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2. USER’S GUIDE TO CLASSIFICATION TECHNICAL RULES

2.1 General

2.1.1 The purpose of this General has been prepared to introduce kinds, contents and user's guide for Classification Technical Rules published by Korean Register of Shipping (hereinafter called "the Society") to users.

2.1.2 Classification Technical Rules published by the Society are grouped into "Rules", which means all rules for the classification of ships, offshore installations and related equipment, etc., and "Guidance", which means rules prepared with the purpose of providing guidelines for the treatment of detailed contents during surveys carried out in accordance with the requirements in Rules. The list of Classification Technical Rules is given in 1.

2.1.3 Where the formulated or revised contents of classification rules are not too voluminous, or it is anticipated that the revised contents will become effective early, Circular Letter shall be published for users to know its contents easily, instead of printing complete volumes.

2.2 User’s Guide

2.2.1 Enforcement

Rules, in principle, shall come into force after 3 months from the approved date and "Major Changes and Effective Date" is recorded at the beginning of each Rule for ready use.

2.2.2 Format

"Rules for the Classification of Steel Ships" is composed of 13 parts and "Guidance Relating to the Rules for the Classification of Steel Ships" is composed of 11 parts.

"Rules for Offshore Structures" is composed of 3 kinds and "Guidance for Offshore Structures" is composed of 4 kinds.

"Other Rules" is composed of 7 kinds and "Other Guidance" is composed of 19 kinds.

2.3 Numbering System

2.3.1 "Rules for the Classification of Steel Ships" and "Guidance Relating to the Rules for the Classification of Steel Ships"

(1) In principle, the text consists of Part, Chapter, Section, Article, Paragraph, Sub-paragraph, (A), (a) and (i).

(2) An article consists of a section number and serial number, and the hundred means section number and the rest means serial number.

(e.g.) For eleventh article in Section 2: 211.

(3) The number of a figure or a table consists of part, chapter and serial number in each chapter. The figure number is placed in the center under the figure, and the table number is placed in the top left hand corner of the table.

(e.g.) For eighth figure in Chapter 7 of Part 3; Fig 3.7.8

For second table in Chapter 1 of Part 5; Table 5.1.2

2.3.2 Other Rules and Other Guidance

The same as 2.3.1
2.3.3 Classification Rules other than 2.3.1 and 2.3.2

(1) In principle, the text consists of Chapter, Section, Article, Paragraph, Sub-paragraph, (A), (a) and (i).

(2) The remainder are the same as those specified in 2.3.1. The number of a figure or of a table consists of chapter and serial number in each chapter.

(e.g.) For ninth figure in Chapter 3: Fig 3.9
For tenth table in Chapter 3: Table 3.10.

2.4 Cross-Reference to Articles and Paragraphs

2.4.1 "Rules for the Classification of Steel Ships" and "Guidance Relating to the Rules for the Classification of Steel Ships"

(1) Where a paragraph in any chapter is quoted from an other chapter in the same part, the chapter, relevant article and paragraph are written in sequence.

(e.g.) For rules: in Ch 1, 201. 1 (1), or in Ch 1, 201. 1 (1) of the Guidance.
For guidances: in Ch 1, 201. 1 (1) of the Rules, or in Ch 1, 201. 1 (1) of the Guidance.

(2) Where a paragraph in any part is quoted from an other part, the part, chapter, relevant article and paragraph are written in sequence.

(e.g.) For rules: in Pt 1, Ch 1, 201. 1 (1), or in Pt 1, Ch 1, 201. 1 (1) of the Guidance.
For guidances: in Pt 1, Ch 1, 201. 1 (1) of the Rules, or in Pt 1, Ch 1, 201. 1 (1) of the Guidance.

2.4.2 Classification Rules other than 2.4.1

Where the contents of any rules are quoted in the rules other than 2.4.1, the names of the rules, part, chapter, relevant article and paragraph are written.

(e.g.) Where Pt 1, Ch 2, 202. of "Rules for the Classification of Steel Ships" is quoted in "Rules for the Classification of Steel Barges": Pt 1, Ch 2, 202. of Rules for the Classification of Steel Ships.

2.5 Cross-Reference to Figures and Tables

2.5.1 "Rules for the Classification of Steel Ships" and "Guidance relating to the Rules for the Classification of Steel Ships"

(1) Where a figure or a table in any chapter is quoted from an other chapter in the same part, the number of the figure (or the table) is written.

(e.g.) For rules: in Fig 2.1.1 (or Table 2.1.1), or in Fig 2.1.1 (or Table 2.1.1) of the Guidance.
For guidances: in Fig 2.1.1 (or Table 2.1.1) of the Rules, or in Fig 2.1.1 (or Table 2.1.1) of the Guidance.

(2) Where a figure or a table is quoted from an other part, the part and the number of the figure (or the table) are written.

(e.g.) For rules: in Pt 2, Fig 2.1.1 (or Table 2.1.1), or in Pt 2, Fig 2.1.1 (or Table 2.1.1) of the Guidance.
For guidances: in Pt 2, Fig 2.1.1 (or Table 2.1.1) of the Rules, or in Pt 2, Fig 2.1.1 (or Table 2.1.1) of the Guidance.

2.5.2 Classification Rules other than 2.5.1

Where a figure or a table of any rules is quoted in the rules other than 2.5.1, the name of the rules, the part and the number of the figure (or the table) are written.

(e.g.) Where Pt 3, Fig 3.3.1 (or Table 3.3.1) of "Rules for the Classification of Steel Ships" is quoted in "Rules for the Classification of Steel Barges": in Pt 3, Fig 3.3.1 (or Table 3.3.1) of Rules for the Classification of Steel Ships.
2.6 Units

The SI-units (International System of Units) shown in 4. are generally used in Classification Rules. However, the MKS-units (Metric System of Units) may be used together with SI-units, at the discretion of the Society.
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<table>
<thead>
<tr>
<th>Quantity</th>
<th>SI Unit</th>
<th>Other Unit</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>mass</td>
<td>kg</td>
<td>t</td>
<td>1 t = 10^3 kg</td>
</tr>
<tr>
<td>density (mass density)</td>
<td>kg/m^3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>moment of inertia</td>
<td>kg·m^2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>force</td>
<td>N</td>
<td>kgf</td>
<td>1 kgf = 9.81 N</td>
</tr>
<tr>
<td>moment (torque)</td>
<td>N·m or N/m^2</td>
<td>kgf·m or kgf/mm^2</td>
<td>1 kgf·m = 9.81 N·m</td>
</tr>
<tr>
<td>stress</td>
<td>Pa or Pa/m^2</td>
<td>kgf/mm^2 or kgf/cm^2 or bar</td>
<td>1 kgf/mm^2 = 9.81 N/mm^2 = 9.81 MPa</td>
</tr>
<tr>
<td>pressure</td>
<td>Pa</td>
<td>kgf/cm^2 or bar</td>
<td>1 kgf/cm^2 = 0.981 bar = 98.1 kPa</td>
</tr>
<tr>
<td>work energy</td>
<td>J</td>
<td>kgf·m</td>
<td>1 kgf·m = 9.81 J</td>
</tr>
<tr>
<td>electric potential</td>
<td>J</td>
<td>kW·h</td>
<td>1 kW·h = 3.6 × 10^6 J</td>
</tr>
<tr>
<td>power</td>
<td>W</td>
<td>PS</td>
<td>1 PS = 735.5 W</td>
</tr>
<tr>
<td>temperature</td>
<td>K or °C</td>
<td>°C</td>
<td>x °C = (x + 273.15) K</td>
</tr>
<tr>
<td>quantity of heat</td>
<td>J</td>
<td>cal or kcal</td>
<td>1 kcal = 4.19 kJ</td>
</tr>
<tr>
<td>heat flow rate</td>
<td>W</td>
<td>kcal/h</td>
<td>1 kcal/h = 1.16 W</td>
</tr>
<tr>
<td>frequency</td>
<td>Hz</td>
<td>-</td>
<td>rpm = 60 /s</td>
</tr>
<tr>
<td>rotational frequency</td>
<td>s⁻¹</td>
<td>min⁻¹ (rpm)</td>
<td>1 rpm = 1852 m/h</td>
</tr>
<tr>
<td>velocity</td>
<td>m/s</td>
<td>knot</td>
<td>1 knot = 1852 m/h</td>
</tr>
<tr>
<td>plane angle</td>
<td>rad</td>
<td>' or &quot;</td>
<td>1° = \frac{\pi}{180} rad</td>
</tr>
</tbody>
</table>
5. LOAD LINE MARKS

(1) Assignment of Load Line
The Society is authorized to assign Load Lines to vessels registered by the Korean Government and other Governments.

(2) Load Line Mark for Ocean Going Vessels without Timber Load Line
The centre of the ring is to be placed on each side of the ship at the middle of the length as defined in the International Convention on Load Lines, 1966. The ring, lines and letters are to be painted in white or yellow on a dark ground or in black on a light ground. They are also to be permanently marked on the sides of the ship as shown in Fig 1.

(3) Load Line Mark for Ocean Going Vessels with Timber Load Line
The centre of the ring is to be placed on each side of the ship at the middle of the length as defined in the International Convention on Load Lines, 1966. The ring, lines and letters are to be painted in white or yellow on a dark ground or in black on a light ground. They are also to be permanently marked on the sides of the ship as shown in Fig 2.
(4) For Korean flagged vessels which are over 12 m and for domestic voyage, the load line mark is to be as shown in Fig 3. Marking method refers to (2). However, for the vessels navigating solely on lakes and rivers sub-paragraph (5) may be applied.

(5) For Korean flagged passenger vessels and dangerous cargo carriers which are less than 12 m in length and for domestic voyage, the load line mark is to be as shown in Fig 4. Marking method refers to (2).

(6) For Korean flagged fishing vessels, the load line mark is to be as shown in Fig 5. Marking method refers to (2).
(7) For Korean flagged high speed crafts which are less than 12 m in length and for domestic voyage, the load line mark is to be as shown in **Fig 6** Marking method refers to (2).

(8) For Korean flagged high speed crafts which are over 12 m in length and for domestic voyage, the load line mark is to be as shown in **Fig 7** Marking method refers to (2).
(9) For high speed craft subject to 2000 HSC Code engaged in international voyage, the load line mark is to be as shown in Fig 8. Marking method refers to (2).
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