

27 JUL 1932

32140

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(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Flush deck

Port of Survey SOUTHAMPTON

(Type of Superstructures.)

Date of Survey 14-19th July 1932

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

STONEWELLBRITISH1237808721906Name of Surveyor L. R. Home

Moulded Dimensions: Length

198

Breadth

32.00

Depth

17.50

Moulded displacement at moulded draught = 85 per cent. of moulded depth

2000

tons

Coefficient of fineness for use with Tables

743Particulars of Classification +100 A1Hopper BargeIn English Channel purposes

Depth for Freeboard (D)

Depth correction

Round of Beam correction S.S. Sows. No. 3Moulded depth 17.50(a) Where D is greater than Table depth
(D - Table depth) R =(17.58 - 13.20) 1.523 = +6.67

Moulded Breadth (B)

32.00Stringer plate 11/20Standard Round of Beam = $\frac{B \times 12}{50} =$ 7.68

Sheathing on exposed deck

 $T \left(\frac{L-S}{L} \right) = 21 \times \frac{36.50}{198} =$.04(b) Where D is less than Table depth (if allowed)
(Table depth - D) R =

Ship's Round of Beam

= 8"

Difference

.32Depth for Freeboard (D) = 17.58

If restricted by superstructures

Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.32}{4} =$ -.08

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Fore enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure

6.0

" " R.Q.D.

Deduction for complete superstructure

25.8Percentage covered $\frac{S}{L} =$ " " $\frac{S_1}{L} =$ " " $\frac{E}{L} =$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required)

Deduction =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>29.80</u>	1		<u>29.80</u>	<u>27</u>	<u>31.50</u>	<u>29.80</u>	1	<u>29.80</u>
$\frac{1}{2}$ L from A.P.	<u>13.26</u>	4		<u>53.04</u>	<u>12</u>	<u>14.22</u>	<u>13.26</u>	4	<u>53.04</u>
$\frac{2}{3}$ L "	<u>3.28</u>	2		<u>6.56</u>	<u>3 1/2</u>	<u>3.56</u>	<u>3.28</u>	2	<u>6.56</u>
Amidships		4			<u>0</u>			4	
$\frac{2}{3}$ L from F.P.	<u>6.56</u>	2		<u>13.12</u>	<u>6 1/2</u>	<u>6.32</u>	<u>6.56</u>	2	<u>13.12</u>
$\frac{1}{2}$ L "	<u>26.52</u>	4		<u>106.08</u>	<u>24 1/2</u>	<u>25.28</u>	<u>26.52</u>	4	<u>106.08</u>
F.P.	<u>59.60</u>	1		<u>59.60</u>	<u>56 3/4</u>	<u>59.00</u>	<u>59.60</u>	1	<u>59.00</u>
Total				<u>268.20</u>					<u>262.16</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ 6.0418x .75 =+ .25"

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 2028$ @ $15-1/4$

Tons per inch immersion at summer load water line

T = 13.2Deduction = $\frac{\Delta}{40T}$ inches= 3.84= 3 3/4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

2.97422.76743 + 68 = 14231.361.36+-

Depth Correction

6.67

Deduction for superstructures

✓

Sheer correction

25

Round of Beam correction

✓

Correction for Thickness of Deck amidships

✓

Other corrections, scantlings, etc.

✓6.92.56+ 6.36Summer Freeboard = 33.28

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

2-9 1/4

Tropical Fresh Water Line above Centre of Disc

Fresh Water Line " "

Tropical Line " "

Winter Line below " "

Winter North Atlantic Line " "

Tropical Fresh Water Freeboard

Fresh Water " "

Tropical " "

Winter " "

Winter North Atlantic " "



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Lloyd's Register
Foundation

W1306-000912

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	Peak	R & S. Bunker	Aft Hold	Aft Peak					
Dimensions of Hatchway	21' x 21'	3' 11" x 2' 5"	2' 7 1/2" x 0"	23' x 23'					
COAMINGS	Height above Deck	19"	18"	18 1/2"					
	Thickness	5/8"	5/8"	5/8"					
	Sides	✓	✓	✓					
	Stiffeners	✓	✓	✓					
HATCH BEAMS	Number								
	Spacing								
	Scantling and Sketch								
	Bearing Surface	1/4"							
FORE AND AFTERS	Number								
	Spacing								
	Unsupported Lengths								
	Scantling and Sketch								
HATCH COVERS	Material	Wood	Wood	Wood					
	Thickness	2 1/4"	3"	2 1/4"					
	How fitted	4 x 2	4 x 2	4 x 2					
	Bearing Surface	1/4"	1/4"	1/4"					
Spacing of Cleats		18"	2' 11"	2' 8 1/2"					
Number of Tarpaulins		2	2	2					

*Are wood fore and afters steel shod at all bearing surfaces? *no*
 Are battens and wedges efficient and in good condition? *yes*
 Are tarpaulins in good condition and in accordance with rule requirements? *good condition: only one for hatch.*
 Are lashings provided in accordance with rule requirements? *no*

Particulars of fiddle, funnel and ventilator coamings:— *Funnel & vent coamings efficient. Fiddle coaming of wood heavily constructed with 2 x 3" in top. Coaming 9" high. Steel plates provided not firmly attached.*

Particulars of Flush Bunker Scuttles:—

none

Particulars of Companionways:— *Centre: Fore deck. Height 5' 9", with 10" x 10" steel door 2' 2" x 8' 10" worked from both sides. 5/8" plating, stiffeners 8 x 3" at 20" pitch no brackets. 5th side: Fore deck. 5' 11" high. with 12", 18" steel door 2' 1" x 4' 6" worked from both sides. 5/8" plating no stiffeners. Companion way 2' 6 1/2" x 3' 9 1/2" with 3 x 3" angles at corners.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:— *Fore accommodation: 2, 8" green neck C.I. Vents 21" high. 6, 8" Vents with 8" x 8" coamings. 4, 6" mushroom Vents, 19 1/2" high. Aft hold: 1, 7" mushroom Vent 9 1/2" high. 2, 4" green neck C.I. Vents 21" high & 1, 12" high. 1, 3" green neck C.I. Vent 21" high. wood plug & canvas covers provided*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

F. Peak. 8 1/2" green neck 8' high. F.W. Tanks. 1 1/2" 2' 3" high.

wood plug & canvas covers provided

Particulars of Gangway Cargo and Coaling Ports:—

none

Particulars of Scuppers and Sanitary Discharge Pipes:—

3, 4 1/2" valves C.I. and pipes attached.

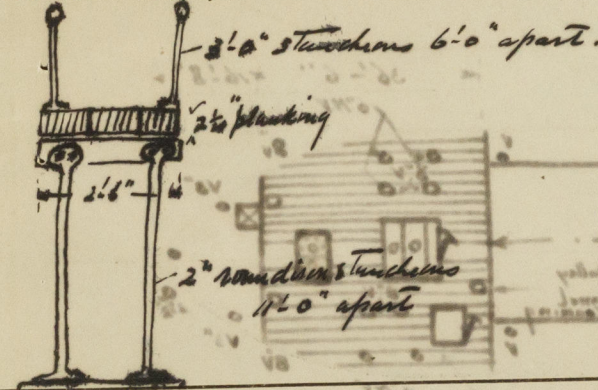
Particulars of Side Scuttles:—

none

Particulars of Guard Rails:—

In way of ladders 2 chains each side on highest stanchions 8' 0" high or 6' 0" apart

Particulars of Gangways, Lifelines, etc.:—



Gangway in Stoppers String back.

Particulars of Freeing Arrangements.						
	Length of Bulkhead	Height of Bulkhead	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	79' 7"	3' 2"	24" x 9 1/4"	1		
Forward Well			<i>open rails</i>			
State position of each freeing port ... After Well:— 55' 6" aft of After Well. 8" above deck. (F. and A. position and height above deck edge) Forward Well:— <i>Slung shutters</i> State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Additional area where sheer is less than standard.						

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	3/8"	1/4"	3 x 3"	30"	Brackets Top	11" x 2' 0"	28"	7' 0"
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								
Particulars of Closing Appliances (state if capable of being manipulated from both sides).								
Poop Bulkhead								
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

19 1/2" x 1 1/2" Tank doors manipulated with sides.

Hand-drawn technical drawing of a ship's hull and deck layout. The drawing shows a side profile of the hull with a superstructure deck and a freeboard deck. The hull is labeled "Hopper Wall" and "Gangway". Dimensions are given in feet and inches, including 99' for the overall length, 36'-6" for the beam, and 16'-8" for the depth. The drawing also shows the location of various equipment, including a 6" gun, 8" gun, 20" gun, and 20" gun. The hull is shown with a 3" wood sheathing. The drawing is dated 23.

State any special features in the construction of the ship:—

Thyrid glaucum. 8" above black
20-25 deep upper wall.

Owners.

Fee £

6:16

Received by me.