



TECHNICAL SPECIFICATION

for G-F4K type TOTALLY ENCLOSED LIFEBOAT

**GEPA
FIBERGLASS
CO. INC.**

TUZLA / İSTANBUL / TURKEY

1- INTRODUCTION

The G-F4K type GEPA GRP Totally Enclosed Lifeboats are designed, constructed and tested according to the requirements of 'Solas Consolidated Edition 1992' Safety of Life at Sea, 1992 & 1994 Amendments, Chapter III, Reg. 41,44,45,46 and IMO resolution A 689 (17).

The Totally Enclosed Lifeboat is designed for ships of unrestricted region. By fitting air support and water spray systems the boat can be delivered in fire-protected version.

The shape of the lifeboat ensure:

- The craft is inherently self-righting in the dry and flooded conditions.

2- CONSTRUCTION

The whole hull, canopy and inner shells are made of glass reinforcements and polyester resin. (For detailed information refer to the Longitudinal Section drawing). The construction is reinforced by laminate over coated rigid polyurethane or marine plywood. The buoyancy tanks and some spaces between inner body and shell or canopy are filled with rigid polyurethane foam of self-extinguishing type. Polyurethane is resistant to oil derived products. The capacity of the buoyancy tanks is capable to float the boat in damaged conditions. All applied materials are provided with certificates of class societies or manufacturers. Rudder stock compartment, batteries, engine, fuel tank, inventory and provisions are properly situated. The canopy has a raised dome for helmsman with four angle windows. There are two entrances on each side, port and starboard, which facilitates rapid embarkation of crew from ships deck. The side doors provide safe retrieval of survivors from the water, as well as easy evacuation to helicopter or ship. A hatch is provided in the forward end of canopy for the servicing of towing catch, throwing the sea anchor and for controlling the fore hook when the automatic release system is not working. A hatch is provided on the top of the helmsman dome for controlling the aft hook, to mount the radar reflector, etc. the seats are marked and fitted with four-point safety belts. Non-slide surfaces are provided where necessary. The boat is equipped with an automatic stainless steel bottom drain plug and a common brass bottom drain plug. The boat is equipped with an electric 12V Bilge pump and a manual bilge pump, both with flexible hoses. All fittings and mounting hardware are made of corrosion resistant materials like stainless steel, brass or hot galvanized steel. Usage of timber on the boat is reduced to minimum. All wood and marine plywood stiffing elements are completely over coated with 2 or 3 layers of matt laminates.

3- STEERING

Morse Command system is applied for boat's steering. The steering wheel actuates the rudder stock via a flexible cable. The rudder stock together with nozzle plate rudder and its toe, is made of stainless steel. The failure of the cable system, an emergency tiller can be used for steering by disconnecting the cable from rudder stock.

4- HOOKS

Capacity of each side launching hook is 3.36 ton SWL with 6 safety factors. Hooks are connected to the keel as it is shown in the technical drawings. Hot galvanized steel hooks are releasing simultaneously. A hydrostatic lock system opens when the boat is water born. Approved "AGDERPRODUKTER / Norway" or similar Tor on Load type hooks are used.

5- PROPULSION

The Totally Enclosed Lifeboat is propelled with a marine diesel engine, sufficient power to produce a speed not less than 6 knots on smooth water. The Engine is fitted with close cooling system including the external keel cooler. The engine complies completely to the requirements of Solas 74/92 Convention and is equipped with all necessary installations. All controls and measuring apparatus are located in helmsman dome. Approved diesel engine type used is 24HP BUKH/Denmark. Starting system is electric from independent rechargeable dry gel batteries. There are two stainless steel fuel tanks, located underneath of the seats, total capacity of tank is 140 liters, which is sufficient for 24 hours engine operation at 6 knots speed. Engine casing is fire protected and sound insulated. The stern tube and propeller are bronze. Shaft is stainless steel. Propeller is protected by a stainless steel nozzle.

6- ELECTRIC INSTALLATION

The boat is provided with 12 V D.C. electrical systems. Electric supply is provided from two batteries. Wiring system ensures that supply and charge may be maintained from each battery separately or from both batteries. Capacity of batteries ensures supply of the following receivers:

- Engine starter,
- Bilge pump,
- Lighting compass,
- Lighting lifeboat's interior,
- Top navigation light on canopy,
- Search light socket.

Batteries are charged in two ways:

- From engine driven alternator,
- From ship's network during stowage of the lifeboat on the board of the ship. The plug in the socket is located on the aft canopy near helmsman dome.

7- LAUNCHING & RECOVERY

The boat is launched and recovered with a common davit side launching system. the Davit and its equipment should comply to the rules related to the launching agreements of life saving appliances.

8- TESTING

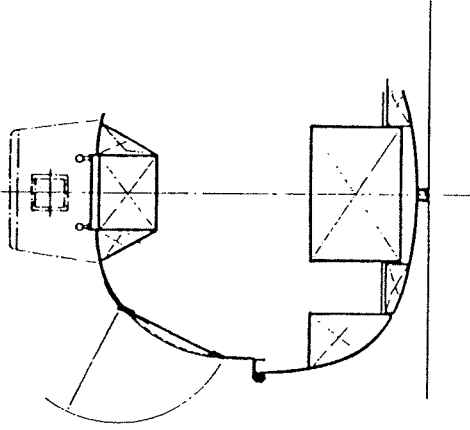
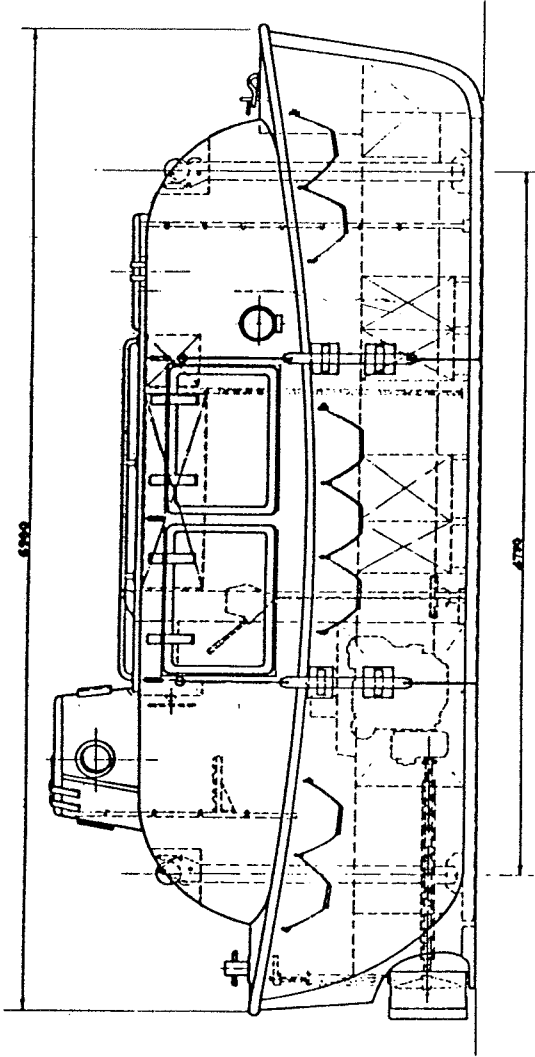
The Totally Enclosed Lifeboat is subject to the tests according to the requirements of Solas Consolidated Edition 1992, 1992 and 1994 Amendments and IMO A 689 (17) resolution, under the supervision of classification societies and state authorities surveyors.

9- GENERAL

For detailed information refer to the technical drawings and the operation manual of the Lifeboat. The boat is delivered complete with servicing and maintenance instructions and appropriately fastened equipment.

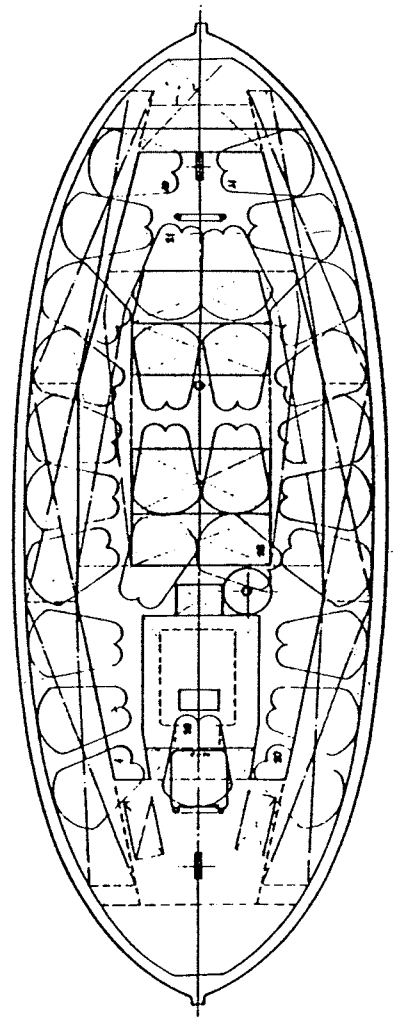
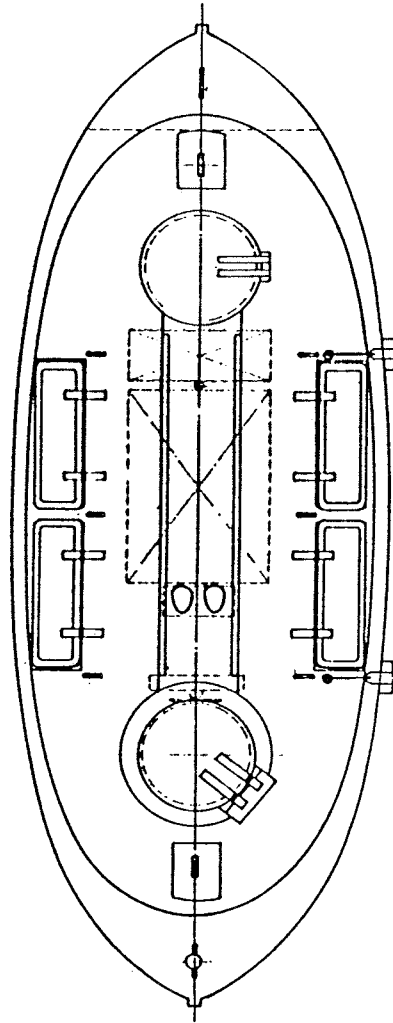
10- SOLAS INVENTORY LIST

SOLAS No.	DESCRIPTION OF FITTINGS	PIECE(S)
41.3.3	BOARDING LADDER	1
41.8.2	BOAT HOOKS	2
41.8.3	BUOYANT BAILER	1
41.8.3	BUCKETS	2
41.8.4	SURVIVAL MANUAL	1
41.8.5	COMPASS	1
41.8.6	HAWSER	1
41.8.6	SEA ANCHOR	1
44.6.3.5.2	PAINTERS 15 meters	2
41.8.8	HATCHETS	2
41.8.10	RUSTPROOF DIPPER WITH LANYARD	1
41.8.11	RUSTPROOF DRINKING VESSEL	1
41.8.16	ELECTRIC TORCH + SPARE BATTERY + BULB	1
41.8.17	DAYLIGHT SIGNALLING MIRROR	1
41.8.18	LIFE SAVING SIGNALS CARD	1
41.8.19	WHISTLE	1
41.8.20	FIRST AID OUTFIT	1
41.8.21	SEASICKNESS BAG	P/Persons
41.8.22	JACK KNIFE	1
41.8.23	TIN OPENERS	3
41.8.24	BUOYANT RESCUE QUILTS	2
41.8.24	30 m. BUOYANT LINE for Quilts	2
41.8.25	MANUAL PUMP	1
41.8.26	FISHING TACKLE	1 Set
41.8.27	SUFFICIENT TOOLS	1 Set
41.8.28	FIRE EXTINGUISHING EQUIPMENT	1
41.8.29	SEARCHLIGHT	1
41.8.30	RADAR REFLECTOR	1



MAIN DIMENTIONS

L.O.A.	: 6.58 m
Depth	: 2.40 m (1.82 m Inc. Fender)
Beam	: 4.175 m
L. Surman Heads	: 5.85 m
Cap	: 2.8 m
Engine	: 28 HP
Power - RPM	: 2800 - 3000 RPM
Speed	: 6 Knot
Beamng Torits	: 1/3



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Mıncıy Şifit Bey Sokakı, Antikya Parkı No: 8/6
80080 TARKSİM-İSTANBUL TURKEY

G-FAK Type, Totally Enclosed LIFE BOAT

GENERAL PLAN			
DRAWN BY	ENGINEER	OWNER	DATE
DESIGN AND CONT.	Prof. Tarkan Özalp		
SCALE	CLAS		
1/20			