

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

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

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey.....
					Date of Survey.....
Moulded Dimensions: Length <u>446</u> Breadth <u>66</u> Depth <u>28.5 actual</u>					Surveyor's Signature.....
Moulded displacement at moulded draught = 85 per cent. of moulded depth.....tons					Particulars of Classification.....
Coefficient of fineness for use with Tables.....					

DEPTH FOR FREEBOARD (D). Moulded depth <u>29.23</u> Stringer plate <u>.04</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>29.27</u>	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>(29.73-29.27) x 3 = -1.38</u> If restricted by superstructures <u>46</u>	ROUND OF BEAM CORRECTION. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L}\right) =$ <u>Nil</u>
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DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure	
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	" " R.Q.D.
Poop enclosed						Deduction for complete superstructure
" overhang						Percentage covered $\frac{S}{L} =$
R.Q.D. enclosed						" " $\frac{S_1}{L} =$ <u>100</u>
" overhang						" " $\frac{E}{L} =$
Bridge enclosed						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
" overhang aft						Percentage from Table, Line B. (corrected for absence of forecastle (if required))
" overhang forward						Interpolation for bridge less than .2L (if required)
F'cle enclosed						Deduction = <u>42</u>
" overhang						
Trunk aft						
" forward						
Tonnage opening aft						
" " forward						
Total						

SHEER CORRECTION.								Mean actual sheer aft = Mean standard sheer aft =
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual sheer forward = Mean standard sheer forward =
A.P.		1				1		
$\frac{1}{8}L$ from A.P.		4				4		
$\frac{2}{8}L$ "		2				2		
Amidships		4				4		
$\frac{2}{8}L$ from F.P.		2				2		
$\frac{1}{8}L$ "		4				4		
F.P.		1				1		
Total								
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ <u>Nil</u>								If limited to maximum allowance of 1½ ins. per 100 ft.
If limited on account of midship superstructure.								

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Ft. Depth to Freeboard Deck = <u>29.27</u> Summer freeboard = <u>3.86</u> Moulded draught (d) = <u>25.41</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 = $\frac{\Delta}{40 T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <table><tr><td>+</td><td>-</td></tr><tr><td></td><td><u>1.38</u></td></tr><tr><td></td><td><u>42.00</u></td></tr><tr><td></td><td><u>-</u></td></tr><tr><td></td><td><u>43.38</u></td></tr><tr><td></td><td><u>-43.38</u></td></tr><tr><td></td><td>Summer Freeboard = <u>46.27</u></td></tr></table>	+	-		<u>1.38</u>		<u>42.00</u>		<u>-</u>		<u>43.38</u>		<u>-43.38</u>		Summer Freeboard = <u>46.27</u>
+	-															
	<u>1.38</u>															
	<u>42.00</u>															
	<u>-</u>															
	<u>43.38</u>															
	<u>-43.38</u>															
	Summer Freeboard = <u>46.27</u>															

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :—				3 86
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 " "