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**GENERAL SURVEY REQUIREMENTS  
FOR PLEASURE YACHTS**

## **SURVEYS REQUIREMENTS**

### **A. FIRE-FIGHTING EQUIPMENT**

#### **1. General Requirements**

All fire appliances should be of an approved type.

The location, installation, service and maintenance of all equipment should be to the satisfaction of the Administration.

#### **2. Specific Requirements**

##### **2.1 Fire Pumps (applicable for yachts of 15 m length and over)**

One power driven fire pump which need not be a dedicated fire pump, shall have one fire hose of adequate length with a 6mm nozzle and a suitable spray nozzle and be capable to delivering one jet of water with a minimum throw of 6 meters with 6mm nozzle to any part of the yacht, and shall be either :

- i. a hand powered fire pump, fixed or portable, outside any engine space with one sea and hose connections; or
- ii. a power driven fire pump outside any engine space, fixed or portable, with sea and hose connections; or
- iii. a hand powered portable fire pump with a throw over sea suction and hose connection.

##### **2.2 Fire Main, Hydrants and Hoses (applicable for yachts of 15 m length and over)**

A fire main, water service pipes and fire hydrants should be fitted, in conjunction with the fire pump.

Fire hydrants should be located for easy attachment of fire hoses, protected from damage and distributed so that the fire hoses provided can reach any part of the vessel. Fire hoses should not exceed 18 metres in length. The number of fire hoses and nozzles provided should correspond to the functional fire safety equipments.

##### **2.3 Fire Extinguishers**

At least two (2) fire extinguishers of not less than 6 kg each (preferable foam) should be placed in accommodation spaces. Yachts of 15 metres in length and over should be provided with at least three (3) such fire extinguishers, where one (1) should be placed for every 15 meters in corridors.

One (1) fire extinguisher (dry powder or equivalent) should be placed in wheelhouse nearby the central & radio equipment console.

Additionally for yachts of 15 meters length and over, one (1) fire extinguisher (preferable foam) should be placed in galley if it is in a separate space.

#### **NOTE:**

Extinguishers of "HALON" type are not permissible.

##### **2.4 Fixed fire extinguishing system**

An approved fixed fire-extinguishing system (CO<sub>2</sub> or other) should be installed to engine room / machinery spaces of yachts of 15 m and over.

## 2.5 Emergency Escape Breathing Devices (EEBD) for yachts more than 15 meters

Two EEBD should be provided for accommodation spaces.

Waiver for this requirement may be considered by the authorized surveyor.

## 2.6 Fire Blanket / Fire buckets

One fire blanket should be placed in galley.

At least two (2) fire buckets with lanyards should be provided. Buckets may be of metal, plastic or canvas and should be suitable for their intended service.

## 3 Summarised Requirements

The fire-fighting equipment carriage requirements are being summarised to the following table:

FIRE-FIGHTING EQUIPMENT	
Type of Equipment	Requirement
Fire Pumps	One (1) power driven, (over 15 m)
Fire Main, Hydrants and Hoses	Adequate hydrants (over 15 m)
Fire Extinguishers	Two (2), preferable foam, in accommodation spaces (Three (3) for length over 15 m) One (1) dry powder in wheelhouse One (1), preferable foam, in galley if applicable (over 15 m)
Fixed Fire - Extinguishing System	For engine room / machinery spaces (over 15 m)
EEBDS	Two (2) in accommodation spaces (over 15 m)
Fire Blanket	One (1) for galley
Fire buckets with lanyards	Two (2)

## B. LIFE-SAVING APPLIANCES

### 1 General Requirements

All equipment fitted on board should be of an approved type.

The stowage and installation of all life-saving appliances is to be to the satisfaction of the authorised surveyor. All life-saving appliances should be in working order and be ready for immediate use before any voyage is commenced and at all times during the voyage.

The following life-saving appliances should be provided:

#### 1.1 Life rafts

One or more liferafts are to be provided of sufficient aggregate capacity to accommodate the 100% of the total number of persons on board. Liferafts are to be readily transferable for launching on either side of the vessel as far as practicable.

Every yacht of category 1 and of 24 metres length and over, shall carry additional liferaft(s) to ensure that in the event of any one liferaft being lost or rendered unserviceable, there is sufficient capacity remaining for all persons on board.

Liferafts on board yachts of 24 metres length and over should be carried in approved FRP containers stowed on the weather deck and fitted with hydrostatic release unit so that the liferafts float free and inflate automatically. Liferafts on board yachts of less than 24 metres length, can be carried instead, in FRP containers or in a valise stowed in a readily accessible and dedicated weather tight locker opening directly to the weather deck.

Liferafts on board the yachts of category 1 (unrestricted service) to be SOLAS type approved (equipped with "SOLAS B PACK").

The dispensation from the carriage of liferafts may be considered by the Flag Administration for yachts of categories 4 and 5 (service up to 20 n.m. from safe haven). In such case life floating apparatus should be provided.

Liferafts should be serviced every year.

### **1.2 Tender boat**

Every yacht of 24 metres length and over shall carry a tender boat served by a launching appliance. The dispensation from the carriage of tender boat may be considered by the Flag Administration mainly for yachts of categories 3, 4 and 5.

### **1.3 Lifejackets**

Lifejackets, suitable for adults, shall be provided for each person on board, plus spare sufficient for at least 10% of adults on board.

In addition to the above, a lifejacket for children should be provided for every child carried on the yacht, but not less than 10% of adults on board.

Each lifejacket shall be fitted with a lifejacket light, with retro reflective material and whistle.

### **1.4 Lifebuoys**

Four (4) lifebuoys, two of which shall be fitted with buoyant lifelines and two with self-igniting lights and self-activating smoke signals, should be provided for yachts of category 1 (unrestricted service).

Two (2) lifebuoys, one of which shall be fitted with a self-igniting light, should be provided for yachts of all other categories.

### **1.5 Distress signals**

Six (6) parachute signals, four (4) hand flares, two (2) smoke signals should be provided of SOLAS approved type.

### **1.6 Line throwing appliances**

One (1) line throwing appliance should be provided for yachts of 24 metres of length and over, and for yachts of 15 metres of length and over of category 1 (unrestricted service).

### 1.7 General Alarm

A general alarm system should be fitted to yachts of 15 metres length and over, which may consist of the yacht's whistle or siren.

### 1.8 Radar Reflector

All yachts should be provided with radar reflector. Yachts of 15 metres of length and over should be provided with an approved radar reflector, or with a radar transponder (SART).

### 1.9 Miscellaneous

Yachts should also be provided with the below:

- A training or instructions manual containing instructions and information on the life saving appliances provided in the vessel and their maintenance.
- Convention on the International Regulations for Preventing Collisions at Sea (COLREG).
- A Copy of the table "Life-Saving Signals and Rescue Methods".
- First Aid Equipment.
- Torch light.
- Storm lantern.
- Whistle.
- Two black ball shapes.
- Medical guide

## 2. Summarised carriage requirements

The above life-saving appliances carriage requirements are being summarised in the below table:

LIFE-SAVING APPLIANCES	
Type of Equipment	Carriage Requirement
Liferafts	100% of persons on board. Additional for category 1 yachts of 24 m and over.
Tender Boat	One (1) for yachts of 24 m and over.
Lifejackets	110% of person on board plus 10% for children. 100% for children on board.
Lifebuoys	Four (4) for category 1 yachts (two (2) with light / smoke signal and two (2) with buoyant lifeline ). Two (2) for all other categories (one (1) with light).
Line throwing appliances	One (1) for yachts of 24 m and over or for category 1 yachts of 15 m and over.
General Alarm	For yachts of 15 m and over.
Radar Reflector	One (1)
Training manual	One (1)
COLREG	One (1)
Life saving signals table	One (1)
First Aid Equipment	One (1)
Torch light	One (1)
Whistle	One (1)
Black ball shape	Two (2)
Medical guide	One (1)

## **C. NAVIGATION EQUIPMENT REQUIREMENTS**

Yachts should be provided with the following navigation equipment:

- A magnetic compass properly adjusted.
- One (1) set of updated navigation charts for the area of their operation.
- A barometer.
- A radar reflector.
- A radar installation for yachts of 15 metres length and more.
- An electronic navigation system (G.P.S.) for yachts of 15 metres length and over.
- An echo sounder or equivalent arrangement for yachts of 15 metres length and over.
- Binoculars for yachts of category 1 (unrestricted service).

## **D. RADIO COMMUNICATION EQUIPMENT PROVISIONS**

### **1. General Requirements**

All radio communications equipment should be of an approved type.

Yachts should be fitted with radio equipment, capable of transmitting and receiving radio communications at their area of operation.

#### **1.1 Sources of Energy**

There should be available at all times, while the vessel is at sea, a supply of electric energy sufficient to operate the radio installations and to charge any batteries used as part of reserve source of energy for the radio installations.

A reserve source of energy, independent of the propelling power of the vessel and its electrical system, should be provided for the purpose of conducting distress and safety radio communications for a minimum of one hour in the event of failure of the vessel's main source of electrical power.

#### **1.2 Radio Personnel**

A yacht should carry at least one person familiar to the operation of the radio equipment.

### **2. Carriage Requirements**

#### **2.1 VHF Radio Installations**

Every yacht should be fitted with a VHF Radio Installation.

#### **2.2 MF radio installation**

Yachts of category 2 (up to 150 n.m. from a safe haven) should be fitted with an MF radio installation or alternatively with an INMARSAT Ship Earth Station.

#### **2.3 MF/ HF radio installation**

Yachts of category 1 (unrestricted service) should be fitted with an MF/HF radio installation, or alternatively with an INMARSAT Ship Earth Station.

## 2.4 NAVTEX receiver

Yachts of category 1 and 2 should be fitted with a NAVTEX receiver (or equivalent arrangement if NAVTEX service is not provided).

## 2.5 Satellite EPIRB

A satellite EPIRB is to be fitted to yachts of categories 1 and 2

### NOTE:

The following table illustrates the radio installation to be carried to fulfil the functional requirements sailing at different distances from a safe haven:

Area of operations	Category 5	Category 4	Category 3	Category 2	Category 1
Distance from safe haven	Up to 5 n.m.	Up to 20 n.m.	Up to 60 n.m.	Up to 150 n.m.	unrestricted
Radio equipment					
VHF radio installation	One	One	One	One	One
MF radio installation or INMARSAT	None	None	None	One	None
MF/HF radio installation or INMARSAT	None	None	None	None	One
NAVTEX receiver	None	None	None	One	One
EPIRB	None	None	None	One	One

## E. NAVIGATION LIGHTS, SHAPES AND SOUND SIGNALS

Every yacht should comply with the requirements of the International Regulations For Preventing Collisions At Sea, 1972, as amended.

## F. DEFINITIONS FOR AREAS OF OPERATION:

- Category 1: unrestricted service;
- Category 2: up to 150 nautical miles from a safe haven;
- Category 3: up to 60 nautical miles from a safe haven;
- Category 4: up to 20 nautical miles from a safe haven,
- Category 5: up to 5 nautical miles from a safe haven, in favourable weather and in daylight.