

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name VINRIVER	Official Number	Nationality and Port of Registry British London	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 360.0' Breadth 49.75' Depth 25.42'					Date of Survey 9.2.48
Moulded displacement at moulded draught = 85 per cent. of moulded depth 8812 tons					Surveyor's Signature
Coefficient of fineness for use with Tables .797					Particulars of Classification +100 A1.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 25.42	(a) Where D is greater than Table depth $(D - \text{Table depth}) R = (25.46 - 24.00) \times 2.769 = +4.04$	Moulded Breadth (B) 49.75'
Stringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 11.94$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 12.00
Depth for Freeboard (D) = 25.46		Difference .06
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.06}{4} \times 49.75 = .01$

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>midship</i>	34.07	34.07	7'-6"	—	34.07
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed	110.40	110.40	7'-6"	—	110.40
„ overhang aft	.37	.28			.28
„ overhang forward	1.00	.50			.50
F'cle enclosed	33.00	33.00	7'-6"	—	33.00
„ overhang	2.50	2.50			2.50
Trunk aft ...					
„ forward ...					
Tonnage opening aft					
„ „ forward					
Total	181.34	180.75			180.75

Standard Height of Superstructure 7.10'
„ „ R.Q.D.
Deduction for complete superstructure 39.33'
Percentage covered $\frac{S}{L} = 50.38$
„ „ $\frac{S_1}{L} = 50.21$
„ „ $\frac{E}{L} = 50.21$
Percentage from Table, Line A Taper 69.38
(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 = 39.33 \times 69.38 = -27.29'

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	46.00	1	46.00	57.00	57.00	1	57.00
$\frac{1}{4}$ L from A.P. ...	20.47	4	81.88	24.68	24.68	4	98.72
$\frac{3}{4}$ L „ ...	5.06	2	10.12	6.12	6.17	2	12.34
Amidships ...	—	4	—	—	—	4	—
$\frac{3}{4}$ L from F.P. ...	10.12	2	20.24	12.39	12.39	2	24.78
$\frac{1}{4}$ L „ ...	40.74	4	163.76	49.56	49.56	4	198.24
F.P. ...	92.00	1	92.00	114.00	114.00	1	114.00
Total			414.00				505.08

Mean actual sheer aft = **Excess**

Mean standard sheer aft = **Excess**

Mean actual sheer forward = **Excess**

Mean standard sheer forward = **Excess**

Length of enclosed superstructure forward of amidships = **7.1**

„ „ aft of „ = **7.1**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{91.08}{18} \left(.75 - \frac{25.79}{2 \times 360} \right) = -2.52$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Fresh Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient 68 + .797 = 1.477
Depth to Freeboard Deck = 25.46	$\Delta =$	1.36
TIMBER Summer freeboard = 3.23	Tons per inch immersion at summer load water line	Depth Correction ... 4.04
Moulded draught (d) = 22.23	T =	Deduction for superstructures ... 27.29
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40 T}$ inches	Sheer correction ... 2.52
Winter freeboard = $\frac{d}{4}$ inches = 5.56 = 5½	= 5½	Round of Beam correction01
Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 7.41 = 7½$		Correction for Thickness of Deck amidships ...
		Other corrections, scantlings, etc. ...
		4.04 29.82 - 25.78
		Summer Freeboard = 38.73

TIMBER SUMMER FREEBOARD amidships from top of Deck Line.		Steel, Deck :-	
TIMBER Tropical Fresh Water Line above Centre of Disc	23"	TIMBER Tropical Fresh Water Freeboard	3'-2¾"
„ Fresh Water Line	17½"	„ Fresh Water	2'-3¾"
„ Tropical Line	17½"	„ Tropical	2'-9¾"
„ Winter Line	4½"	„ Winter	3'-10¾"
„ Winter North Atlantic Line	4½"	„ Winter North Atlantic	4'-7¾"
„ Summer Line	13"		

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Ship's Name

Vinniver.

Official No. 139456

Memorandum of alterations reported since ship was surveyed for assignment of Load Lines in

The requirements for timber freeboard have been complied with, viz:—

(i) the double bottom tanks within the midship half-length of the ship has adequate longitudinal subdivision

(ii) efficient provision is made for steering in the event of a break-down in the main steering aughts.

(iii) Byelaws for lashings are riveted to the sheer-strake at intervals of not more than 10', the distance from an end bulkhead of a superstructure to the first eye-plate being not more than 6'-6".

(iv) Strong metal sockets for securing the uprights riveted to the stringer plate at intervals not exceeding 10'.

The above conditions laid out in Secretary's letter of 9th Feb '48, have been complied with, as per Newport letter of 5th March '48.

3 MAR 1948

RETAIN