

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received
Index No.
Govt. Copy
Owners CII

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
					Date of Survey
Moulded Dimensions: Length 144.62 Breadth 58.5 Depth 33 (52.0 w 37.5)					Surveyor's Signature
Freeboard Length					Particulars of Classification
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) tons					
Coefficient of fineness for use with Tables 793 803					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 37.37	(a) Where D is greater than Table depth (D-Table depth) R = (37.43 - 29.43) 3. = 24	Moulded Breadth (B)
Stringer plate06	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Wood Sheathing on exposed deck	If restricted by superstructures	Ship's Round of Beam =
$T \left(\frac{L-S}{L} \right) =$		Difference
Depth for Freeboard (D) = 37.43		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_i}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	106.		3.11		
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	23.		3.11		
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	66.6.		3.11		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	195.6	195.6	3.11	7.5	81.10.
Standard Height of Superstructure 7.5					
" " R.Q.D. ✓					
Deduction for complete superstructure 42					
Percentage covered $\frac{S}{L} =$					
" " $\frac{S_i}{L} =$					
" " $\frac{E}{L} = 18.38$					
Percentage from Table, Line A. 9.19					
(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 = 42 x .919 = 3.86"					

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 ...	0	4	0	0	0	0	4	0	0
$\frac{2}{8}$ 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 " = NIL									
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = 32.40 \left(.75 - \frac{18}{144} \right) = 18$									
If limited on account of midship superstructure. NIL.									
If limited to maximum allowance of 1 1/2 ins. per 100ft.									

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.		Correction for coefficient 803 + .68 = 1483
Depth to Freeboard Deck = 33.06	Displacement in salt water at summer load water line	
Summer freeboard = 4.98	$\Delta =$	
Moulded draught (d) = 28.08	Tons per inch immersion at summer load water line	
Keel allowance =	T =	
Extreme draught =	Deduction = $\frac{\Delta}{40 T}$ inches	
Deduction for Tropical freeboard and addition for =		
Winter freeboard = $\frac{d}{4}$ inches =		
Addition for Winter North Atlantic Freeboard (if required) =		
		Depth Correction ... 24 ✓
		Deduction for superstructures ... 3.86 ✓
		Sheer correction ... ✓
		Round of Beam correction ... ✓
		Correction for Thickness of Deck amidships ... 52.44 ✓
		Other corrections, scantlings, etc. ... ✓
		24. 56.30 - 32.30
		Summer Freeboard = 59.77

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	...	4' - 11 3/4	
Fresh Water Line	"	Fresh Water	"		
Tropical Line	"	Tropical	"		
Winter Line below	"	Winter	"		
Winter North Atlantic Line	"	Winter North Atlantic	"		

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.

$$\text{Wing } .20 \times 6.25' \\ = 4.37$$

$$\text{equiv Depth} = 33 + 4.37 = 37.37$$

$$\text{C/S } \text{say } .803$$

$$\begin{array}{r} 7.48 \\ 4.37 \\ \hline 3.11 \end{array}$$

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £ : :

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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Foundation