

Regulation 5

Permissible Length of Compartments

(a) Ships shall be as efficiently subdivided as is possible having regard to the nature of the service for which they are intended. The degree of subdivision shall vary with the length of the ship and with the service, in such manner that the highest degree of subdivision corresponds with the ships of greatest length, primarily engaged in the carriage of passengers.

(b) Factor of Subdivision.—The maximum permissible length of a compartment having its centre at any point in the ship's length is obtained from the floodable length by multiplying the latter by an appropriate factor called the factor of subdivision.

The factor of subdivision shall depend on the length of the ship, and for a given length shall vary according to the nature of the service for which the ship is intended. It shall decrease in a regular and continuous manner—

(i) as the length of the ship increases, and

(ii) from a factor A, applicable to ships primarily engaged in the carriage of cargo, to a factor B, applicable to ships primarily engaged in the carriage of passengers.

The variations of the factors A and B shall be expressed by the following formulæ (I) and (II) where L is the length of the ship as defined in Regulation 2:—

$$\begin{aligned}
 & \text{L in feet} \\
 A &= \frac{190}{L - 198} + .18 \quad (\text{L} = 430 \text{ and upwards}) \\
 & \text{L in metres} \\
 A &= \frac{58.2}{L - 60} + .18 \quad (\text{L} = 131 \text{ and upwards}) \dots\dots\dots (I)
 \end{aligned}$$

$$\begin{aligned}
 & \text{L in feet} \\
 B &= \frac{100}{L - 138} + .18 \quad (\text{L} = 260 \text{ and upwards}) \\
 & \text{L in metres} \\
 B &= \frac{30.3}{L - 42} + .18 \quad (\text{L} = 79 \text{ and upwards}) \dots\dots\dots (II)
 \end{aligned}$$

(c) Criterion of Service.—For a ship of given length the appropriate factor of subdivision shall be determined by the Criterion of Service Numeral (hereinafter called the Criterion Numeral) as given by the following formulæ (III) and (IV) where:—

- C_s = the Criterion Numeral;
- L = length of the ship, as defined in Regulation 2;
- M = the volume of the machinery space, as defined in Regulation 2; with the addition thereto of the volume of any permanent oil fuel bunkers which may be situated above the inner bottom and before or abaft the machinery space;
- P = The whole volume of the passenger spaces below the margin line, as defined in Regulation 2;
- V = the whole volume of the ship below the margin line;