

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

**TITLE 11    SHIPS IN GENERAL**

**SECTION 4 ACCOMODATION**

CHAPTERS

- A    APPROACH
- B    DOCUMENTS AND REGULATIONS
- C    MATERIALS
- D    DESIGN PRINCIPLES
- E    CONSTRUCTION PRINCIPLES
- T    INSPECTIONS AND TESTS



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**CHAPTER A  
APPROACH**

CHAPTER CONTENTS

A1. APPLICATION

A2. DEFINITIONS

**A1. APPLICATION**

**100. Application**

101. The requirements of the present Section are applicable for all vessels.

**A2. DEFINITIONS**

**100. Terms**

101. The terms employed in this section are to be in accordance with Part II, Title 11, Section 3, E.3 as follows:

102. For the purpose of this chapter, unless expressly provided otherwise, the following definitions shall apply:

103. **Accommodation spaces** are those spaces used for public spaces, corridors, lavatories, cabins, offices, hospitals, cinemas, game and hobby rooms, barber shops, pantries containing no cooking appliances and similar spaces.

104. **"A" class divisions** are those divisions formed by bulkheads and decks which comply with the following criteria:

- a. they are constructed of steel or other equivalent material;
- b. they are suitably stiffened;
- c. they are insulated with approved non combustible materials such that the average temperature of the unexposed side will not rise more than 140°C above the original temperature, nor will the temperature, at any one point, including any joint, rise more than 180°C above the original temperature, within the time listed below:

class "A-60"	60 min
class "A-30"	30 min
class "A-15"	15 min
class "A-0"	0 min

104. **"B" class divisions** are those divisions formed by bulkheads, decks, ceilings or linings which comply with the following criteria:

- a. they are constructed of approved non-combustible materials and all materials used in the construction and erection of "B" class divisions are non combustible, with the exception that combustible veneers may be permitted provided they meet other appropriate requirements of this chapter;
- b. they have an insulation value such that the average temperature of the unexposed side will not rise more than 140°C above the original temperature, nor will the temperature at any one point, including any joint, rise more than 225°C above the original temperature, within the time listed below:

class "B-15"	15 min
class "B-0"	0 min

105. **"C" class divisions are divisions** constructed of approved non-combustible materials. They need meet neither requirements relative to the passage of smoke and flame nor limitations relative to the temperature rise. Combustible veneers are permitted provided they meet the requirements of this chapter. Adhesives used in the construction of the "C" class divisions are not required to be non-combustible; however, they are to have low flame-spread characteristics.

106. **Fire Safety Systems Code** means the International Code for Fire Safety Systems as adopted by the Maritime Safety Committee of the Organization by resolution MSC.98(73).

107. **Fire Test Procedures Code** means the International Code for Application of Fire Test Procedures as adopted by the Maritime Safety Committee of the Organization by resolution MSC.61(67)

108. **Non combustible material** is a material which neither burns nor gives off flammable vapours in sufficient quantity for self-ignition when heated to approximately 750°C, this being determined in accordance with the Fire Test Procedures Code.

109. **Standard fire test** is a test in which specimens of the relevant bulkheads or decks are exposed in a test furnace to temperatures corresponding approximately to the standard time-temperature curve in accordance with the test method specified in the Fire Test Procedures Code.

## **CHAPTER B DOCUMENTS AND REGULATIONS**

### **CHAPTER CONTENTS**

B1. STANDARDS AND REGULATIONS

B2. DOCUMENTATION FOR RBNA

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spaces of the ships, the fire rating of bulkheads and decks, means of closings of openings in A and B class divisions, draught stops.

### **300. Ships with $\geq 500$**

301. A Structural fire protection as required in Part II, Title 11, Section 3, Chapter B.

## **B1. STANDARDS AND REGULATIONS**

### **100. Class Regulations**

101. For vessels under 500 GT, Part II, Title 11, Section 3, Chapter F;

102. For vessels equal to or over 500 GT, Part II, Title 11, section 3, Chapter E;

### **200. Statutory Regulations**

201. For vessel less than 500 GT under the Brazilian Flag Administration the recommendations of NORMAM 01 are to be taken into account;

202. For vessels less than 500 GT under foreign flags, the National Administration are to be taken into account;

203. For vessels equal to or over 500 GT, the SOLAS Chapter II-2 regulations are applicable.

204. Where there are no National Administration regulations, the Rules requirements are to be taken into account;

205. Where there is conflict between the Rules and the National Administration requirements, the stricter regulations are to prevail.

### **300. IMO Codes**

301. IMO Fire Safety Systems Code (FSS Code)

302. IMO Fire Test Procedure Code (FTP Code)

## **B2. DOCUMENTATION FOR RBNA**

### **100. Information**

101. The specifications for the materials employed in the division bulkheads and decks are to be submitted to RBNA.

### **200. Ships with $GT < 500$**

201. In addition to the requirements of B2.100, the following information must be contained in the Fire Safety Plan or in the Safety Plan or in a separate plan:

a. Structural fire protection, showing the method of construction, purpose and category of the various

## CHAPTER C MATERIALS

### CONTEÚDO DO CAPÍTULO

#### C1. MATERIALS

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#### C1. MATERIALS

See Part III, Title 61, Section 4.

## CAPÍTULO D DESIGN PRINCIPLES

### CHAPTER CONTENTS

#### D1. DESIGN PRINCIPLES AND MEANS OF ESCAPE FOR VESSELS OF GT $\geq$ 500

#### D2. DESIGN PRINCIPLES AND MEANS OF ESCAPE FOR VESSELS OF GT < 500

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#### D1. DESIGN PRINCIPLES AND MEANS OF ESCAPE FOR VESSELS OF GT $\geq$ 500

See Part II, Title 11, Section 3, Chapter E:

- E.6 – Smoke generations
- E.7 – Detection and alarm
- E.8 – Control of smoke spread
- E.9 – Containment of fire
- E.10 – Fire fighting
- E.11 – Structural integrity
- E.12 – Means of escape
- E.13 – Alternative design and arrangements

#### D2. DESIGN PRINCIPLES AND MEANS OF ESCAPE FOR VESSELS PF gt < 500

See Part II, Title 11, Section 3, Chapter F:

- F.1 – Application
- F.3 – Safety measures and means of escape
- F.6 – Alternative design and arrangements

## CHAPTER T INSPECTONS AND TESTS

### CHAPTER CONTENTS

#### T1. ESCAPE ROUTES

#### T2. EMERGENCY EXITS

#### T3. CONTAINMENT OF FIRE

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#### T1. ESCAPE ROUTES

##### 100. Unobstructed escape routes

101. The escape routes must be easily accessible and unobstructed.

102. The requirements of the National Administration, which in case of Brazilian flag vessels are NORMAM 01 Chapter 4, Section VII, must be verified.

103. Where there are doors which must be kept closed in operation or during the sea voyage, all sound and visual alarms for open door and indication of door closed must be tested.

#### T2. EMERGENCY EXITS

##### 100. Availability for ready use

101. All emergency exits must be ready for use. No padlocks are allowed in the exit hatches.

#### T3. CONTAINMENT OF FIRE

##### 100. Conformity with the approved plans

101. The conformity of the division bulkheads, ceilings and floors must be verified for conformity with the approved plans.

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