

# DISCLAIMED SECTION Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

Index. No. 31763  
(For London Office only.)

No 440

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having

SHELTER DECK WITHOUT TONNAGE OPENINGS

Port of Survey LONDON

(Type of Superstructures.)

174 m. 12.7.41  
Boat No 12.11.20Date of Survey 4<sup>th</sup> August 1932

Ship's Name

BALTANNIC

Nationality and Port of Registry

BRITISH LONDON

Official Number

148640

Gross Tonnage

1740

1739 ✓

Date of Build

1913

Name of Surveyor G. Scantlebury

Moulded Dimensions: Length 243.3 ✓ Breadth 37.0 ✓ Depth 18.6 MAIN DECK

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

Coefficient of fineness for use with Tables 68 lowest table

Particulars of Classification 100A1 WITH

S.S. Rot. No 3-7-25.

S.S. Lon. No 1-29.

FREEBOARD

## Depth for Freeboard (D)

Moulded depth ... 25.75 ✓

Stringer plate ... 0.04 ✓

Sheathing on exposed deck

$$T \left( \frac{L-S}{L} \right) = .25 \left( \frac{243.3-0}{243.3} \right) = .25$$

Depth for Freeboard (D) =

26.04 ✓

## Depth correction

(a) Where D is greater than Table depth

(D-Table depth) R =

$$(26.04 - 16.22) \times 1.871 = 18.37$$

(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) 37 ✓

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} = 8.88$$

$$\text{Ship's Round of Beam} = 9.14$$

Difference 0.26 ✓

Restricted to

$$\text{Correction} = \frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.37}{4} = .09$$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	✓		✓		
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	✓				
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	✓		✓		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	✓		✓		
" forward ...					
Total ...					

Standard Height of Superstructure 6.00

" " R.Q.D. ✓

Deduction for complete superstructure 30.33 ✓

Percentage 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. ...	34.33 ✓	1	34.33	35	35.00	1	35.00
1/4 L from A.P. ...	15.28	4	61.12	15.99	16.00	4	64.00
1/2 L " ...	3.78	2	7.56	3.98	4.00	2	8.00
Amidships ...	✓	4				4	
3/4 L from F.P. ...	7.55	2	15.10	7.48	7.50	2	15.00
1/4 L " ...	30.55	4	122.20	30.02	30.00	4	120.08
F.P. ...	68.66	1	68.66	72	72.00	1	72.00
Total ...			308.97 ✓				314.08

Mean actual sheer aft = 0.00

Mean standard sheer aft

Mean actual sheer forward = 0.00

Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

" " aft of " =

T. 10.8.32

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{308.97}{18} (.75) = - .21$$

If limited on account of midship superstructure.

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

30.96 ✓

3.65 ✓

## Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 26.04 ✓

Summer freeboard = 7.77

Moulded draught (d) = 18.27

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 4.56 4 1/2

Addition for Winter North Atlantic Freeboard (if required) =

## 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

= 4 1/2

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	18.37	-
Deduction for superstructures ...	-	-
Sheer correction ...	-	.21
Round of Beam correction ...	-	.09
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ...	40.57	-
	58.94	30

Summer Freeboard = 93.25

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

Tropical Fresh Water Line above Centre of Disc ...	9
Fresh Water Line " " ...	4 1/2
Tropical Line " " ...	4 1/2
Winter Line below " " ...	4 1/2
Winter North Atlantic Line " " ...	6 1/2

Tropical Fresh Water Freeboard ...	7.92
Fresh Water " " ...	7.04
Tropical " " ...	7.44
Winter " " ...	8.12
Winter North Atlantic " " ...	8.34

11 AUG 1932

5m, 8.32.

MARKING FORM

RECEIVED - 4 NOV 1933

MARKING FORM

RECEIVED - 2 NOV 1932

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS										
Description of Hatchway		Nº 1	Nº 2	Nº 3	Nº 4					
Dimensions of Hatchway		18-9 x 14-0	18-9 x 14-0	18-9 x 14-0	8-3 x 6-0					
COAMINGS	Height above Deck	16"	16"	27"	21"					
	Thickness	40	40	40	42					
	Sides	40	40	40	42					
	Ends	40	40	40	42					
	Stiffeners	✓	✓	✓	✓					
	Brackets, Stays	✓	✓	✓	✓					
HATCH BEAMS	Number	3	3	3	NONE					
	Spacing	4-8	4-8	4-8						
	Scantling and Sketch	25" x 34"	25" x 34"	25" x 34"						
	Bearing Surface									
FORE AND AFTERS	Number	/	/	/						
	Spacing	/	/	/						
	Unsupported Lengths	/	/	/						
	Scantling* and Sketch	/	/	/						
	Bearing Surface	/	/	/						
HATCH COVERS	Material	PINA	PINA	PINA	PINA					
	Thickness	2 1/2	2 1/2	2 1/2	3					
	How fitted	F & A	F & A	F & A	ATHWARTSHIP					
	Bearing Surface	3	3	3	3					
Spacing of Cleats		23"	23"	23"	22"					
Number of Tarpaulins		3	3	3	3					

\*Are wood fore and afters steel shod at all bearing surfaces? ☒

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:—

8 boilerhold gratings covered by strong steel hinged covers.  
 Fiddle funnel and vents in efficient condition. Engine room skylight of steel strongly constructed.  
 Bunker hatch 8-0 x 4-3 x 12" high fitted with wood covers. Tarpaulins and lashing arrangement.

Particulars of Flush Bunker Scuttles:—

Two scuttles (S) on freeboard deck permanently closed.

Particulars of Companionways:—

One steel companion 4-3 x 3-4 x 5-9" high leading to stores in Tween Deck. door of steel with 1 1/4" sill operated from both sides.  
 One steel companion 5-3 x 14-0 x 6-3" high leading to crew quarters in Tween Deck. door (two) of lead with 2-0" sill operated from both sides.

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

1 Vent. 10" dia coaming 15" x 34"	2 Vents 12" dia coaming 21" x 34"	2 Vents 13" dia coaming 30" x 34"
1 " 15" " 16" x 34"	4 " 9" " 30" x 34"	4 Greenock Vents. 5 1/2" dia x 15" high
1 " 9" " 16" x 34"	2 " 15" " 30" x 34"	8 " " 3" " x 3"
2 " 7" " 37" x 34"	1 " 18" " 30" x 34"	
2 " 6" " 37" x 34"	1 " 9" " 15" x 34"	
1 " 12" " 26" x 34"	1 " 6" " 13" x 34"	

all coal vents closed with wood plugs or steel caps and canvas covers.

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

2 air pipes 30" high x 2" dia	
3 " 1" " x 2"	
1 " 36" " x 2"	
1 " 16" " x 2"	
1 " 3" " x 2"	

Efficient means of closing  
 No snifting holes at top of bends. ~~no wood plugs for closing~~ ~~rounded~~

Particulars of Gangway Cargo and Coaling Ports:—

None.



Particulars of Scuppers and Sanitary Discharge Pipes:—

Sanitary discharges from W.C. below freeboard Deck fitted with gunmetal storm valves and screw down valves. —  
operated from freeboard Deck. Discharges from W.C. above freeboard Deck fitted with gunmetal storm valves. —

Particulars of Side Scuttles:—

All side scuttles below freeboard Deck fitted with hinged deadlights. —  
All scuttles of substantial construction. —

Particulars of Guard Rails:—

Guard rails on freeboard Deck as marked on Plan (page 4). 3-6" high having two rods and teak rail and stanchions spaced 4' 0" apart. —  
Bulkheads in way of deck houses and forward 3-6" high. —

Particulars of Gangways, Lifelines, etc.:—

No special fittings provided

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 ... ..						
Forward Well ... ..						

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

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

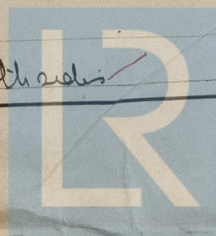
Additional area where sheer is less than standard.

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 ...	15' x 42"	25	3" x 2 1/2" x 42"	29"	None	2 @ 5-2 x 2-0 1 @ 4-8 x 2-6	15" 18"	7-3"
Exposed Machinery Casings on Superstructure Decks ... ..	✓							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	✓							
Deckhouses on Flush Deck Ships ...	15' x 42"	25	3" x 2 1/2" x 42"	29"	None	only doors (teak) to accommodate	18"	7-3"

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 ...	Steel doors operated from both sides. —
Exposed Machinery Casings on Superstructure Decks ... ..	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	
Deckhouses on Flush Deck Ships ...	Teak doors to accommodation spaces. Operated from both sides. —

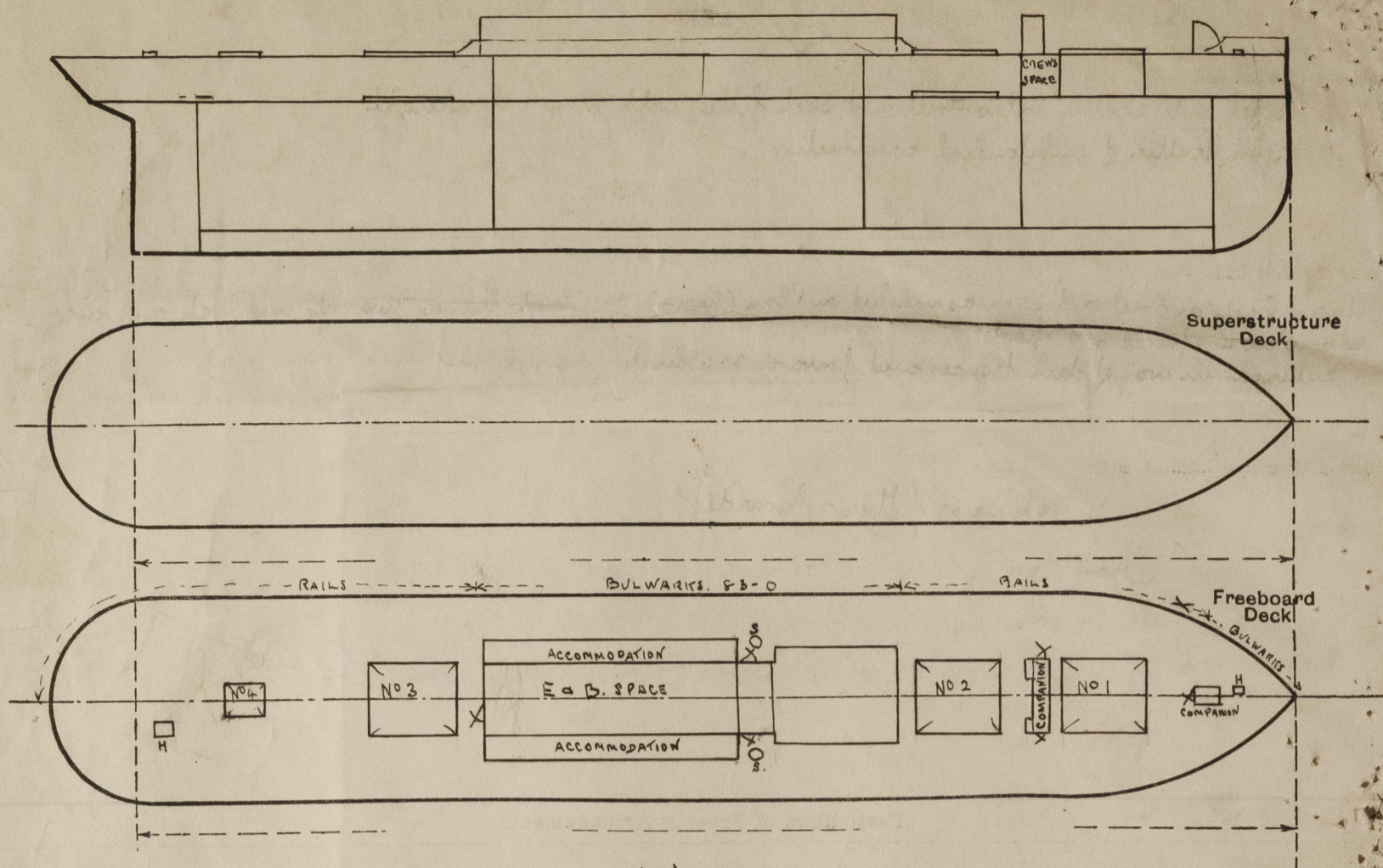


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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the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



Survey carried out <sup>aboard</sup> but confined to above.

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

SMALL HATCHES MARKED 'H'

Hatch to Fore Peak Store 21" x 16" x 14 1/2" high fitted with wood cover, tarpaulin and cleats.

Hatch to Stowroom aft. 36" x 16" x 15" high fitted with wood cover, tarpaulin and cleats.

Freeboard Deck sheathed with 3" pine.

Builder's name and yard number. ROTTERDAM DROOGD MAAT

Names of sister ships

Owners. UNITED BALTIC CORPORATION LTD

Fee £ 9 : 7 : 0 Received by me

9/6/82

Genl



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