

# Lloyd's Register of Shipping

## SURVEYS FOR FREEBOARD.-STEAM SHIPS.

PARTICULARS RELATING TO ~~ALL~~ STEAM SHIP, EITHER FLUSH DECKED, OR WITH  
~~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 Glasgow  
Date of Survey While building  
Name of Surveyor J. Brimblecombe.

Shelter deck with tonnage opening 4'-2" x 18'-0"

Ship's Name "HAURAKI" Port of Registry and Nationality London British Official Number 146533 Gross Tonnage 712.76 approx Date of Build. 1922 Particulars of Classification 100A1 Shelter deck with forecastle (Contemplated)

Number in Register Book 37731 (Sup.)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	450.3	58.25	31.40	6488.56
Length on LOADLINE.	450.0	Rule "7 1/2"	Sheer <u>+0.87</u>	<u>Deck 7" frames in</u> <u>30 tons</u>
CORRECTED DIMENSIONS.	450.0	57.542	32.47	6488.56 6458.56

Moulded Depth as measured..... 34'-0"  
Addition for Keel below base line for draught record..... 2 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.....	450	✓
Length in Table .....	408	✓
Difference .....	42	✓
Correction for 10ft., Table A. ....	1.7	Table C.
× Difference divided by 10 .....	7.14	(if required.)
If 1/10ths length covered divide by 2	3.57	+ 3 1/2 ✓

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered .....	.96
Thickness of usual wood deck, less stringer .....	3 1/2"
<u>Deck not sheathed.</u>	- 3 1/2" ✓

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	58'-0"
Round of Beam .....	14 1/2"
Normal round.....	14 1/2"
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 .....	9'-1 1/2" 2 ✓
Correction for Sheer .....	- 8 7/8 3/4 ✓
Correction for Length .....	+ 3 1/2 ✓
Allowance for Deck Erections .....	8-9 3/4 ✓
Correction for Round of Beam.....	- 2-3 1/2 1/2 ✓
Correction for fall in Sheer (if any).....	6-5 1/2 6/4 ✓
Correction for Iron Deck (if required) .....	- 3 1/2 ✓
Additions for non-compliance with provisions of Para. 11 (d) and (e) † .....	6-2 1/4 2 3/4 ✓
Other Corrections (if any) .....	✓

Winter Freeboard .....	6'-2 1/4 23/4 ✓
Summer Freeboard .....	5'-7 1/4 8 1/4 ✓
Indian Summer Freeboard .....	5'-1 1/4 13/4 ✓
N. A. Winter Freeboard .....	✓
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the <del>wood</del> iron deck with side.	13/4 ✓
Winter Freeboard from deck line .....	6'-4" 4 1/2 ✓
Summer " " " " .....	5'-9 1/2 10 ✓
Indian Summer " " " " .....	5'-3" 3 1/2 ✓
N. A. Winter " " " " .....	✓

Co-efficient of fineness..... .77 .78  
Any modification necessary [Para. 4 (a) to (e)]\* -.02 C.D.B.  
Co-efficient as corrected ..... .75 .76

Sheer { Stem..... 114 } 174 ÷ 2 = 87 ... Mean 86.5  
at { Sternpost ... 60 } 55.0  
36 31.536  
Sheer at 1/2 of the length from { Stem 64 } 95 ÷ 2 = 47.5 ... Mean 86.5  
{ Sternpost 31 } 36  
Gradual mean Sheer ..... 86.536  
Standard mean Sheer [Table, Para. 18] ..... 55 Correction ÷ 55 = 86.5  
Difference..... 31.536 ÷ 4 = 7.84  
If limited as Para. 18 (f) ..... - 7 3/4"

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.....	5'-11 1/2 6.0 ✓
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) .....	8-5 1/2 6 1/4 ✓
Difference .....	2-6 6/4 ✓
Percentage as below.....	91% 27.853

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }  
Allowance for Deck Erections ..... - 2'-3 1/4 1/2 ✓

	Length.	Length allowed.	Height.
Forecastle.....	363-5"	360.96	
Bridge House .....	356-58	356-58	
Shelter deck with tonnage opening	4-2"	4-38	
Raised Q. Dk. ....	5-83		
Top.....	417		
Pop.....	620	31-0	52.42
Total .....	2142	2142	
Length of Ship .....	450.0	413.38	1/2 diff.
Corresponding percentage (Para. 11, 12, 13, or 14) } 91% ✓		431.69	÷ 450.0 = .96 ✓

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

8. 10. 21 Fresh Water Line above centre of Disc .....	7
Indian Summer Line " " " " .....	6 1/2
Winter Line below " " " " .....	6 1/2
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 1/10th of the vessel's length from stem and stern-post.

MARKING REPORT RECEIVED



*All frames extend to Shelter Deck as approved*

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

To what height do the Reverse Frames extend? *Bull angle 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?  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? *Complete Shelter Deck.*

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? *Yes*

How are the openings closed? *Storm boards full height in permanent channels.*

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 ~~Shelter Deck~~ *Shelter Deck* Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Yes.*

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'-0" x 18'-0"		No. 2. 29'-3" x 18'-0"		No. 3. 22'-6" x 18'-0"		No. 4+5. 27'-0" x 18'-0"		TONNAGE OPENING 4'-2" x 18'-0"		
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	
COAMING.	Height above top of DECK	30"	30"	30"	30"	30"	30"	30"	12"		
	Thickness	Sides	.44	.44	.50	.50	.50	.50	.40		
		Ends	.44	.44	.44	.44	.44	.44	.44		
SHIFTING BEAMS OR WEB PLATES.	Number	Five	Five	Five	Five	Five	Five	Five	None		
	Section and Scantlings	Plate .35 15" deep centre 7 1/2" sides Angles 4x3x.44	Plate .36 16" deep centre 8" sides Angles 4x3x.44	Plate .34 14" deep centre 7" sides Angles 4x3x.44	None						
	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel		
* FORE AND AFTERS.	Number	no fore and afters.									
	Section and Scantlings	no fore and afters.									
	Material	no fore and afters.									
HATCHES Thickness	3"	3"	3"	3"	3"	3"	3"	3"	3"		
Remarks	Sides and ends stiffened by 7" x 3" x .40 B.A.										

\* 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.

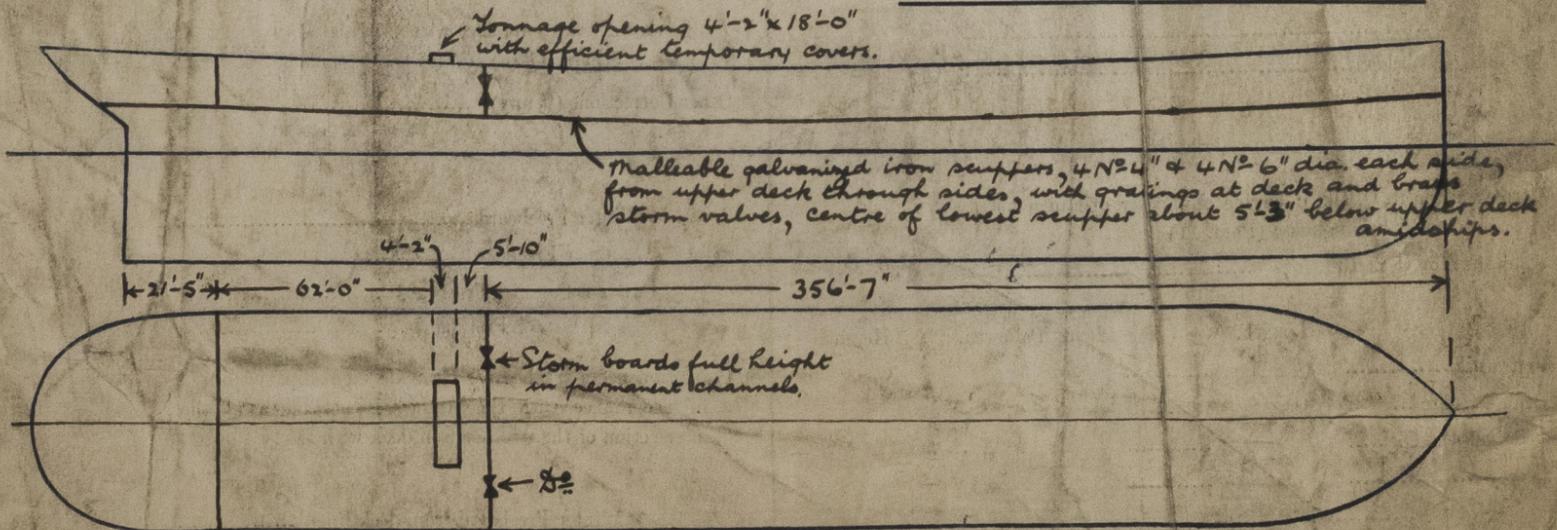
Length of Bulwarks in well

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

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

2.0 x 1.5 x 1

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. *Vessel to be classed 100A1 Shelter Deck with fbd.*

*Midship section, Profile, and Freeboard Request enclosed.*

Owners *Union S.S. Co., Ltd., New Zealand.*

Address

Fee £ 13 : 0 : 0

Received by me

*See Report*



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