

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Index No. 1342.1922
(For London Office only.)

No. 1342.

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

Port of Survey NAGASAKI.Date of Survey 18th July, 1921.Name of Surveyor R. Crawford.

Ship's Name. s/s "HAKONE MARU" Port of Registry and Nationality. Tokio, Japanese. Official Number. 10,423 Date of Build. 1921 Particulars of Classification. *100AI, Contemplated.

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	495	62.27	34.16	8392
Length on LOADLINE.	494.3	Frame Depth 12 Rule " 7 5	Ceiling fitted Sheer + .84	Peak Tanks } Incl Suez
CORRECTED DIMENSIONS.	494.3	61.43	35.0	8392

Co-efficient of fineness..... .789
Any modification necessary } .02 C.D.B.
[Para. 4 (a) to (e)]*
Co-efficient as corrected7677

Sheer { Stem..... 119 } 180 ÷ 2 = 90 ... Mean
at { Sternpost ... 61 }
Sheer at $\frac{1}{2}$ of the length from { Stem 67 } 101 ÷ 2 = 50½ ... Mean
Sternpost 34 }
Gradual mean Sheer 90 .55 = 90
Standard mean Sheer [Table, Para. 18] 59.5 Correction
Difference..... 30.5 ÷ 4 =
§ If limited as Para. 18 (f) - 7½"

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

¶ Fall in Sheer } ÷ 2 =
Para. 18 (d) }
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... (10' - 4½") (3' - 2") 7' - 2½"
Correction for Length, if required (Para. 12, 13, and 14)

Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) } 9' - 9"

Difference 2' - 0½"
Percentage as below 43%

= 13.11"
12.9

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }

Allowance for Deck Erections

	Length.	Length allowed.	Height.
Forecastle.....	55.5	55.5	8' - 1"
Bridge House	186.0 (94% closed)	163.0	9' - 0"
† Raised Qr. Dk.....			
Poop.....	93.8	93.8	8' - 1"
Total	335.3	312.3	
Length of Ship	495	495	

Corresponding percentage } 43%
(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 " " " ...

16.1.22

Moulded Depth as measured..... 37' - 0"
Addition for Keel below base line for draught record.. 2.½ 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..... 494.3
Length in Table 444.0
Difference 50.3
Correction for 10ft., Table A. 1.7 Table C.
× Difference divided by 10 8.55 (if required.)
If $\frac{1}{10}$ ths length covered divide by 2 4.27 = + 4½"

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered
Thickness of usual wood deck, less stringer 3½" wood sheathing.

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 62.0
Round of Beam 15½
Normal round..... 15½
Difference ÷ 2 =
Proportion of Deck uncovered (Para. 19)

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

Freeboard, Table A 10' - 4½" 5
Correction for Sheer - 7½"

9' - 9½"
Correction for Length + 4½"

10' - 1½"
Allowance for Deck Erections - 1' - 1"

9' - 0½"
Correction for Round of Beam.....

Correction for fall in Sheer (if any).....

Correction for Iron Deck (if required)

Additions for non-compliance with provisions of {
Para. 11 (a) and (e) }
Other Corrections (if any) To correspond to subdivision + 3½"
load line of 28' - 0" moulded. 9' - 3½"

Winter Freeboard

Summer Freeboard

Indian Summer Freeboard 9' - 3½"

N. A. Winter Freeboard

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood ~~on~~ deck with side. 1½"

Winter Freeboard from deck line

Summer " " " "

Indian Summer " " " "

N.A. Winter " " " "

for all seasons. 9' - 5½"

7"

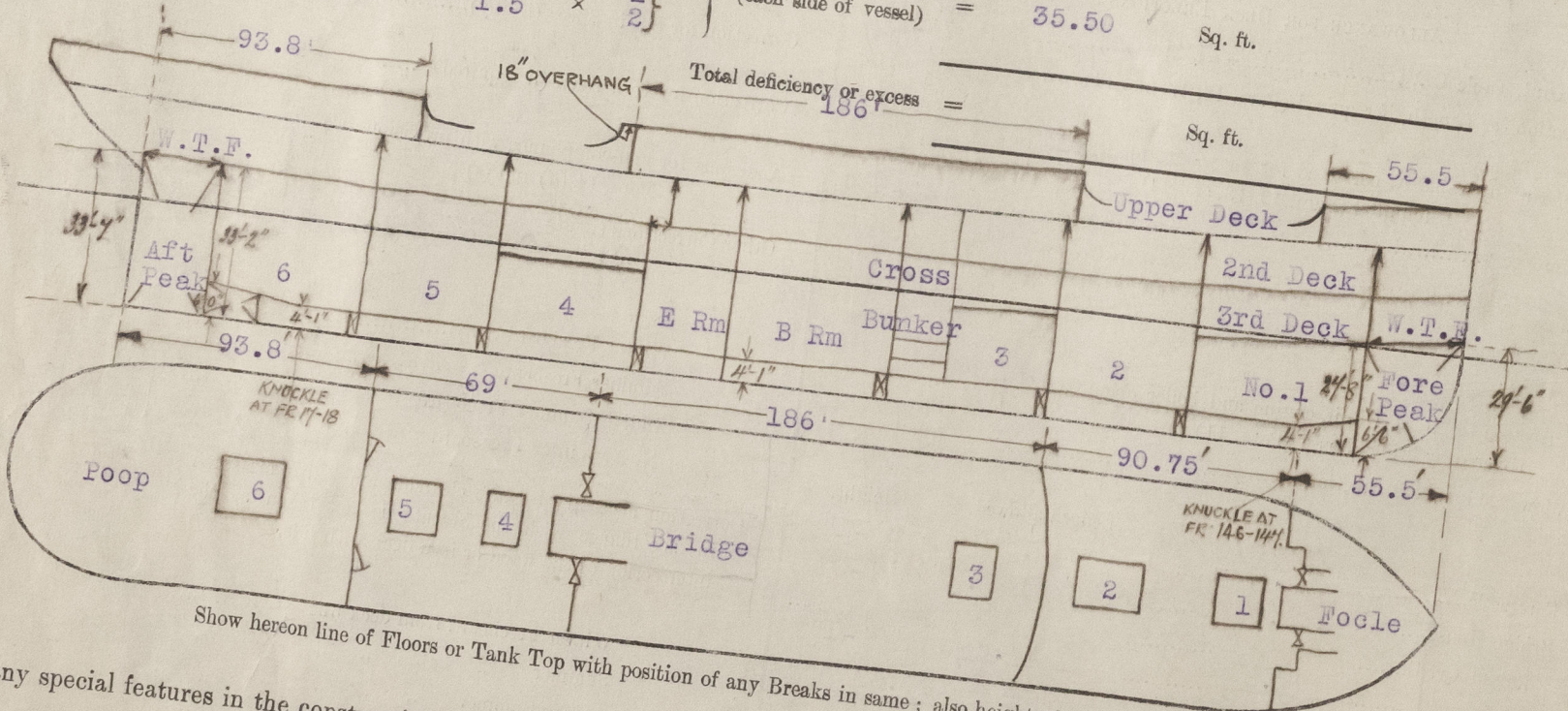
† State dimensions of freeing port area on back of this form.

‡ 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? / Bridge House? Yes Forecastle? Yes
 To what height do the Reverse Frames extend? To 2nd deck, except in No. 1, 3 & 4 holds.
 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 W. T. 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 No openings
 What is the thickness of the Bridge Front plating? .40" and Coaming plate? .44"
 Give scantlings and spacing of the Stiffeners 9"x 3 1/2"x .64 B.A. Spaced 33" 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 Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? Yes
 How are the openings closed? Storm boards half height in riveted steel channels,
 Is the Forecastle at least as high as the main or top-gallant rail? 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 and also steel superstructures fitted.
 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 E = 8'-6" above Boat Dk.
 What is the height of the exposed Casings B = 2'-3" " 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 Ford 20'x3" x 18'-0"	No. 2 30'x 20'	No. 3 12'-0"x 16'-0" on bridge	No. 4 15'x 20'	No. 5 24'x 20'	No. 6 18'x 20'
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	30		30		30	
Thickness	.44		.44		.44	
COAMING.	Sides .44		Sides .44		Sides .44	
	Ends .44		Ends .44		Ends .44	
SHIFTING BEAMS OR WEB PLATES.	Number 3	Approved	Number 5	Approved	Number 2	Approved
	Section and Scantlings 16"x 8"x .36 angles		Section and Scantlings 18"-9"x .36 angles		Section and Scantlings 11"-6"x .34 angles	
	Material 4x3x.44		Material 4x3x.44		Material 3 1/2"x 3x.50	
* FORE AND AFTERS.	Number		Number		Number	
	Section and Scantlings		Section and Scantlings		Section and Scantlings	
	Material		Material		Material	
HATCHES Thickness	3"		Do		Do	
Remarks	Good		Do		Do	

* 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 159.75 feet,
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = 32.50 Sq. ft.
 Fore well = $4.33 \times 1.5 \times 3$
 Aft well = $2.0 \times 1.5 \times 1$
 Freeing Ports (each side of vessel) = 35.50 Sq. ft.
 Total deficiency or excess = 186 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 Channel framing. Spaced 36" apart. with rev. Fr. to 2nd Dk.
 Formal request form and report on requirements of Board of Trade instructions relating to the Construction of Passenger Steamships are herewith enclosed.
 Owners Nippon Yusen Kabushiki Kaisha.,
 Address Tokio, Japan.

Fee £ ¥.150:00

Received by me 23/11/21 See F. C. Rpt.



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