

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.—STEAM SHIPS.

JUL 4 1920

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 YOKOHAMADate of Survey WHILE BUILDINGName of Surveyor James G. Richter

Particulars of Classification.

+100 A.I. CONTEMPLATED.

Ship's Name. KINNO MARU  
YOKOHAMA Dock C<sup>o</sup> N<sup>o</sup> 68  
Number in Register Book  
Port of Registry and Nationality. YOKOHAMA  
JAPANESE  
Official Number. 27166  
Gross Tonnage. 3825.73  
Date of Build. 1920

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>345</u>	<u>50.23</u>	<u>26.46</u>	<u>3460.46</u>
Length	<u>345</u>	Frame Depth <u>10</u>	Ceiling <u>FITTED</u>	Peak <u>1</u> INCL.
LOAD.		Rule <u>6</u>	Sheer <u>+1.45</u>	Tanks <u>1</u>
Rpt.		<u>2.4</u>	<u>3</u> DROP IN	
		<u>SPARRING</u> <u>66</u>	<u>TANK</u> <u>+1.2</u>	
CORRECTED DIMENSIONS.	<u>345</u>	<u>49.57</u>	<u>27.22</u>	<u>3460.46</u>

Co-efficient of fineness..... .743  
Any modification necessary }  
[Para. 4 (a) to (e)]\* .02 C.D.B.  
Co-efficient as corrected ..... .723Sheer { Stem..... 84 } 126 ÷ 2 = 63 ...Mean  
at { Sternpost ... 42 }Sheer at  $\frac{1}{2}$  of the length from { Stem 46 } 67 ÷ 2 = 33.5 ...Mean  
Sternpost 21 } 55Gradual mean Sheer ..... 60.9 = 60.9Standard mean Sheer [Table, Para. 18] ..... 44.5 CorrectionDifference..... 16.4 ÷ 4 = -4.1

§ 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) {  
Length uncovered .....  
CorrectionNo Correction  
BRIDGE FITTED.

## ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 3-10 1/2  
Correction for Length, if required (Para. 12, 13, and 14) ..... -4Freeboard by Table A, corrected for sheer, and for length, }  
if required (Para. 12, 13, and 14) } 6-7 1/2  
Difference ..... 2-9 1/4Percentage as below ..... 27.31Correction for R. Q. Dk. if engine and boiler openings not }  
covered by bridge house (Para. 11) } -9Allowance for Deck Erections ..... -9

	Length.	Length allowed.	Height.
Forecastle.....	<u>40.5</u>	<u>40.50</u>	<u>7.75</u>
Bridge House.....	<u>74.25</u>	<u>75.93</u>	<u>7.75</u>
† Raised Q. Dk.....	<u>2.25</u>		
Poop.....	<u>33.25</u>	<u>33.25</u>	<u>7.75</u>
Total .....		<u>149.68</u>	
Length of Ship .....		<u>345</u>	
Corresponding percentage { (Para. 11, 12, 13, or 14) } <u>27.31</u>			

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, (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..... 29-1Addition for Keel below base line  
for draught record.... 1.84 inches.

NOTE.—If the depth is measured when vessel is afloat, the details of measurement should be reported.

## CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 345  
Length in Table..... 349  
Difference ..... 4  
Correction for 10ft., Table A. .... 1.5 Table C. .716  
× Difference divided by 10 ..... .60 (if required.) .286  
If  $\frac{1}{10}$ ths length covered divide by 2 -1/2 -1/4

## CORRECTION FOR IRON DECK.

Proportion covered, if less than  $\frac{1}{10}$ ths length covered ..... .433  
Thickness of usual wood deck, less stringer ..... 3 1/2 -1/2

## CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 48  
Round of Beam ..... 12 1/2  
Normal round..... 12  
Difference ..... 1/2 ÷ 2 = 1/4  
Proportion of Deck uncovered (Para. 19) ..... .567 = 1/8

NOTE.—The round of beam should be reported on the full breadth of vessel at the gunwale.

Freeboard, Table A ..... 7-0  
Correction for Sheer ..... -4  
6-8Correction for Length ..... -1/2  
6-7 1/2Allowance for Deck Erections ..... -9  
5-10 1/2Correction for Round of Beam..... 1/4Correction for fall in Sheer (if any)..... 1/4Correction for Iron Deck (if required) ..... -1/2  
5-9Additions for non-compliance with provisions of }  
Para. 11 (d) and (e) † }  
Other Corrections (if any) .....Winter Freeboard..... 5-9Summer Freeboard ..... 5-3 3/4Indian Summer Freeboard ..... 4-10 1/2

N. A. Winter Freeboard .....

Correction necessary because clearside amidships, measured }  
in accordance with the Statute is not taken at the } 1 3/4  
intersection of the wood or iron deck with side.Winter Freeboard from deck line ..... 5-10 3/4Summer " " " " ..... 5-5 1/2Indian Summer " " " " ..... 5-0 1/4

N. A. Winter " " " " .....

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.

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Do all the Frames extend to the top height in the Poop? YES Raised Quarter Deck? ✓ Bridge House? YES Forecastle? YES.  
 To what height do the Reverse Frames extend? NO REVERSE 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 TWO W.T. HINGED STEEL 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 TWO W.T. HINGED STEEL DOORS.  
 What is the thickness of the Bridge Front plating? .40 and Coaming plate? .44  
 Give scantlings and spacing of the Stiffeners 9" 3 1/2" x 15/32 BULB ANGLE 30" APART.  
 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? CHANNELS FITTED HALF HEIGHT.  
 Is the Forecastle at least as high as the main or top-gallant rail? YES Has the Forecastle an efficient Iron 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? COVERED BY 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? ✓  
 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.	No. 1. 27'-6" x 18'-0"		No. 2. 23'-0" x 18'-0"		No. 3. 30'-3" x 18'-0"		No. 4. 27'-6" x 18'-0"			
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	24"	24"		24"		24"			
	Sides.....	.44	.44		.44		.44			
	Ends.....	.44	.44		.44		.44			
SHIFTING BEAMS OR WEB PLATES.	Number .....	5	7		6		5			
	Section and Scantlings .....	15" x 36 PT.	14 1/2" x 34 PT.		15 1/2" x 34 PT.		15" x 36 PT.			
	Material .....	3 1/2" x 3 1/2" x .44	3 1/2" x 3 1/2" x .44		3 1/2" x 3 1/2" x .44		3 1/2" x 3 1/2" x .44			
* FORE AND AFTERS.	Number .....									
	Section and Scantlings .....	✓	✓				✓			
	Material .....									
HATCHES Thickness .....	3"		3"		3"		3"			
Remarks.....	7" x 3 1/2" x .4 BULB ANGLE AT SIDES & ENDS OF HATCHES.									

\* 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.

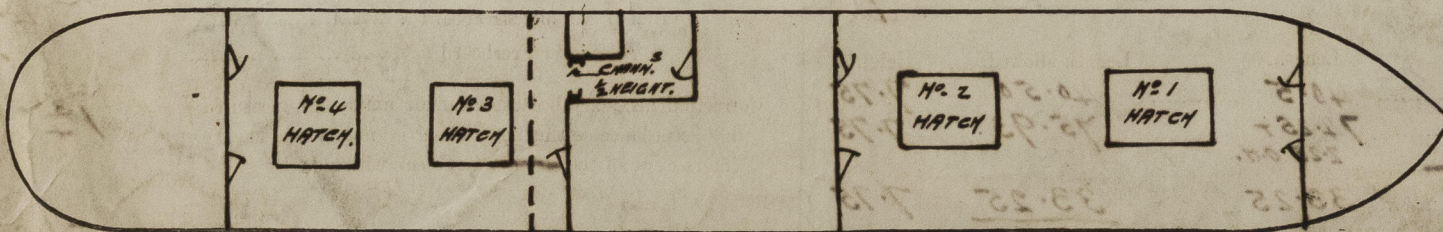
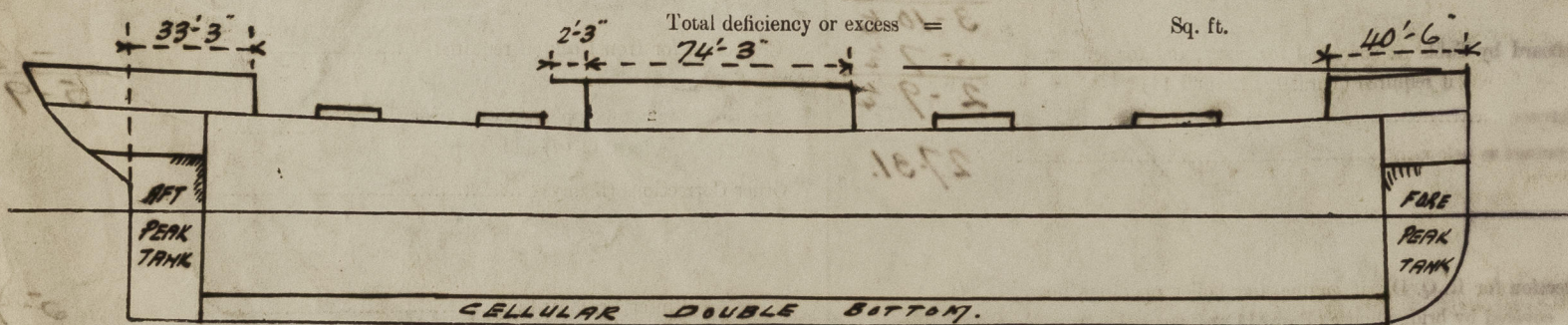
What is the thickness of the Bridge Sheerstrake? \_\_\_\_\_ Strake between Main and Bridge Sheerstrakes? \_\_\_\_\_

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 \_\_\_\_\_

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

Ft.	Tenths.	Ft.	Tenths.	No.	} Freeing Ports (each side of vessel) =	Sq. ft.
x		x				
x		x				



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 \_\_\_\_\_

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