

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. 37172
 (For London Office only).

11 FEB 1943

Ship's Name "FORT DREW"	Official Number 161415 168415	Nationality and Port of Registry British <i>London</i>	Gross Tonnage 7133.91	Date of Build 1942	Port of Survey North Vancouver, B.C.
Moulded Dimensions: Length 416.50' Breadth 56.90' Depth (37.33' to Upper Deck) <i>417.35 to centre of rudder stock.</i> (28.58' to 2nd Deck)					Surveyor's Signature <i>[Signature]</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16,600 tons					Particulars of Classification 100 A1 with Freeboard (Contemplated)
Coefficient of fineness for use with Tables .771					

Depth for Freeboard (D). Moulded depth ... 37.33' Stringer plate05' Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ - Depth for Freeboard (D) = 37.38	Depth correction. (a) Where D is greater than Table depth (D—Table depth) R = (37.38—27.82) × 3 = +28.68 <i>9.56</i> (b) Where D is less than Table depth (if allowed) (Table depth—D) R = - If restricted by superstructures -	Round of Beam correction. Moulded Breadth (B) 56.9' Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.66 Ship's Round of Beam = 14" Difference = .34 Restricted to - Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) =$.34/4 = .09
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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 ...					
Forecastle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...					

Standard Height of Superstructure ...

" " R.Q.D. ...

Deduction for complete superstructure ...

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

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

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

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	Product	Actual Ordinate Ins.	Effective Ordinate	S	Product
A.P. ...	51.73	1	51.73	55.00	55.00	1	55.00
1/2 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	-
1/2 L from F.P. ...	11.38	2	22.76	11.63	11.63	2	23.26
1/2 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 = **9.56**
 Mean standard sheer aft = **9.56**

 Mean actual sheer forward = **9.56**
 Mean standard sheer forward = **9.56**

 Length of enclosed superstructure forward of amidships = **Nil**
 " " 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 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 37.38 Summer freeboard = 10.54 Moulded draught (d) = 26.84 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6 3/4 Addition for Winter North Atlantic Freeboard (if required) = -	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 13770 Tons per inch immersion at summer load water line $T =$ 48.21 Deduction = $\frac{\Delta}{40T}$ inches = 7.14 = 7 1/4	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient. $\frac{76.95 + 6.26}{771 + .68} = \frac{1.451}{1.36}$ Depth Correction ... 28.68 Deduction for superstructures ... - Sheer correction45 Round of Beam correction09 Correction for Thickness of Deck amidships ... 9.58 Other corrections, scantlings, etc. 38.26 Summer Freeboard = 126.50
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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.

North Vancouver, B.C.

1962

7133.91

British

"FORT ALEXANDRIA"

December, 1962

(37.33' to Upper Deck
38.38' to 2nd Deck
16,600

26.90'

41.6.50'

With Freeboard (Contingent)
16,600

26.90'

37.33'

38.38'

UPPER DECK

105.00
46.75
11.63
6.50
25.25
22.00
12.50

Trade of ship.....

Names of sister ships....."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.115)

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

Fee \$100.00



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Foundation