

DISCLOSED SECTION No 321
TUE DEC 11 1917
25499

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

B.T. COPY WRITTEN

PARTICULARS IN RESPECT OF STEAM SHIPS HAVING SPAR OR AWNING DECKS.

Port of Survey Yokohama
Date of Survey 14th Oct. 1917
Name of Surveyor Jas. Cairns

Asano Shipbuilding Co. Yard No. 4.

Ship's Name. HAKUSHIKA MARU Port of Registry and Nationality. Kobe Official Number. 7734.37 Gross Tonnage. 8150.82 Date of Build. 10-1917 Particulars of Classification. +100A.1. Shellin dk. with freeboard

Number in Register Book

Registered Length	BREADTH.	DEPTH.	UNDER DECK Tonnage.
445	58 mld. 58.2 ex. 15 lank 29.21	32	7734.37
445	Frame Depth // Rule " 7 Sheer +.57 4 drop in lank -.66 = 4" = +.16	Ceiling +.20 Peak Tanks	
445	57.54	30.14	7734.37

Moulded Depth as measured 32'-0 1/16" Ray 32'-1" Main Deck.
" " " 40'-1 1/16" Spar or Awning Deck.

efficient of fineness 38.14
modification necessary [Para. 4 (a) to (e)] .79 to shellin deck bell & S.B.
efficient as corrected .77
Ray .76 to upper deck.

allowance for strength in excess of Lloyd's rules = 12 3/4"

particulars—
Deep framing
Strengthened topsides
3 shell decks.
6 W.T. plds. to upper deck
1 " " to shellin deck.

CORRECTION FOR LENGTH:—

Length of Ship on Load Line....	445
Length in Table.....	385
Difference.....	60
Correction for 10ft.....	.8
× Difference ÷ 10 =	4.8
	+ 4 3/4

Height of "Tween Decks..... 8-0
(From top of beam to top of beam at side)
Correction for Height of "Tween Decks in Spar-decked Ships.....

Freeboard Table 5-3 C.....	5-3
Correction for Length.....	+ 4 3/4
	5-7 3/4
Correction for Height of "Tween Decks in Spar-decked Ships.....	+ 7-11 1/2
from 3" sheathing on shellin decks to rule 3 1/2" sheathing on main deck	13-7 3/4
Correction for Strength in excess of Lloyd's rules.....	1-0 3/4
(1/4 calculation)	12-6 1/2

Correction for Iron Deck if required..... ✓
Other Corrections (if any)..... ✓
Winter Freeboard..... 12-6 1/2
Summer Freeboard..... 12-0
Indian Summer Freeboard..... 11-5 1/2
N. A. Winter Freeboard..... ✓

Correction necessary because clearside amidships measured in accordance with the Statute is not taken at intersection of the wood or iron deck with side 1 1/2
Winter Freeboard from Deck Line..... 12-8
Summer " " "..... 12-1 1/2
Indian Summer " " "..... 11-7
N. A. Winter " " "..... ✓

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

Fresh Water Line above centre of Disc	12-1 1/2
Indian Summer Line " " "	7
Winter Line below " " "	6 1/2
Winter North Atlantic Line " " "	6 1/2

NOTE.—All vessels equal in strength to Lloyd's Spar-decked rule, or which, although in excess of that rule, do not come up to Lloyd's requirements for Ships of full scantlings to the upper deck, are to be considered as Spar-decked Ships, the freeboard for which will vary with their strength. All vessels equal in strength to Lloyd's Awning-decked rule, or which, although in excess of that rule, do not come up to Lloyd's requirements for a Spar-decked Vessel, are to be considered as Awning-decked Ships, the freeboard for which will vary with their strength.

• If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

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MARKING FORM
RECEIVED 12 JUN 1923

Shelter

Do all the Frames extend to the top Height in the Spar deck? *Shelter*

Do all the Frames extend to the top height in the Poop? Bridge House? Forecastle?

To what height do the Reverse Frames extend? *In holds to upper 2" dk alternately, & every 4" to shelter at in fore peak to shelter & 2" dk alternately, & after peak all to upper dk*

Has the Poop an efficient Iron Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

Is the Poop connected with the Bridge House? Has the Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

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

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners? Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

Has the Bridge House an efficient Iron Bulkhead at the after end?

How are the openings closed?

Is the Forecastle at least as high as the main or top-gallant rail? Has the Forecastle an efficient Iron or Wood Bulk'd. at after end?

Are the Engine and Boiler openings covered by a Bridge, Poop, *Steel deck houses* or enclosed by a Strong Iron or Steel Deckhouse?

If the openings are not so protected are the exposed parts of the Casings efficiently constructed?

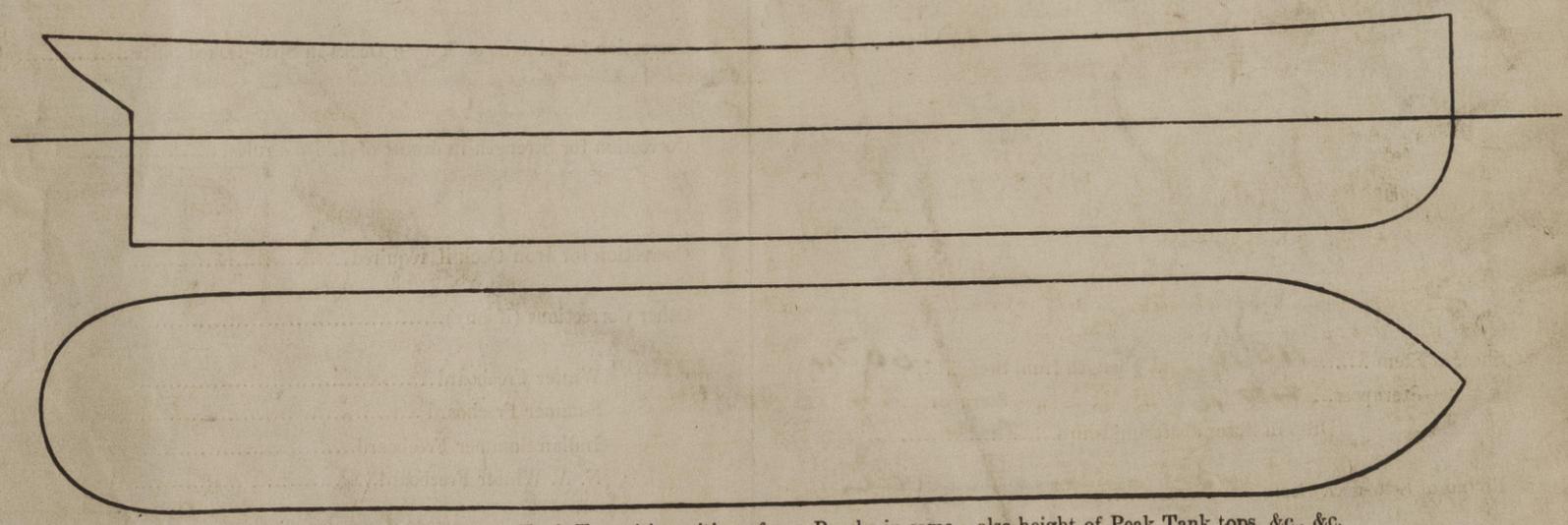
Give thickness of plating; scantlings and spacing of Stiffeners

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.	N ^o 1. 20'-3" x 18'-0"		N ^o 2. 30'-0" x 18'-0"		N ^o 3. 18'-0" x 18'-0"		N ^o 4. 30'-0" x 18'-0"		N ^o 5. 27'-0" x 18'-0"	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK		30		30		30		30	
	Thickness	Sides.....	.44		.50		.44		.50	
		Ends.....	.44		.44		.44		.44	
SHIFTING BEAMS OR WEB PLATES.	Number		3		5		4		5	
	Section and Scantlings		16 x .36 with 4 x 3 x 7/16		do N ^o 1		14 x .34 with 4 x 3 x 7/16		do N ^o 1	
	Material		D.A. T.B.				D.A. T.B.		D.A. T.B.	
* FORE AND AFTERS.	Number									
	Section and Scantlings		None		None		None		None	
	Material									
HATCHES	Thickness		2 1/2		2 1/2		2 1/2		2 1/2	
Remarks.....										

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.
 (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.)



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.*

Owners
 ,, Address

Fee \$150.00

Received by me 1-11-17 *JL*

