

24 APR 1933

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index No. 2  
(For London Office only.)

Computation of Freeboard for Steamer, Safina e Tariq  
a poop, bridge and funnel

Ship's Name Safina e Tariq (Type of Superstructures.) none  
Nationality and Port of Registry British London Official Number 142597 Gross Tonnage 3305 Date of Build 1918  
Moulded Dimensions: Length 330.625 Breadth 46.5 Depth 25.5  
Moulded displacement at moulded draught = 85 per cent. of moulded depth 7251 tons  
Coefficient of fineness for use with Tables 0.7617 762

Port of Survey Hamburg  
Date of Survey 18th, 19th, 21st April 1933  
Name of Surveyor H. Goring  
Particulars of Classification +100. A1

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... <u>25.50</u>	(a) Where D is greater than Table depth (D-Table depth) R = $(25.67 - 22.04) 2.543$ = <u>+ 9.23"</u>	Moulded Breadth (B) <u>46.5</u> Standard Round of Beam = $\frac{B \times 12}{50} = \frac{11.16}{50}$ Ship's Round of Beam = <u>12"</u> Difference <u>.84" excess</u>
Stringer plate ... <u>0.855</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>✓</u>	Restricted to Correction = $\frac{\text{Diff}^e}{4} \times (1 - \frac{S_1}{L}) = \frac{.84}{4} \times .5138 = -.11$
Sheathing on exposed deck $(\frac{L-S}{L}) = .25 \times .5123$ Depth for Freeboard (D) = <u>25.67</u>	If restricted by superstructures <u>✓</u>	

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
A Poop enclosed ...	<u>33.0</u>	<u>33.00</u>	<u>7'6"</u>		<u>33.00</u>	Standard Height of Superstructure <u>6.81</u> ✓
" overhang ...	<u>none</u>					" " R.Q.D. <u>✓</u>
R.Q.D. enclosed ...	<u>none</u>					Deduction for complete superstructure <u>37.37</u>
" overhang ...	<u>none</u>					Percentage covered $\frac{S}{L} = 48.77\%$
Bridge enclosed ...	<u>98.0</u>	<u>78.00</u>	<u>7'6"</u>		<u>98.00</u>	" " $\frac{S_1}{L} = 48.62\%$
" overhang aft ...	<u>2.0</u>	<u>1.50</u>			<u>1.50</u>	" " $\frac{E}{L} = 48.62\%$ ✓
" overhang forward ...	<u>none</u>					Percentage from Table, Line A. (corrected for absence of forecastle (if required))
Fore enclosed ...	<u>28.25</u>	<u>28.25</u>	<u>7'6"</u>		<u>28.25</u>	Percentage from Table, Line B. (corrected for absence of forecastle (if required)) <u>34.83%</u>
" overhang ...	<u>none</u>					Interpolation for bridge less than 2L (if required)
" forward ...	<u>none</u>					Deduction = $37.37 \times .3483 = -13.01$ ✓
Tonnage opening aft ...	<u>none</u>					
" forward ...	<u>none</u>					
Total ...	<u>161.25</u>	<u>160.75</u>			<u>160.75</u>	

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	<u>43.06</u>	1		<u>43.06</u>	<u>55</u>	<u>55.00</u>	1		<u>55.00</u>	Mean actual sheer aft = <u>Excess</u> Mean standard sheer aft = <u>Excess</u>
1/4 from A.P. ...	<u>19.16</u>	4		<u>76.64</u>	<u>22 1/2</u>	<u>22.91</u>	4		<u>91.64</u>	Mean actual sheer forward = <u>Excess</u> Mean standard sheer forward = <u>Excess</u>
1/2 " ...	<u>4.74</u>	2		<u>9.48</u>	<u>6 1/2</u>	<u>5.73</u>	2		<u>11.46</u>	Length of enclosed superstructure forward of amidships = <u>&gt; 1L</u>
Aft of amidships ...	<u>✓</u>	4		<u>✓</u>	<u>0</u>	<u>✓</u>	4		<u>✓</u>	" " aft of " = <u>&gt; 1L</u>
1/4 from F.P. ...	<u>9.48</u>	2		<u>18.96</u>	<u>12 1/4</u>	<u>11.45</u>	2		<u>22.90</u>	
1/2 " ...	<u>38.32</u>	4		<u>153.28</u>	<u>45</u>	<u>45.82</u>	4		<u>183.28</u>	
F.P. ...	<u>86.12</u>	1		<u>86.12</u>	<u>102</u>	<u>102.00</u>	1		<u>102.00</u>	
Total ...				<u>387.52</u>					<u>466.28</u>	

Correction =  $\frac{\text{Difference between sums of products}}{18} = \frac{78.74}{18} = 4.37$  (75 - 24.38) = -2.21" ✓

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 = 25.54  
Summer freeboard = 3.88  
Moulded draught (d) = 21.66

Freeboard for Tropical freeboard and addition for Winter freeboard = d inches = 5.41  
Freeboard for Winter North Atlantic Freeboard (if

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$\frac{762 + .68}{1.36} = \frac{1442}{1.36}$

Depth Correction ... 9.23  
Deduction for superstructures ... 13.01  
Sheer correction ... 2.21  
Round of Beam correction ... .11  
Correction for Thickness of Deck amidships ... 1.56  
Other corrections, scantlings, etc. ...

+	-
9.23	
	13.01
	2.21
	.11
	1.56
9.23	16.89
	7.66

Summer Freeboard = 4.59

Freeboard amidships from Centre of Disc to top of Deck Line, Wood, 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 " ...

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

Description of Hatchway	HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS					ON BRIDGE DECK			STORE HATCHWAY
	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	
Dimensions of Hatchway	26'6" x 23'	do.	12'3" x 18'3"	26'6" x 25'	do.	5'6" x 3'3"	10'2" x 18'	8'2" x 3'3"	30' x 10'
COAMINGS	Height above Deck	30"	do.	30"	do.	30"	30"	30"	do.
	Thickness	44"	do.	44"	do.	44"	44"	44"	44"
	Sides	44"	do.	44"	do.	44"	44"	44"	44"
	Stiffeners	2 slaps	do.	2 slaps	do.	2 slaps	2 slaps	2 slaps	2 slaps
HATCH BEAMS	Number	4	do.	4	do.	4	4	4	4
	Spacing	6'3"	do.	6'3"	do.	6'3"	6'3"	6'3"	6'3"
	Scantling and Sketch	3 1/2" x 3 1/2" x 44"	do.	3 1/2" x 3 1/2" x 44"	do.	3 1/2" x 3 1/2" x 44"	3 1/2" x 3 1/2" x 44"	3 1/2" x 3 1/2" x 44"	3 1/2" x 3 1/2" x 44"
	Bearing Surface	3 1/2"	do.	3 1/2"	do.	3 1/2"	3 1/2"	3 1/2"	3 1/2"
FORE AND AFTERS	Number	4	do.	4	do.	4	4	4	4
	Spacing	6'3"	do.	6'3"	do.	6'3"	6'3"	6'3"	6'3"
	Unsupported Lengths	15'9"	do.	15'9"	do.	15'9"	15'9"	15'9"	15'9"
	Scantling and Sketch	3 1/2" x 3 1/2" x 44"	do.	3 1/2" x 3 1/2" x 44"	do.	3 1/2" x 3 1/2" x 44"	3 1/2" x 3 1/2" x 44"	3 1/2" x 3 1/2" x 44"	3 1/2" x 3 1/2" x 44"
HATCH COVERS	Material	pine	do.	pine	do.	pine	pine	pine	pine
	Thickness	3"	do.	3"	do.	3"	3"	3"	3"
	How fitted	4 ft	do.	4 ft	do.	4 ft	4 ft	4 ft	4 ft
	Bearing Surface	3"	do.	3"	do.	3"	3"	3"	3"
Spacing of Cleats	24"	do.	24"	24"	do.	24"	24"	24"	24"
Number of Tarpaulins	2	do.	1	2	do.	1	2	2	2

Are wood fore and afters steel shod at all bearing surfaces? *none fitted.*  
 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:— *Fiddle top 4" above bridge deck: see sketch. Openings in fiddle top closed by steel covers permanently attached. Funnel and ventilator coamings efficiently riveted to fiddle top.*

Particulars of Flush Bunker Scuttles:—

*none.*

Particulars of Companionways:—

*none.*

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

*All ventilators on freeboard deck are fitted with coamings 36" high (above steel dk) All ventilators on superstructure deck are fitted with coaming, 30" high (above steel dk) All ventilators are provided with wooden plugs and canvas covers.*

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

*Air pipes to double bottom tanks on fore and after well deck are 40" above steel dk, diam. 2 1/2" Air pipes to fore and after peak tank 4" diam. height above deck 24" All air pipes are of substantial construction and fitted with wooden plugs and canvas covers.*

Particulars of Gangway Cargo and Coaling Ports:—

*none.*

*Baltic*

Particulars of Scuppers and Sanitary Discharge Pipes —

*2 scuppers on each side on freeboard deck forward and aft 5' x 5" above freeboard deck. 1" diam. below freeboard deck. All sanitary discharge pipes are above freeboard deck and fitted with storm valves.*

Particulars of Side Scuttles:—

*No side scuttles fitted below freeboard deck.*

Particulars of Guard Rails:—

*On forecastle deck and poop deck open rail fitted: 4'6" apart. On well deck forward and aft bulwark fitted: 4'6" apart. On bridge deck open rail fitted: 4'6" apart.*

Particulars of Gangways, Lifelines, etc.:—

*No gangways fitted. Life lines are fitted on forward and after well deck.*

## 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	85'9"	46"	39" x 18"	4	19.5 sq ft.	17.15 sq ft.
Forward Well	85'9"	46"	39" x 18"	4	19.5 sq ft.	17.15 sq ft.

State position of each freeing port ... After Well:— 4 height above deck 15"  
 (P. and A. position and height above deck edge) Forward Well:— 4 height above deck 15"  
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— *none bar fitted in each freeing port.*  
 Additional area where sheer is less than standard.

## Particulars of Superstructures, Trunks, Casings, Deckhouses.

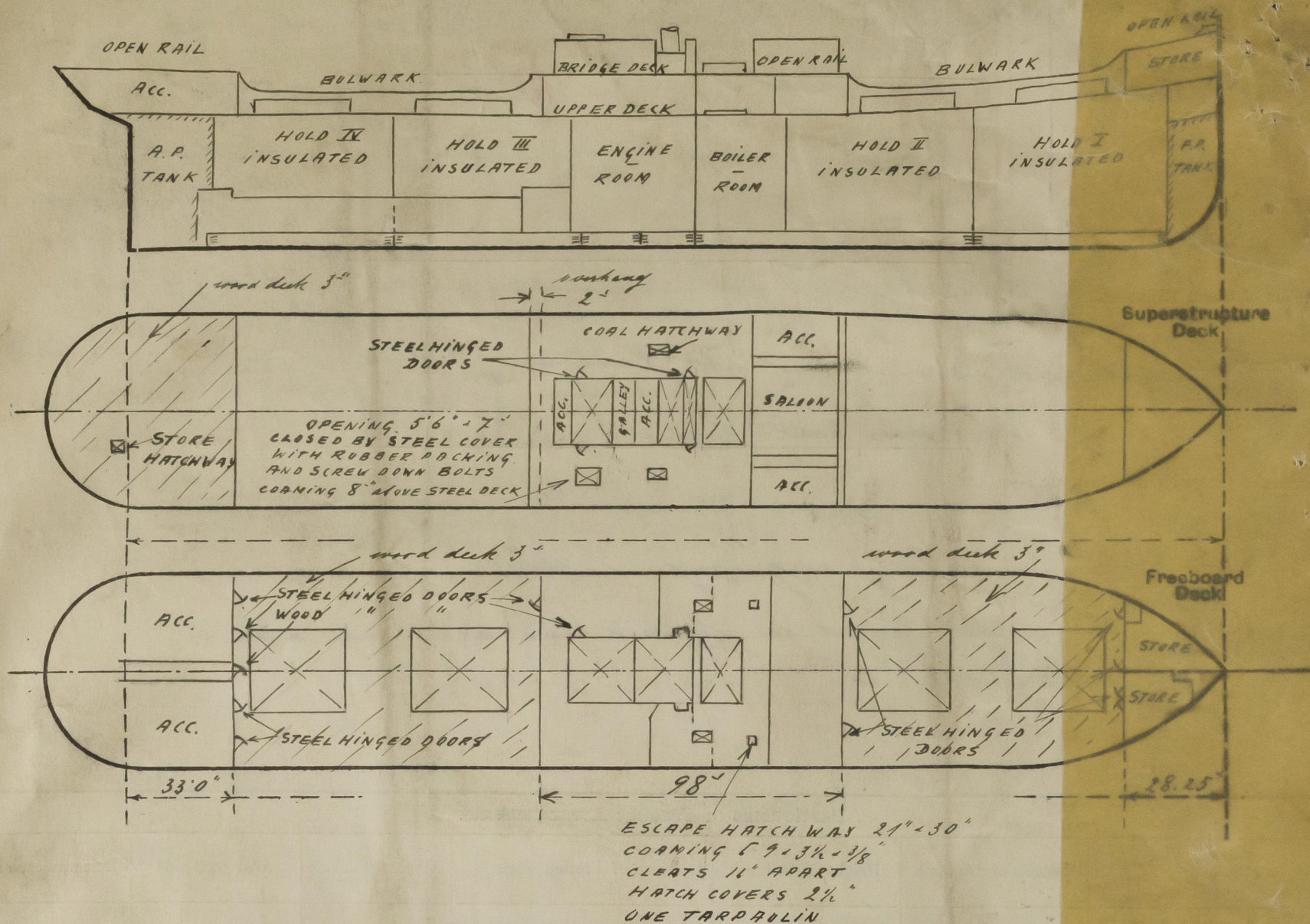
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	3/8"	5/16"	3" x 3 1/2" x 3/8"	28"-30"	none	25' x 52'	20"	7'6"
Raised Quarter Deck Bulkhead	3/8"	5/16"	3" x 3 1/2" x 3/8"	30"-44"	none	25' x 52'	21"	7'6"
Bridge, After Bulkhead	3/8"	5/16"	3" x 3 1/2" x 3/8"	30"	bracketed	29' x 47'	21"	7'6"
Bridge, Forward Bulkhead	3/8"	5/16"	3" x 3 1/2" x 3/8"	28"	bracketed	24' x 50'	18"	7'6"
Forecastle Bulkhead	3/8"	5/16"	3" x 3 1/2" x 3/8"	28"	none	24' x 50'	18"	7'6"
Trunk, Aft	3/8"	5/16"	3" x 3 1/2" x 3/8"	36"-42"	none	24' x 50'	18"	7'6"
Trunk, Forward	3/8"	5/16"	3" x 3 1/2" x 3/8"	36"-42"	none	24' x 50'	18"	7'6"
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	3/8"	5/16"	3" x 3 1/2" x 3/8"	36"-42"	none	24' x 50'	18"	7'6"
Exposed Machinery Casings on Superstructure Decks	3/8"	5/16"	3" x 3 1/2" x 3/8"	36"-42"	none	24' x 50'	18"	7'6"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	3/8"	5/16"	3" x 3 1/2" x 3/8"	36"-42"	none	24' x 50'	18"	7'6"
Deckhouses on Flush Deck Ships	3/8"	5/16"	3" x 3 1/2" x 3/8"	36"-42"	none	24' x 50'	18"	7'6"

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	2 steel hinged doors; capable of being manipulated from both sides.
Raised Quarter Deck Bulkhead	2 steel hinged doors; capable of being manipulated from both sides.
Bridge, After Bulkhead	1 steel hinged door; capable of being manipulated from both sides.
Bridge, Forward Bulkhead	1 steel hinged door; capable of being manipulated from both sides.
Forecastle Bulkhead	3 steel hinged doors; capable of being manipulated from both sides.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	2 steel hinged doors; capable of being manipulated from both sides.
Exposed Machinery Casings on Superstructure Decks	2 steel hinged doors; capable of being manipulated from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	2 steel hinged doors; capable of being manipulated from both sides.
Deckhouses on Flush Deck Ships	2 steel hinged doors; capable of being manipulated from both sides.



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:—

The vessel has been surveyed afloat and in dry dock for completion of Special Survey No. 3, change of Ownership and for load line.

Moulded displacement at 21' 8" (i.e. 85% Moulded depth) = 7251 tons.

External displacement and Tons per inch

at 21' extreme draft, 6976 tons 30.57 tons per inch.  
at 22' " " 7344 " 30.70 " " "

Builder's name and yard number J. Blumer & Co. Sunderland.

Names of sister ships "Baltara" ex. Glacine

Owners United Baltic Corporation Ltd., London.

Fee £ 11 : 18 : 0

Received by me



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