

**PARTE II RULES FOR THE CONSTRUCTION  
AND CLASSIFICATION OF SHIPS IDENTIFIED BY  
THEIR MISSIONS**

**TITLE 111 FIRE-FIGHTING (Fi-Fi)**

**SECTION 3 EQUIPMENT**

CHAPTERS

- A APPROACH
- B DOCUMENTS, REGULATIONS AND STANDARDS  
**See Part II, Title 11, Section 3**
- C MATERIALS AND WORKMANSHIP
- D SPECIFIC SYSTEM REQUIREMENTS
- E FIRE DETECTION, PROTECTION, PREVENTION AND FIGHTING – SHIPS WITH  $GT \geq 500$
- F FIRE DETECTION, PROTECTION, PREVENTION AND FIGHTING – SHIPS WITH  $GT < 500$   
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- G EVALUATION OF SCANTLING OF THE HATCH COVERS AND HATCH COAMINGS IN THE CLOSING ARRANGEMENT OF CARGO HOLDS OF SHIPS  
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## CHAPTER A APPROACH

### CHAPTER CONTENTS

#### A1. APPLICATION

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#### A1. APPLICATION

##### 100. Characteristics of the systems

101. This section contains additional requirements for vessels whose service is to fight external fires and to provide assistance in the rescue, for which the additional class notation Fi-Fi Class 1, Class 2, Class 3 or Fi-Fi Cap have been assigned.

## CHAPTER C MATERIALS AND LABOR FORCE

### CHAPTER CONTENTS

#### C1. MATERIALS FOR HULL EQUIPMENTS – See Title 11

#### C2. WORKMANSHIP

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#### C2. MANLABOUR

##### 100. Application

101. The application of these Rules assumes the operation of the equipment by qualified personnel.

## CHAPTER D SPECIFIC SYSTEM REQUIREMENTS

### CHAPTER CONTENTS

#### D1. LIFTING APPLIANCES

- See Part II, Title 11, Section 3

#### D2. ANCHORING, MOORING AND TOWING

- See Part II, Title 11, Section 3

#### D3. MANOEUVERING SYSTEMS

- See Part II, Title 11, Section 3

#### D4. LIFE SAVING APPLIANCES (LSA)

- See Part II, Title 11, Section 3

#### D5. FIRE DETECTION, PREVENTION, PROTECTION AND FIGHTING

- See Part II, Title 11, Section 3

#### D6. HULL OPENING: MEANS OF PROTECTION AND CLOSURE

#### D7. HULL EQUIPMENT: FITTINGS AND ACCESSORIES

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#### D6. HULL OPENING: MEANS OF PROTECTION AND CLOSURE

##### 100. Windows and port lights

101. On ships which are not fitted with a water-spraying system, all windows and port lights are to be fitted with efficient deadlights or external steel shutters, except for the wheelhouse.

#### D7. HULL EQUIPMENT: FITTINGS AND ACCESSORIES

##### 100. Seating of the monitors

101. The seatings of the monitors are to be of adequate strength for all modes of operation

## CHAPTER E PREVENTION AND FIRE FIGHTING – ALL SHIPS

### CHAPTER CONTENTS

#### E1. APPLICATION

#### E2. STRUCTURAL INTEGRITY

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### E1. APPLICATION

#### 100. General

101. This chapter includes additional requirements to those described in Part II, Title 11, Section 3, Chapter E for vessels of 500 GT and over, and Chapter F for vessels under 500 GT, and is applicable for all ships for which the additional class notations Fi-Fi Class 1, Class 2, Class 3 and Fi-Fi Cap have been assigned.

### E2. STRUCTURAL INTEGRITY

#### 100. Materials for the hull, superstructure, structural bulkheads, decks and existing deckhouses in fire-fighting ships

101. The requirements of this Chapter are in addition to:

- a. Part II, Title 11, Section 3, Chapter E requirements for the prevention, detection, contention and fighting of on-board fires of vessels with  $GT \geq 500$ ; and
- b. Part II, Title 11, Section 3, Chapter F requirements for the prevention, detection, contention and fighting of on-board fires of vessels with  $GT < 500$ .

102. The present Chapter E, however, contains requirements for all vessels irrespective of the Gross Tonnage, assigned the additional class notation Fi-Fi for the fighting of external fires.

103. The application of the regulations for **on-board** fire detention, prevention, containment and fighting is as follows:

- a. For ships with  $GT \geq 500$ , excepting Subchapters E1 and E6, all other subchapters of Part II, Title 11, Section 3, Chapter E are applicable. Subchapters E1 (Application) and E11 (Structural Integrity) are to be in compliance with Chapter E of the present Title 111, Section 3; and
- b. For ships with  $GT < 500$ , excepting subchapter F1 and item F3.200, all other subchapters of Part

II, Title 11, Section 3, Chapter E are applicable. Subchapters F1 (Application) and item F3.200 (Structural Integrity) are to be in compliance with Title E of the present Title 111 Section 3.

104. For vessels with notation of service Fi-Fi Class 1, all exterior surfaces above the waterline light, including superstructures and open decks, are to be of steel and internally insulated in such a way as to constitute Class A divisions. This requirement may be waived if the vessel is equipped with water spray protection (water spray system).

105. For vessels with notation of service Fi-Fi Class 2 or Class 3 Fi-Fi all exterior surfaces above the waterline are to be constructed of steel, but there is no need of isolation described above in item E6.104.

106. Other materials may be used on external surfaces described in E6.104 and E6.105 above provided they are submitted to RBNA for review and approval.

107. **Side scuttles and their deadlights:** in ships where there is no fixed pressure water-spray system, steel deadlights or external steel caps are to be provided in all windows, side scuttles and navigation lights, except the bridge windows.

## CHAPTER T TESTS AND INSPECTIONS

### CHAPTER CONTENTS

#### T1. TESTS AND INSPECTIONS

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### T1. TESTS AND INSPECTIONS

#### 100. Application

101. This section contains additional requirements for vessels whose service is to fight external fires and to provide assistance in the rescue, for which the additional class notation Fi-Fi Class 1, Class 2, Class 3 or Fi-Fi Cap have been assigned.

#### 200. Tests for material

201. Materials used for the housing of fire-fighting pumps are to be subjected to a tensile test at ambient temperature according to the relevant provisions of Part III, Title 62, Sections 5.

202. Materials used for pipes, valves and other accessories are to be tested in accordance with the provisions of Part III, Title 62, Section 6.

203. After completion of manufacture and before installation on board, pipes, valves, accessories and pump housings are to be submitted to a hydrostatic.

### **300. Fixed fire-fighting systems**

301. After assembly on board, the water fire-fighting system and the fixed foam fire-extinguishing system are to be checked for leakage at normal operating pressure.

302. The water fire-fighting system and fixed foam fire-extinguishing system are to undergo an operational test on board the ship, to check their characteristics and performances.

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