

*Fort St. James, etc.
36801.*

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Index No. 37172
(For London Office only)

11 FEB 1943

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "FORT DREW"	Official Number 161115 168415	Nationality and Port of Registry British London	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 417.35 to centre of rudder stock (28.58' to 2nd Deck 16,600 tons					Date of Survey December, 1942.
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)

<p>Depth for Freeboard (D).</p> <p>Moulded depth ... 37.33'</p> <p>Stringer plate05'</p> <p>Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ -</p> <p>Depth for Freeboard (D) = 37.38</p>	<p>Depth correction.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R= $(37.38 - 27.82) \times 3 = +28.68$ 9.56</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R= -</p> <p>If restricted by superstructures</p>	<p>Round of Beam correction.</p> <p>Moulded Breadth (B) 56.9'</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} = 13.66$</p> <p>Ship's Round of Beam = 14"</p> <p>Difference = .34</p> <p>Restricted to -</p> <p>Correction = $\frac{Diff}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.34}{4} = -.09$</p>
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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 ...					

FLUSH DECK (written across the table)

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure _____

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

" " aft of " = *Nil*
Flush Deck

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

If limited on account of midship superstructure. *No. Flush Deck*

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = 37.38</p> <p>Summer freeboard = 10.54</p> <p>Moulded draught (d) = 26.84</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6 3/4</p> <p>Addition for Winter North Atlantic Freeboard (if required) = ✓</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta = 13770$</p> <p>Tons per inch immersion at summer load water line</p> <p>$T = 48.21$</p> <p>Deduction = $\frac{\Delta}{40T}$ inches = 7.14 = 7 1/4</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient. $\frac{76.95 + 6.26}{771 + .68} = 1.45 / 1.36$</p> <table border="1"> <tr><td>Depth Correction</td><td>28.68</td><td>-</td></tr> <tr><td>Deduction for superstructures</td><td>-</td><td>-</td></tr> <tr><td>Sheer correction</td><td>-</td><td>.45</td></tr> <tr><td>Round of Beam correction</td><td>-</td><td>.09</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>-</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>9.58</td><td>-</td></tr> <tr><td><i>On summer moulded draught of 26'-10" (26'-10 1/8" actual)</i></td><td>38.26</td><td>.54</td></tr> <tr><td>Summer Freeboard</td><td colspan="2">126.50</td></tr> </table>	Depth Correction	28.68	-	Deduction for superstructures	-	-	Sheer correction	-	.45	Round of Beam correction	-	.09	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	9.58	-	<i>On summer moulded draught of 26'-10" (26'-10 1/8" actual)</i>	38.26	.54	Summer Freeboard	126.50	
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: **10'-6 1/2"**

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. 1942
December, 1942
British 7133-91
41.6.50'
26.90'
16,600
(37.33' to Upper Deck)
(28.28' to 2nd Deck)
with Freeboard (Contingent)
100 41

26.9'

37.33'
28.28'

UPPER DECK

105.00
46.75
11.63
-
6.20
53.25
22.00
125.

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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