

Basis computation only

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 36377
(For London Office only).

Ship's Name <u>Richmond Hill</u> <u>Bartram's Yard No. 284</u>	Official Number	Nationality and Port of Registry <u>British</u> <u>London</u>	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>415.54</u> Breadth <u>60.16</u> Depth <u>38.25</u>					Date of Survey <u>1.10.40</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>17393</u> tons					Surveyor's Signature
Coefficient of fineness for use with Tables <u>.749</u>					Particulars of Classification <u>+100 A1</u> <u>with freeboard.</u>

Depth for Freeboard (D). Moulded depth ... <u>38.25</u> Stringer plate ... <u>.05</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ <u>✓</u> Depth for Freeboard (D) = <u>38.30</u>	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = <u>(38.30 - 27.70) × 3 = +31.80</u> (b) Where D is less than Table depth (if allowed) (Table depth - D) R = <u>✓</u> If restricted by superstructures <u>✓</u>	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = <u>Standard</u> Difference Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L}\right) =$ <u>Nie</u>
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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					
F'cle 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 = Nie

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	
$\frac{2}{4}L$ " ...		2				2	
Amidships ...		4				4	
$\frac{2}{4}L$ from F.P. ...		2				2	
$\frac{1}{4}L$ " ...		4				4	
F.P. ...		1				1	
Total ...							

Mean actual sheer aft = _____
 Mean standard sheer aft = _____
 Mean actual sheer forward = _____
 Mean standard sheer forward = _____
 Length of enclosed superstructure forward of amidships = _____
 " " aft of " = _____

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ Nie
 If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>38.30</u> Summer freeboard = <u>9.34</u> Moulded draught (d) = <u>18.96</u> 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 <u>.749</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>+</td><td>-</td></tr> <tr><td>31.80</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>31.80</td><td>-</td></tr> <tr><td colspan="2">+ 31.80</td></tr> <tr><td colspan="2">Summer Freeboard = <u>112.05</u></td></tr> </table>	+	-	31.80	-	-	-	-	-	-	-	-	-	-	-	-	-	31.80	-	+ 31.80		Summer Freeboard = <u>112.05</u>	
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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 " " ...