Certificate No:
TALB000004C

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifeboats

with type designation(s)
TAC 1041 Rescue Tender (partially enclosed SOLAS lifeboat and rescue boat)

Issued to
Knierim Yachtbau GmbH
Kiel, **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
SOLAS 74 as amended, LSA Code as amended. DNV Standard for Certification of Lifeboats and Rescueboats 2007. IMO Res. MSC 81(70)

Application :

Approved as partially enclosed lifeboat and rescue boat for passenger vessels
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2023-02-20**
This Certificate is valid until **2028-02-19**.
DNV local unit: **Rostock**

for **DNV**

Approval Engineer: **Michael Oberländer**

Boris Altmayer
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 TAC 1041 Rescue Tender is a partly enclosed davit launched lifeboat for max. 36 persons, with rescue boat functionality, for use on a passenger ship or yacht.

Length:	8.50 m
Breadth:	2.68 m
Depth (moulded):	0.95 m
Weight of boat, unloaded:	4.450 kg
Weight of boat, fully equipped:	4.991 kg
Weight of boat, fully manned (incl. 36 pers. x 75 kg):	max. 7.691 kg (5.441 kg when used as rescue boat)
Hook manufacturer and type:	Palfinger LHR6 M2 (MED 1750144 by LR)
Hook SWL:	6.0 t per hook
Hoisting distance:	9030 mm
Hull material:	FRP-Sandwich
Buoyant material:	Divinycell H45 0.8 m3
Propulsion system:	Inboard engines
Engine manufacturer and type:	2 x Volvo Penta D3-220A / 162 kW each
Bollard pull:	Sufficient for towing a 25-person liferaft

Application/Limitation

	36 (6 when used as rescue boat)

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 IMO LSA Code, 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 shall be fitted with the highly visible signalisation tarpaulin (see SOLAS mode layout, issue E06, dated 2022-02-07) to fulfil the colour requirements for the canopy in accordance with MSC.1/Circ.1423.
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 boat.

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 DNV Boat certificate.

Type Approval documentation

Basis for this approval is the technical file in NPS job 262.1-033738-1

Prototype tests acc. MSC/Circ.980 4.4 and 5.2 witnessed by DNV surveyor	2022-10-20
Material tests acc. MSC/Circ.1006 by DMT GmbH & Co.	2018-07-13
Main drawings:	
Exterior layout Rev.6	2022-02-07
Interior layout Page 1+2	2020-03-26
Equipment layout Rev.5	2021-09-29
Rescue mode layout Rev.E06	2022-02-07
SOLAS mode interior Rev.E06	2022-02-07
Hook arrangement Rev.04	2020-10-19
Fwd. bracket arrangement Rev.03	2021-03-30
Aft bracket assemblyRev.03	2023-01-02
Bow fitting Rev.2	2021-09-13
Hull structure Rev.24	2022-11-04
Deck laminate and structure Rev.21	2023-01-02
Hull laminate Rev.23	2023-01-02
Tender lines & definitions Rev.02	2020-10-19
Operation and maintenance manual	2023-02-20

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 and address of manufacturer, type designation, capacity, date of manufacture and according to LSA code item 1.2.2.9, 4.4.1.2 and 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 procedure described in Class Programme DNV-CP-0338, Section 4.