

*Basic C.S.S. draught with 20'-3" added to length.
For security purposes only.*

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

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

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Ship's Name <i>Fort Amhurst</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>330.25</i> Breadth <i>45</i> Depth <i>27.08</i>	Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons				Date of Survey <i>2.10.44.</i>
Coefficient of fineness for use with Tables <i>.68</i>				Surveyor's Signature _____	
				Particulars of Classification _____	

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth <i>19.08</i>	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B)
Stringer plate <i>.03</i>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	<i>(22.02 - 19.11) 2.54 = -7.39</i>	Ship's Round of Beam =
Depth for Freeboard (D) = <i>19.11</i>	If restricted by superstructures	Difference
		Restricted to <i>assumed normal</i>
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure <i>6.80</i>
.. overhang R.Q.D. <i>✓</i>
R.Q.D. enclosed						Deduction for complete superstructure <i>37.35</i>
.. overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed $\frac{S_1}{L} =$ } <i>100.</i>
.. overhang aft $\frac{E}{L} =$
.. overhang forward						Percentage from Table, Line A.
F'ele enclosed						(corrected for absence of forecastle (if required))
.. overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
.. forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = <i>-37.35</i>
.. forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{4}$ L from A.P.		4					4		
$\frac{2}{8}$ L		2					2		
Amidships		4					4		
$\frac{2}{8}$ L from F.P.		2					2		
$\frac{1}{4}$ L		4					4		
F.P.		1					1		
Total									

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) =$ *-1.20*

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <i>19.11</i> Summer freeboard = <i>.43</i> Moulded draught (d) = <i>18.68</i> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <table border="1"> <tr> <td>+</td> <td>-</td> </tr> <tr> <td>Depth Correction</td> <td><i>7.39</i></td> </tr> <tr> <td>Deduction for superstructures</td> <td><i>37.35</i></td> </tr> <tr> <td>Sheer correction</td> <td><i>1.20</i></td> </tr> <tr> <td>Round of Beam correction</td> <td>-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>-</td> </tr> <tr> <td></td> <td><i>-45.94</i></td> </tr> </table> Summer Freeboard = <i>5.13</i>	+	-	Depth Correction	<i>7.39</i>	Deduction for superstructures	<i>37.35</i>	Sheer correction	<i>1.20</i>	Round of Beam correction	-	Correction for Thickness of Deck amidships	-	Other corrections, scantlings, etc.	-		<i>-45.94</i>
+	-																	
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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	Tropical Fresh Water Freeboard
Fresh Water Line	Fresh Water
Tropical Line	Tropical
Winter Line below	Winter
Winter North Atlantic Line	Winter North Atlantic

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= 18' - 8 1/4"