

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

30 JUL 1942

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
S.S. "FORT AUGUSTUS"	--	British London	7127	1942	Vancouver, B. C.
Moulded Dimensions: Length 416.50' to centre of rudder stock 417.35' Breadth 56.90' Depth 37.33' to Upper Deck 28.58' to 2nd Deck. 16.600 tons					Date of Survey June, 1942.
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature
Coefficient of fineness for use with Tables -- .771					Particulars of Classification 100 A1 with freeboard (contemplated)

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 37.33	(a) Where D is greater than Table depth (D - Table depth) R = (37.33 - 27.82) x 3 = +28.68"	Moulded Breadth (B) 56.90'
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 9.56	Standard Round of Beam = $\frac{B \times 12}{50} = 13.66"$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 14"
Depth for Freeboard (D) = 37.38		Difference = .34"
		Restricted to -
		Correction = $\frac{\text{Diff}^o}{4} \times \left(1 - \frac{S_1}{L} \right) = .09"$

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Roop enclosed ...				
" overhang ...				
Q.D. enclosed ...				
" overhang ...				
Bridge enclosed ...				
" overhang aft ...				
" overhang forward ...				
Trunk enclosed ...				
" overhang ...				
Trunk aft ...				
" forward ...				
Tonnage opening aft ...				
" " forward ...				
Total ...				

Standard Height of Superstructure 7.50'

" " R.Q.D. ✓

Deduction for complete superstructure 42.00"

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$ Nil.

" " $\frac{E}{L} =$

Percentage from Table, Line A.
(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 = Nil.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	51.73	1		51.73	55.00	55.00	1		55.00
1/4 L from A.P. ...	23.02	4		92.08	23.25	23.25	4		93.00
1/2 L " ...	5.69	2		11.38	6.50	6.50	2		13.00
Amidships ...	-	4		-	-	-	4		-
3/4 L from F.P. ...	11.38	2		22.76	11.63	11.63	2		23.26
1/4 L " ...	46.04	4		184.16	46.75	46.75	4		187.00
F.P. ...	103.47	1		103.47	105.00	105.00	1		105.00
Total ...				465.58					476.26

Mean actual sheer aft =
Mean standard sheer aft = } Excess

Mean actual sheer forward =
Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships =
L

" " aft of " = } Flush deck

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{10.68}{18} \times .75 = -.45"$

If limited on account of midship superstructure. No.

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	83.21
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient.	88.78
Depth to Freeboard Deck = 37.38	Δ = 13770 tons	76.95 + 6.26	
Summer freeboard = 10.54	Tons per inch immersion at summer load water line	68 + .771 = 1.451/36	
Moulded draught (d) = 26.84	T = 48.21	1.36	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 - 6 3/4"	Deduction = $\frac{\Delta}{40T}$ inches = 7 1/4"	Depth Correction ... 28.68	
Addition for Winter North Atlantic Freeboard (if required) = ✓		Deduction for superstructures ...	
		Sheer correction45	
		Round of Beam correction09	
		Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. to correspond with a summer moulded draught of 26'-10" (26'-10 1/8" actual)	
		38.26 .54	
		Summer Freeboard = 126.50	

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

Tropical Fresh Water Line above Centre of Disc ... 14"	Tropical Fresh Water Freeboard ... 9'-4 1/2"
Fresh Water Line " " ... 7 1/4"	Fresh Water " " ... 9'-11 1/4"
Tropical Line " " ... 6 3/4"	Tropical " " ... 9'-11 3/4"
Winter Line below " " ... 6 3/4"	Winter " " ... 11'-1 1/4"
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.

Trade of ship.....

Names of sister ships..... S.S. "FORT ALEXANDRIA" - North Van Ship Repairs, Ltd., North Vancouver, B.C.
Yard No. 101

Builder's name and yard number..... North Van Ship Repairs, Ltd., North Vancouver, B.C. - Yard No. 102

Owners..... Department of Munitions and Supply

Fee £..... \$ 90.00



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