEKRT85-02         | 2000-12-18 |
| GRP-Plan II PEL/R/T/8.5-03.01                       | 1988-05-05 |
| Seating Arrangement Plan PELRT85-14-2739            | 2020-06-08 |
| Hoisting Hook Separate Release Gear PELRT85-23-2739 | 2020-05-09 |
| Aft Hook Foundation PELRT85-18-2739 Rev.2           | 2021-02-15 |
| Forward Hook Foundation PELRT85-19-2739             | 2020-08-20 |
| Selfrighting Arrangement PELRT85-15                 | 2001-01-09 |

Prototype test reports::

| <b>Report. No.</b>                                                                   | <b>Dated</b> |
|--------------------------------------------------------------------------------------|--------------|
| PTC-PEL85-2021-01                                                                    | 2021-03-18   |
| PTC-PELRT85-2001-02                                                                  | 2001-03-08   |
| PTC-PELRT85-2001-01                                                                  | 2001-02-20   |
| PTC-PELRT85-1988-01                                                                  | 1988-10-06   |
| STB-1529-1987                                                                        | 1987-05-12   |
| Fire testing of lifeboat laminate acc. to IMO MSC/Circ. 1006, SINTEF, Trondheim, NOR | 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 manufacture, boat model and serial number, month and year of manufacturer, number of persons approved for and operational restrictions, if any, according to LSA code item 4.4.1.2 and the mark of conformity (see page 1).

List of lifeboat equipment to be posted inside the boat.