

PRELIMINARY.
(AMENDED)Index No. **42799**
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name LOBNITZ N°1124/5	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 270' Breadth 44' Depth 18.5'					Date of Survey 12/2/51
Moulded displacement at moulded draught = 85 per cent. of moulded depth 3724 tons					Surveyor's Signature
Coefficient of fineness for use with Tables .698					Particulars of Classification +100 A/CPIB contemplative

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 18.50	(a) Where D is greater than Table depth (D-Table depth) R = 2.077 = +1.14	Moulded Breadth (B) 44.00
Stringer plate61	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = \mathbf{10.56}$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 10.50
Depth for Freeboard (D) = 18.55		Difference -.06
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.06}{4} \times .2964 = \mathbf{NIL}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>Equip.</i>	98.00	98.00	7.75	✓	98.00
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed <i>Equip.</i>	34.46	34.46	7.75	✓	34.46
" overhang aft <i>Equip.</i>	4.68	3.51			3.51
" overhang forward					
F'cle enclosed	54.00	54.00	7.00	✓	54.00
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	191.14	189.97			189.97

Standard Height of Superstructure	6.20'
" " R.Q.D.	✓
Deduction for complete superstructure	33.00
Percentage covered $\frac{S}{L} =$	70.80
" " $\frac{S_1}{L} =$	70.36
" " $\frac{E}{L} =$	
Percentage from Table, Line A. TANKER	63.44
(corrected for absence of fore-castle (if required))	
Percentage from Table, Line B.	
(corrected for absence of fore-castle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	33.00 x .6344 = -20.94"

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	37.60	1				1	
$\frac{1}{2}$ L from A.P. ...		4				4	
$\frac{3}{8}$ L " ...		2				2	
Amidships ...		4				4	
$\frac{5}{8}$ L from F.P. ...		2				2	
$\frac{7}{8}$ L " ...		4				4	
F.P. ...		1				1	
Total			333.00				333.00

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

If limited on account of midship superstructure.

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 " =	

STANDARD

TANKER

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck =	18.55
Summer freeboard =	1.31
Moulded draught (d) =	17.24
Deduction for Tropical freeboard and addition for	
Winter freeboard = $\frac{d}{4}$ inches =	4.31 = 4 1/4
Addition for Winter North Atlantic Freeboard (if required) =	4.31 + 2.7 = 7"

Deduction for Fresh Water.

Displacement in salt water at summer load water line	$\Delta = \mathbf{4199}$
Tons per inch immersion at summer load water line	$T = \mathbf{23.96}$
Deduction = $\frac{\Delta}{40 T}$ inches	4.38
	= 4 1/2"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient	$\frac{.698 + .68}{1.36} = \mathbf{1.378}$	35.20
		35.67
Depth Correction	1.14	
Deduction for superstructures	20.94	
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	1.14	20.94
		-19.80
		Summer Freeboard = 15.87

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

Tropical Fresh Water Line above Centre of Disc	... 8 3/4"
Fresh Water Line	... 4 1/2"
Tropical Line	... 4 1/4"
Winter Line below	... 4 1/4"
Winter North Atlantic Line	... 7"

Tropical Fresh Water Freeboard	0.7
Fresh Water	0.114
Tropical	0.112
Winter	1.8
Winter North Atlantic	1.104

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1124/5.

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.

$$\begin{aligned} \text{Bridge at side} &= 38.0' \checkmark \\ \text{less } \frac{20' \times 4'}{42} &= \frac{1.9'}{36.10' \times \frac{42}{44}} \checkmark \\ &= 34.45' \checkmark \end{aligned}$$

$$\begin{aligned} \text{o/h aft } (3.0' + 1.9') \frac{42}{44} &\checkmark \\ &= 4.68' \checkmark \end{aligned}$$

$$\begin{aligned} \text{P o o k} &= 96.0' \checkmark \\ + \frac{2}{3} \times 3 &= \frac{2.0'}{98.0'} \checkmark \end{aligned}$$

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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