

Amended Other Rules and Guidance

Dredgers



Present	Amendment	Remark
<p style="text-align: center;">CHAPTER 1 GENERAL</p> <p style="text-align: center;">Section 1 General</p> <p>101. Application</p> <p>1. The requirements are to apply to non self-propelled dredgers of 150 meters in length or less in accordance with the requirements in Pt 1, Ch 1, Sec 13 of the Rules for the Classification of Steel Ships.</p> <p>2. A self-propelled dredger which is intended to be registered by this Society is to be subjected to the Rules for the Classification of Steel Ships. However, the hopper structures may be subjected to this Rules.</p> <p>3. <newly added></p> <p>102. <same as the present Rules></p> <p>103. Equivalents</p> <p><u>The hull structures, outfitting, machinery(including electric installations-hereafter referred the same), arrangements and scantlings, the requirements for which are not specified in the Rules, are to be regarded to be in compliance with the Rules if recognized by this Society as equivalents to the requirements of the Rules.</u></p> <p><hereafter, same as the present Rules></p>	<p style="text-align: center;">CHAPTER 1 GENERAL</p> <p style="text-align: center;">Section 1 General</p> <p>101. Application</p> <p>1. The requirements are to apply to non self-propelled dredgers of 150 meters in length or less in accordance with the requirements in Pt 1, Ch 1, Sec 13 of the Rules for the Classification of Steel Ships.</p> <p>2. A self-propelled dredger which is intended to be registered by this Society is to be subjected to the Rules for the Classification of Steel Ships. However, the hopper structures may be subjected to this Rules.</p> <p><u>3. For hopper structure self-propelled dredger intended to be assigned reduced freeboards for dredging on the coastal area, it is to be in accordance with the relevant requirements in Annex 1 of the Guidance. (2020)</u></p> <p>102. <same as the present Rules></p> <p>103. Equivalents</p> <p><u>The equivalence of alternative and novel features which deviate from or are not directly applicable to the Rules is to be in accordance with Pt 1, Ch 1 of the Rules for the Classification of Steel Ships. (2020)</u></p> <p><hereafter, same as the present Rules></p>	<p>* Specified the regulation that apply to dredger (intended to be assigned reduced freeboards)</p> <p>* amended to match phrases related to equivalency</p>

Present	Amendment	Remark
<p style="text-align: center;">CHAPTER 11 EQUIPMENT</p> <p style="text-align: center;">Section 1 Anchor, Chain and Rope</p> <p>101. General</p> <p>1. Dredgers, according to their equipment number, are to be provided with anchors, anchor chains and ropes which are not less than those given in Table 11.1.</p> <p>2. Anchors, anchor chains and ropes for barges having equipment number not more than 50 or more than 3210 are to be at the discretion of this Society.</p> <p>3. Anchors, anchor chains and ropes are to comply with the requirements specified in Pt 4, Ch 8 of the rules for the Classification of steel ships.</p> <p>102. Equipment number</p> <p>The Equipment Number is that obtained from the following formula:</p> $E = W^{\frac{2}{3}} + 2.0Bh + 0.1A$ <p>— W : full load displacement (t)</p> <p>— h and A : value of followings</p> <p>(1) h (m) is the value obtained from the following formula.</p> $f + h'$	<p style="text-align: center;">CHAPTER 11 EQUIPMENT</p> <p style="text-align: center;">Section 1 Anchor, Chain and Rope</p> <p>101. General (2020)</p> <p><u>1. Equipment number and Equipment are to be in accordance with the Pt 4, Ch 8 of the rules.</u></p> <p><u>2. For the dredger having 205 or below in equipment number, the wire ropes may be used in lieu of chain cables.</u></p> <p>102. Equipment number (2020)</p> <p>1. As specified in Pt 4, Ch 8, Sec 2 of the rules.</p> <p>2. <u>When calculating the Equipment Number, bucket ladders and galls are not to be included.</u></p> <p>103. Anchors (2020)</p> <p><u>As specified in Pt 4, Ch 8, Sec 2 of the rules. ↓</u></p>	<p>* Since the regulations related to the Equipment number and Equipment overlap with Pt 4, Ch 8, we have removed the regulations and follow Pt 4, Ch 8.</p> <p>* reflected UR A1.3.2</p>

Present	Amendment	Reason
<p>f : vertical distance from the load line to the top of uppermost deck beam at the side of ship' centerline. (m)</p> <p>h' : height from the uppermost deck to the top of uppermost superstructures or deckhouses having a breadth greater than $B/4$ (m). In the calculation, the sheer and trim are not included. Where a deckhouse having a breadth greater than $B/4$ is located above a deckhouse having a breadth of $B/4$ or less, the height of deckhouse having a breadth of $B/4$ or less is not included.</p> <p>(2) $A(\text{cm}^2)$ is the value obtained from the following formula.</p> $fL + \sum h''t$ <p>f : specified in (1). $\sum h''t$: sum of the products of the height h''(m) and the length l(m) of superstructures, deckhouses and trunks which are located above the uppermost deck within the length of ship and also have a breadth of $B/4$ orv more and a height of 1.5 m or more.</p> <p>(3) In application of (1) and (2), screens or bulwarks more than 1.5 m in height are to be regarded as a part of superstructures or deckhouses.</p>		<p>* Since the regulations related to the Equipment number and Equipment overlap with Pt 4, Ch 8, we have removed the regulations and follow Pt 4, Ch 8.</p>

Present	Amendment	Reason
<p>103. Anchors (2017)</p> <p>1. The mass of individual bower anchors may vary by $\pm 7\%$ of the mass given in Table 11.1 provided that the total mass of stipulated number of bower anchors is not less than obtained from multiplying the mass per anchor by the number given in Table 11.1 Where, however, an approval by the Society is obtained, the anchors which are increased in mass by more than 7% may be used.</p> <p>2. Where stock anchors are used, the mass excluding the stock may be of 0.8 times the mass specified in Table 11.1.</p> <p>3. Where high holding power anchors are used, the mass of each anchor may be of 0.75 times the mass specified in Table 11.1.</p> <p>4. Where super high holding power anchors are used, the mass of each anchor may be 0.5 times the mass specified in Table 11.1 However, the mass of super high holding anchor is generally not to exceed 1500 kg. ↴</p>		<p>* Since the regulations related to the Equipment number and Equipment overlap with Pt 4, Ch 8, we have removed the regulations and follow Pt 4, Ch 8.</p>

Present											Amendment	Reason
Table 11.1 Anchor, Anchor chain and Rope												
Equip- ment letter	Equipment Number		Anchor		Anchor chain(with stud)			Fiber rope				
			No.	weight(weig ht of stock- less anchor)	Length	Diameter			No.	Length	Breaking- load	
						Grade-I	Grade-II	Grade-III				
	Exceedi ng	not exceeding		kg	m	mm	mm	mm		m	kg	
<i>BA1</i>	50	70	2	180	220	14	12.5		3	80	3,500	▲ ● ▼
<i>BA2</i>	70	90	2	240	220	16	14		3	100	3,750	
<i>BA3</i>	90	110	2	300	247.5	17.5	16		3	110	4,000	
<i>BA4</i>	110	130	2	360	247.5	19	17.5		3	110	4,500	
<i>BA5</i>	130	150	2	420	275	20.5	17.5		3	120	5,000	
<i>BB1</i>	150	175	2	480	275	22	19		3	120	5,500	
<i>BB2</i>	175	205	2	570	302.5	24	20.5		3	120	6,000	
<i>BB3</i>	205	240	2	660	302.5	26	22		4	120	6,500	
<i>BB4</i>	240	280	2	780	330	28	24		4	120	7,000	
<i>BB5</i>	280	320	2	900	357.5	30	26		4	140	7,500	
<i>BC1</i>	320	360	2	1,020	357.5	32	28		4	140	8,000	
<i>BC2</i>	360	400	2	1,140	385	34	30		4	140	9,000	
<i>BC3</i>	400	450	2	1,290	385	36	32		4	140	10,000	
<i>BC4</i>	450	500	2	1,440	412.5	38	34		4	140	11,000	
<i>BC5</i>	500	550	2	1,590	412.5	40	34		4	160	12,500	
<i>BD1</i>	550	600	2	1,740	440	42	36		4	160	13,500	
<i>BD2</i>	600	660	2	1,920	440	44	38		4	160	15,000	
<i>BD3</i>	660	720	2	2,100	440	46	40		4	160	16,000	
<i>BD4</i>	720	780	2	2,280	467.5	48	42		4	170	17,500	
<i>BD5</i>	780	840	2	2,460	467.5	50	44		4	170	19,000	
<i>BE1</i>	840	910	2	2,640	467.5	52	46	40	4	170	20,500	
<i>BE2</i>	910	980	2	2,850	495	54	48	42	4	170	22,000	
<i>BE3</i>	980	1,060	2	3,060	495	56	50	44	4	180	23,500	
<i>BE4</i>	1,060	1,140	2	3,300	495	58	50	46	4	180	25,500	
<i>BE5</i>	1,140	1,220	2	3,540	522.5	60	52	46	4	180	27,500	

* Since the regulations related to the Equipment number and Equipment overlap with Pt 4, Ch 8, we have removed the regulations and follow Pt 4, Ch 8.

Present												Amendment	Reason
Equip- ment letter	Equipment- Number		Anchor-		Anchor-chain(with-stud)			Fiber-rope					
			No.	weight(weig- ht-of-stock- less-anchor) kg	length m	Diameter			No.	length m	Breaking- load kg		
						Grade-I mm	Grade-II mm	Grade-III mm					
<i>BF1</i>	1,220	1,300	2	3,780	522.5	62	54	48	4	180	29,000	* Since the regulations related to the Equipment number and Equipment overlap with Pt 4, Ch 8, we have removed the regulations and follow Pt 4, Ch 8.	
<i>BF2</i>	1,300	1,390	2	4,050	522.5	64	56	50	4	180	31,500		
<i>BF3</i>	1,390	1,480	2	4,320	550	66	58	50	4	180	33,000		
<i>BF4</i>	1,480	1,570	2	4,590	550	68	60	52	5	190	33,000		
<i>BF5</i>	1,570	1,670	2	4,890	550	70	62	54	5	190	34,000		
<i>BG1</i>	1,670	1,790	2	5,250	577.5	73	64	56	5	190	⊕ 36,000		
<i>BG2</i>	1,790	1,930	2	5,610	577.5	76	66	58	5	190	38,500		
<i>BG3</i>	1,930	2,080	2	6,000	577.5	78	68	60	5	190	41,000		
<i>BG4</i>	2,080	2,230	2	6,450	605	81	70	62	5	200	43,000		
<i>BG5</i>	2,230	2,380	2	6,900	605	84	73	64	5	200	46,000		
<i>BH1</i>	2,380	2,530	2	7,350	605	87	76	66	5	200	↓ 49,000		
<i>BH2</i>	2,530	2,700	2	7,800	632.5	90	78	68	6	200	↑ 50,000		
<i>BH3</i>	2,700	2,870	2	8,300	632.5	92	81	70	6	200	⊕ 51,000		
<i>BH4</i>	2,870	3,040	2	8,700	632.5	95	84	73	6	200	⊕ 51,000		
<i>BH5</i>	3,040	3,210	2	9,300	660	97	84	76	6	200	↓ 53,000		

Remark : 1. Where steel wire ropes are used, the following wire ropes corresponding to the marks shown in the table, ●(6×12), ⊕(6×24) and ⊖(6×37), are to be provided.
2. The length of chain cables may be included the length of shackles for connection.
3. For the dredger having 205 or less in equipment number, the wire ropes may be used in lieu of chain cables.