§ 178.430  
(d) The cockpit must be self-bailing. Scuppers or freeing ports for the cockpit deck of a cockpit vessel must:
(1) Be located to allow rapid clearing of water in all probable conditions of list and trim;
(2) Have a combined drainage area of at least the area required by §178.450 of this part; and
(3) If the deck is less than 255 millimeters (10 inches) above the deepest load waterline of the vessel, be fitted with non-return devices.

§ 178.430 Drainage of well deck vessels.  
(a) The weather deck on a well deck vessel must be watertight.
(b) The area required on a well deck vessel for drainage of well formed by the bulwarks shall be determined by §178.450.
(c) The freeing ports or scuppers on a well deck vessel must be located to allow rapid clearing of water in all probable conditions of list and trim.
(d) The deck of well deck vessel that operates on exposed or partially protected waters must be at least 255 millimeters (10 inches) above the deepest load waterline of the vessel unless the vessel complies with:
(1) The intact stability requirements of §§170.170, 170.173, 171.050, 171.055, and 171.057 in subchapter S of this chapter;
(2) The Type II subdivision requirements in §§171.070, 171.072, and 171.073 in subchapter S of this chapter; and
(3) The damage stability requirements in §171.080 in subchapter S of this chapter.

§ 178.440 Drainage of open boats.  
The deck within the hull of an open boat must drain to the bilge. Overboard drainage of the deck is not permitted.

§ 178.450 Calculation of drainage area for cockpit and well deck vessels.  
(a) The drainage area required on a vessel must be computed using the following formula:
For protected waters required drainage = .1 × Basic Drainage
For partially protected waters required drainage = .5 × Basic Drainage
For exposed waters required drainage = Basic Drainage

where:
Basic Drainage area in centimeters² = \(4389.12 \times [(\text{Recess Volume} \times \text{Recess Ratio}) + (\text{Weather Deck Volume} \times \text{Weather Deck Ratio})] \)
Basic Drainage area in inch² = \((\text{Recess Volume} \times \text{Recess Ratio}) + (\text{Weather Deck Volume} \times \text{Weather Deck Ratio}) \)
Ress Ratio = \(\frac{L_R}{L_C} \)
Weather Deck Ratio = \(\frac{L_D}{L_C} \)

(b) Vessels with bulwarks in the forward part of the vessel shall not form a well with the deckhouse which retains water.

Subpart E—Special Installations

§ 178.510 Ballast.  
(a) Any solid fixed ballast used to comply with the requirements of parts 170, 171, 178, and 179 of this chapter must be:  
(1) Stowed in a manner that prevents shifting of the ballast; and
(2) Installed to the satisfaction of the cognizant OCMI.