


Rev. date : MAR .2016	<b>TECHNICAL SPECIFICATION</b>		
	<b>ITEM : RESCUE BOAT</b>	<b>MODEL : HDR420</b>	

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### **1. GENERAL**

This rescue boat has been designed and built in accordance with SOLAS 1983 Amendments And 2010, MSC.272(85), LSA Code Chapter 5.1. This boat have been constructed and been of such form and proportions that it have ample stability in a seaway and sufficient freeboard when loaded with its full complement of persons and equipments.

### **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.

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### 3. Dimensions-Overall

- a. Max. capacity ----- 6 persons
- b. Min. speed ----- 6 knots
- c. Outside color ----- Orange
- d. Dimension
  - Length ----- 4.2m
  - Breadth ----- 1.75m
  - Depth ----- 0.678m
- e. Weight
  - Light load with fuel and equipment ----- 570 Kg
  - Total Davit load(6 persons) ----- 1,065 Kg

### 4. Engine

- a. Model ----- YAMAHA or MERCURY
- b. Power / Output (HP/rpm ) ----- 25 / 4500
- c. Type ----- Out board Gasoline Engine
- d. Dry weight----- abt. 56.5Kg
- e. Number of cylinder ----- 2
- f. Bore and stroke (Ø x mm ) ----- 72 x 61
- g. Compression ratio ----- 2..08:1
- h. Cooling System ----- Direct injection

### 5. Electric system

The electric of boat is provided for recharging boat's battery from the ship's power supply at a supply volatage not exceeding 50 V which can be disconnected at the battery box by receptacle & plug. The battery is used for canopy light and search light.

### 6. CONSTRUCTION

The hull and deck are constructed of FRP by the hand-lay-up method.

The under of deck is filled with polyurethan foam to have unsinkable.

All mats, rovings and resins for laminates are approved by classification society and the resins are of self-extinguishing quality as usual.

The metal parts are of a quality, that corrosion is limited to a minimum. As far as steel parts are galvanized.

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## 7. PROPULSION and STEERING

This boat is installed outboard petrol engine. The engine is started with manual. Also, the engine and steering are controlled by engine tiller handle. The capacity of fuel is provided to run the fully loaded boat at 6knts for a period of not less than 4 hours.

## 8. PAINTING and MARKING

FRP outside painted orange color gelcoat.

The dimension and number of boarding persons are marked on each side of boat's stern, the name and port of registry of ship are marked on each side of boat's bow in block capitals of Roman alphabet.

## 9. FITTINGS

- a. HANDRAIL ----- SUS 304
- b. UNDER HANDRAIL ----- SUS 304
- c. SEARCH LIGHT CONNECTOR BRACKET----- SUS 304
- d. CANOPY LIGHT BRACKET----- SUS 304
- e. PAINTER RELEASE UJINT----- SUS 304
- f. LASHING GUIDE----- POLYURETHAN
- g. TOWING EYE----- SUS304
- h. LIFELINE----- P.P ROPE
- i. LIFTING EYE----- SUS304
- j. NAME PLATE----- ALUMINUM
- k. CAUTION AND----- COATED & WATER PROOF STICKER
- l. RETRO-REFLECTIVE----- APPROVED TYPE
- m. BOLTS & NUTS----- SUS 304
- n. PROPELLER PROTECTION----- GAL'V STEEL

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# TECHNICAL SPECIFICATION



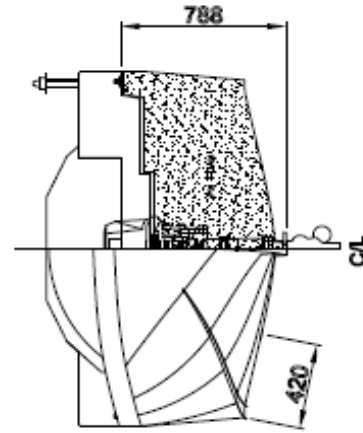
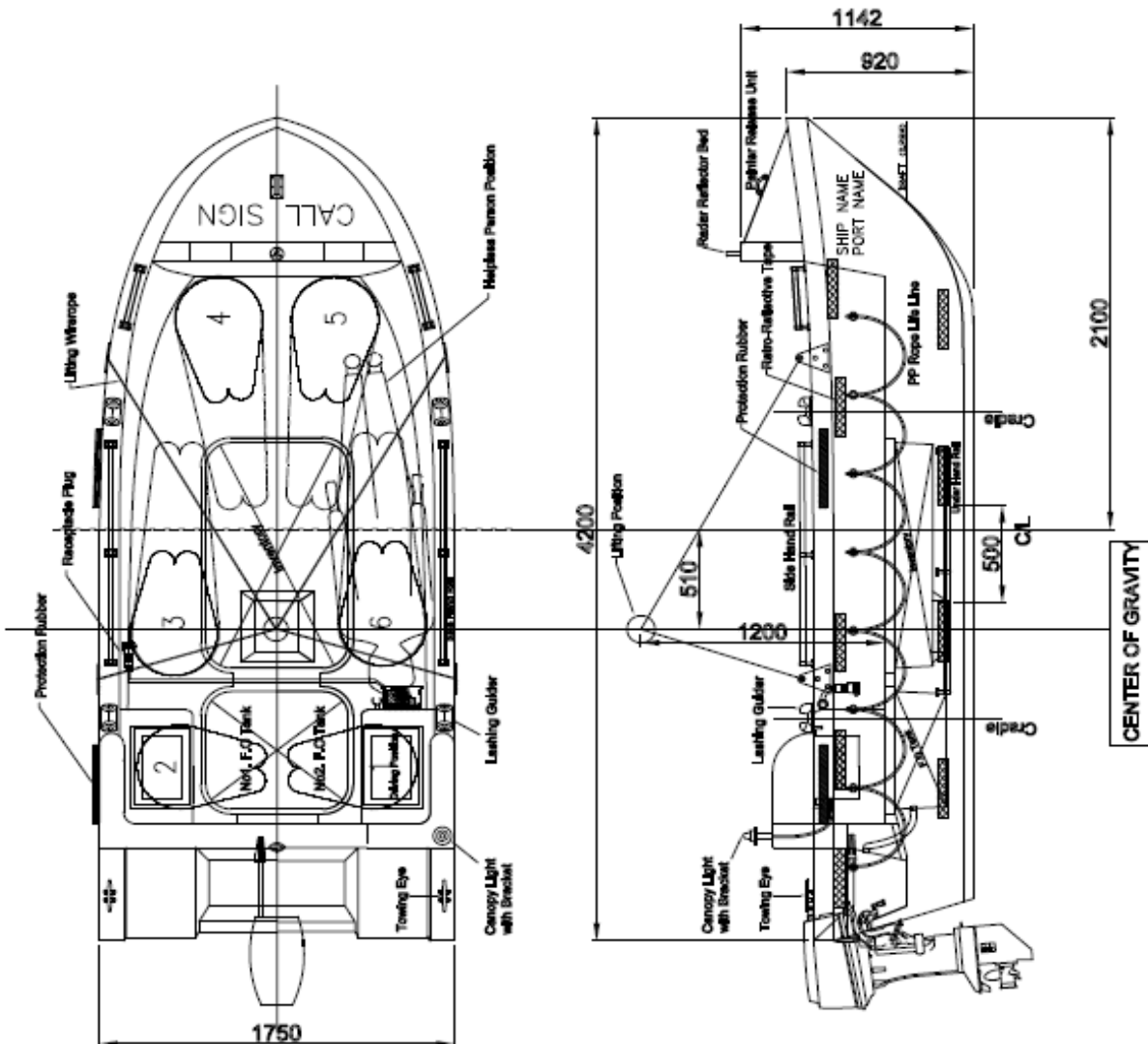
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## 10. DRAWINGS

### PRINCIPLE DIMENSION

- |                    |       |          |
|--------------------|-------|----------|
| 1. LENGTH OVER ALL | ----- | 4.200 M  |
| 2. BREADTH         | ----- | 1.750 M  |
| 3. DEPTH           | ----- | 0.788 M  |
| 4. HEIGHT          | ----- | 1.142 M  |
| 5. BOARDING PERSON | ----- | 6 P      |
| 6. WEIGHT (LIGHT)  | ----- | 570 KG   |
| 7. WEIGHT (FULL)   | ----- | 1,065 KG |



TITLE: General Arrangement

DWG. NO.	HDR420-011	REV.	
APPROVED BY	S. P. Aoi	DESIGNED BY	HDR-ED
CHECKED BY	L. C. YUN	SIZE	A3
DESIGNED BY	L. C. YUN		
CHECKED BY	K. S. YUN		