

Louisa 35663
 Walvernian 34992
 Belgravian 35371
 Cassinian 3572

RETAINING
Shipping.

Index, No. 36
(For London Office)

36210

No. 18011

Depth for Freeboard (D).		Depth correction.	Round of Beam correction.
Moulded depth	23.25	(a) Where D is greater than Table depth (D - Table depth) R = 0.09	Moulded Breadth (B) = 49.83
Stringer plate	0.04	(23.29 - 22.62) = 0.67	Standard Round of Beam = $\frac{B \times 12}{50} = 11.96$
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 1.75	Ship's Round of Beam = 12.50
T $\left(\frac{L-S}{L} \right) =$			Difference Excess = 0.54
Depth for Freeboard (D) = 23.29		If restricted by superstructures	Restricted to
			Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{0.54}{4} \times 0.068 = \text{Nil}$

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ^{to center of} main stock	31.46	31.76	7.75	✓	31.76
" overhang...	29	14	9.50		14
R.Q.D. enclosed					
" overhang					
Bridge enclosed...	302.75	302.75	9.50	✓	302.75
" overhang aft					
" overhang forward					
^{upper} F'tle enclosed	21.25		7.0		
" overhang	2.25		7.0		
Trunk aft					
" forward					
Tonnage opening aft	4.46	2.30	9.5	✓	2.30
" " forward					
Total	339.26	336.95			336.95

Standard Height of Superstructure 6.812
 " " R.Q.D. ✓
 Deduction for complete superstructure 37.95 -
 Percentage covered $\frac{S}{L} = 100.00 -$
 " " $\frac{S_1}{L} = 99.32 -$
 " " $\frac{E}{L} = 99.32 -$
 Percentage from Table, Line A. *and B* 99.16 -
 (~~corrected for absence of forecastle (if required)~~) ✓
 Percentage from Table, Line B. ✓
 (corrected for absence of forecastle (if required)) ✓
 Interpolation for bridge less than $\cdot 2L$ (if required) ✓
 Deduction = $37.95 \times .9916 = - 37.63 -$

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	43.93	1	43.93	43.87	75.15	1	75.15
$\frac{1}{8}$ L from A.P. ...	19.55	4	78.20	19.50	33.44	4	133.76
$\frac{3}{8}$ L " ...	4.83	2	9.66	4.75	8.27	2	16.54
Amidships ...	-	4	-	-	-	4	-
$\frac{5}{8}$ L from F.P. ...	9.66	2	19.32	9.62	13.09	2	26.18
$\frac{1}{2}$ L " ...	39.10	4	156.40	39.00	52.97	4	211.88
F.P. ...	87.85	1	87.85	87.75	119.03	1	119.03
Total ...			395.36	391.28			582.54

Actual height of superstructure = 9.5
Standard height = 6.893
2.607'
= 31.28'

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.		Deduction for Fresh Water.		TABULAR FREEBOARD <small>corrected for Flush Deck (if required)</small>															
Addition for Winter and Winter North Atlantic Freeboard.		Displacement in salt water at summer load water line <i>at 22' 0 1/2" mid draft</i>		Correction for coefficient <i>1.36/1.36</i>															
Depth to Freeboard Deck =	<i>22.29</i> Ft.	Ext Δ =	<i>2248 tons</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">+</th> <th style="width: 50%; text-align: center;">-</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><i>1.75</i></td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;"><i>37.63</i></td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;"><i>2.60</i></td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;"><i>1.75</i></td> <td style="text-align: center;"><i>40.23</i></td> </tr> </tbody> </table>		+	-	<i>1.75</i>	-	-	<i>37.63</i>	-	<i>2.60</i>	-	-	-	-	<i>1.75</i>	<i>40.23</i>
+	-																		
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-	<i>2.60</i>																		
-	-																		
-	-																		
<i>1.75</i>	<i>40.23</i>																		
Summer freeboard =	<i>1.25</i>	Tons per inch immersion at summer load water line																	
Moulded draught (d) =	<i>22.04</i>	T = <i>31.64</i>																	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <i>5.51 = 5 1/2</i>		Deduction = $\frac{\Delta}{40 T}$ inches = <i>5.73 = 5 3/4</i> <i>Tons per inch at above draft = 31.64.</i>																	
Addition for Winter North Atlantic Freeboard (if required) = <i>✓</i>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 5px;">Depth Correction ...</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="padding: 5px;">Deduction for superstructures ...</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="padding: 5px;">Sheer correction ...</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="padding: 5px;">Round of Beam correction ...</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="padding: 5px;">Correction for Thickness of Deck amidships ...</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="padding: 5px;">Other corrections, scantlings, etc. ...</td> <td style="text-align: center;">-</td> </tr> <tr> <td colspan="2" style="padding: 5px; text-align: center;">Summer Freeboard = <i>15.02</i></td> </tr> </tbody> </table>		Depth Correction ...	-	Deduction for superstructures ...	-	Sheer correction ...	-	Round of Beam correction ...	-	Correction for Thickness of Deck amidships ...	-	Other corrections, scantlings, etc. ...	-	Summer Freeboard = <i>15.02</i>	
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12 MAR 1940

Tropical Fresh Water Line above Centre of Disc
Fresh Water Line	"	"
Tropical Line	"	"
Winter Line	below	"
Winter North Atlantic Line	"	"

11 1/4"	Tropical Fresh Water Freeboard	..
5 3/4"	Fresh Water	..
5 1/2"	Tropical	..
5 1/2"	Winter	..
✓	Winter North Atlantic	..

1-3ⁿ
0-3^{3/4}
0-9^{1/4}
0-9^{1/2}
1-8^{1/2}

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RECEIVED
1 APR 1940
MARKING FOR

W395-0112

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.

Logan's 100
5.3.40

Trade of ship

ocean-going

Names of sister ships

Malvernian, Belgravian, Lophian Corinthian

Builder's name and yard number

Wm Gray & Co Ltd. No 1099

Owners

Ellerman Lines Ltd. (Ellerman & Papayannis Lines Ltd.)

Fee £

14-0-0

Florian.



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