Rev. date : APR. 2016	TECHNICAL SPECIFICATION		HLB HYUNDAI LIFEBOATS
	ITEM : LIFEBOAT	MODEL : HDFN25F	

INDEX

1. Rules and Regulations

This free-fall lifeboat has been designed and approved in accordance with ;

a. SOLAS 1974 with protocol 1978 and amendments up to 2010

b. Resolution MSC.81(70) with amendments up to 2010

c. LSA Code adopted by Resolution MSC.48(66) with amendmensts up to 2010

2. Certification

This lifeboat has been tested in accordance with IMO Resolution MSC.81(70), Part 1 and MSC/Circ.980 and approved by notified body. The boat is provided with EC TYPE EXAMINATION (MODULE B) CERTIFICATE and EC (MODULE D) CERTIFICATE OF CONFORMITY.

3. Dimensions-Overall

a. Max. capacity ---------- 25 persons
b. Min. speed ---------- 6 knots
c. Outside color ---------- Orange
d. Dimension
- Length ---------- 7.95m
- Breadth ---------- 3.07m
- Depth ---------- 1.55m
- Height ---------- 3.19m

e. Weight
- Light load with fuel and equipment ---------- 4,885 Kg
- Total load(25 persons) ---------- 6,948 Kg

f. Max. launching height ---------- 25.7m

4. Engine

a. Model ---------- HB29D1
b. Power / Output (kW(HP)/rpm) ---------- 21.6(29) / 2800
c. Type ---------- Vertical, water-cooled 4 cycle diesel engine
d. Working principle ---------- 4 stroke
e. Number of cylinder ---------- 3
f. Bore and stroke (Ø x mm) ---------- 80 x 92.4
g. Combustion chamber ---------- Spherical type
h. Compression ratio ---------- 22:1

5. Electric system

Two batteries are provided for engine starting, searchlight, and interior light and so on. Two battery chargers for each battery are also provided for recharging lifeboat batteries from the ship's power supply at a supply voltage 24V which can be disconnected at the lifeboat embarkation station.
(In case the electric jacket heater is used for engine, the supply voltage from the ship's power is 42V.)

6. MATERIALS

a. Hull and Deck ---------- FRP(Fiber glass reinforced plastic)
b. Buoyancy material ---------- Polyurethane foam
c. Fittings
- Hatch hinge ---------- ALUMINUM ALLOY
- Hatch handle ---------- SUS304
- Window ---------- POLYCARBONATE
- Side handrail ---------- SUS304
- Water spray pipe ---------- SUS304
- Nozzle and sprinkler ---------- BRASS
- Rudder ---------- SUS304
- Shore piece for rudder ---------- GALVANIZED STEEL
- Propeller ---------- ALUMINUM ALLOY
- Lifeline ---------- SUS304
- Lashing eye ---------- GALVANIZED STEEL
- Towing eye ---------- GALVANIZED STEEL
- Lifting eye ---------- GALVANIZED STEEL
- Sliding rail ---------- GALVANIZED STEEL
- Bolts & nuts ---------- SUS304

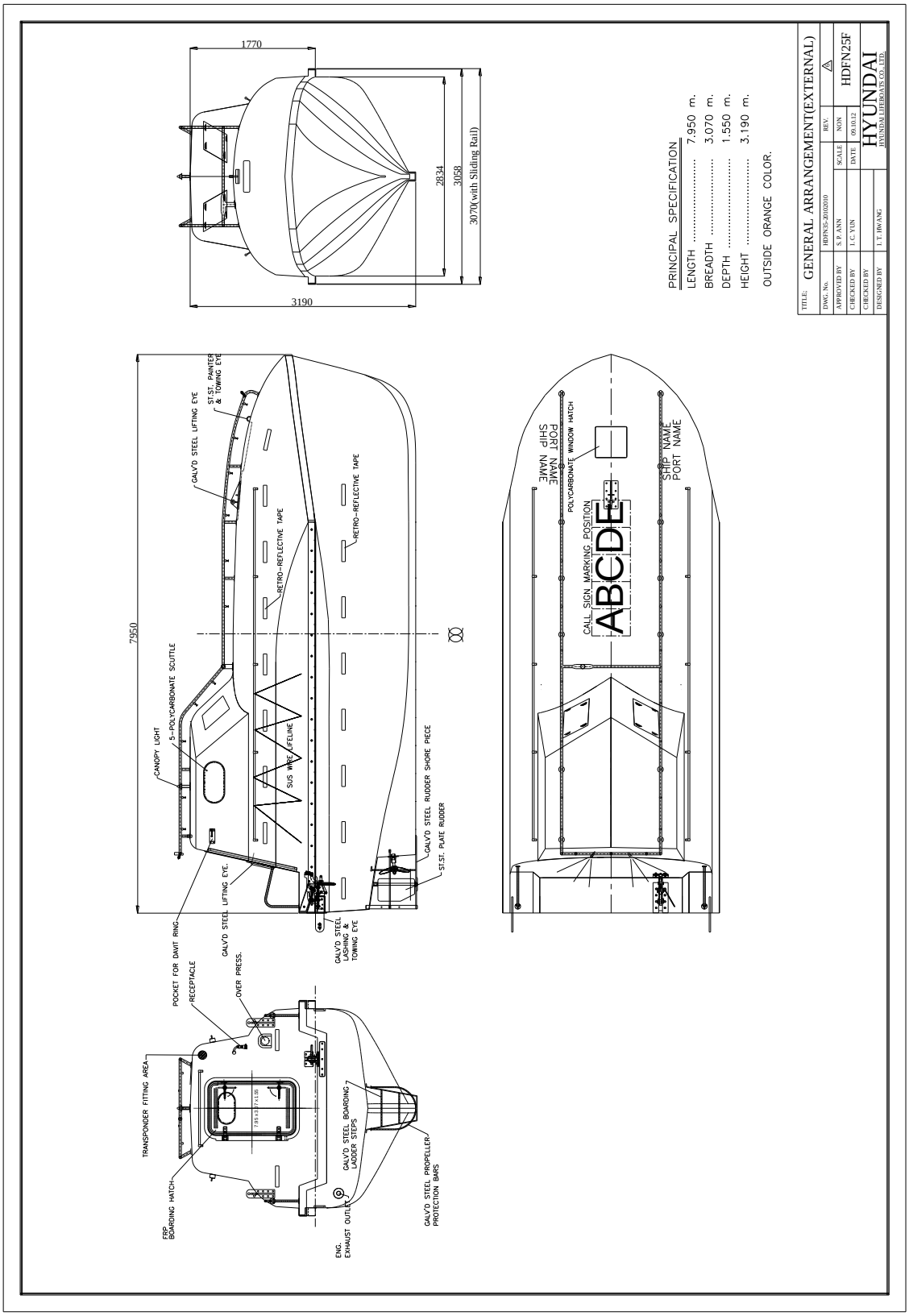
7. WATER SPRAY SYSTEM

This fire-protected boat when waterborne is capable of protecting the number of persons it is permitted to accommodate when subjected to a continuous oil fire that envelops the boat for a period of not less than 8 minutes.
The seawater for this system is drawn from the sea by a self-priming pump connected the engine. It is possible to turn 'ON' and turn 'OFF' the flow of water over the exterior of boat.
The seawater intake is so arranged as to prevent the intake of flammable liquid from the sea surface.
Also, this system is arranged for flushing with fresh water and allowing complete drainage.
Seawater is delivered to a waterspray tube all around the cover for covering the waterfilm with sprinklers and flat nozzles.

8. AIR SUPPLY SYSTEM

The boat with self-contained air support system is so arranged that, when proceeding with all entrances and openings closed, the air in the boat remains safe and breathable and the engine runs normally for a period of not less than 10 min.
During this period the atmospheric pressure in the boat should neither fall below the outside atmospheric pressure nor exceed it by more than 20 hPa.

9. DRAWINGS


1770
2834
3058
3070(with Sliding Rail)
3190
PRINCIPAL SPECIFICATION
LENGTH ..... 7.950 m.
BREADTH ..... 3.070 m.
DEPTH ..... 1.550 m.
HEIGHT ..... 3.190 m.
OUTSIDE ORANGE COLOR.
TITLE: GENERAL ARRANGEMENT(EXTERNAL)
DWG. No. HDFN25F-20102010
APPROVED BY S.P. ANN
CHECKED BY I. C. YUN
CHECKED BY
DESIGNED BY I. T. HWANG
SCALE NON
DATE 09.10.12
REV.
HDFN25F
HYUNDAI
HYUNDAI LIFEBOATS CO., LTD.
7950
GALV'D STEEL LIFTING EYE
ST.ST. PAINTER & TOWING EYE
RETRO-REFLECTIVE TAPE
RETRO-REFLECTIVE TAPE
SUS WIRE LIFELINE
5~POLYCARBONATE SCUTTLE
CANOPY LIGHT
GALV'D STEEL RUDDER SHORE PIECE
ST.ST. PLATE RUDDER
GALV'D STEEL LIFTING EYE
GALV'D STEEL LASHING & TOWING EYE
POCKET FOR DAVIT RING
RECEPTACLE
OVER PRESS.
TRANSPONDER FITTING AREA
GALV'D STEEL BOARDING LADDER STEPS
FRP BOARDING HATCH
ENG. EXHAUST OUTLET
GALV'D STEEL PROPELLER PROTECTION BARS
SHIP NAME
PORT NAME
POLYCARBONATE WINDOW HATCH
CALL SIGN MARKING POSITION
ABCDE