

# **RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

**Part CS**

## **Hull Construction and Equipment of Small Ships**

**Rules for the Survey and Construction of Steel Ships**

**Part CS**

**2012 AMENDMENT NO.1**

**Guidance for the Survey and Construction of Steel Ships**

**Part CS**

**2012 AMENDMENT NO.1**

Rule No.29 / Notice No.43

15th June 2012

Resolved by Technical Committee on 10th February 2012

Approved by Board of Directors on 6th March 2012

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# **RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

**RULES**

**Part CS**

**Hull Construction and Equipment of  
Small Ships**

## **2012 AMENDMENT NO.1**

Rule No.29      15th June 2012

Resolved by Technical Committee on 10th February 2012

Approved by Board of Directors on 6th March 2012

AMENDMENT TO THE RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Rules for the survey and construction of steel ships” has been partly amended as follows:

**Part CS      HULL CONSTRUCTION AND EQUIPMENT OF SMALL SHIPS**

Amendment 1-1

**Chapter 8    CANTILEVER BEAM CONSTRUCTION**

**8.1      Cantilever Beams**

Paragraph 8.1.1 has been amended as follows.

**8.1.1    Construction and Scantlings**

Cantilever beams are to comply with the requirements in (1) to (~~6~~7):

((1) to (6) are omitted)

(7) Cantilever beams supporting hatch covers on lower decks are to comply with the requirements in (a) and (b):

(a) The leg length of the fillet welds between webs and hatch side girders is to be  $F1$ .

(b) Where the stiffeners are provided to prevent web plates from buckling, consideration is to be given to the arrangement of the ends of such stiffeners to ensure that there are no stress concentrations at the connections between web plates and the members supporting hatch covers on lower decks.

**EFFECTIVE DATE AND APPLICATION (Amendment 1-1)**

1. The effective date of the amendments is 15 December 2012.
2. Notwithstanding the amendments to the Rules, the current requirements may apply to ships for which the date of contract for construction is before the effective date.

## Chapter 22 CEILINGS, SPARRINGS, CEMENTING AND PAINTING

### 22.4 Painting

Paragraph 22.4.2 has been amended as follows.

#### 22.4.2 Protective Coatings in Dedicated Seawater Ballast Tanks and Double-side Skin Spaces

For dedicated seawater ballast tanks of all type of ships of not less than 500 *gross tonnage* engaged on international voyages, the requirements are to be complied with “*PERFORMANCE STANDARD FOR PROTECTIVE COATINGS FOR DEDICATED SEAWATER BALLAST TANKS IN ALL TYPE OF SHIPS AND DOUBLE-SIDE SKIN SPACES OF BULK CARRIERS*” (*IMO Performance Standard for Protective Coatings for Seawater Ballast Tanks, etc. / IMO resolution MEPC.215(82)* as may be amended).

Paragraph 22.4.3 has been added as follows.

#### 22.4.3 Corrosion Protection for Cargo Oil Tanks

Corrosion protection in accordance with the following (1) or (2) is to be applied to the cargo oil tanks of crude oil tankers of not less than 5,000 tonnes deadweight engaged on international voyages:

- (1) Coatings in accordance with the “*PERFORMANCE STANDARD FOR PROTECTIVE COATINGS FOR CARGO OIL TANKS OF CRUDE OIL TANKERS*” (*IMO Performance Standard for Protective Coatings for Cargo Oil Tanks / IMO resolution MSC.288(87)* as may be amended); or
- (2) Alternative means in accordance with the “*PERFORMANCE STANDARD FOR ALTERNATIVE MEANS OF CORROSION PROTECTION FOR CARGO OIL TANKS OF CRUDE OIL TANKERS*” (*IMO Performance Standard for Alternative Means of Corrosion Protection for Cargo Oil Tanks / IMO resolution MSC.289(87)* as may be amended).

#### EFFECTIVE DATE AND APPLICATION (Amendment 1-2)

1. The effective date of the amendments is 1 January 2013.
2. Notwithstanding the amendments to the Rules, the current requirements may apply to ships other than ships that fall under the following:
  - (1) for which the building contract is placed on or after 1 January 2013; or
  - (2) in the absence of a building contract, the keels of which are laid or which are at *a similar stage of construction* on or after 1 July 2013; or(Note) The term “*a similar stage of construction*” means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 tonnes or 1% of the estimated mass of all structural material, whichever is the less.
  - (3) the delivery of which is on or after 1 January 2016

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# **GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS**

**Part CS**

**Hull Construction and Equipment of  
Small Ships**

**GUIDANCE**

**2012 AMENDMENT NO.1**

Notice No.43      15th June 2012

Resolved by Technical Committee on 10th February 2012

Notice No.43 15th June 2012

# AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Guidance for the survey and construction of steel ships” has been partly amended as follows:

## Part CS HULL CONSTRUCTION AND EQUIPMENT OF SMALL SHIPS

### Appendix 1 APPLICATION OF PART C OF THE GUIDANCE

Table CS has been amended as follows.

Table CS Correspondence Table of Guidance between Part CS and Part C

Part CS	Part C	Part CS	Part C	Part CS	Part C
1.1.3	<b>C1.1.3</b> [See Note 1]	13.3	<b>C13.3</b>	21.1.1	<b>C23.1.1</b> [See Note 16]
1.3.1	<b>C1.1.7</b> <b>C1.1.11</b> and <b>C1.1.12</b>	14.1.3	<b>C14.1.3</b>	21.1.2	<b>C23.1.2</b> [See Note 17]
		14.2.3	<b>C14.2.3</b>	21.1.3	<b>C23.1.3</b> [See Note 18]
		15.1.1	<b>C15.1.1</b>	21.2.1	<b>C23.2.1</b> [See Note 19]
2.1.1	<b>C2.1.1</b>	15.2.1	<b>C15.2.1</b>	21.2.2	<b>C23.2.2</b> [See Note 20]
2.2.2	<b>C2.2.2</b>	15.2.3	<b>C15.2.3</b>	21.2.3	<b>C23.2.3</b>
2.2.3	<b>C2.2.3</b>	15.3	<b>C15.4.1-2</b>	21.3	<b>C23.3</b>
2.2.4	<b>C2.2.4</b>	16.3.3	<b>C16.3.3</b>	21.4	<b>C23.4</b> [See Note 21]
3	<b>C3</b>	16.4.4	<b>C16.4.4</b>	21.5.1	<b>C23.5.1</b>
4	<b>C4</b>	16.5.3	<b>C16.6.1</b>	21.5.3	<b>C23.5.3</b> [See Note 22]
5	<b>C5</b>	16.6.1	<b>C16.7.1</b>	21.5.7	<b>C23.5.7</b> [See Note 23]
6.1.1	<b>C6.1.1-1</b> and <b>-2</b>	16.6.2	<b>C16.7.2</b>	21.6.5	<b>C23.6.5</b> [See Note 24]
6.6.2-1	<b>C6.4.3-2</b>	17.1.1-1	<b>C10.2.1</b> [See Note 7]	21.6.7	<b>C23.6.7</b> [See Note 25]
6.7.1	<b>C6.5.1-1</b> and <b>-4</b>	17.2.1	<b>C17.1.1</b>	21.7.1	<b>C23.7.1</b> [See Note 26]
6.9	<b>C6.8</b>	17.2.2	<b>C17.1.2</b>	21.7.2	<b>C23.7.2</b>
7.5.2	<b>C7.6.2</b> [See Note 2]	17.2.4	<b>C17.1.4</b> [See Note 8]	21.8.1	<b>C23.8.1</b> [See Note 27]
7.5.3	<b>C7.6.3</b> [See Note 3]	17.2.5	<b>C17.1.5</b>	22.2.1	<b>C24.2.1</b>
8.3	<b>C7.5.3</b>	17.3.2	<b>C17.2.2</b>	22.4.1	<b>C25.2.1</b> [See Note 28]
9.1.2	<b>C9.1.2</b> [See Note 4]	17.3.4	<b>C17.2.4</b>	22.4.2	<b>C25.2.2</b>
9.1.3	<b>C9.1.3</b>	17.3.5	<b>C17.2.5</b>	<del>22.4.3</del>	<del><b>C25.2.3</b></del> [See Note 29]
10.1.2	<b>C10.1.2</b>	17.4.1	<b>C17.3.1</b>	23.1.2	<b>C27.1.2</b>
10.2.3	<b>C10.3.3</b> [See Note 5]	17.4.5	<b>C17.3.5</b>	23.1.5	<b>C27.1.5</b> and <b>C27.1.6</b> [See Note <del>29</del> <b>30</b> ]
10.3.2	<b>C10.4.2</b>	18	<b>C18</b>		
10.7.1	<b>C10.9.1</b>	19.2.4	<b>C20.2.4</b> [See Note 9]	23.1.6	<b>C27.1.7</b>
11.1.2	<b>C11.1.2</b>	19.2.5	<b>C20.2.5</b> [See Note 10]	23.2	<b>C27.2</b>
11.2.1	<b>C11.2.1</b>	19.2.6	<b>C20.2.6</b> [See Note 11]	24.1.1	<b>C29.1.1</b> [See Note <del>30</del> <b>31</b> ] [See Note <del>31</del> <b>32</b> ]
12.1.3	<b>C12.1.3</b>	19.2.10	<b>C20.2.10</b> [See Note 12]		
12.1.4	<b>C12.1.4</b>	19.2.12	<b>C20.2.12</b> [See Note 13]	24.1.2	<b>C29.1.2</b> [See Note <del>32</del> <b>33</b> ]
12.2.1	<b>C12.2.1</b> [See Note 6]	19.2.13	<b>C20.2.13</b> [See Note 14]	24.3.2	<b>C29.4.2</b>
13.1.1	<b>C13.1.1</b>	19.3.5	<b>C20.3.5</b> [See Note 15]	24.11.5	<b>C29.12.4</b>
13.1.4	<b>C13.1.4</b>	19.4.2	<b>C20.4.2</b>	25.1.2	<b>C34.1.2</b> [See Note <del>33</del> <b>34</b> ]
13.2.3	<b>C13.2.3</b>	20.2.2	<b>C21.2.2</b>	26	<b>C35</b>

Notes :

1. In Guidance **C1.1.3-2(2)(a)**, **5.5.2**, **Part C** of the Rules is to read as **5.4.3**, **Part CS** of the Rules.

- In Guidance **C1.1.3-2(2)(c)**, **10.2.1-2, Part C** of the Rules is to read as **17.1.1-2, Part CS** of the Rules.
- In Guidance **C1.1.3-2(2)(g)**, **20.1.2, Part C** of the Rules is to read as **19.1.2, Part CS** of the Rules.
2. In Guidance **C7.6.2, 7.6.2, Part C** of the Rules is to read as **7.5.2, Part CS** of the Rules.
  3. In Guidance **C7.6.3, 7.6.2-2, 7.7.1 and 7.8.1, Part C** of the Rules are to read as **7.5.2-1, 7.6.1 and 7.6.3, Part CS** of the Rules.
  4. In Guidance **C9.1.2, 9.2.2-2(2), Part C** of the Rules is to read as **9.2.2-5, Part CS** of the Rules.
  5. In Guidance **C10.3.3, 10.3.3-1 and 10.3.3-2, Part C** of the Rules are to read as **10.2.3-1 and 10.2.3-2, Part CS** of the Rules.
  6. In Guidance **C12.2.1, 12.2.1-1 and 12.2.1-2, Part C** of the Rules are to read as **12.2.1-1 and 12.2.1-2, Part CS** of the Rules.
  7. In Guidance **C10.2.1, 10.2.1-1, Part C** of the Rules is to be read as **17.1.1-1, Part CS** of the Rules.
  8. In Guidance **C17.1.4, 17.1.4-2, Part C** of the Rules is to be read as **17.2.4-2, Part CS** of the Rules.
  9. In Guidance **C20.2.4, 20.2.4, Part C** of the Rules is to be read as **19.2.4, Part CS** of the Rules.
  10. In Guidance **C20.2.5, 20.2.4 and 20.2.5, Part C** of the Rules are to be read as **19.2.4 and 19.2.5, Part CS** of the Rules.
  11. In Guidance **C20.2.6, 20.2, 20.2.4, 20.2.6 and 20.2.5, Part C** of the Rules are to be read as **19.2, 19.2.4, 19.2.6 and 19.2.5, Part CS** of the Rules.
  12. In Guidance **C20.2.10, 20.2.10-2, Part C** of the Rules is to be read as **19.2.10-2, Part CS** of the Rules.
  13. In Guidance **C20.2.12, 20.2.12, Part C** of the Rules is to be read as **19.2.12, Part CS** of the Rules.
  14. In Guidance **C20.2.13, 20.2.13, Part C** of the Rules is to be read as **19.2.13, Part CS** of the Rules.
  15. In Guidance **C20.3.5, 20.3.5, Part C** of the Rules is to read as **19.3.5, Part CS** of the Rules.
  16. In Guidance **C23.1.1, 23.1.1-2(2), Part C** of the Rules is to read as **21.1.1-2(2), Part CS** of the Rules.
  17. In Guidance **C23.1.2, 23.1.2, Part C** of the Rules is to read as **21.1.2, Part CS** of the Rules.
  18. In Guidance **C23.1.3, 23.1.3-4, Part C** of the Rules is to read as **21.1.3-4, Part CS** of the Rules.
  19. In Guidance **C23.2.1, 23.2.1-3, 23.2.1-4 and 23.2.2-4, Part C** of the Rules are to read as **21.2.1-3, 21.2.1-4 and 21.2.2-4, Part CS** of the Rules.
  20. In Guidance **C23.2.2, 23.2.2, 23.2.2-1, 23.2.2-2 and 23.2.2-3, Part C** of the Rules are to read as **21.2.2, 21.2.2-1, 21.2.2-2 and 21.2.2-3, Part CS** of the Rules.
  21. In Guidance **C23.4.5-2, “L”** is to read as **“L”**. *L* is ship’s length specified in **2.1.2, Part A** of the Rules.
  22. In Guidance **C23.5.3, 23.5.3-5, Part C** of the Rules is to read as **21.5.3-5, Part CS** of the Rules.
  23. In Guidance **C23.5.7, 23.5.7-3, Part C** of the Rules is to read as **21.5.7-3, Part CS** of the Rules.
  24. In Guidance **C23.6.5, 23.6.5 and 23.6.5-1, Part C** of the Rules are to read as **21.6.5 and 21.6.5-1, Part CS** of the Rules.
  25. In Guidance **C23.6.7, 23.6.7 and 23.6.1, Part C** of the Rules are to read as **21.6.7 and 21.6.1, Part CS** of the Rules.
  26. In Guidance **C23.7.1, Chapter 19, 23.1.2-2 and 23.7.1, Part C** of the Rules are to read as **Chapter 18, 21.1.2-2 and 21.7.1, Part CS** of the Rules.
  27. In Guidance **C23.8.1, 23.8.1, Part C** of the Rules is to read as **21.8.1, Part CS** of the Rules.
  28. Ships not engaged on international voyages need not to apply the provisions of **C25.2.1-2**.
  29. In Guidance **C25.2.3, 25.2.3, Part C** of the Rules is to be read as **22.4.3, Part CS** of the Rules.
  - ~~29~~30. The title of Guidance **C27.1.6** is to read as “Tow Lines”.
  - ~~30~~1. In Guidance **C29.1.1-1(1), Chapter 29, Part C** of the Rules is to read as **Chapter 24, Part CS** of the Rules.
  - ~~31~~2. In Guidance **C29.1.1-3(1)(b)i), 29.4, 29.5 and 29.6, Part C** of the Rules are to read as **24.3, 24.4 and 24.7, Part CS** of the Rules.
  - ~~32~~3. In Guidance **C29.1.2-4(1), 29.1.2-2, Part C** of the Rules is to read as **24.1.2-2, Part CS** of the Rules.
  - ~~33~~4. In Guidance **C34.1.2, 34.1.2-1, Part C** of the Rules is to read as **25.1.2-1, Part CS** of the Rules.

## EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 1 January 2013.
2. Notwithstanding the amendments to the Guidance, the current requirements may apply to ships other than ships that fall under the following:
  - (1) for which the building contract is placed on or after 1 January 2013; or
  - (2) in the absence of a building contract, the keels of which are laid or which are at *a similar stage of construction* on or after 1 July 2013; or

(Note) The term “*a similar stage of construction*” means the stage at which the construction identifiable with a specific ship begins and the assembly of that ship has commenced comprising at least 50 *tonnes* or 1% of the estimated mass of all structural material, whichever is the less.

  - (3) the delivery of which is on or after 1 January 2016