



Marine & Offshore

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This certificate is not valid when presented without the full attached schedule
composed of 7 sections
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2019/1397 of 06 Aug. 2019

This certificate is issued to:

Gepa-Fiberglas Sanayi Ve Ticaret AS

Tuzla (Istanbul) - TURKEY

for the type of product

FREE-FALL LIFEBOATS

G-FFF2 and G-FFF2-FP (Cargo Version and Tanker Version)

Requirements:

SOLAS 74 Convention as amended, Regulations III/4, X/3, III/31 and III/34
IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89),
MSC.368(93) and MSC.425(98) I, IV
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8
IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89),
MSC.378(93) and MSC.427(98)
IMO MSC/Circ.980, IMO MSC/Circ.1006 and IMO MSC.1/Circ.1423

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

This certificate will expire on: 06 Dec 2022

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV ISTANBUL, on 14 Nov 2019,

Gurcan Yilmaz



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Free-Fall Lifeboat of GRP construction, Type:

- G-FFF2 : Cargo Version not to be installed on board Chemical Tankers, Gas Carriers or Oil Tankers
- G-FFF2-FP : Tanker Version with Air supply and Water spray system

Main Particulars	G-FFF2 / G-FFF2-FP
Length	5.60 m
Breadth	2.62 m
Height	3.05 m

	G-FFF2	G-FFF2-FP
Maximum Capacity	20 persons	19 persons
Weight Fully Loaded (with persons)	4 885 kg	5 133 kg
Light Weight (Fully equipped)	3 235 kg	3 565 kg

Free-fall certification height: 14 m
 Launching ramp length during testing: 6.4 m
 Launching ramp angle for free-fall certification height: 35°

2. DOCUMENTS AND DRAWINGS:

Design appraisal documents:

Reference	Revision	Date	Description
G-FFF2-02	03	2014-08-28	General Arrangement Plan G-FFF2
G-FFF2-FP-03	03	2014-08-28	General Arrangement Plan G-FFF2-FP
G-FFF2-04	04	2017-11-01	Longitudinal Section and Other Sections
G-FFF2-05	01	2017-02-07	Additional Layer Plan
G-FFF2-FP-05	04	2017-11-01	Longitudinal Section and Other Sections (FP version)
G-FFF2-06	07	2019-10-14	Longitudinal Section and Other Sections - Detail Drawings
G-FFF2-FP-07	02	2017-02-07	Water Spray System
G-FFF2-FP-08	02	2017-06-29	Air Support System (2 pages)
G-FFF2-09	05	2019-09-18	Release Mechanism Arrangement
G-FFF2-10	02	2017-11-16	Non-skid Tapes and Surfaces Arrangement
G-FFF2-11	01	2017-02-07	Boarding Ladder Arrangement
G-FFF2-12	02	2017-06-29	Batteries Ventilation Arrangement
G-FFF2-13	01	2017-02-07	Retro-reflective Tapes Arrangement
G-FFF2-14	02	2017-06-29	Steering Mechanism Arrangement
G-FFF2-20	-	2007	Electric Diagram
G-FFF2-21	04	2017-11-27	Lifting Arrangement
G-FFF1-22	00	2017	Fue Tank Construction
G-FFF2-23	00	2017-02-07	Markings Arrangement
G-FFF2-24	00	2017-02-07	Aft Bollard
IN 2	01	2011-09	Lifting Eye Details & Dimensions
MN-07	06	2017-06-29	Seat Construction and Dimensions
G-FFF2-DOC02	02	2017-06-29	SOLAS Equipment List

No departure from these documents is permitted without the prior consent of the Society.

3. TEST REPORTS:

The Free-Fall Lifeboat was tested under witnessing of Bureau Veritas as per:

- Prototype Test Report dated 1999-02-26/23 and 1999-03-24
- Prototype Test Report on serial numbers 2010197 and 2011207 dated 2011-05-13/12 and 2011-08-03
- Prototype Test Report on serial number 2011207 dated 2011-10-25
- Free-Fall Test Report on serial number 2011215 dated 2012-01
- Prototype Test Report on serial number 2011215 dated 2012-01-04/03
- Fire Test Report No. 1231 dated 1997-12-31

The laminate materials of hull and rigid cover were tested as per Tests Reports No.142/A and No.142/C dated 2009-12-10 and Strength Test Report No. CN53B960109A dated 1996-04-04.

Maximum towing force measured with lifeboat G-FFF2-FP serial number 2010197:

- 1177 N with Engine type DV24RME

4. APPLICATION / LIMITATION:

- The scope of the appraisal made by Bureau Veritas to issue this certificate is strictly restricted to the relevant requirements stated on the front page of this certificate.
- Application / limitation as per requirements stated on front page of this certificate.
- Free-Fall Lifeboat G-FFF2 not to be installed on board Chemical Tankers, Gas Carriers or Oil Tankers.
- The period of shelf life of equipment subjected to deterioration with age is to be indicated.
- On board installation & Maintenance requirements as per requirements stated on front page of this certificate.

- The following component(s) shall have to comply with the requirements of MED 2014/90/EU, as amended, and be wheelmarked:

- + Propulsion engine:
 - Manufacturer: Bukh A/S
 - Type: DV24RME
 - Power: 17.6 kW, 3600 rpm
- + Release mechanism:
 - Manufacturer: Gega-Fiberglas Sanayi Ve Ticaret AS
 - Type: G-FFRM-01
 - SWL: 35 071 N
- + Position indicating lights
- + Thermal protective aids
- + Pyrotechnics
- + Retro reflective materials
- + Radar reflector
- + Portable fire-extinguishing equipment
- + Compass: F-83-Wm or S-87-WM (Ritchie Navigation)
- + Searchlight

- Other lifeboat equipment as listed in LSA Code chapter 4.4.8 is to be to the satisfaction of the ship's flag administration for acceptance of the equipped lifeboat on board the concerned ship.

- Electrical components including batteries to be as per drawings listed in paragraph 2.

- Raw materials for the G.R.P Hull:

Reference	Type	Manufacturer
Gel Coat	F215	POLIYA POLYESTER YARD. MAD. SANAYII A.S., Istanbul, Turkey
Polyester Resin	P-1016	ILKALEM TIC. VE SAN. A.S., Istanbul, Turkey
Glass Fibre Mats	MAT1(M)-450	CAM ELYAF SANAYII A.S., Kocaeli, Turkey
Glass Fibre Woven Roving	WR6	CAM ELYAF SANAYII A.S., Kocaeli, Turkey
Buoyancy material	ISOFOAM RM120W	Baxenden Chemicals Ltd.

5. PRODUCTION SURVEY REQUIREMENTS:

- The raw materials are to be traceable in case of compatibility problems in repair.
- This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or F "Product Verification" of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.
- Each Free-Fall Lifeboat intended to be fitted onboard a ship registered to a National register adhering to the Directive shall be delivered with a Declaration of Conformity.
- The manufacturer shall keep records of any production tests carried out in accordance with instructions given in IMO resolution MSC.81(70) Part 2 as amended.
- Each equipment, or batch of equipment, is to be supplied with its Manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

The Free-Fall Lifeboat shall be marked with:

- Reference is made to MED 2014/90/EU chapter 2. In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).
- Markings as per chapters 1.2, 4.4.1.2 and 4.4.9 of LSA Code as amended.

7. OTHERS:

- It is manufacturer's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- This certificate supersedes the previous Type Examination Certificate No. 08155/E0 MED issued on 2017-12-06 by the Society.

***** END OF CERTIFICATE *****