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(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "FORT CLATSOP" AL HUSAINI	Official Number 180033	Nationality and Port of Registry Pakistani British London Karachi	Gross Tonnage 7157.37	Date of Build 1943	Port of Survey North Vancouver, B.C.
Moulded Dimensions: Length 416.50' Breadth 56.90' Depth (37.33' to Upper Deck) (28.58' to 2nd Deck) 16,600					Date of Survey August, 1943
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <i>[Signature]</i>
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 = (37.39 - 27.82) 3 = +28.71"	Moulded Breadth (B) 56.9'
Stringer plate06'	(b) Where D is less than Table depth (if allowed) (Table depth—D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.66
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam = 14.00"
Depth for Freeboard (D) = 37.39		Difference .34
		Restricted to ✓
		Correction = $\frac{\text{Diff}^o}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.34}{4} = -.09"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	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 ...					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure _____

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

" " $\frac{S_i}{L} =$ **Flush Deck**

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

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 Ins.	Effective Ordinate	S	M	Product
A.P. ...	51.73	1		51.73	55.00	55.00	1		55.00
%L from A.P. ...	23.02	4		92.08	23.25	23.25	4		93.00
%L " ...	5.69	2		11.38	6.50	6.50	2		13.00
Amidships ...		4					4		
%L from F.P. ...	11.38	2		22.76	11.63	11.63	2		23.26
%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 = _____

Mean actual sheer forward = _____

Mean standard sheer forward = _____

Length of enclosed superstructure forward of amidships = _____

" " 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. Flush Deck**

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

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Corrected for Flush Deck (if required)
Depth to Freeboard Deck = 37.39	$\Delta =$ 13760	Correction for coefficient. $\frac{76.95 + 6.26}{1.36} = 1.451 / 1.36$
Summer freeboard = 10.56	Tons per inch immersion at summer load water line	83.21
Moulded draught (d) = 26.83	T = 48.20	88.78
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 ... 28.71
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 to a Summer Moulded Draught of 26'-10" 9.80
		Summer Freeboard = 126.75

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 3/4"
Fresh Water Line " " ... 7 1/4"	Fresh Water " " ... 9'-11 1/2"
Tropical Line " " ... 6 3/4"	Tropical " " ... 10'-0"
Winter Line below " " ... 6 3/4"	Winter " " ... 11'-1 1/2"
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...North Van Ship Repairs, Ltd., North Vancouver, B. C. (Yard No. 127).....

Builder's name and yard number...North Van Ship Repairs, Ltd., North Vancouver, B. C. (Yard No. 128).....

Owners...Minister of Munitions & Supply of Canada......

Fee £ \$100.00 *RL*



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Foundation