

# Amended Rules for the Classification of Steel Ships

(Pt. 10 Hull Structure and Equipment of Small Ships)

Dec. 2019



KR

## - Main Amendments -

- (1) 01 Jan. 2020 (date of construction contract) or  
in the absence of a building contract, the keel of which is laid or which are at a similar stage of  
construction on or after 01 July 2020 or  
delivered on or after 01 Jan. 2024  
● Reflected IACS UI SC156 (R. 1)

Present	Amendment
<p style="text-align: center;"><b>CHAPTER 14 WATERTIGHT BULKHEADS</b></p> <p style="text-align: center;">Section 1 ~ 2 &lt;omit&gt;</p> <p style="text-align: center;">Section 3 Watertight Doors</p> <p><b>301. General [See Guidance]</b></p> <p><u>1. Any access openings, doors, manholes or ducts for ventilation, etc. are not to be cut in the collision bulkhead below freeboard deck. The number of openings in collision bulkheads above the freeboard deck is to be kept to a minimum as possible and all such openings are to be provided with weathertight means of closing.</u></p> <p><u>2. Watertight doors(or access hatch cover) are to be provided for all access openings in the watertight bulkheads or openings to ensure the watertight integrity of the inner decks in accordance with the requirements in the following 302. to 305.</u></p> <p><b>302. Type of watertight doors [See Guidance]</b></p> <p><u>1. Watertight doors are to be of sliding type. Hinged or rolling type may, however, be accepted having regard to the position or the service condition of the door.</u></p> <p><u>2. Notwithstanding the provisions in 1 above, where watertight door is as small as crew can pass, the watertight door may be of hinged type or rolling type, except where the doors are required to be capable of being closed remotely in accordance with 404. 2.</u></p> <p><u>3. Notwithstanding the provisions in 1 above, watertight doors in large cargo hold division may be of a type other than sliding type provided that such doors are permanently closed at sea.</u></p> <p><u>4. Doors which are closed by dropping or by the action of a dropping weight are not permitted.</u></p>	<p style="text-align: center;"><b>CHAPTER 14 WATERTIGHT BULKHEADS</b></p> <p style="text-align: center;">Section 1 ~ 2 &lt;same as current&gt;</p> <p style="text-align: center;">Section 3 Watertight Doors <i>(2020)</i></p> <p><b>301. General [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 401. of the Rules.</u></p> <p><b>302. Type of watertight doors [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 402. of the Rules.</u></p>

Present	Amendment
<p><b>303. Strength and watertightness</b></p> <ol style="list-style-type: none"> <li><u>1. Watertight doors are to be of ample strength and watertightness for water pressure to a head up to the bulkhead deck, and door frames are to be effectively secured to the bulkheads. Where deemed necessary by the Society, watertight doors are to be tested by water pressure before they are fitted. [See Guidance]</u></li> <li><u>2. Where watertight doors are provided in cargo spaces, such doors are to be protected against damages due to cargoes, etc. by suitable means.</u></li> </ol> <p><b>304. Control [See Guidance]</b></p> <ol style="list-style-type: none"> <li><u>1. All watertight doors, except those which are to be permanently closed at sea, are to be capable of being opened and closed by hand locally, from both sides of the doors, with the ship listed of 30 degrees to either side.</u></li> <li><u>2. In addition to the requirements of 1 above, watertight doors which are used at sea or normally open at sea, are to be capable of being remotely closed by power from the navigation bridge.</u></li> <li><u>3. It is not to be possible to remotely open any watertight door. In addition, watertight doors which are applying to the provisions of 302. 3 are not to be remotely controlled.</u></li> </ol> <p><b>305. Indication [See Guidance]</b></p> <ol style="list-style-type: none"> <li><u>1. Watertight doors, except those permanently closed at sea, are to be provided with position indicators showing whether the doors are open or closed at all operating positions.</u></li> <li><u>2. In addition to the requirements of 1 above for watertight doors which are to be capable of being remotely closed, an indication is to be placed locally showing that the door is in remote control mode.</u></li> </ol>	<p><b>303. Strength and watertightness [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 403. of the Rules.</u></p> <p><b>304. Control [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 404. of the Rules.</u></p> <p><b>305. Indication [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 405. of the Rules.</u></p>

Present	Amendment
<p><b>306. Alarms [See Guidance]</b>  <u>Watertight doors which are capable of being remotely closed are to be provided with an audible alarm which will sound at the door position whenever such a door is remotely closed.</u></p> <p><b>307. Source of power</b></p> <ol style="list-style-type: none"> <li><u>1. The remote controls, indications and alarms required in 304. to 306. are to be operable in the event of main power failure.</u></li> <li><u>2. Where Electrical installations specified in 1 are situated below the free-board deck, they are to be provided with a degree of protection appropriate for flooding. [See Guidance]</u></li> <li><u>3. Cables for devices specified in 1. are to comply with the requirements of Pt 6, Ch 1, Sec 5 of the Rules.</u></li> </ol> <p><b>308. Notices</b></p> <ol style="list-style-type: none"> <li><u>1. Watertight doors which are to be normally closed at sea are to have notices fixed to both sides of the doors stating "<b>To be kept closed at sea</b>".</u></li> <li><u>2. Watertight doors which are to be permanently closed at sea are to have notices fixed to both sides stating "<b>Not to be opened at sea</b>". Such doors which are accessible during the voyage are to be fitted with a device which prevents opening. [See Guidance]</u></li> </ol>	<p><b>306. Alarms [See Guidance]</b>  <u>As specified in Pt 3, Ch 14, 406. of the Rules.</u></p> <p><b>307. Source of power [See Guidance]</b>  <u>As specified in Pt 3, Ch 14, 407. of the Rules.</u></p> <p><b>308. Notices [See Guidance]</b>  <u>As specified in Pt 3, Ch 14, 408. of the Rules.</u></p>

Present	Amendment
<p><b>309. Sliding doors [See Guidance]</b></p> <p><u>1. Sliding watertight doors are to be capable of being operated from an accessible position above the bulkhead deck and are to have an index at the operating position showing whether the door is open or closed. This remote control of the door may, however, be omitted where the Society is satisfied with such an arrangement having regard to the service condition of the door.</u></p> <p><u>2. Where the above control means is operated by rods, the lead of operating rods is to be as direct as possible and the screw is to work in a nut of gun-metal or other approved material.</u></p> <p><u>3. Sliding doors controlled from remote positions are also to be capable of being operated at the position of the door.</u></p> <p><u>4. The frames of vertically sliding watertight doors are to have no groove at the bottom in which dirt might lodge and prevent the door from closing.</u></p> <p><b>310. Hinged and rolling doors</b></p> <p><u>1. For hinged and rolling watertight doors, the hinge pins and the wheel axle of these doors are to be of gun-metal or other approved materials.</u></p> <p><u>2. Hinged and rolling watertight doors except those are to be permanently closed at sea, are to be of quick acting or single acting type which is capable of being closed and secured from both sides of the doors. ↓</u></p>	<p><b>309. Sliding doors [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 409. of the Rules.</u></p> <p><b>310. Hinged and rolling doors [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 410. of the Rules.</u></p> <p><b>311. Testing [See Guidance]</b></p> <p><u>As specified in Pt 3, Ch 14, 412. of the Rules. ↓</u></p>

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Present	Amendment
<p style="text-align: center;"><b>CHAPTER 14 WATERTIGHT BULKHEADS</b></p> <p style="text-align: center;">Section 1 ~ 2 &lt;omit&gt;</p> <p style="text-align: center;">Section 3 Watertight Doors</p> <p><b>301. General (2017)</b> [See Rule]  <del>Watertight doors are categorized as Pt 3, Ch 14, Sec. 4 401. of Guidance relating to rules for the classification of steel ships.</del></p> <p><b>302. Type of Watertight Doors</b> [See Rule]  As specified in Pt 3, Ch 14, 402. of the Guidance.</p> <p><b>303. Strength and watertightness</b> [See Rule]  <u>In application to 303. 1 of the Rules, the term "deemed necessary by the Society" means the cases as specified in Pt 3, Ch 14, 403. of the Guidance.</u></p>	<p style="text-align: center;"><b>CHAPTER 14 WATERTIGHT BULKHEADS</b></p> <p style="text-align: center;">Section 1 ~ 2 &lt;omit&gt;</p> <p style="text-align: center;">Section 3 Watertight Doors (2020)</p> <p>&lt;delete&gt;</p> <p><b>302. Type of Watertight Doors</b> [See Rule]  As specified in Pt 3, Ch 14, 402. of the Guidance.</p> <p><b>303. Strength and watertightness</b> [See Rule]  <u>As specified in Pt 3, Ch 14, 403. of the Guidance.</u></p> <p><b>304. Strength and watertightness</b> [See Rule]  <u>As specified in Pt 3, Ch 14, 404. of the Guidance.</u></p> <p><b>305. Strength and watertightness</b> [See Rule]  <u>As specified in Pt 3, Ch 14, 405. of the Guidance.</u></p> <p><b>306. Strength and watertightness</b> [See Rule]  <u>As specified in Pt 3, Ch 14, 406. of the Guidance.</u></p> <p><b>307. Strength and watertightness</b> [See Rule]  <u>As specified in Pt 3, Ch 14, 407. of the Guidance.</u></p>

Present	Amendment
<p><b>309. Sliding Doors [See Rule]</b>  As specified in <b>Pt 3, Ch 14, 409.</b> of the Guidance. ↓</p>	<p><b><u>308. Strength and watertightness [See Rule]</u></b>  <u>As specified in Pt 3, Ch 14, 408.</u> of the Guidance.</p> <p><b>309. Sliding Doors [See Rule]</b>  As specified in <b>Pt 3, Ch 14, 409.</b> of the Guidance.</p> <p><b><u>311. Test [See Rule]</u></b>  <u>As specified in Pt 3, Ch 14, 412.</u> of the Guidance. ↓</p>