## Rules for the Classification of Steel Ships Revision (Part 4 Hull Equipment)



Present	Amendment	Reason
CHAPTER 1 RUDDERS  Section 9 Bearings of Rudder Stocks and Pintles	CHAPTER 1 RUDDERS  Section 9 Bearings of Rudder Stocks and Pintles	
901. <same as="" present="" rules="" the=""> 902. Length of bearings  The length of the bearing is to be accordance with the following.  <math>d_{sl} \leq h_b \leq 1.2 d_{sl}</math> <math>d_{sl} = \text{Actual pintle diameter measured on the outside of ruddenstock or liners.}</math> <hereafter, as="" present="" rules="" same="" the=""></hereafter,></same>	<ul> <li>901. <same as="" present="" rules="" the=""></same></li> <li>902. Length of bearings (2020)  The length/diameter ratio of the bearing surface is not to be greater than 1.2.  The bearing length h<sub>b</sub> of the pintle is to be such that</li> </ul>	* Amended to match some different provisions with IACS UR S10

Present	Amendment	Reason
CHAPTER 2 HATCHWAYS AND OTHER DECK OPENINGS	CHAPTER 2 HATCHWAYS AND OTHER DECK OPENINGS	
Section 1 General	Section 1 General	
<ul> <li>101. ~ 103. <same as="" present="" rules="" the=""></same></li> <li>104. Hatch covers [See Guidance]</li> <li>1. Hatch covers on exposed decks are to be weathertight.  Hatch covers in closed superstructures need not be weathertight.  However, hatch covers fitted in way of ballast tanks, fuel oil tanks or other tanks are to be watertight.</li> </ul>		
2. In the case of sand carriers and dredgers, hatchway covers may be omitted at the discretion of the Society.	2. In the case of sand carriers and dredgers, hatchway covers may be omitted at the discretion of the Society.	
3. <newly added=""> <hereafter, as="" present="" rules="" same="" the=""></hereafter,></newly>		provisions of Guidelines for the Assignment of Reduced
	<hereafter, as="" present="" rules="" same="" the=""></hereafter,>	Freeboards for Dredgers

Present	Amendment	Reason
CHAPTER 3 BOW DOORS, SIDE AND STERN DOORS  Section 2 Side and Stern Doors	CHAPTER 3 BOW DOORS, SIDE AND STERN DOORS  Section 2 Side and Stern Doors	
201. General	201. General	
1. <same as="" present="" rules="" the=""></same>	1. <same as="" present="" rules="" the=""></same>	
2. Arrangement	2. Arrangement	
<ul> <li>(1) Stern doors for passenger vessels are to be situated above the freeboard deck. Stern doors for ro-ro cargo ships and side shell doors may be either below or above the freeboard deck.</li> <li>(2) The side and stern doors are to be so fitted as to ensure tightness and structural integrity commensurate with their location and the surrounding structure.</li> <li>(3) In general, the lower edge of door openings is not to be below a line drawn parallel to the freeboard deck at side, which has at its lowest point the upper edge of the uppermost load line.</li> <li>(4) Where side door and stern door are unavoidably provided below the line as stipulated in above (3), the following conditions are to be satisfied.</li> <li>(A) Compartment being equivalent to watertight-bulkhead in strength and watertightness is to be provided and the second door is to be fitted for the compartment.</li> <li>(B) Detecting device for sea water leakage is to be provided in the compartment and drainage means of the compartment with a screw-down stop valve capable of being controlled from easily accessible position is to be provided.</li> <li></li></ul>		

Present	Amendment	Reason
CHAPTER 8 EQUIPMENT NUMBER AND EQUIPMENT	CHAPTER 8 EQUIPMENT NUMBER AND EQUIPMENT	
Section 9 Rectangular Windows	Section 9 Rectangular Windows	
901. ~ 902. <same as="" present="" rules="" the=""></same>	901. ~ 902. <same as="" present="" rules="" the=""></same>	
The construction and dimensions of the main parts of the rectangular windows are to be in accordance with the requirements in the following Sub-paragraphs and are determined in <b>Table 4.8.27</b> and <b>Table 4.8.28</b> in accordance with their nominal diameters and classes.  (1) ~ (5) <same as="" present="" rules="" the="">  (6) <newly added=""> <hereafter, as="" present="" rules="" same="" the=""></hereafter,></newly></same>	The construction and dimensions of the main parts of the rectangular windows are to be in accordance with the requirements in the following Sub-paragraphs and are determined in <b>Table 4.8.27</b> and <b>Table 4.8.28</b> in accordance with their nominal diameters and classes.  (1) ~ (5) <same as="" present="" rules="" the="">  (6) For laminated toughened safety glass, the total required thickness, in mm, shall be in accordance with the following formula: (2020)</same>	
	$\frac{t_i}{t_i}$ : thickness of each glass pane layer in the laminate in mm	
	$t_{\text{max}}$ : the largest thickness of the n panes in mm  The minimum thickness however for any glass pane layer is not to be less than 4 mm.	
	<hereafter, as="" present="" rules="" same="" the=""></hereafter,>	

Present	Amendment	Note
Part 4 <rules></rules>	Part 4 <rules></rules>	
CHAPTER 2 HATCHWAY AND OTHER DECK OPENINGS	CHAPTER 2 HATCHWAY AND OTHER DECK OPENINGS	
Section 1 General	Section 1 General	
101. Application	101. Application	
<ol> <li>The requirements apply to all ships except bulk carriers, ore carriers and combination carriers and are for hatch covers and coaming in position 1 and 2 on weather decks. The requirements in Ch 9. apply to steel hatch covers of small hatches fitted on the exposed fore deck. [See Guidance]</li> <li>The construction and means for securing the weathertightness of cargo and other hatchways in position 1 and 2 as defined 102. shall be equivalent to the requirements of hatchways closed by weathertight covers of steel or other equivalent materials, unless approved by the Administration.</li> <li>101. ~ 107. <omission></omission></li> </ol> Section 2 ~ Section 7 <omission></omission>	<ol> <li>The requirements apply to all ships except bulk carriers, SUBC(Self-Unloading Bulk Carrier), ore carriers and combination carriers and are for hatch covers and coaming in position 1 and 2 on weather decks. The requirements in Ch 9. apply to steel hatch covers of small hatches fitted on the exposed fore deck. [See Guidance]</li> <li>The construction and means for securing the weathertightness of cargo and other hatchways in position 1 and 2 as defined 102. shall be equivalent to the requirements of hatchways closed by weathertight covers of steel or other equivalent materials, unless approved by the Administration.</li> <li>101. ~ 107. <omission></omission></li> </ol> Section 2 ~ Section 7 <omission></omission>	- IACS UR S21A (Corr.2)

## Amended Guidance Relating to the Rules for the Classification of Steel Ships (Part 4 Hull Equipment)



Present	Amendment	Reason
CHAPTER 1 RUDDERS	CHAPTER 1 RUDDERS	
Section 7 Couplings between Rudder Stocks and Main Pieces	Section 7 Couplings between Rudder Stocks and Main Pieces	
701. ~ 702. <same as="" present="" rules="" the=""></same>	701. ~ 702. <same as="" present="" rules="" the=""></same>	
703. Cone coupling [See Rule]	703. Cone coupling [See Rule]	
1. General	1. General_(2020)	
<ol> <li>(1) The lower stock is to be securely connected to the rudder body with slugging nuts or hydraulic arrangements. Shipbuilders are to submit data on this connection to the Society.</li> <li>(2) Special attention is to be paid to corrosion of the lower stock.</li> <li>(3) The minimum thickness t<sub>h</sub> is of the cast steel part of rudder body (See Fig 4.1.12 of the Guidance) not to be less than 0.25 times the required diameter of the lower stock.</li> </ol>	<ul> <li>(1) The lower stock is to be securely connected to the rudder body with slugging nuts or hydraulic arrangements. Shipbuilders are to submit data on this connection to the Society.</li> <li>(2) Special attention is to be paid to corrosion of the lower stock.</li> <li>(3) The minimum thickness t<sub>b</sub> is of the cast steel part of rudder body (See Fig 4.1.12 of the Guidance) not to be less than 0.25 times the required diameter of the lower stock.</li> </ul>	- deleted because it conflicts with the provisions of 703 2 (6)
Rudder main pieces	Rudder main pieces	
Fig 4.1.12 Coupling between rudder lower stock and rudder main pieces	Fig 4.1.12 Coupling between rudder lower stock and rudder main pieces	
<hereafter, as="" present="" rules="" same="" the=""></hereafter,>	<hereafter, as="" present="" rules="" same="" the=""></hereafter,>	