



**INTLREG**  
INTERNATIONAL REGISTER OF SHIPPING

# RULES FOR CLASSIFICATION OF FRP VESSELS

## PART 7 Fire Safety

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**CHANGES HISTORY**

Refer Part 1 for Changes

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# CHAPTER 1 FIRE FIGHTING EQUIPMENTS AND ARRANGEMENTS

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## **SECTION 1 FIRE SAFETY SYSTEMS**

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**1.1 Fire Pumps**

**1.1.1. Number of Pumps**

Two power-driven fire pumps shall be installed, one of which shall be attached to the propulsion unit. In case of vessels are less than 20 m (65 ft) in length, one power-driven pump, which shall be an attached unit, and one hand-operated fire pump shall be provided. Sanitary, bilge, and general-service pumps shall be accepted as fire pumps.

**1.1.2. Capacity**

Fire-pump capacity shall be in accordance with the following.

<u>Vessel Length</u>	<u>Minimum Capacity</u>
Below 20 m (65 ft)	5.5 m3/hr (25 gpm)
20 m (65 ft) or greater but below 30.5 m (100 ft)	11.0 m3/hr (50 gpm)
30.5 m (100 ft) or greater	14.3 m3/hr (66.6 gpm)

Power-driven fire pumps shall have sufficient pressure to supply the effective stream required by Section [1.1.4] below . Hand-operated fire pumps shall have a minimum capacity of 1.1 m3/hr (5 gpm).

**1.1.3. Hoses, Nozzles, and Hydrants**

Hoses shall not to have a diameter greater than 38 ram (1.5 in.). Hoses for vessels under 20 m (65 ft) in length shall be garden type of good commercial grade having a diameter of not less than 16 mm (5/8 in.).

Nozzle sizes shall be in accordance with INTLREG Part 5A"Rules and Regulations for Classification of Steel Vessels.", Chapter 13, Sect 3 [3.4.5.3] Fire hydrants shall be of sufficient number and so located that any part of the vessel shall be reached with an effective stream of water from a single length of hose not exceeding 15 m (50 ft). All hoses attached to hydrants serving machinery spaces of vessels over 20 m (65 ft) shall in addition shall be fitted with nozzles suitable for spraying water on oil or, alternatively, dual-purpose nozzles.

**1.1.4. Fixed Systems**

A fixed fire-extinguishing system shall be provided for the machinery space of vessels over 1000 H.P.

**1.1.5. Axe**

One fire axe shall be provided on each vessel 20 m (65 ft) and over.

**1.1.6. Portable Extinguishers**

Portable extinguishers shall be provided in the quantities and locations indicated in Tables 1.1.1 and 1.1.2.

**TABLE 1.1.1 Classification of Portable and Semiportable Extinguishers**

<i>Classification Type</i>	<i>Size</i>	<i>Soda-Acid and Water, liters (U.S. gallons)</i>	<i>Foam, liters (U.S. gallons)</i>	<i>Carbon Dioxide, kg (lb)</i>	<i>Dry Chemical, kg (lb)</i>
<b>A</b>	<b>II</b>	9 (2.5)	9 (2.5)	—	—
<b>B</b>	<b>II</b>	—	9 (2.5)	6.8 (15)	4.5 (10)
<b>C</b>	<b>II</b>	—	—	6.8 (15)	4.5 (10)

**TABLE 1.1.2 Portable and Semiportable Extinguishers**

<i>Space</i>	<i>Classification</i>	<i>Quantity and location</i>
<b>Safety Areas</b>		
Communicating corridors	A-II	1 in each main corridor not more than 46 m (150 ft) apart. (May be located in stairways.)
Radio room	C-II	1 in vicinity of exit.
<b>Accommodations</b>		
Sleeping accommodations	A-II	1 in each sleeping accommodation space. (Where occupied by more than 4 persons.)
<b>Service Spaces</b>		
Galleys	B-II or C-II	1 for each 230 m <sup>2</sup> (2500 ft <sup>2</sup> ) or fraction thereof for hazards involved.
Storerooms	A-II	1 for each 230 m <sup>2</sup> (2500 ft <sup>2</sup> ) or fraction thereof located in vicinity of exits, either inside or outside of spaces.
<b>Machinery Spaces</b>		
Internal combustion or gas turbine-engines	B-II	1 for each engine. See <i>Note 1</i> .
Electric motors or generators of open type	C-II	1 for each 2 motors or generators. See <i>Note 2</i> .

**Notes**

1 When installation is on weather deck or open to atmosphere at all times 1 B-11 for each three engines is allowable.

2 Small electrical appliances, such as fans, etc., shall not to be counted or used as basis for determining number of extinguishers required.