

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.Index. No. 33908
(For London Office only.)

18 JUL 1932

Reg 9 attached

Shd No. 107

33908

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having *Raised Quarter Deck, Bridge & Forecastle.*Port of Survey *HULL (Goole)*

(Type of Superstructures.)

Date of Survey *15th July 1932*

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

*"Wallace Rose"**Br. Liverpool 162336**632**1931*Name of Surveyor *G. Moffatt*Moulded Dimensions: Length *175'* Breadth *26'6"* Depth *13'*Moulded displacement at moulded draught = 85 per cent. of moulded depth *1120* tonsCoefficient of fineness for use with Tables *.751*Particulars of Classification *1100 A1*
bargo battens not fitted.

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	13'	(a) Where D is greater than Table depth (D - Table depth) R = $(13.04 - 11.67) 1.346$ = $+1.84"$		Moulded Breadth (B)	27.00
Stringer plate	4"	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	6.48
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$				Ship's Round of Beam	6 3/4"
Depth for Freeboard (D) =	13.04	If restricted by superstructures		Difference	.27
				Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.27}{4} \times .2329 = -.02$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure <i>6.00</i>
" overhang ...						" " R.Q.D. <i>3.50</i>
R.Q.D. enclosed ...	100.8	100.80	3.5		100.80	Deduction for complete superstructure <i>23.50</i>
" overhang ...						Percentage covered $\frac{S}{L} = 76.84\%$
Bridge enclosed ...	11	11.00	7		11.00	" " $\frac{S_1}{L} = 76.72\%$
" overhang aft ...						" " $\frac{E}{L} = 76.72\%$
" overhang forward	22.24	22.24	6.75		22.24	Percentage from Table, Line A. <i>71.26</i>
Fore enclosed ...	24.5	21			21	(corrected for absence of forecastle (if required))
" overhang ...	4.3					Percentage from Table, Line B.
Trunk aft ...						(corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...						Deduction = $23.50 \times .7126 = -16.74$
" forward						
Total ...	134.47	134.25			134.25	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	27.50	1		27.50	46.00	46.00	1		46.00	Mean actual sheer aft = <i>Excess</i>
1/2 L from A.P. ...	12.24	4		48.96	18.50	18.56	4		74.24	Mean actual sheer forward = <i>Excess</i>
3/4 L " ...	3.02	2		6.04	4.50	4.64	2		9.28	Mean standard sheer forward
Amidships ...		4		0			4			Length of enclosed superstructure forward of amidships = <i>.139L</i>
3/4 L from F.P. ...	6.05	2		12.10	6.00	6.02	2		12.04	" " aft of " = <i>.5L</i>
1/2 L " ...	24.48	4		97.92	25.00	24.09	4		96.36	
F.P. ...	55.00	1		55.00	58.50	58.50	1		58.50	
Total ...	247.50			247.52					296.42	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{48.9}{18} \left(.75 - \frac{.3842}{.2329} \right) = -.99$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = *16.54*Summer freeboard = *3.85*Moulded draught (d) = *12.69*

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = *3.17 = 3 1/4*Addition for Winter North Atlantic Freeboard (if required) = *2"*

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

T = *not available*Deduction = $\frac{\Delta}{40T}$ inches= *3 1/4"*

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

 $\frac{.151 + .68}{1.36} = \frac{.831}{1.36}$

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

Summer Freeboard = *46.13*SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, *Raised Quarter Deck*, Steel Deck:—

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 " " ...

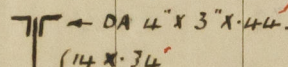
20 JUL 1932

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MARKING FORM
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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Description of Hatchway	Fore Hatch	Main Hatch	Bunker Hatch on casing top	Lazarette Hatch
Dimensions of Hatchway	29'4" X 17'6"	33' X 17'6"	12'6" X 7'	2'10" X 2'
COAMINGS	Height above Deck ... 45" Thickness { Sides ... 52" { Ends ... 52" Stiffeners ... B.A. 7 X 3 X 5 " 11 1/2" down Brackets, Stays ... 3 even	Height above Deck ... 42" Thickness { Sides ... 52" { Ends ... 52" Stiffeners ... B.A. 7 X 3 X 5 " Brackets, Stays ... 4 even	Height above Deck ... 13" Thickness { Sides ... 3" { Ends ... 3" Stiffeners ... none Brackets, Stays ... none	Height above Deck ... 15 1/2" Thickness { Sides ... 44" { Ends ... 44" Stiffeners ... none Brackets, Stays ... none
HATCH BEAMS	Number ... 5 Spacing ... even Scantling and Sketch ...  Bearing Surface ... 3"	Number ... 6 Spacing ... even Scantling and Sketch ... Same! Bearing Surface ... 3"	Number ... none Spacing ... none Scantling and Sketch ... none Bearing Surface ... none	Number ... none Spacing ... none Scantling and Sketch ... none Bearing Surface ... none
FORE AND AFTERS	Number ... none Spacing ... none Unsupported Lengths ... none Scantling and Sketch ... none Bearing Surface ... none	Number ... none Spacing ... none Unsupported Lengths ... none Scantling and Sketch ... none Bearing Surface ... none	Number ... none Spacing ... none Unsupported Lengths ... none Scantling and Sketch ... none Bearing Surface ... none	Number ... none Spacing ... none Unsupported Lengths ... none Scantling and Sketch ... none Bearing Surface ... none
HATCH COVERS	Material ... W. Wood Thickness ... 2 1/2" How fitted ... f.a. Bearing Surface ... 3" x 4"	Material ... Same Thickness ... Same How fitted ... Same Bearing Surface ... Same	Material ... W. Wood Thickness ... 2 1/2" How fitted ... f.a. Bearing Surface ... 2" x 23"	Material ... W. Wood Thickness ... 2 1/2" How fitted ... a.h.w. Bearing Surface ... 2" x 20"
Spacing of Cleats	24"		23"	20"
Number of Tarpaulins	2		1	1
*Are wood fore and afters steel shod at all bearing surfaces? Yes Are battens and wedges efficient and in good condition? Yes Are tarpaulins in good condition and in accordance with rule requirements? Yes Are lashings provided in accordance with rule requirements? Yes				

Particulars of fiddle, funnel and ventilator coamings:— *Stokehold gratings covered by strong steel covers (+ hinged and portable). Fiddlely & funnel vents in efficient condition. Engine skylight of steel strongly constructed. Bunker hatch on casing top 12'6" x 7' with 13" coaming. Hatches (wood) 2 1/2" thick fitted f.a. Battens good - cleats 23" apart - 1 tarpaulin.*

Particulars of Flush Bunker Scuttles:—

none.

Particulars of Companionways:— *1 companionway through Bridge Deck inside Enc Bridge Erection, leading to Enc Bridge Space Accomodation. Size 2'6" x 2'1". Wood (teak) door 1 1/4" thick fitted spring lock opening both sides: sill 16".*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

2 b.i. vents in Forecastle Deck 4" dia by 8" x 1/8" leading to Forecastle Accom.
 2 steel " " " " 6" " " 30" x 3 "
 2 b.i. " " " " 3" " " 4" x 1/8 "
 1 steel " " " " 15" " " 26" x 35 "
 1 " " " " 15" " " 60" x 35 "
 2 " " " " 15" " " 42" x 35 "
 1 1/4 " " " " 3 1/2" " " 43" x 3 "
 1 1/4 " " " " 3 1/2" " " 43" x 3 "

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

1 b.i. air pipe on Forecastle Deck 3" dia x 4" high to Fore Peak Tank.
 2 " " " " 3" " x 35" " " Fore D.B. Tank
 2 " " " " 3" " x 3" " " aft D.B.
 1 " " " " 3 1/2" " x 36" " " aft Peak (screw cap)
 1 " " " " 2 1/2" " x 36" " " W. Tank in Lazarette

Particulars of Gangway Cargo and Coaling Ports:—

none.

Efficient means of closing air pipes provided



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Particulars of Scuppers and Sanitary Discharge Pipes :—

2 Scuppers e/s of Fore Well Deck. 5' x 3" in Gunwall bar.

5. " " " " Raised Ptr " 4" x 3"

Sanitary Discharges. (2) 4" pipes from Forecastle Accom. discharging above
freeboard deck - no non return valve or trap.
(1) 6" pipe from Enc. Bridge Space Accom. discharged approx 2' below freeboard deck
non return valve at ship's side - no trap.

Particulars of Side Scuttles:—

Substantially constructed side scuttles, fitted with hinged deadlights in Forecastle Crew Space and Enc Bridge Space Accommodation.

Particulars of Guard Rails :—

Forecastle Deck:- 2 rails in stanchions 3' high 4' apart. ✓

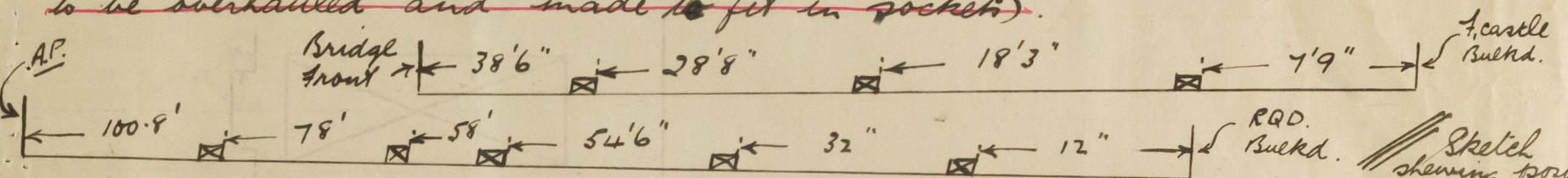
Fore well " :- Steel bulwarks 3'9" high, efficiently supported.

Bridge	"	"	"	"	3' 3"	"
Paved Rte.	"	"	"	"	3' 1/4"	"

Raised 4 1/2 " :- " " 3'6" " "

Particulars of Gangways, Lifelines, etc. :—

Particulars of Gangways, Lifelines, etc.:— On P.S. of Fore Well Deck, a lifeline fitted in portable stanchions 4' high (fitted into sockets in hatch stiffener) and 9'6" apart. (~~1 stanchion missing to be replaced and remainder to be overhauled and made to fit in sockets~~).



Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
Fore Well ... R.Q.D ...	100.8'	3'6"	2'6" x 1'6" 1'8" x 1'4"	4 1	17.22 ✓	20.16 ϕ
Forward Well ...	38.7'	3'9"	2'6" x 1'6"	3	11.25 ✓	10.364 ✓

State position of each freeing port	} After Well:—	8½"
(P and A. position and height above deck edge)				} Forward Well:—	8½"

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— 2 rails - open.

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 ... ..	.26"	.26" ← not accessible			→ none	✓ 3'6"		
Bridge, Forward Bulkhead ... ..	.3"	.3" ← ^{5 1/2 x 3 x 3/4} 30" not accessible			Bkls → none	✓ 7'		
Forecastle Bulkhead ... ..	.3"	.3" 3" x 2 1/2" x 3"	30"	none	(3) 4'9" x 1'10"	20"	6'9"	
Trunk Aft								
Trunk, Forward								
Exposed Machinery Casings on Trunk Raised Quarter Decks ... ..	.3"	.3"	3" x 2 1/2" x 3"	30"	Brack at tops	(4) 4'9" x 1'10" (2) 1'6" x 1'6"	19" 54"	6'9" 7'10"
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).

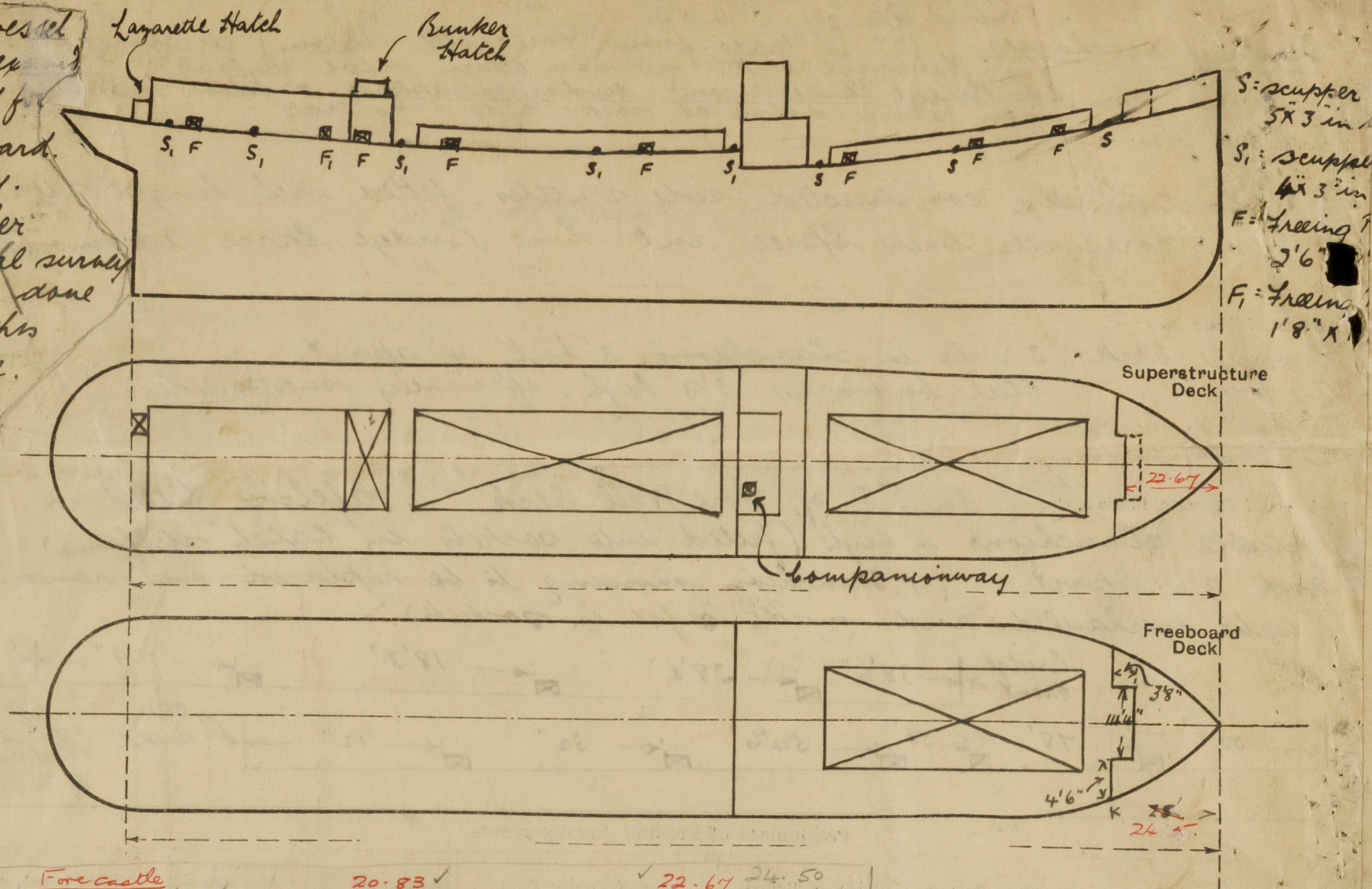
Deep Bulkhead	... ..
Raised Quarter Deck Bulkhead	... }	<i>no openings -</i>
Bridge, After Bulkhead	... }	
Bridge, Forward Bulkhead	... ..	<i>no openings -</i>
Forecastle Bulkhead	... ..	(3) <i>Steel doors; spring locks, opening both sides (locks to repair)</i>
Exposed Machinery Casings on Fore-	...	
ward or Raised Quarter Decks	... {	
Exposed Machinery Casings on Super-	(4) " " "	
structure Decks	(2) " "(drop down-hinged) in bunker casing sides - opening	
Machinery Casings within Superstruc-	tures not fitted with Class I Closing	
Appliances	... ..	<i>one side only.</i>
Deckhouses on Flush Deck Ships	...	

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coal hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—

This vessel was ex afloat for freeboard only.

No other special survey work done at this time.

by



Fore castle 20.83 ✓
S. House 4.5 x 3.67 1.41 ✓
11.67 ✓ 22.24 ✓

22.67 24.50 ✓
22.24 1.93 ✓
43 overhang ✓

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

none.

OMIT.

Builder's name and yard number N. Y. Schipsen. de. Gierwede. Hardinxveld.

Names of sister ships

Owners

R. Hughes & Co., Liverpool

Fee £

6: 16: -

Received by me

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