

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. 23671
(For London Office only.)

No. 5119.

 Computation of Freeboard for Steamer, Sailing Ship, Tanker
 having POOP BRIDGE FORECASTLE.
Port of Survey DUBLIN.Date of Survey 3rd FEBRUARY 1934.Ship's Name MARIA ROSA. (Type of Superstructures.)(TRITON)
 Nationality and Port of Registry GREEK, ITHACA.
 Official Number 44 Gross Tonnage 4211 Date of Build 1914-5
Name of Surveyor R.B. Grier.Particulars of Classification +100 A1Moulded Dimensions: Length 369.5' Breadth 50.66' Depth 28.9'Moulded displacement at moulded draught = 85 per cent. of moulded depth 10338 tonsCoefficient of fineness for use with Tables .787.

Depth for Freeboard (D)

Moulded depth 28.75'Stringer plate 3.4

Sheathing on exposed deck

 $T \left(\frac{L-S}{L} \right) =$ ✓Depth for Freeboard (D) = 28.79

Depth correction

(a) Where D is greater than Table depth
(D-Table depth) R = $(28.79 - 28.63) 2.842$ = + 11.82" ✓(b) Where D is less than Table depth (if allowed)
(Table depth-D) R = ✓If restricted by superstructures ✓

Round of Beam correction

Moulded Breadth (B) 50.66'Standard Round of Beam = $\frac{B \times 12}{50} =$ 12.156Ship's Round of Beam = 12.2Difference +.07

Restricted to

Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.07}{4} \times .5751 = -.01$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<u>22.25'</u>	<u>22.25'</u>	<u>7'</u>	<u>✓</u>	<u>22.25'</u>
" overhang ...	<u>✓</u>				
R.Q.D. enclosed ...	<u>✓</u>				
" overhang ...	<u>✓</u>				
Bridge enclosed...	<u>99.87'</u>	<u>99.87'</u>	<u>8'</u>	<u>✓</u>	<u>99.87'</u>
" overhang aft ...	<u>✓</u>				
" overhang forward	<u>✓</u>				
Fore enclosed ...	<u>34.87'</u>	<u>34.87'</u>	<u>7'</u>	<u>7.00</u> <u>7.195</u>	<u>33.93</u>
" overhang ...	<u>✓</u>				
Trunk aft ...	<u>✓</u>				
" forward ...	<u>✓</u>				
Tonnage opening aft ...	<u>✓</u>				
" forward	<u>✓</u>				
Total ...	<u>156.99</u>	<u>156.99</u>			<u>156.05</u>

Standard Height of Superstructure 7.195 ✓" " R.Q.D. ✓Deduction for complete superstructure 39.96" ✓Percentage covered $\frac{S}{L} =$ 42.49% ✓" $\frac{S_1}{L} =$ 42.49% ✓" $\frac{E}{L} =$ 42.24% ✓

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required)) 29.40% ✓

Interpolation for bridge less than 2L (if required)

Deduction = 39.96 × .294 = - 11.75

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	<u>46.95</u>	1	<u>46.95</u>	<u>55.5</u>	<u>55.50</u>	1	<u>55.50</u>
$\frac{1}{8}L$ from A.P. ...	<u>20.90</u>	4	<u>83.60</u>	<u>22.0</u>	<u>22.29</u>	4	<u>97.16</u>
$\frac{3}{8}L$ " ...	<u>5.16</u>	2	<u>10.32</u>	<u>9.0</u>	<u>6.07</u>	2	<u>12.14</u>
Amidships ...	<u>✓</u>	4	<u>✓</u>	<u>✓</u>	<u>✓</u>	4	<u>✓</u>
$\frac{5}{8}L$ from F.P. ...	<u>10.32</u>	2	<u>20.64</u>	<u>13.5</u>	<u>12.05</u>	2	<u>24.10</u>
$\frac{7}{8}L$ " ...	<u>41.80</u>	4	<u>167.20</u>	<u>48.0</u>	<u>48.19</u>	4	<u>192.76</u>
F.P. ...	<u>93.90</u>	1	<u>93.90</u>	<u>109.0</u>	<u>109.00</u>	1	<u>109.00</u>
Total ...	<u>✓</u>		<u>422.61</u>	<u>✓</u>	<u>✓</u>		<u>490.66</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{68.05}{18} \left(.75 - \frac{156.99}{2 \times 369.5} \right) = -2.04"$

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.

Depth to Freeboard Deck = Ft.Summer freeboard = ✓Moulded draught (d) = ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = ✓Addition for Winter North Atlantic Freeboard (if required) = ✓

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 = $\frac{\Delta}{40 T}$ inches= ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.787 + .68}{1.36} = \frac{1.467}{1.36}$ Depth Correction 11.82Deduction for superstructures 11.75Sheer correction 2.04Round of Beam correction01Correction for Thickness of Deck amidships ✓Other corrections, scantlings, etc. ✓Summer Freeboard = 65.27-18

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

Tropical Fresh Water Line above Centre of Disc ...	<u>11' = 279</u>	Tropical Fresh Water Freeboard ...	<u>5'-4 3/4" = 16.45</u>
Fresh Water Line " " ...	<u>6' = 152</u>	Fresh Water " " ...	<u>4'-5 3/4" = 13.66</u>
Tropical Line " " ...	<u>5' = 127</u>	Tropical " " ...	<u>4'-10 3/4" = 14.93</u>
Winter Line below " " ...	<u>5' = 127</u>	Winter " " ...	<u>4'-11 3/4" = 15.78</u>
Winter North Atlantic Line " " ...	<u>✓</u>	Winter North Atlantic " " ...	<u>5'-9 3/4" = 17.72</u>

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TRITON

Particulars of fiddle, funnel and ventilator coverings:— The stokehold gratings are covered by steel hinged covers. / Fiddle and funnel ventilators in efficient condition. / Engine skylight of steel strongly constructed. /

None.

Particulars of Companionways:— one steel companion 4' x 4' x 5' 10" high on poop deck leading to enclosed poop; door of wood 1½" thick, with 16" sill, operated from both sides. ✓

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—									
2	No Vents on Fore deck	17" DIA. COAMINGS	36" x .35	led to No 1 Hold.	All Ventilators				
2	" " "	17" " "	36" x .35	" " " 2A "	constructed in accordance				
2	" " Bridge derrick	" " "	" " "	" " " 3 "	with rules and coamings				
2	" " AFT DECK	17" DIA. COAMINGS	36" x .35	" " " 4 "	closed with wood plugs				
2	" " " "	17" " "	36" x .35	" " " TUNNEL "	and canvas covers.				
1	" " " "	to be removed	28" x .3	" " " AFT PEAK "					
1	" " POOP	12" " "	" " "	" " " TW. DECK, BUNKER "					
4	" " BRIDGE	to be repaired	" " "						

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

2 1/2"	Air pipes on foreccastle deck	24" high	x 3 1/2" dia	from F.P.
1"	" " UNDER "	36" "	x 3 1/2" "	No 1 P.B.T.
2"	" " ON fore deck	36" "	x 2 1/2" "	" "
2"	" " ON aft "	36" "	x 2 1/2" "	No 3 " A.P.T.
1"	" " " " " "	36" "	x 2 1/2" "	" "

Special means of closing provided.

None ✓

Particulars of Scupperns and Sanitary Discharge Pipes — all above freeboard deck.
one scupper Port & one W.C. discharge in way of saloon.
" " " " " Officers quarters.
one W.C. Port & stand. " " " " " poop.
C.P. storm valves fitted on ship's side.

Particulars of Side Scuttles: No side scuttles below freeboard deck. /
Side scuttles to crew's space in poop are provided with hinged deadlights. /

Particulars of Guard Rails:— Guard rails on Roof, Bridge & Forecastle 3 ft. high with 3 rods and stanchions spaced 4' apart. On freeboard deck in wells steel bulwarks 3'-11" high, efficiently constructed and supported.

Particulars of Gangways, Lifelines, etc. :—

none.

Levell's provision made for reggng life-lines available
for use in all parts of the ship. which might ham &
be used by the crew in the regular working thereof.

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	110'-6"	3'-11"	3' x 1'-3" 3'-3" x 1'-6"	4	18.375 $\frac{1}{2}$	22.10 $\frac{1}{2}$
Forward Well	102'	3'-11"	3' x 1'-3" 3'-3" x 1'-6"	4	18.375 $\frac{1}{2}$	20.10 $\frac{1}{2}$
<p>State position of each freeing port } After Well: — Fore & aft end of hatches. 17"</p> <p>(F. and A. position and height above deck edge) } Forward Well: — Fore & aft end of hatches. 12"</p> <p>State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such: — shutters.</p> <p>Additional area where sheer is less than standard.</p>						

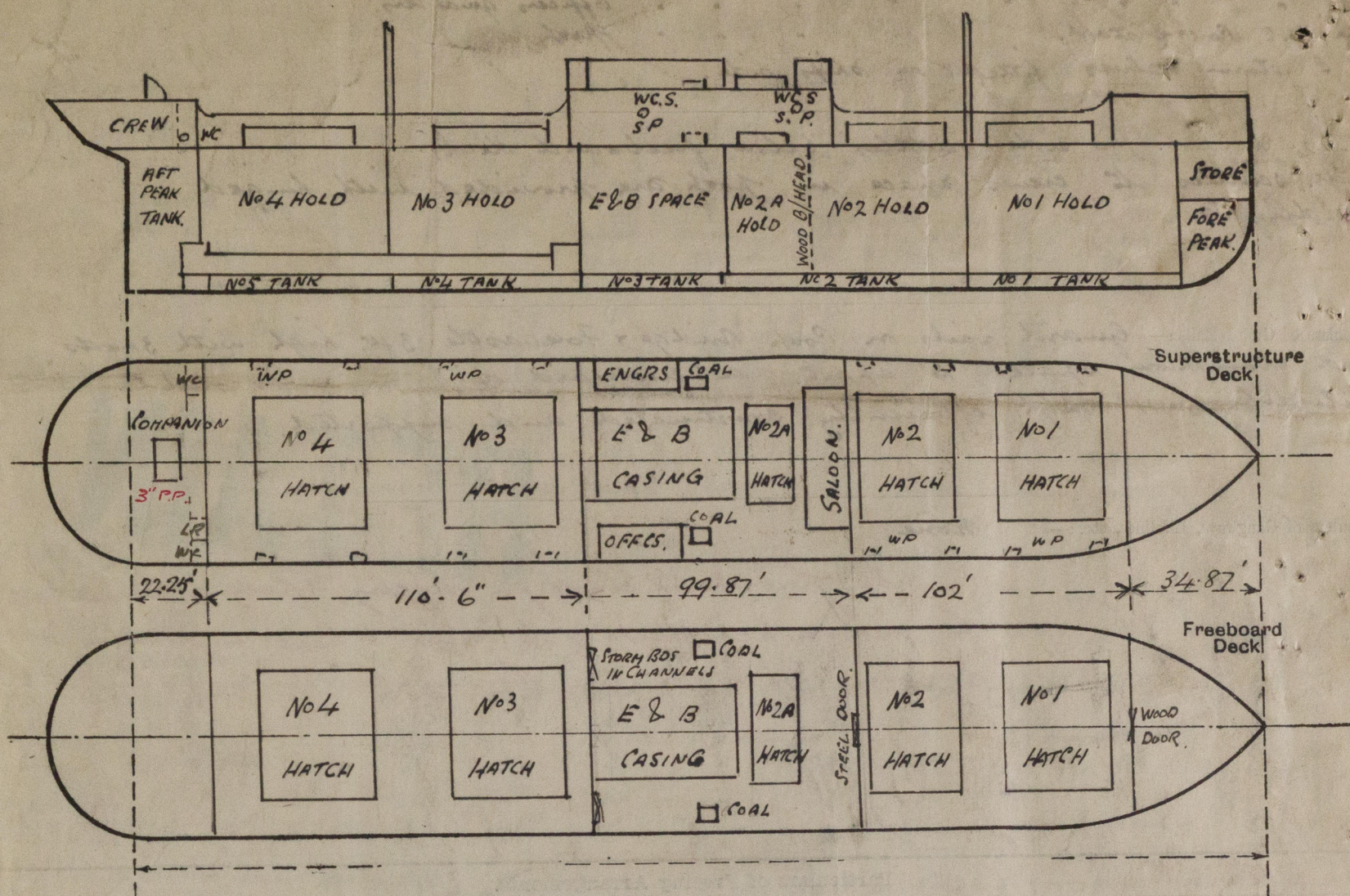
Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	24" x 5"	4	6" x 3" x 4	2' - 2"	none	none ✓	none	7'
Raised Quarter Deck Bulkhead ...	"				none	2' x 4' - 6"	22"	8'
Bridge, After Bulkhead	24" x 35"	3	3½" x 3" x 32	3' - 8"	none	4' x 7'	62"	8'
Bridge, Forward Bulkhead	24" x 5"	36	8" x 3½" x 5"	2' - 6"	legs top + bottom	3' 3½" x 4' 4½"	24"	8'
Forecastle Bulkhead	24" x 4"	3	3½" x 3" x 32	3' - 6"	none	5' 5" x 3' 7"	16"	7'
Trunk, Aft	"							
Trunk, Forward	"							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	"							
Exposed Machinery Casings on Super-structure Decks	16" x 32	3	4½" x 3" x 42	3' - 8"	Beams, Top	4' 6" x 2'	15½"	7'
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	17" x 35"	3	4½" x 3" x 42	3' - 8"	none	4' 6" x 2'	17½"	8'
Deckhouses on Flush Deck Ships ...	"							

[illegible]

Particulars of Closing		Remarks
Poop Bulkhead	...	✓ No openings.
Raised Quarter Deck Bulkhead	...	✓
Bridge, After Bulkhead	...	TO R.R. steel door . 32 operated from both sides. To B.R.D.G. 3" storm boards fitted in riveted channels.
Bridge, Forward Bulkhead	...	steel door mounted on riveted hinges secured to bulkhead, & fastened with clips.
Forecastle Bulkhead	...	wood door 1" thick operated from both sides.
Exposed Machinery Casings on Free-board or Raised Quarter Decks	...	✓
Exposed Machinery Casings on Super-structure Decks	...	steel doors . 26 operated from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	steel door . 26 secured by slip bolt.
Deckhouses on Flush Deck Ships	...	✓

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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:—



State any special features in the construction of the ship:— Vessel examined afloat whilst discharging cargo. Survey confined to an examination of the means of closing the openings in the deck & sides of the vessel. ✓

~~Forward plating in way of Saloon to repair.~~
With the exception of the items previously mentioned decks casings, hatchways Ventilators and their coamings generally found in efficient condition. ✓

R. B. Lyster.

Builder's name and yard number NORTHUMBERLAND S. B. Co. Ld.

218.

Names of sister ships

Owners G. D. GRATSOS.

Fee £ 12 : 15 : 0

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