

Amended computation

BT COPY

Index. No. 36047
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name FOREMOST CLAN	Official Number 167317	Nationality and Port of Registry British London	Gross Tonnage 332 <i>M. of T ltr 20.8.46</i>	Date of Build	Port of Survey
Moulded Dimensions: Length 151	Breadth 27	Depth 10.25			Date of Survey 7.6.46
Moulded displacement at moulded draught = 85 per cent. of moulded depth 983 tons					Surveyor's Signature
Coefficient of fineness for use with Tables .969					Particulars of Classification

Depth for Freeboard (D). Moulded depth ... 10.25 Stringer plate03 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ - Depth for Freeboard (D) = 10.28	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (10.28 - 10.07) 1.161 = +.24"$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ - If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 27 Standard Round of Beam = $\frac{B \times 12}{50} =$ 6.48 Ship's Round of Beam = 6.50 Difference .02 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.02^2}{4} \times 1 = -.01"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
Forecastle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...					

Flush Deck

Standard Height of Superstructure

„ „ R.Q.D.

Deduction for complete superstructure

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 = **Nil**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	25.10	1	25.10	6.5	6.5	1	6.50
$\frac{1}{4}L$ from A.P. ...	10.67	4	44.68	-	-	4	-
$\frac{3}{8}L$ „ ...	2.76	2	5.52	-	-	2	-
Amidships ...	-	4	-	-	-	4	-
$\frac{3}{8}L$ from F.P. ...	5.52	2	11.04	-	-	2	-
$\frac{1}{4}L$ „ ...	22.34	4	89.36	-	-	4	-
F.P. ...	50.20	1	50.20	6.5	6.5	1	6.50
Total ...			225.90				13.00

Mean actual sheer aft = **< 1**

Mean standard sheer aft = **< 1**

Mean actual sheer forward = **< 1**

Mean standard sheer forward = **< 1**

Length of enclosed superstructure forward of amidships = **15.64**

„ „ aft of „ = **2.27**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{212.90}{18} (.75 - \frac{17.91}{15.64 + 2.27}) = +8.87"$

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 10.28 Summer freeboard = 2.56 Moulded draught (d) = 7.72 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 1.93 = 2" Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 777 Tons per inch immersion at summer load water line $T =$ 8.43 Deduction = $\frac{\Delta}{40 T}$ inches = 2.30 = 2 1/4"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.969 + .68}{1.36} = \frac{1.649}{1.36}$ <table border="1"> <tr><td>Depth Correction</td><td>...</td><td>...</td><td>...</td><td>...</td><td>.24</td><td>-</td></tr> <tr><td>Deduction for superstructures</td><td>...</td><td>...</td><td>...</td><td>...</td><td>8.87</td><td>-</td></tr> <tr><td>Sheer correction</td><td>...</td><td>...</td><td>...</td><td>...</td><td>-</td><td>.01</td></tr> <tr><td>Round of Beam correction</td><td>...</td><td>...</td><td>...</td><td>...</td><td>-</td><td>.01</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>...</td><td>...</td><td>...</td><td>...</td><td>-</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>...</td><td>...</td><td>...</td><td>...</td><td>9.11</td><td>.01</td></tr> </table> Summer Freeboard = 30.81	Depth Correction24	-	Deduction for superstructures	8.87	-	Sheer correction	-	.01	Round of Beam correction	-	.01	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	9.11	.01
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

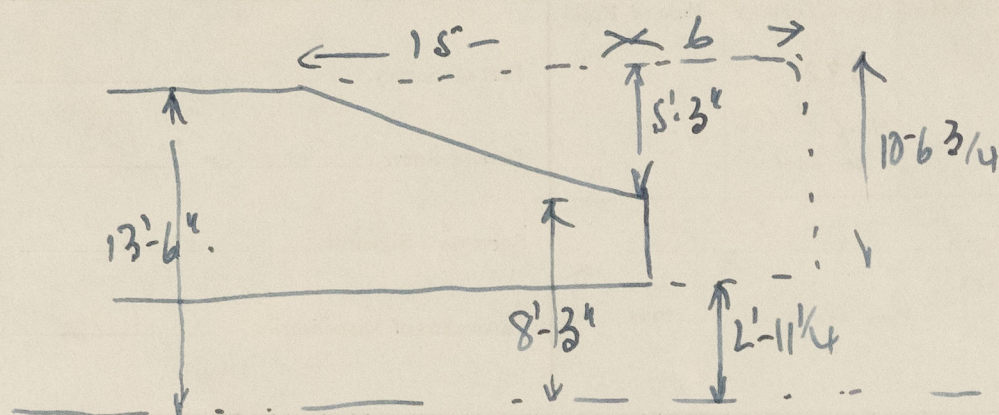
Tropical Fresh Water Line above Centre of Disc	...	2 1/4"
Fresh Water Line	„	„
Tropical Line	„	„
Winter Line	below	„
Winter North Atlantic Line	„	„

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

Foremost Clan.

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.

New Δ.



$$\begin{array}{r} \text{Add } 15' \times 5.25 \\ \quad \quad \quad \downarrow \\ 6' \times 10.56 \\ \hline 102.73 \end{array}$$

$$\begin{aligned} \text{Demand } \Delta &= 2 \times 102.73 \times \frac{.85 \times 10.25}{35} \\ &= 51 \text{ tons} \end{aligned}$$

Trade of ship.

Names of sister ships.

Builder's name and yard number.

Owners

Fee £

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Foundation