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 ShipsPart CS2014AMENDMENT NO.1Guidance for the Survey and Construction of Steel Ships
Part CS2014AMENDMENT NO.1

Rule No.55 / Notice No.4030th June 2014Resolved by Technical Committee on 4th February 2014Approved by Board of Directors on 24th February 2014



RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS



Hull Construction and Equipment of Small Ships

2014 AMENDMENT NO.1

Rule No.5530th June 2014Resolved by Technical Committee on 4th February 2014Approved by Board of Directors on 24th February 2014

Rule No.55 30th June 2014 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

Chapter 1 GENERAL

1.3 Materials, Scantlings, Welding and End Connections

Table CS1.1 has been amended as follows.

Table CS1.1	Application of Mild Steels for Various Structural Members
	reprivation of which blocks for various bractural wiembers

Odana adalara 1. seconda a	Application	Thickness of plate : $t(mm)$ 15 (c) 20 (c) 20 (c)					
Structural member		<i>t</i> ≦15	$15 \le t$ ≤ 20	$20 \le t$ ≤ 25	$25 \le t$ ≤ 30	$30 \le t$ ≤ 40	$\begin{array}{l}40 < t\\ \leq 50\end{array}$
	01 11 1		≧20	≥ 23	<u>⇒</u> 30	<u>⊇</u> 40	≥30
	Shell plating	5					
Sheer strake at strength deck							
Side plating	(Omitted)						
Bilge strake	(Oninted)						
Bottom plating including keel plate							
	Deck plating	3					
Stringer plate in strength deck							
Strength deck strake adjoining to longitudinal bulkhead							
Strength deck at cargo hatch corner	(Omitted)						
Strength deck other than mentioned above							
Deck plating exposed to weather, in general							
Longitudinal Bulkhead							
Upper strake in longitudinal bulkhead adjoining to strength deck Lower strake in longitudinal bulkhead adjoining to bottom plate	(Omitted)						
Longitudinals							
Upper strake in sloping plate of topside tank adjoining to strength deck	within 0.4 <i>L</i> amidship	A	l	В	Ι)	E
Longitudinal <u>plating</u> members above strength deck including <u>end</u> bracket and face plate of longitudinal s <u>girders</u>	within 0.4 <i>L</i> amidship	A	l	В	Ι)	Ε

Table CS1.1 Appli	cation of white steers for	various	Siluciu			ontinuc	u)
		Thickness of plate : <i>t</i> (<i>mm</i>)					
Structural member	Application	<i>t</i> ≦15	$15 < t \\ \leq 20$	$20 \le t$ ≤ 25	$25 \le t$ ≤ 30	$30 \le t$ ≤ 40	$\begin{array}{l}40 < t\\ \leq 50\end{array}$
	Cargo Hate	h					
Face plate and web of eCargo hatch coaming longitudinally extended on the strength deck over 0.15L (including face plate and its flange, but excluding other stiffeners)	within 0.4 <i>L</i> amidship	A		В	D		E
Hatch cover	—	1		Α		В	D
Stern							
Stern frame, rudderhorn, shaft bracket	(Omitted)						
Rudder							
Rudder Plate	(Omitted)						
	Other						
Other members than those mentioned above (including stiffeners)				1	4		
(Notes)							

Table CS1.1 Application of Mild Steels for Various Structural Members (continued)

(Notes)

1. A, B, D, E refer to the following grades of steel:

 $\underline{A:KA} \quad \underline{B:KB} \quad \underline{D:KD} \quad \underline{E:KE}$

2. Where the strength deck strake adjoined to the inner skin bulkhead of double hull ships is not a deck stringer plate, the deck strake may be treated as an ordinary strength deck strake.

Table CS1.2 has been amended as follows.

Table CS1.2	Application of High Tensile	Steels IC	or vario	us Struc		lembers		
		Thickness of plate : <i>t</i> (<i>mm</i>)						
Structural member	Application	<i>t</i> ≦15	$15 < t \\ \leq 20$	$20 \le t$ ≤ 25	$\begin{array}{c} 25 < t \\ \leq 30 \end{array}$	$30 \le t$ ≤ 40	$\begin{array}{c} 40 < t \\ \leq 50 \end{array}$	
	Shell plating	3						
Sheer strake at strength deck								
Side plating								
Bilge strake	(Omitted)							
Bottom plating including								
keel plate								
	Deck plating	3						
Stringer plate in strength deck								
Strength deck strake								
adjoining to longitudinal								
bulkhead								
Strength deck at cargo hatch	(Omitted)							
corner	1							
Strength deck other than								
mentioned above Deck plating exposed to	4							
weather, in general								
	Longitudinal Bul	khead						
Upper strake in longitudinal	Bongrounnar Ban							
bulkhead adjoining to								
strength deck	(Omitted)							
Lower strake in longitudinal	(Onlined)							
bulkhead adjoining to								
bottom plate								
T T . 1 . 1 . 1 .	Longitudina	S						
Upper strake in sloping plate of topside tank adjoining to	within 0.4 <i>L</i> amidship		AH		ת	H	EH	
strength deck			АП			11	ЕП	
Longitudinal plating								
members above strength								
deck including end bracket	within 0.4L amidship		AH		D	H	EH	
and face plate of								
longitudinal s girders								
Cargo Hatch								
Face plate and web of								
<u>eCargo</u> hatch coaming longitudinally extended on								
the strength deck over $0.15L$	within 0.4 <i>L</i> amidship		AH		מ	H	EH	
(including face plate and its	Part of the second seco							
flange, but excluding other								
stiffeners)								
Hatch cover	—			AH			DH	

Table CS1.2 Application of High Tensile Steels for Various Structural Members

		101 100				5 (1 0110		
	Application	Thickness of plate : <i>t</i> (<i>mm</i>)						
Structural member		<i>t</i> ≦15	15 < <i>t</i>	20< <i>t</i>	25 <t< td=""><td>30<<i>t</i></td><td>40<<i>t</i></td></t<>	30< <i>t</i>	40< <i>t</i>	
			≤ 20	≦25	≤ 30	≤ 40	\leq 50	
	Stern							
Stern frame, rudderhorn, shaft bracket	(Omitted)							
Rudder								
Rudder Plate	(Omitted)							
Other								
Other members than those mentioned above (including stiffeners)				A	Н			

Table CS1.2 Application of High Tensile Steels for Various Structural Members (continued)

(Notes)

A, B, D, E in Table CS1.1 and AH, DH, EH in Table CS1.2 refer to the following grades of steel:
 (1) A: KA, B: KB, D: KD, E: KE

(2) *AH* : *KA*32, *KA*36 and *KA*40, *DH* : *KD*32, *KD*36 and *KD*40, *EH* : *KE*32, *KE*36 and *KE*40

2. Where the strength deck strake adjoined to the inner skin bulkhead of double hull ships is not a deck stringer plate, the deck strake may be treated as an ordinary strength deck strake.

EFFECTIVE DATE AND APPLICATION

- **1.** The effective date of the amendments is 1 July 2014.
- 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.
 - * "contract for construction" is defined in the latest version of IACS Procedural Requirement (PR) No.29.

IACS PR No.29 (Rev.0, July 2009)

- 1. The date of "contract for construction" of a vessel is the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. This date and the construction numbers (i.e. hull numbers) of all the vessels included in the contract are to be declared to the classification society by the party applying for the assignment of class to a newbuilding.
- 2. The date of "contract for construction" of a series of vessels, including specified optional vessels for which the option is ultimately exercised, is the date on which the contract to build the series is signed between the prospective owner and the shipbuilder. For the purpose of this Procedural Requirement, vessels built under a single contract for construction are considered a "series of vessels" if they are built to the same approved plans for classification purposes. However, vessels within a series may have design alterations from the original design provided:
 - (1) such alterations do not affect matters related to classification, or
 - (2) If the alterations are subject to classification requirements, these alterations are to comply with the classification requirements in effect on the date on which the alterations are contracted between the prospective owner and the shipbuilder or, in the absence of the alteration contract, comply with the classification requirements in effect on the date on which the alterations are submitted to the Society for approval.

The optional vessels will be considered part of the same series of vessels if the option is exercised not later than 1 year after the contract to build the series was signed.

- **3.** If a contract for construction is later amended to include additional vessels or additional options, the date of "contract for construction" for such vessels is the date on which the amendment to the contract, is signed between the prospective owner and the shipbuilder. The amendment to the contract is to be considered as a "new contract" to which **1.** and **2.** above apply.
- 4. If a contract for construction is amended to change the ship type, the date of "contract for construction" of this modified vessel, or vessels, is the date on which revised contract or new contract is signed between the Owner, or Owners, and the shipbuilder.

Note:

This Procedural Requirement applies from 1 July 2009.

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS



Hull Construction and Equipment of Small Ships

2014 AMENDMENT NO.1

Notice No.4030th June 2014Resolved by Technical Committee on 4th February 2014

Notice No.40 30th June 2014 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

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In Table CS, the row of

21.6.8	C23.6.8	
		"

has been added under the row of "

21.6.7 **C23.6.7**[See Note 25]

EFFECTIVE DATE AND APPLICATION

- **1.** The effective date of the amendments is 1 July 2014.
- 2. Notwithstanding the amendments to the Guidance, the current requirements may apply to ships for which the date of contract for construction* is before the effective date.
 - * "contract for construction" is defined in the latest version of IACS Procedural Requirement (PR) No.29.

IACS PR No.29 (Rev.0, July 2009)

- 1. The date of "contract for construction" of a vessel is the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. This date and the construction numbers (i.e. hull numbers) of all the vessels included in the contract are to be declared to the classification society by the party applying for the assignment of class to a newbuilding.
- 2. The date of "contract for construction" of a series of vessels, including specified optional vessels for which the option is ultimately exercised, is the date on which the contract to build the series is signed between the prospective owner and the shipbuilder. For the purpose of this Procedural Requirement, vessels built under a single contract for construction are considered a "series of vessels" if they are built to the same approved plans for classification purposes. However, vessels within a series may have design
 - alterations from the original design provided:
 - (1) such alterations do not affect matters related to classification, or
 - (2) If the alterations are subject to classification requirements, these alterations are to comply with the classification requirements in effect on the date on which the alterations are contracted between the prospective owner and the shipbuilder or, in the absence of the alteration contract, comply with the classification requirements in effect on the date on which the alterations are submitted to the Society for approval.

The optional vessels will be considered part of the same series of vessels if the option is exercised not later than 1 year after the contract to build the series was signed.

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- 4. If a contract for construction is amended to change the ship type, the date of "contract for construction" of this modified vessel, or vessels, is the date on which revised contract or new contract is signed between the Owner, or Owners, and the shipbuilder.

Note:

This Procedural Requirement applies from 1 July 2009.