

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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

This is to certify:

That the Fast rescue boats: rigid

with type designation(s)
FRB20-700

Issued to

Hatecke GmbH
Drochtersen, Niedersachsen, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/1.20b. SOLAS 74 as amended, Regulation III/4, III/26, III/34, LSA Code and
IMO MSC/Circ.1006, 1016 & 1094

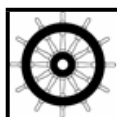
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-09-03**.

Issued at **Hamburg** on **2019-09-04**

DNV GL local station:
Hamburg

Approval Engineer:
Michael Oberländer



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"FRB20-700" is a rigid fast rescue boat equipped with inboard diesel engine and waterjet or Z-drive propulsion. The fast rescue boat is fitted with a selfrighting device installed on a A-frame at the stern and a single point central release hook installed on a stainless steel frame. A foam filled fender is fitted around the boat except the stern.

FRB20-700		
Material	Type	Manufacturer
Polyester resin	"DION FR 820 series containing ATH" & POLYTE 516 series with variants	Reichhold AS
Gelcoat	Norpol SVG X2 & Norpol SVG X3	Reichhold AS
Glass Fiber	Chopped strand mat: E-Glass Chopped Strand M; EMC-Series (20-900 g/m ²)	Changsu Dongyu Insulated Compound Materials Co., Ltd.
	Combined woven rovings: Woven Rovings (270-1800 g/m ²) with or without CSM (50-600 g/m ²)	Ahlstrom OY
Buoyant material	LAMOLTAN-Polyurethane-Rigid-Foam-System NG55-40-5	Lackfa Isolierstoff GmbH & Co. KG
Foam filled fender tube	ORCA 828 coated fabric, PE-Trobloc polyethylene foam	Pennel & Flipo Gaugler & Lutz OHG

Length over all: 6.72 m
Breadth over all : 2.71 m
Height over all: 2.37 m

Number of persons (82.5 kg each): max. 15

Weight of boat, fully equipped: 2250 kg
Weight of boat, fully manned (with 6/15 persons): 2745 kg / 3488 kg

Hook manufacturer and type: Hatecke Duplex 6,0/Simplex 6.0 (MEDB0000199 Rev.1)

Hook SWL: 5800 kg

Hull material: GRP

Propulsion system: Inboard engine with waterjet or Z-drive
Engine manufacturer and type: Volvo D3-170 / 120 kW (1)
Volvo D3-200 / 145 kW (2)
Volvo D3-220 / 155 kW (3)

Bollard pull: 6.1 kN (1) u.(2)
6.2 kN (3)

Application/Limitation

Number of persons, max: 15

Maximum launching weight with 15 persons: 3488 kg

The fast rescue boat may only be installed in combination with a launching appliance with a permanent high speed tensioning device (LSA Code 6.1.7.3), compatibility must be safeguarded.

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 has to be delivered together with each boat.

Type Examination documentation

Basis for approval:

- Design documentation as listed in "LIS-RB20-700-0-Drawing list DNV-GL-REV.1".
- Test reports:
 - PTC-FRB20-700-2010-03, dated 2010-07-06
 - PTC-FRB20-700-2010-04, dated 2010-11-10
 - PTC-FRB20-700-2010-05, dated 2010-12-15
 - PTC-FRB20-700-2012-01, dated 2012-02-06
 - PTC-FRB20-700-2014-02, dated 2014-09-19
 - PTC-FRB20-700-2014-03, dated 2014-10-16
 - PTC-FRB20-700-2017-01, dated 2017-04-05
 - PTC-FRB20-700-2019-01, dated 2019-07-12
 - SINTEF NBL No. 102010.80/10.086 Rev.1 dated 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 by IMO 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).