

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS. FRI. 23 FEB. 1918.

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 *Osaka*Date of Survey *Dec. 1918*Name of Surveyor *G. D. Aisken*

Ship's Name. *S.S. SURABAYA MARU*
aka from Works yard N° 922.
 Number in Register Book *24476*
 Port of Registry and Nationality. *Osaka Jap.*
 Official Number. *24476*
 Gross Tonnage. *4386*
 Date of Build. *1918*
 Particulars of Classification. *+100 A-1. shelter dh contemplated*

Registered Length. *345'*
 Breadth. *49.83*
 Depth. *25.83*
 Under Deck Tonnage. *3676*

Length on Loadline. *345'*
 Frame Depth *8*
 Rule *5 1/2*
 Ceiling *fitted*
 Sheer *+1.26*
 Peak Tanks. *incl*
Surz

Corrected Length. *345'*
 Breadth. *49.41*
 Depth. *27.08*
 Under Deck Tonnage. *3676*

Efficiency of fineness..... *.79*
 Any modification necessary { *.02* *all. d.b.*
 [Para. 4 (a) to (e)]*
 Efficiency as corrected *.77*

Sheer { Stem..... *120* } *180 ÷ 2 = 90' ... Mean*
 at { Sternpost ... *60* }
 Sheer at 1/2 of the length from { Stem *66* } *99 ÷ 2 = 49 1/2' ... Mean*
 Sternpost *33* }
 Gradual mean Sheer *90 + 55 = 90*
 Standard mean Sheer [Table, Para. 18] *44.5'* Correction
 Difference..... *45.5' ÷ 4 = - 11 1/2'*
 If limited as Para. 18 (f).....

Rise in Sheer { At front of bridge house.....
 from amidships {
 [Para. 18 (e)] { At after end of forecastle

Fall in Sheer {
 Para. 18 (d) { *÷ 2 =*
 Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—
 Freeboard, Table C..... *3 - 8 1/2'*
 Correction for Length, if required (Para. 12, 13, and 14) *+ 1/2'*
 Freeboard by Table A, corrected for sheer, and for length, { *3 - 9'*
 if required (Para. 12, 13, and 14) { *5 - 11 1/2'*
 Difference *2 - 2 1/2'*
 Percentage as below..... *30.04*
7.96

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) {
 Allowance for Deck Erections *- 8"*

	Length.	Length allowed.	Height.
Forecastle.....	<i>34</i>	<i>34'</i>	<i>8-0</i>
Bridge House.....	<i>99</i>	<i>99'</i>	<i>8-0</i>
Raised Qr. Dk.....	<i>30</i>	<i>30'</i>	<i>8-0</i>
Pop.....	<i>30</i>	<i>30'</i>	<i>8-0</i>
Total	<i>163</i>	<i>163'</i>	<i>8-0</i>
Length of Ship	<i>345'</i>	<i>345'</i>	<i>.472</i>

Responding percentage { *30.04%*
 Para. 11, 12, 13, or 14)

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 stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one eighth of the vessel's length from stem and stern-post.

Moulded Depth as measured..... *28' 2"*
 Addition for Keel below base line *plate keel .84 + 2 at butts*
 for draught record..... inches. *Carbo .54*

CORRECTION FOR LENGTH.
 Length of Ship on Loadline..... *345*
 Length in Table *338*
 Difference *7.0*
 Correction for 10ft., Table A. *1.43* Table C. *.7*
 × Difference divided by 10 *1.00* (if required.) *.49*
 If 1/10ths length covered divide by 2 *+ 1" ✓* *+ 1/2 ✓*

CORRECTION FOR IRON DECK.
 Proportion covered, if less than 1/10ths length covered *.472*
 Thickness of usual wood deck, less stringer *3 1/2*
- 13/4 ✓

CORRECTION FOR ROUND OF BEAM.
 Breadth at Gunwale amidships..... *48.8*
 Round of Beam *12*
 Normal round..... *12.2*
 Difference *.2 ÷ 2 = .1*
 Proportion of Deck uncovered (Para. 19) ✓

Freeboard, Table A *6 - 10'*
 Correction for Sheer *- 11 1/2'*
 Correction for Length *+ 1'*
 Allowance for Deck Erections *- 8'*
5 - 3 1/2' ✓

Correction for Round of Beam..... ✓
 Correction for fall in Sheer (if any)..... ✓
 Correction for Iron Deck (if required) *- 13/4*
5 - 13/4 ✓
 Additions for non-compliance with provisions of {
 Para. 11 (d) and (e) †
 Other Corrections (if any)

Winter Freeboard *5 - 13/4 ✓*
 Summer Freeboard *4 - 9 ✓*
 Indian Summer Freeboard *4 - 4 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. *+ 13/4*

Winter Freeboard from deck line *5 - 3 1/2' ✓*
 Summer " " " *4 - 10 3/4 ✓*
 Indian Summer " " " *4 - 6 ✓*
 N. A. Winter " " "

shelter (Iron) Deck:— *4 - 10 1/2' ✓*

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Longitudinal framing

Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *no* Bridge House? *no* Forecastle? *no*

To what height do the Reverse Frames extend? *✓*

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 *Hinged steel M.T. doors*

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 *Hinged steel M.T. doors*

What is the thickness of the Bridge Front plating? *36* and Coaming plate? *40*

Give scantlings and spacing of the Stiffeners *8 x 3 1/2 x 50 ft. spaced 36"*

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? *Hinged steel 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? *✓*

Give thickness of plating; scantlings and spacing of Stiffeners *✓*

What is the height of the exposed Casings? *✓* 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 on bridge*

Position and Size.		N ^o 1 = 22 x 20		N ^o 2 = 28 x 20		N ^o 3 = 11 x 18		N ^o 4 = 10 x 20		N ^o 5 = 6 = 22 x 20	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	36	24	36	24	30	18	36	24	36	24
	Thickness { Sides..... } { Ends..... }	all .44	.44								
SHIFTING BEAMS OR WEB PLATES.	Number	4	4	5	5	1	1	1	1	4	4
	Section and Scantlings	17 x 36	17 x 36	17 x 36	17 x 36	13 x 32	13 x 32	18 x 36	18 x 36	17 x 36	17 x 36
	Material	4 x 3 x 44 steel	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44
* FORE AND AFTERS.	Number										
	Section and Scantlings	none									
	Material										
HATCHES Thickness		3" wood all									
Remarks.....		Bulk angles fitted to all coamings									

* 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? *54* Strake between Main and Bridge Sheerstrakes? *54*

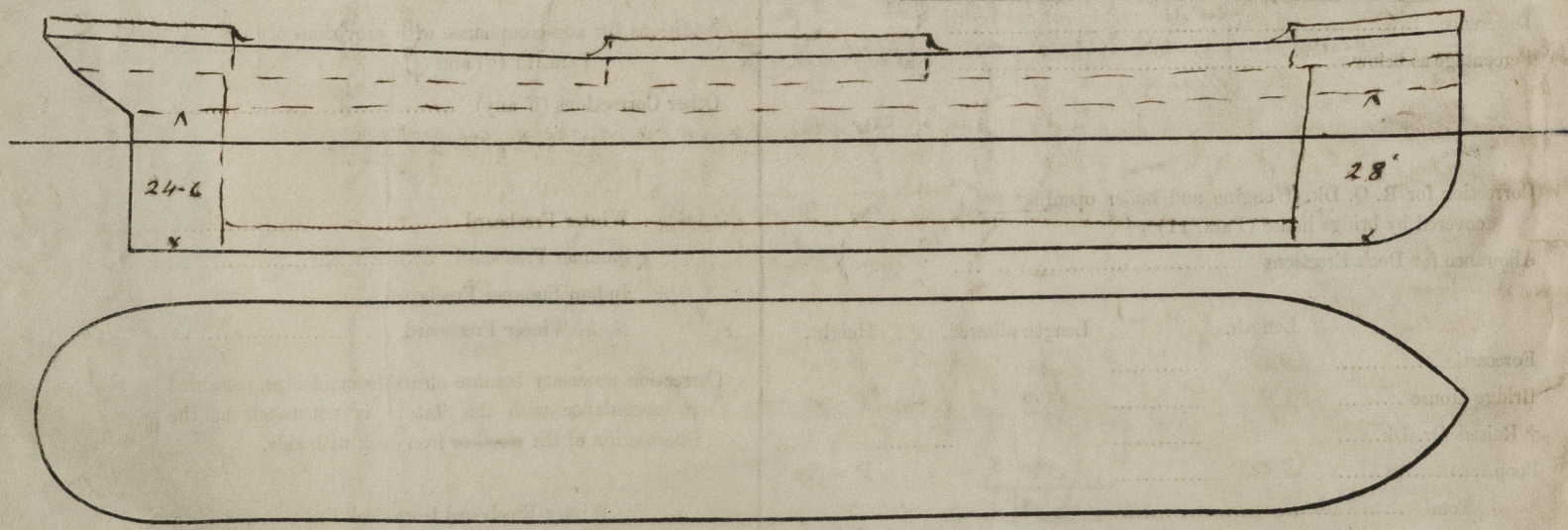
Delete the words { The Crew ~~are~~, are not, berthed in the bridge house.
that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~are not~~ satisfactory.

Length of Bulwarks in well *78 aft 79 ft fore*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = $\frac{F}{A} \frac{15.8}{19.6}$ Sq. ft.

Ft. Tenth.	Ft. Tenth.	No.	Freeing Ports (each side of vessel)	= $\frac{F}{A} \frac{15.6}{19.5}$ Sq. ft.
1. 5	x 2. 6	x 4		
1. 5	x 3. 25	x 4		

Total deficiency or excess = *✓* Sq. ft.



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. Long. Framing. Dup of Michu*
Main Rept N^o 2339. Signed request form enclosed. First entry and
plans also forwarded.

Owners *Asaka Shosen Kaisha*

Address *Asaka*

Fee *120* :

Received by me *21 Jan 1919*



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Foundation