

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

 Index No. **28674**
 (For London Office only.)

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

 Port of Survey Newcastle on Tyne
 Date of Survey 6 Feb. 1920
 Name of Surveyor G. D. Aitken

 Ship's Name. Togokawa Maru
200 S. SEATTLE

 Port of Registry and Nationality. London

 Official Number. 57841

 Gross Tonnage. 5133

 Date of Build. 1911

Particulars of Classification.

100 A.1. Contemplated

 Number in Register Book 25908

Registered dimensions from Official Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>385</u>	<u>54</u>	<u>27.8</u>	<u>4736.3</u>
	<u>385</u>	Frame Depth <u>11</u> Rule " <u>6</u> " <u>5</u> " <u>.83</u>	Ceiling <u>11</u> Sheer <u>+1.08</u> <u>Bank</u>	Peak ? Tanks ?
	<u>385</u>	<u>53.17</u>	<u>28.88</u>	<u>4736.3</u>

 nt of fineness..... .80
 ification necessary }
 4 (a) to (e)]* } 6.8.18
 nt as corrected78

 Item..... 118
 Sternpost ... 60
59

 of the length from { Stem 65.66 } 96
 Sternpost 31.33 } 49 ÷ 2 = 49.5 Mean

 mean Sheer allowed
 mean Sheer [Table, Para. 18] 87.27
 Difference..... 48.5 Correction
 ed as Para. 18 (f) 38.77 ÷ 4 =
-9.4

 Sheer { At front of bridge house...
 midships {
 8 (e)] { At after end of forecastle ...

 Sheer {
 8 (d) } ÷ 2 =
 uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

 Table C..... 4-6 1/4
 for Length, if required (Para. 12, 13, and 14) + 1 1/4
4-8
 by Table A, corrected for sheer, and for length, }
 if required (Para. 12, 13, and 14) } 7-2 1/4
2-6 1/4
 as below..... 28.430%
8.60

 for R. Q. Dk. if engine and boiler openings not
 ed by bridge house (Para. 11)
 for Deck Erections -8 1/2

Length.	Length allowed.	Height.
<u>31</u>	<u>31</u>	<u>7-11</u>
<u>108</u>	<u>108</u>	<u>7-11</u>
<u>33.8</u>	<u>33.8</u>	<u>7-11</u>
<u>172.8</u>		
Ship	<u>385</u>	<u>= .449</u>

 nding percentage }
 (Para. 11, 12, 13, or 14) } 28.430%

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck:—

 Fresh Water Line above centre of Disc ...
 Indian Summer Line " " " ...
 Winter Line below " " " ...
 Winter North Atlantic Line " " " ...

 * If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
 † In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
 § In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and sternpost.

 Moulded Depth as measured..... 30-2 3/4
 Addition for Keel below base line
 for draught record... 15/8...inches.

CORRECTION FOR LENGTH.

 Length of Ship on Loadline..... 385
 Length in Table 363
 Difference 22
 Correction for 10ft., Table A. 1.5 Table C. .8
 × Difference divided by 10 5.5 (if required.) 1.76
 If 10ths length covered divide by 2 + 3 1/4 + 1 3/4

CORRECTION FOR IRON DECK.

 Proportion covered, if less than 10ths length covered449
 Thickness of usual wood deck, less stringer 3 1/2

CORRECTION FOR ROUND OF BEAM.

 Breadth at Gunwale amidships..... 52.42
 Round of Beam 13 1/2
 Normal round..... 13.10
 Difference40 ÷ 2 = .20
 Proportion of Deck uncovered (Para. 19)551 .11

 Freeboard, Table A
 Correction for Sheer 7-8 3/4
- 9 3/4
6-11
 Correction for Length + 3 1/4
7-2 1/4
 Allowance for Deck Erections - 8 1/2
6-5 3/4
 Correction for Round of Beam.....
 Correction for fall in Sheer (if any).....
 Correction for Iron Deck (if required) - 1 1/2
6-4 1/2
 Additions for non-compliance with provisions of }
 Para. 11 (d) and (e) † }
 Other Corrections (if any)

 Winter Freeboard 6-4 1/4
 Summer Freeboard 5-10 3/4
 Indian Summer Freeboard 5-5 1/4
 N. A. Winter Freeboard

 Correction necessary because clearside amidships, measured
 in accordance with the Statute is not taken at the
 intersection of the wood or iron deck with side.

 Winter Freeboard from deck line 6-6
 Summer " " " 6-0 1/2
 Indian Summer " " " 5-7
 N. A. Winter " " "

 Winter Freeboard from deck line 6'-0 1/2"

 Summer " " " 6
 Indian Summer " " " 5 1/2
 N. A. Winter " " " 5 1/2

 † State dimensions of freeing port area on back of this form.
 The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *yes* Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *B.A. Frames*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *no openings*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *Kinged steel M.T. Doors*
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*
 Give scantlings and spacing of the Stiffeners *8 1/2 x 3 1/2 x .64 B.A. spaced 24" to 30"*
 Are bracket plates fitted at each end of the Stiffeners? *yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *yes*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *yes*
 How are the openings closed? *Kinged iron doors*
 Is the Forecastle at least as high as the main or top-gallant rail? *yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *yes*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Bridge*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *yes*
 Give thickness of plating; scantlings and spacing of Stiffeners *yes*
 What is the height of the exposed Casings? *7-9 above bridge* Are suitable means provided for closing all openings in them in bad weather? *yes*
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *yes*

Position and Size.	N ^o 1. <i>4' x 22'</i>		N ^o 2. <i>36' x 22'</i>		N ^o 3. <i>on bridge 18' x 22'</i>		N ^o 4. <i>76' x 22'</i>		N ^o 5. <i>32' x 22'</i>	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	<i>3'-3"</i>		<i>2-11</i>		<i>2-8</i>		<i>3-0</i>		<i>3-0</i>
	Sides.....	<i>.50</i>		<i>.50</i>		<i>.50</i>		<i>.50</i>		<i>.50</i>
	Thickness { Ends.....	<i>.42</i>		<i>.42</i>		<i>.42</i>		<i>.42</i>		<i>.42</i>
SHIFTING BEAMS OR WEB PLATES.	Number	<i>3</i>		<i>3</i>		<i>3</i>		<i>3</i>		<i>3</i>
	Section and Scantlings	<i>7" x 3 1/2 x 40</i>		<i>7" x 3 1/2 x 40</i>		<i>7" x 3 1/2 x 40</i>		<i>7" x 3 1/2 x 40</i>		<i>7" x 3 1/2 x 40</i>
	Material	<i>Steel</i>		<i>Steel</i>		<i>Steel</i>		<i>Steel</i>		<i>Steel</i>
* FORE AND AFTERS.	Number	<i>5</i>		<i>5</i>		<i>5</i>		<i>5</i>		<i>5</i>
	Section and Scantlings	<i>7 x 7</i>		<i>7 x 7</i>		<i>7 x 7</i>		<i>7 x 7</i>		<i>7 x 7</i>
	Material	<i>P. Pine</i>		<i>P. Pine</i>		<i>P. Pine</i>		<i>P. Pine</i>		<i>P. Pine</i>
HATCHES Thickness	<i>3"</i>									
Remarks.....										

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

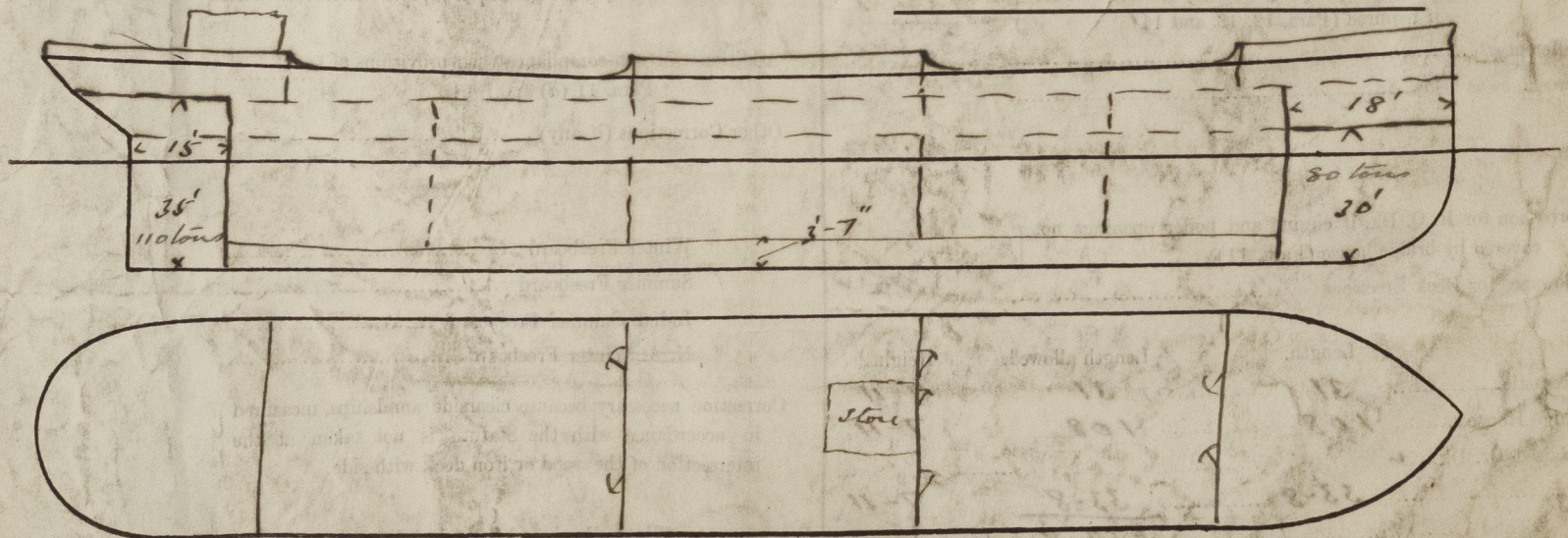
What is the thickness of the Bridge Sheerstrake? *.58* Strake between Main and Bridge Sheerstrakes? *.58 doubled with .50*

Delete the words { The Crew ~~are~~, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~are not~~ satisfactory.

Length of Bulwarks in well *F. 106 aft 102*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft. Tenth.	Ft. Tenth.	No.	Freeing Ports (each side of vessel)	=	Sq. ft.
<i>A { 3.5</i>	<i>1.5</i>	<i>4</i>			
<i>2.25</i>	<i>1.33</i>	<i>1</i>			
<i>F { 3.5</i>	<i>1.5</i>	<i>4</i>	Total deficiency or excess	=	Sq. ft.
<i>2.0</i>	<i>1.33</i>	<i>1</i>			



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *None, now being surveyed for class.*
Request form enclosed also former certificate for cancellation.

Owners *Union of Govt of South Africa, Dept of Harbours & Railways.*

Address

Fee £ *7* : *7* : *0* Received by me *6/3/20 RBW*



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