

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000080H

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: (b) Free-fall lifeboats

with type designation(s)
GFF9.8C21 / GFF9.8C21-T / GFF9.8C24

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/1.17b. 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

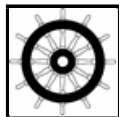
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-04-18**.

Issued at **Hamburg** on **2022-04-19**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

GFF9.8C21, GFF9.8C21-T and GFF9.8C24 are totally enclosed GRP free-fall lifeboats, available as a dry-cargo version for 50 persons (GFF9.8C21) and 42 persons (GFF9.8C24) and a tanker version for 50 persons (GFF9.8C21-T) with a self-contained air support system and special fire-protection (water-spray system).

Materials: (for details see SPC-GFF98C21-24-0 Material specification GRP Rev.1, dated 2022-04-01)

Hull material: Glass fibre Reinforced Plastic (GRP)

Buoyant material: Polyurethane hard foam

Length over all 9.87 m

Breadth over all: 2.84 m

Height over all: 3.30 m

GFF9.8C21 / GFF9.8C21-T

Weight of boat, fully equipped: 5530 kg / 5925 kg (cargo / tanker version)

Max. launching weight, fully manned (82.5 kg/person): 9655 kg / 10050 kg (cargo / tanker version)

GFF9.8C24

Weight of boat, fully equipped: 5600 kg

Max. launching weight, fully manned (98 kg/person): 9716 kg

Release mechanism: Hatecke GFF-R10 (MEDB00001HX Rev.2)

Propulsion system: Single inboard engine

Engine Manufacturer and type: Bukh A/S, DV29RME 21.3 kW (cargo) or DV36RME 26.5 kW (tanker) (MEDB00003FK Rev.1)

Bollard pull: 3.5 kN / 4.0 kN

Application/Limitation

Approved engine power: 21.3 kW / 26.5 kW

Maximum number of persons (82.5 kg/person): 50 (GFF9.8C21 and GFF9.8C21-T)

Maximum number of persons (98 kg/person): 42 (GFF9.8C24)

Maximum free-fall certification height: GFF9.8C21 or GFF9.8C21-T 21.0 m
GFF9.8C24 24.0 m

Minimum launching ramp length: 11.25 m

Launching ramp angle: 35°

Heel angle: 20°

- Unless the free-fall lifeboat lashing can be released from inside it shall be arranged to preclude boarding until it is removed.
- For free-fall lifeboats inflatable lifejackets are recommended.
- Lifeboat equipment and marking/instructions to be inspected after installation onboard the ship. Equipment shall comply with LSA Code and IMO Res. MSC.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) 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 with each lifeboat model.

Type Examination documentation

This approval is replacing the previous MED-B Certificate 45390-16 HH issued by Notified Body DNV GL on 2016-08-04

Basis for approval:

Technical documentation as listed in LIS-GFF98C21-24-0-Drawing list DNV-REV.1	2022-04-01
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Main drawings:

General Arrangement Plan GFF9.8C21(Cargo) GGF98C21-001	2013-03-27
General Arrangement Plan GFF9.8C21-T(Tanker) GGF98C21-T-001	2014-03-27
General Arrangement Plan GFF9.8C24 GGF98C24-001-2800	2022-01-19
Seating Arrangement PGFC98-011	2013-10-23
Seating Arrangement GFF9.8C24 PGFC98C24-011	2022-01-11
Hoisting Arrangement PGFC98-012	2014-06-16
Release and hoisting device PGFC98-019	2015-02-16
Construction plan seat (480mm) GFF-C DBC-09	2010-01-25
Air Supply System (sheet 1&2) PGFC98-017	2014-04-25
Water Spray System (sheet 1&2) PGFC98-016	2014-04-25
GRP-Plan I (longitudinal sections) PGFC98-001-01	2013-06-05
GRP-Plan I (transversal sections) PGFC98-001-02	2013-06-05
GRP-Plan II (laminare overview) PGFC98-007	2014-08-26
GRP-Plan II (laminare overview) PGFC98C24-007	2022-01-18
GRP-Plan III (laminare canopy) PGFC98-006	2014-08-27
GRP-Plan III (laminare canopy) PGFC98C24-006	2022-01-12
GRP-Plan IV (laminare hull) PGFC98-005	2014-08-26
GRP-Plan IV (laminare hull) PGFC98C24-005	2022-01-18
GRP-Plan V (assembly / foaming) PCFC98-013	2015-03-18
GRP-Plan V (assembly / foaming) PCFC98C24-013	2022-01-18

Manual for operation, maintenance and training (acc. MSC.1/Circ.1205, 1206) MAN-GFF-C-0-Manual Rev.5	2020-01-21
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Prototype test reports:

Report. No.	Dated
PTC-GFF98C21-T-2015-01 acc. to MSC/Circ.980, witnessed by DNV GL	2015-05-22
PTC-GFF98C24-2022-01 acc. to MSC.1/Circ.1630, witnessed by DNV	2022-03-24
Acceleration Test report for GFF9.8C21-T CoE-2015-01	2015-05-22
Acceleration Test report for GFF9.8C24 M-DH-S 2022.063	2022-03-24
Fire testing of lifeboat laminate acc. to IMO MSC/Circ. 1006, SINTEF, Trondheim, Norway 102010.80/10.086 Rev.1	2010-11-08
Fire Test STB-1529-1987 witnessed by Germanischer Lloyd	1987-05-12

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) 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 manufacture, 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).

Further it shall be marked with the max. number of persons, the name and port of registry of the mother ship and means of identifying according to LSA Code (IMO Res. MSC.48(66)) 4.4.9.

List of lifeboat equipment to be posted inside the boat.