§ 45.77  Salt water freeboard.

(a) The salt water addition in inches to freeboard applicable to each fresh water mark is obtained by the formula:

\[
\text{Addition} = \frac{D}{41T}
\]

(2) For vessels having a length greater than 550 feet, (341.6−0.227 L) inches—actual bow height

(b) Where the bow height is obtained by sheer, the sheer must extend for at least 15 percent of the length of the vessel measured from the forward perpendicular.

(c) Where the bow height is obtained by a superstructure, the superstructure must be enclosed and extend from the stem to a point at least 0.08 L abaft the forward perpendicular.

(d) Vessels which, to suit exceptional operational requirements, cannot meet the requirements of paragraph (c) of this section may be given special consideration by the Commandant.

(e) The bow height is defined as the vertical distance at the forward perpendicular between the waterline corresponding to the assigned summer freeboard at the designed trim and the top of the exposed deck at side.

§ 45.71  Midsummer freeboard.

The minimum midsummer freeboard (fms) in inches is obtained by the formula:

\[
f_{\text{ms}} = f(s) - 0.3T_s
\]

where:

\( f(s) \) = summer freeboard in inches

\( T_s \) = distance in feet between top of keel and the summer load line.

§ 45.73  Winter freeboard.

The minimum winter freeboard (fw) in inches is obtained by the formula:

\[
f_w = f(s) + T_s \frac{200}{L}
\]

where:

\( L \) = length L in feet but not less than 400 feet.

§ 45.75  Intermediate freeboard.

The minimum intermediate freeboard (fi) in inches is obtained by the formula:

\[
f_i = f(s) + T_s \frac{100}{L}
\]

where:

\( L \) = length L in feet but not less than 400 feet.

§ 45.77  Salt water freeboard.

(a) The salt water addition in inches to freeboard applicable to each fresh water mark is obtained by the formula: Addition=\(\Delta/41T\)