EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000081J

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 Rigid rescue boats

with type designation(s)
RB600S

Issued to
Hatecke GmbH
Drochtersen, Niedersachsen, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2021/1158,**
item No. MED/1.18. SOLAS 1974 as amended, Reg. III/4, III/21, III/31, III/34 & X/3, LSA Code, 2000 HSC Code 8 and IMO MSC/Circ.1006

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

This Certificate is valid until **2027-05-05**.

Issued at **Hamburg** on **2022-05-06**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"RB600S" is a rigid rescue boat equipped with a single outboard diesel or petrol engine. The rescue boat is fitted with a steering console, a self-righting device installed on a A-frame at the stern and a single point central release hook installed on a steel frame.

Materials: (for details see SPC-(F)RB600-0 Material specification GRP Rev.1, dated 2022-04-06)

- Hull material: Glass fibre Reinforced Plastic (GRP)
- Buoyant material: Polyurethane hard foam

Length over all:	6.09 m
Breadth over all:	2.31 m
Height over all:	2.60 m
Number of persons (82.5 kg each):	max. 6
Weight of boat, fully equipped:	max.1155 kg
Weight of boat, fully manned (with "Dtorque 111" engine and 6 persons):	max. 1650 kg
Weight of boat, fully manned (with "Yamaha V40" engine and 6 persons):	max. 1525 kg
Weight of boat, fully manned (with "Yamaha F70A" engine and 6 persons):	max. 1565 kg
Hook manufacturer and type:	Hatecke Simplex 2.0 to (MEDB00007RB) SWL 2.0 t or Hatecke Simplex 2.0 "Off-load"(MED 415012-00) SWL 2.0 t or Nadiro DIB 32 RB (MEDB000007J) SWL 32 kN
Propulsion system:	Single outboard engine
Engine manufacturer and type:	Yamaha F70A / 51.5 kW (1) Yamaha V40 / 29.5 kW (2) Neander Shark "Dtorque 111" / 36.8 kW (3)
Bollard pull:	3.1 kN (1) 2.5 kN (2) 3.4 kN (3)

Application/Limitation

Number of persons, max:	6
Maximum launching weight with 6 persons (as tested):	1650 kg

The rescue boat equipment shall comply with LSA Code and IMO Res.MSC.81(70). A list of the equipment to be posted inside the boat.
The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82) and 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 as amended.
An operation and maintenance manual to be delivered together with each boat.
This EC Type Examination Certificate is mainly based on previous MED-B 403046-00, issued by BG-Verkehr on 2018-07-10.

Type Examination documentation

Basis for approval:

- Design documentation as listed in "LIS-RB600S-0-Drawing list DNV.docx".
- Main drawings:

General Arrangement Plan (40 &70 hp) RB600S-000-1 Rev.1	2022-04-05
General Arrangement (Dtorque 111) RB600S-000-2804	2022-03-31
Seating Arrangement PFRB6014 Rev.1	2016-08-16
Hoisting Hook Arrangement PFRB6204 Rev.6	2015-07-22
Foundation for DIB32 (Nadiro) FRB600S-482-245 0.1	2015-02-13
Support for "SIMPLEX 2.0 Off-Load" PRBI6010 Rev.5	2017-04-24
Aufrichtkörper PFRB6007	1998-01-21
Operation mechanism & interlock for DIB32 FRB600S-483-2450.1	2014-04-25

GRP-Plan I PFRB6002 Rev.5	2022-04-07
GRP-Plan II (laminate) PFRB6003 Rev.1	1998-04-14
Manual for operation, maintenance and training MAN-(F)RB600-1-Manual Rev.8	2021-05-25

- Prototype test reports:

Report. No.	***Dated***
PTC-FRB600S-1998-01	1998-03-23
PTC-FRB600S-1998-2	1998-02-04
PTC-FRB600S-2010-01	2010-12-01
PTC-FRB600S-2015-01	2015-07-06
PTC-RB600IB-2016-02	2016-06-02
PTC-FRB600IB-FRB600S-2016-02	2016-06-14
PTC-RB600S-2016-01	2016-08-30
PTC-RB600S-2022-01, witnessed by DNV	2022-04-25
Flame resistance & fire retardant test acc. to IMO MSC/Circ.1006, SINTEF, Trondheim, Norway 102010.80/10.086 Rev.1	2010-11-08

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) part 1, as amended byIMO Res. MSC.226(82), IMO Res. MSC.274(85), IMO Res. MSC.321(89) and 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 manufacturer, 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).