

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

APJ AMBAR (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ORDIA GALAXIAS	Official Number 1082 183322	Nationality and Port of Registry GREEK British London Balantia PIRAEUS	Gross Tonnage 5448.65 5470	Date of Build 1950	Port of Survey Glasgow
Moulded Dimensions: Length 420.65 Breadth 57.3 Depth 28'-6" <i>To centre of keel at midships</i>					Date of Survey White building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12,220 S.W. tons					Surveyor's Signature Wm. Malcolm
Coefficient of fineness for use with Tables 733					Particulars of Classification 100A1 with f.d. (Contemplated)

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 28.5	(a) Where D is greater than Table depth (D-Table depth) R = (28.53 - 28.65)3 = +1.44	Moulded Breadth (B) 57.25'
Stringer plate ... 4.003	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = 13.74$
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) = 28.53		Difference +26.
		Restricted to
		Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{26}{4} \times 0.052 = \text{NIL.}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	56.65	56.65	8'-0"	✓	56.65
" overhang25	.13			.13
R.Q.D. enclosed ...	✓				
" overhang ...	✓				
Bridge enclosed67	.50			.50
" overhang aft ...	359.0	359.00	9'-6"	✓	359.00
" overhang forward ...					
Fore enclosed ...					
" overhang ...					
Trunk aft ...					
" forward20 DIFF		✓	
Tonnage opening aft ...	4.08	2.19	11'-1"		2.19
" forward ...					
Total ...	420.65	418.47			418.47

Standard Height of Superstructure	7.50'
" " R.Q.D.	✓
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	100
" " $\frac{S_1}{L} =$	99.48
Percentage from Table, Line A. & B	99.36
(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 =	42.00 × 99.36 = 41.73.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	52.06	1		52.06	+24	66.00	1		66.00
1/8 L from A.P. ...	23.17	4		92.68	19	29.37	4		117.48
1/4 L " ...	5.73	2		11.46	5	7.26	2		14.52
Amidships ...	-	4		-	-	-	4		-
3/8 L from F.P. ...	11.45	2		22.90	9	11.88	2		23.76
1/2 L " ...	46.34	4		185.36	37	48.06	4		192.24
F.P. ...	104.13	1		104.13	84	108.00	1		108.00
Total ...				468.59	+24				522.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{53.41}{18} \times .25 = -.74$

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 = **28.53**

Summer freeboard = **3.33**

Moulded draught (d) = **25.20**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **6.30 = 6 3/4"**

Addition for Winter North Atlantic Freeboard (if required) = **✓**

Deduction for Fresh

@ 25.25 **Water**
Displacement in salt water at summer load water line
 $\Delta = 12860$
Tons per inch immersion at summer load water line
 $T = 48$
Deduction = $\frac{\Delta}{40 T}$ inches
= **6.70**
= **6 3/4"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.733 + .68}{1.36} = \frac{1.413}{1.36}$

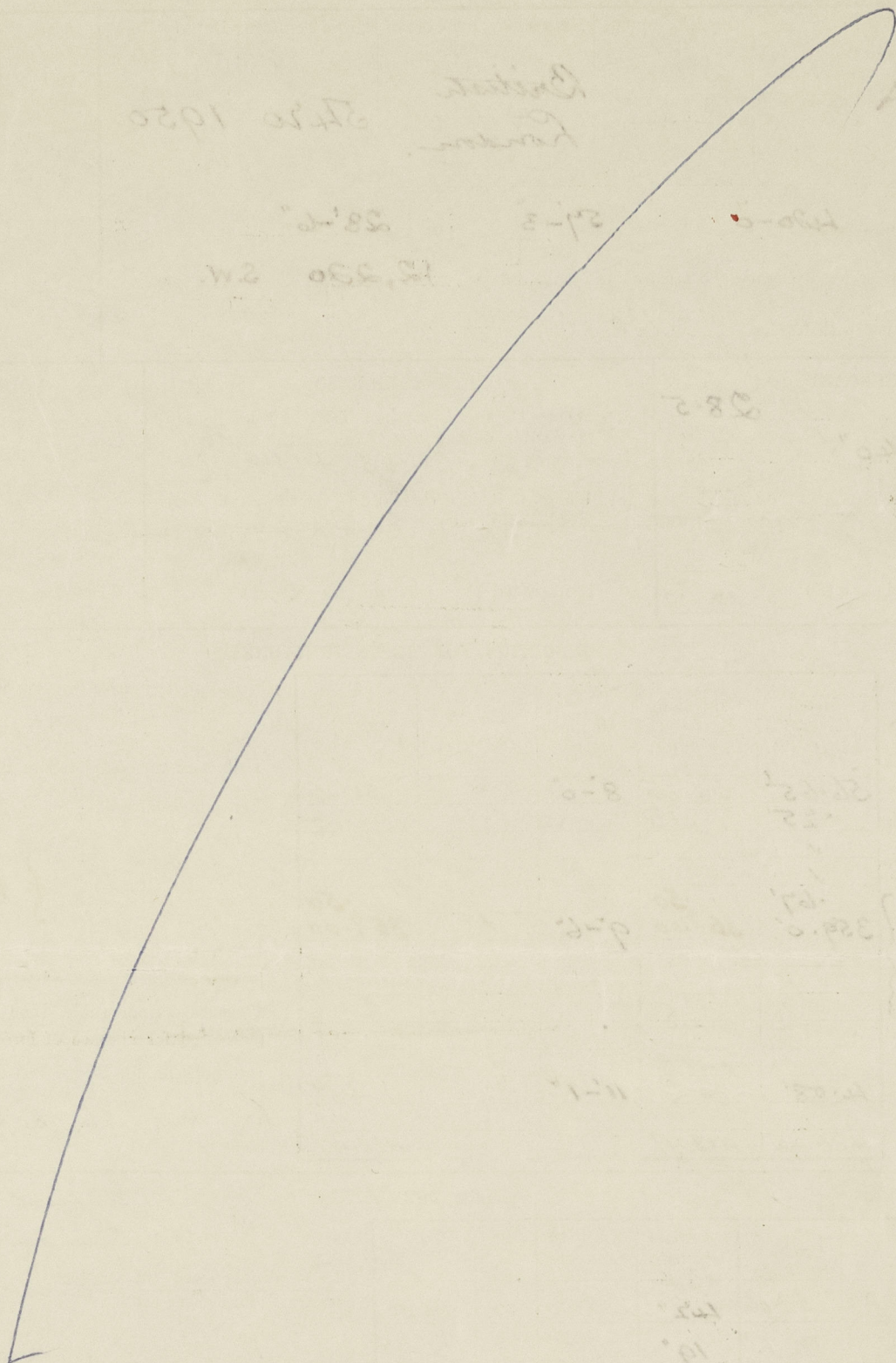
Depth Correction	1.44	-
Deduction for superstructures	-	41.73
Sheer correction	-	.74
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	1.44	42.47

Summer Freeboard = **40.01**

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

Tropical Fresh Water Line above Centre of Disc	13"	330	Tropical Fresh Water Freeboard	3'-4"	1016
Fresh Water Line	6 3/4"	171	Fresh Water	2'-3"	686
Tropical Line	6 3/4"	159	Tropical	2'-9 1/4"	845
Winter Line below	6 3/4"	159	Winter	3'-10 1/4"	1175
Winter North Atlantic Line	-	-	Winter North Atlantic	-	-

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 India & East Africa
Names of sister ships "ORMARA" Geo Rpt. 71456 : "OLINDA" Glo Rpt 42033
Builder's name and yard number Wm Denny & Bros Ltd. Yard No 7433.
Owners British India Steam Nav. Co. Ltd.
Fee £ 28

OLINDA Report here with



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Foundation