

TIMBER

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.
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Owners Cl1

Ship's Name LISBETH M.	Official Number	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage	Date of Build 1953.	Port of Survey ROTTERDAM
Moulded Dimensions: Length 199.97' Breadth 33.01' Depth 15.07'					Date of Survey WHILE BUILDING
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 1646 M³					Particulars of Classification X 100 AI.
Coefficient of fineness for use with Tables .688.					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 15.07	(a) Where D is greater than Table depth (D-Table depth) R = +2.74	Moulded Breadth (B)
Stringer plate04	(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	✓	Ship's Round of Beam =
$T \left(\frac{L-S}{L} \right) =$	✓	Difference
Depth for Freeboard (D) = 15.11	If restricted by superstructures ✓	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ NIL.

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 ...	142.89	140.99			140.87

Standard Height of Superstructure 6'	
" " R.Q.D. 3.667'	
Deduction for complete superstructure 26"	
Percentage covered $\frac{S}{L} =$ 71.45.	
" " $\frac{S_1}{L} =$ 70.50.	
" " $\frac{E}{L} =$ 70.44.	
Percentage from Table, Line A 81.76.	
(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 = 26 x .8176 = 21.26"	

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
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 ...			269.99				267.56

Mean actual sheer aft = **Excess.**

Mean standard sheer aft =

Mean actual sheer forward = **deficient**

Mean standard sheer forward =

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

" " aft of " = **sheers.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **+1.05"**

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.		Correction for coefficient .688 + .68 = 1.368
Depth to Freeboard Deck = 18.77'	Displacement in salt water at summer load water line	$\frac{1.368}{1.36} =$
Summer freeboard = 4.06'	$\Delta =$	
Moulded draught (d) = 14.71'	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 =	= 3 1/2"	
Winter freeboard = $\frac{d}{4}$ inches = 3.68 = 3 3/4"		
Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} =$ 4.90 = 5"		

+	-
Depth Correction ...	2.74
Deduction for superstructures ...	21.26
Sheer correction05
Round of Beam correction ...	
Correction for Thickness of Deck amidships ...	43.92
Other corrections, scantlings, etc. ...	
46.71	21.26 + 25.45
Summer Freeboard = 48.68	

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

TIMBER Tropical Fresh Water Line above Centre of Disc 11"	(LIMITED) Tropical Fresh Water Freeboard 3'-6 1/2"
" Fresh Water Line " 8 1/4"	Fresh Water " 3'-9 1/4"
" Tropical Line " 7 1/2"	(LIMITED) Tropical " 3'-10 3/4"
" Winter Line below " 0 1/4"	Winter " 4'-5 3/4"
" Winter North Atlantic Line " 5 1/2"	Winter North Atlantic " 4'-11"

SUMMER FREEBOARD ABOVE CENTRE OF DISC = **4 3/4"**