

**Regulation 16**

*Side and other Openings, &c., above the Margin Line*

(a) Sidescuttles, gangway, cargo and coaling ports, and other means for closing openings in the shell plating above the margin line shall be of efficient design and construction and of sufficient strength having regard to the spaces in which they are fitted and their positions relative to the deepest subdivision loadline.

(b) The bulkhead deck or a deck above it shall be weathertight in the sense that in ordinary sea conditions water will not penetrate in a downward direction. All openings in the exposed weather deck shall have coamings of ample height and strength and shall be provided with efficient means for expeditiously closing them weathertight.

(c) Freeing ports and/or scuppers shall be fitted as necessary for rapidly clearing the weather deck of water under all weather conditions.

**Regulation 17**

*Pumping Arrangements*

(a) Ships shall be provided with an efficient pumping plant, capable of pumping from and draining any watertight compartment under all practicable conditions after a casualty whether the ship is upright or listed. For this purpose wing suction will generally be necessary except in narrow compartments at the ends of the ship, where one suction may be sufficient. In compartments of unusual form, additional suction may be required. Arrangements shall be made whereby water in the compartment may find its way to the suction pipes. Efficient means shall be provided for draining water from insulated holds.

(b) (i) Except as provided elsewhere in this Regulation, ships shall have at least three power pumps connected to the bilge main, one of which may be attached to the propelling unit. Where the criterion numeral is 30 or more, one additional independent power pump shall be provided. In ships less than 300 feet (or 91.5 metres) in length and having a criterion numeral less than 30, two efficient hand-pumps of the crank type, fitted one forward and one aft, may be substituted for one of the independent power pumps.

(ii) The requirements are summarised in the following table:—

| Length of ship  | Less than 300 feet<br>(or 91.5 metres) |                | 300 feet (or 91.5<br>metres) and over |                |
|---|--|----------------|---------------------------------------|----------------|
|   | Less than<br>30                        | 30 and<br>over | Less than<br>30                       | 30 and<br>over |
| Hand pumps (may be replaced by<br>one independent pump) ...       | 2                                      | ...            | ...                                   | ...            |
| Main engine pump (may be replaced<br>by one independent pump) ... | 1                                      | 1              | 1                                     | 1              |
| Independent pumps ...   | 1                                      | 3              | 2                                     | 3              |