

MAY - 5 1937

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "BALTISTAN"	Official Number 165458	Nationality and Port of Registry BRITISH. London	Gross Tonnage 6803.46	Date of Build 1937.	Port of Survey NEWCASTLE.
Moulded Dimensions: Length 450.00' Breadth 58.29' Depth 32.08'					Date of Survey 3rd MAY, 1937.
Moulded displacement at moulded draught = 85 per cent. of moulded depth (27.27) = 15,220 tons					Surveyor's Signature P. Horodace
Coefficient of fineness for use with Tables .745					Particulars of Classification +100A.1.

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth 32.08	(a) Where D is greater than Table depth (D-Table depth) R = (32.11-30.00) x 3 = +6.33	Moulded Breadth (B) 58.29
Stringer plate 42.03	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50}$ = 13.99
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 14
Depth for Freeboard (D) = 32.11		Difference .01
		Restricted to ✓
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right)$ = $\frac{.01}{4} \times \frac{5161}{4} = \text{Nil}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>equivalent</i>	39.13	39.13	8'-6"	✓	39.13
" overhang ...	SEE SKETCH				
R.Q.D. enclosed					
" overhang	138.95	136.95	7'-6"	✓	136.95
Bridge enclosed <i>equivalent</i>	120.50	88			88
" overhang aft	14'-1.19				
" overhang forward	SEE SKETCH				
F'cle enclosed <i>equivalent</i>	37.42	37.42	7'-9"	✓	37.42
" overhang	3.37	3.37			3.37
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	218.04	217.75			217.75

Standard Height of Superstructure	7.5
" " R.Q.D.	✓
Deduction for complete superstructure	42
Percentage covered $\frac{S}{L} =$	48.46
" " $\frac{S_1}{L} =$	48.39
" " $\frac{E}{L} =$	48.39
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	✓
Percentage from Table, Line B. 34.63	✓
(corrected for absence of forecastle (if required))	✓
Interpolation for bridge less than 2L (if required)	✓
Deduction = 42 x .3463 = -14.54	✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	55.00	1	55.00	63.00	63.00	1	63.00		
1/4 L from A.P. ...	24.475	4	97.90	28.00	28.00	4	112.00		
1/2 L " ...	6.05	2	12.10	7.00	7.00	2	14.00		
Amidships ...	7.00	4				4			
3/4 L from F.P. ...	12.10	2	24.20	14.00	14.00	2	28.00		
1/4 L " ...	48.95	4	195.80	56.50	56.50	4	226.00		
F.P. ...	110.00	1	110.00	126.00	126.00	1	126.00		
Total			495.00				569.00		

Mean actual sheer aft = **9mm**
Mean standard sheer aftMean actual sheer forward = **9mm**
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = **7.14**
" " aft of " = **7.14**Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{74}{18} \left(.75 - \frac{.2423}{.5077} \right) = -2.09$
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 = **32.11**
Summer freeboard = **6.75**
Moulded draught (d) = **25.36**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **6.34 = 6 1/4**

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ **14115**

Tons per inch immersion at summer load water line

 $T =$ **51.5**Deduction = $\frac{\Delta}{40T}$ inches**= 6.85 = 6 3/4**

TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient $\frac{.745 + .68}{1.36} = \frac{1.425}{1.36} =$

	+	-
Depth Correction	6.33	
Deduction for superstructures		14.54
Sheer correction		2.09
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	6.33	16.63

Summer Freeboard = **80.97**SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:-

Tropical Fresh Water Line above Centre of Disc	...	13"
Fresh Water Line	"	6 3/4"
Tropical Line	"	6 1/4"
Winter Line	below	6 1/4"
Winter North Atlantic Line	"	✓

Tropical Fresh Water Freeboard	...	6'-9"
Fresh Water	"	5'-8"
Tropical	"	6'-2 1/4"
Winter	"	6'-2 3/4"
Winter North Atlantic	"	7'-3 1/4"

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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship

Names of sister ships

38 "ARMANISTAN"

Builder's name and yard number

JOHN READHEAD & SONS, L^d N^o 508.

Owners

STRICK LINE (1923) L^d..

Fee £

£17-0-0.

change with 48.

[Signature]



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Foundation