

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. 23068
(For London Office only.)
 Computation of Freeboard for Steamer, Sailing Ship, Tanker
 having Raised Quarter Deck. Bridge & Tole
Port of Survey BarryDate of Survey August 8th 1932Name of Surveyor H. Middlemiss
 (Type of Superstructures.)
 Ship's Name BLUSH ROSE. Nationality and Port of Registry Liverpool British Official Number 135482 Gross Tonnage 645 Date of Build 1913-6.

 Moulded Dimensions: Length 178.25 Breadth 28.00 Depth 13.42
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 1190 tons
 Coefficient of fineness for use with Tables 732

 Particulars of Classification 100 A.1.
S.S. Gen. No. 3. 4. 26
S.S. Hull. No. 1-31.

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth 13.42	(a) Where D is greater than Table depth (D - Table depth) R = (13.45 - 11.88) 1.371 = +2.15	Moulded Breadth (B) 28.00
Stringer plate 03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 6.72$
Sheathing on exposed deck <u>Bridge & Tole 3"</u> $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = <u>7.0</u>
Depth for Freeboard (D) = <u>13.45</u>		Difference .28
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.28}{4} \times .2488 = -.02$

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 ✓	<u>103.14</u>	<u>103.14</u>	<u>4'-0"</u>		<u>103.14</u>
" overhang ✓					
Bridge enclosed ✓	<u>11.1</u>	<u>11.10</u>	<u>7'-0"</u>	✓	<u>11.10</u>
" overhang aft ✓					
" overhang forward ✓					
F'cle enclosed <u>open</u> ✓	<u>21.5</u>	<u>19.66</u>	<u>6'-9"</u>	✓	<u>19.66</u>
" overhang ✓					
Trunk aft ✓					
" forward ✓					
Portage opening aft ✓					
" forward ✓					
Total	<u>135.74</u>	<u>133.90</u>			<u>133.90</u>

 Standard Height of Superstructure 6.0
 " " R.Q.D. 3.522
 Deduction for complete superstructure 23.82
 Percentage covered $\frac{S}{L} = 76.16\%$
 " " $\frac{S_1}{L} = 75.12\%$
 " " $\frac{E}{L} = 75.12\%$
 Percentage from Table, Line A. 69.30%
 (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 = $23.83 \times .6930 = -16.51$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>27.825</u>	1		<u>27.82</u>	<u>42.0</u>	<u>47.74</u>	1		<u>47.74</u>
$\frac{1}{2}L$ from A.P.	<u>12.38</u>	4		<u>49.52</u>	<u>16.6</u>	<u>21.24</u>	4		<u>84.96</u>
$\frac{2}{3}L$ "	<u>3.06</u>	2		<u>6.12</u>	<u>4.14</u>	<u>5.25</u>	2		<u>10.50</u>
Amidships	✓	4		✓	✓	✓	4		✓
$\frac{2}{3}L$ from F.P.	<u>6.12</u>	2		<u>12.24</u>	<u>6.5</u>	<u>6.50</u>	2		<u>13.00</u>
$\frac{1}{2}L$ "	<u>24.76</u>	4		<u>99.04</u>	<u>26.1</u>	<u>26.10</u>	4		<u>104.40</u>
F.P.	<u>55.65</u>	1		<u>55.65</u>	<u>58.0</u>	<u>58.00</u>	1		<u>58.00</u>
Total				<u>250.39</u>					<u>318.60</u>

 Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{68.21}{18} \times (.75 - .3808) = -1.40$

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.

 Ft.
 Depth to Freeboard Deck = 17.45
 Summer freeboard = 4.37
 Moulded draught (d) = 13.08

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 3.27 = 3.4Addition 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

 $T =$ Deduction = $\frac{\Delta}{40T}$ inches= 3.4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.732 + .68}{1.36} = \frac{1.412}{1.36}$

	+	-
Depth Correction	<u>2.15</u>	✓
Deduction for superstructures	✓	<u>16.51</u>
Sheer correction	✓	<u>1.40</u>
Round of Beam correction	✓	<u>.02</u>
Correction for Thickness of Deck amidships	✓	<u>48.00</u>
Other corrections, scantlings, etc.	✓	✓

 50.15 17.93 + 22.22
 Summer Freeboard = 52.51
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:-
 Tropical Fresh Water Line above Centre of Disc 5.34
 Fresh Water Line 3.4
 Tropical Line (LIMITED) 2.2
 Winter Line below " 3.4
 Winter North Atlantic Line " 5.4

 Tropical Fresh Water Freeboard 3'-10.34"
 Fresh Water 4'-1.4
 Tropical (LIMITED) 4'-2.1
 Winter 4'-7.34
 Winter North Atlantic 4'-9.34

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway		No 1.	No 2						
Dimensions of Hatchway		27'-6" x 15'-6"	31'-2" x 15'-6"						
COAMINGS	Height above Deck	36" ✓							
	Thickness { Sides	4" ✓	5" ✓						
	Ends	none ✓							
	Stiffeners	2-2" Solid ✓	none ✓						
HATCH BEAMS	Brackets, Stays								
	Number	5	6						
	Spacing	4'-7"	4'-5½"						
	Scantling and Sketch	3 x 3 x 36 18½" x 32 3 x 3 x 36							
FORE AND AFTERS	Bearing Surface	3" ✓							
	Number								
HATCH COVERS	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch								
	Bearing Surface								
HATCH COVERS	Material	wood ✓							
	Thickness	2¾" ✓							
	How fitted	F + A. ✓							
	Bearing Surface	3" ✓							
Spacing of Cleats		24" ✓							
Number of Tarpaulins		2. ✓							

*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:— *Engine skylight of steel, strongly constructed, with steel flaps and bulldogs. ✓*
Funnel and ventilators of good sound construction. ✓
Fiddle gratings have hinged steel covers fitted. ✓

Particulars of Flush Bunker Scuttles:—

none ✓

Particulars of Companionways:— *To crewspace, under forecastle deck, 3'-6" x 3'-0" x 6'-9" high of steel, with hinged steel door 4'-6" x 20" x 19" sill. ✓*
To midship accommodation, continuation of bridge deckhouse of steel, with hinged tank door 4'-6" x 20" x 19" sill. ✓

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

on Fore deck: 1- 15" dia x 26 x 36" high to hold. ✓
on Quarter " : 1- 15" " x 26 x 36" " " " " ✓

Closing appliances provided

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

on Forecastle deck: 1- 2½" Swan neck 3" high to peak. ✓
" Fore " 1- 2½" " " 4" " double bottom. ✓
" Quarter " 2- 2" " " 29" " " " " " ✓
" " 1- 2½" " " 4" " to aft peak. ✓

Closing appliances provided

Particulars of Gangway Cargo and Coaling Ports:—

none. ✓



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Particulars of Scuppers and Sanitary Discharge Pipes

Sanitary discharge from midship accommodation led below freeboard deck with storm valve on ship's side.

Particulars of Side Scuttles:

In crewspace below freeboard deck, 8" diam of good sound construction, and fitted with hinged deadlights. Top edge of scuttle from deck above 8".

Particulars of Guard Rails:—

On Forecastle Deck, 3'-0" high - 2 Rails + stanchions 4'-6" apart. On Bridge Deck, Steel bulwark, 3'-3" high of strong construction.

Particulars of Gangways, Lifelines, etc.:—

Lifelines fitted from Bridge to Forecastle, across No 1 Hatch and with gangway from Bridge ladder.

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ...	103.14 101.0	3-7"	30" + 18" 29" x 18"	2 4	20 1/2 14.52	20.6 20.0
Forward Well ...	42.51 42.1	3-9"	31" x 18"	3	11.60	10.75
State position of each freeing port ... } After Well:— 18'-0", 38'-0", 56'-6", 83'-0" from Bridge Bulkhead to centre of ports. (F. and A. position and height above deck edge) } Forward Well:— 8'-0", 18'-6", 30'-0" State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Hinged shutters on quarter deck, + fitted with one bar across on fore deck. Height above deck edge 8". Additional area where sheer is less than standard.						

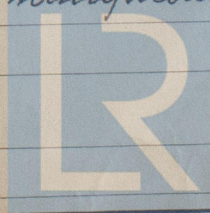
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	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 ✓	3 x 3 x .32	30" ✓	none	See Companion	none	3'-0" ✓
Bridge, Forward Bulkhead ...	.32 ✓	.32 ✓	6 x 3 x .40	30" ✓	Brackets top + bottom.	none	none	7'-0" ✓
Forecastle Bulkhead ...	✓							
Trunk, Aft ...	✓							
Trunk, Forward ...	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	.34 ✓	.16 ✓	2 x 3 x .30	30" ✓	Brackets at top	4'-6" x 20"	20"	6'-9" ✓
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 ...	no openings
Bridge, After Bulkhead ...	Hinged wood door in companion. ✓
Bridge, Forward Bulkhead ...	✓
Forecastle Bulkhead ...	open ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	Hinged steel doors, locks + handles manipulated both sides. ✓
Exposed Machinery Casings on Superstructure Decks ...	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓
Deckhouses on Flush Deck Ships ...	✓

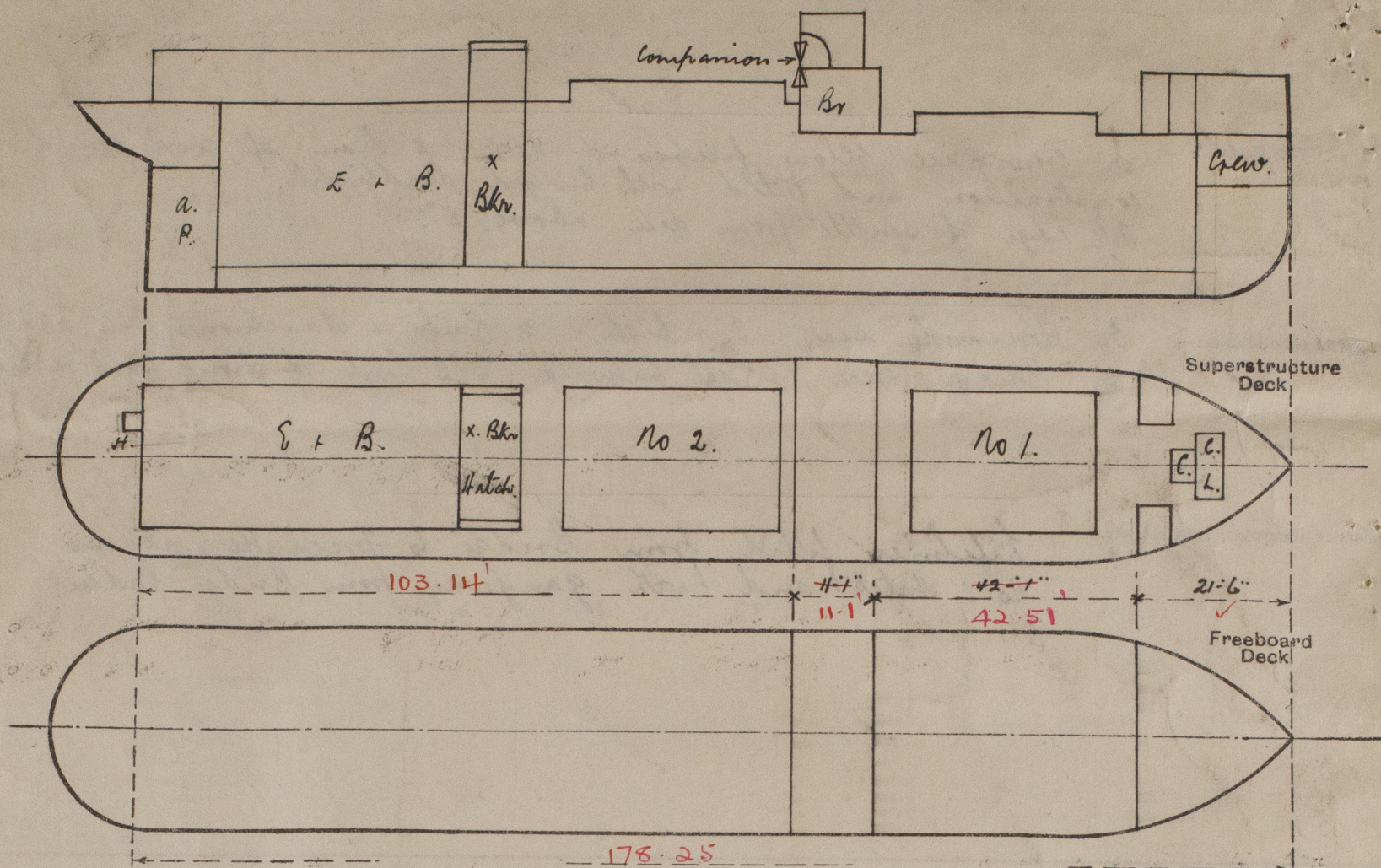
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Black Rose

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling 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 shewn on the following sketches:—



Gross Beamers Hatch on casing top, 6'-4" x 13'-6" x 15" coaming.
 Rests 2", Coams 2 1/2", Cleats 24" apart, Battens and 1. Tarpsaulins. ✓
 Aft Peak Store Hatch 2'-2" x 3'-0" x 18" coaming, Rests 2", Coams 2".
 Cleats 22" apart, Battens and Tarpsaulins. ✓

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

Measured afloat for freeboard purposes only. ✓

No draught particulars available.

Builder's name and yard number *N.V. Schrob. de merwede. Hardingeveild.*

Names of sister ships

Owners *R Hughes + Co.*

Fee £ *6 : 16 : 0.*

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