

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index. No. 37776  
 (For London Office only).

 FORT ORLEANS.  
 37527.

FEDERAL VOYAGER.

Ship's Name <b>"FORT EDMONTON"</b> <b>FEDERAL VOYAGER.</b>	Official Number <u>180001.</u>	Nationality and Port of Registry <b>British</b> <i>London.</i>	Gross Tonnage <u>7,202.</u>	Date of Build <u>1944</u>	Port of Survey <b>North Vancouver, B.C.</b>
Moulded Dimensions: Length <u>417.35</u> Breadth <u>56.90'</u> Depth <u>(37.33' to Upper Deck)</u> <u>(28.58' to 2nd Deck)</u> Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>16,600</u> tons Coefficient of fineness for use with Tables <u>.771.</u>					Date of Survey <b>September, 1944.</b>
Surveyor's Signature <i>W. Gill.</i>					Particulars of Classification <b>Contemplated</b> <b>*100 Al with freeboard corresponding to a Summer Moulded Dft. of 26'-10".</b>

Depth for Freeboard (D). Moulded depth ... <u>37.33'</u> Stringer plate ... <u>.06'</u> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <u>✓</u> Depth for Freeboard (D) = <u>37.39</u>	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(37.39 - 27.82) 3 = +28.71.$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ <u>✓</u> If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) <u>56.9'</u> Standard Round of Beam = $\frac{B \times 12}{50} = 13.66$ Ship's Round of Beam = <u>14.00"</u> Difference <u>.34</u> Restricted to <u>✓</u> Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.34}{4} = -.09$
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	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  $\frac{S}{L} =$  \_\_\_\_\_  
 " "  $\frac{S_1}{L} =$  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 <u>Ins.</u>	Effective Ordinate	S	M	Product
A.P. ...	<u>51.73</u>	1		<u>51.73</u>	<u>55.00</u>	<u>55.00</u>	1		<u>55.00</u>
1/4L from A.P. ...	<u>23.02</u>	4		<u>92.08</u>	<u>23.25</u>	<u>23.25</u>	4		<u>93.00</u>
1/2L " ...	<u>5.69</u>	2		<u>11.38</u>	<u>6.50</u>	<u>6.50</u>	2		<u>13.00</u>
Amidships ...	-	4		-	-	-	4		-
3/4L from F.P. ...	<u>11.38</u>	2		<u>22.76</u>	<u>11.63</u>	<u>11.63</u>	2		<u>23.26</u>
1/2L " ...	<u>46.04</u>	4		<u>184.16</u>	<u>46.75</u>	<u>46.75</u>	4		<u>187.00</u>
F.P. ...	<u>103.47</u>	1		<u>103.47</u>	<u>105.00</u>	<u>105.00</u>	1		<u>105.00</u>
Total ...				<u>465.58</u>					<u>476.26</u>

Mean actual sheer aft = \_\_\_\_\_  
 Mean standard sheer aft = \_\_\_\_\_ } Excess.  
 Mean actual sheer forward = \_\_\_\_\_  
 Mean standard sheer forward = \_\_\_\_\_  
 Length of enclosed superstructure forward of amidships = \_\_\_\_\_  
 " " aft of " = Nil.

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 = <u>37.39</u> Summer freeboard = <u>10.56</u> Moulded draught (d) = <u>26.83.</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.71 = 6 3/4"</u> Addition for Winter North Atlantic Freeboard (if required) = <u>✓</u>	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 13,760.$ Tons per inch immersion at summer load water line $T = 48.20$ Deduction = $\frac{\Delta}{40T}$ inches = <u>7 1/4"</u>	TABULAR FREEBOARD <u>76.95 + 6.26</u> Correction for coefficient. $\frac{.771 + .68}{1.36} = \frac{1.451}{1.36}$ <table border="1"> <tr><td></td><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td><u>28.71</u></td><td>-</td></tr> <tr><td>Deduction for superstructures</td><td>-</td><td>-</td></tr> <tr><td>Sheer correction</td><td>-</td><td><u>.45</u></td></tr> <tr><td>Round of Beam correction</td><td>-</td><td><u>.09</u></td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>-</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc. to correspond to a Summer moulded draught of 26'-10"</td><td><u>9.80</u></td><td>-</td></tr> <tr><td></td><td><u>38.51</u></td><td><u>.54</u></td></tr> </table> Summer Freeboard = <u>126.75.</u>		+	-	Depth Correction	<u>28.71</u>	-	Deduction for superstructures	-	-	Sheer correction	-	<u>.45</u>	Round of Beam correction	-	<u>.09</u>	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc. to correspond to a Summer moulded draught of 26'-10"	<u>9.80</u>	-		<u>38.51</u>	<u>.54</u>
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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	...	10'-6 3/4"
Fresh Water Line	"	7 1/4"	Fresh Water	"	9'-4 3/4"
Tropical Line	"	6 3/4"	Tropical	"	9'-11 1/2"
Winter Line below	"	6 3/4"	Winter	"	10'-0"
Winter North Atlantic Line	"	✓	Winter North Atlantic	"	11'-1 1/2"



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 Victualling.

Names of sister ships Burrard Dry Dock Co. Ltd., North Vancouver, B. C. (Yard No.206)

Builder's name and yard number Burrard Dry Dock Co. Ltd., North Vancouver, B. C. (Yard No.212)

Owners Minister of Munitions & Supply of Canada.

Fee \$100.00 lb



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