

Fort. St James.
36801 etc

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 37076
(For London Office only).

Ship's Name "FORT VERMILLION"	Official Number 168376	Nationality and Port of Registry British LONDON	Gross Tonnage 7133.39	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) (28.58' to 2nd Deck) To CR. OF RUDDER STOCK 417.35'					Date of Survey October, 1942
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16,600 tons					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). 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= $(37.38-27.82) 3 = + 28.68''$ 9.56 (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 = $\frac{Diff}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.34}{4} = .09''$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	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 ...					

FLUSH DECK

Standard Height of Superstructure **7.50'**
" " R.Q.D. ✓
Deduction for complete superstructure **42.00''**
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$ ✓
" " $\frac{E}{L} =$
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
1/4L 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	-
3/4L 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 = } **EXCESS**
Mean actual sheer forward =
Mean standard sheer forward =
Length of enclosed superstructure forward of amidships = } **FLUSH DECK**
" " aft of " = } **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 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. Depth Correction ... 28.68 Deduction for superstructures ... Sheer correction45 Round of Beam correction09 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. 7.58 26.10'' (26.10 1/8'' ACTUAL) 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 ... 10' - 6 1/2''
Fresh Water Line " " ... 7 1/4''	Fresh Water " " ... 9' - 4 1/2''
Tropical Line " " ... 6 3/4''	Tropical " " ... 9' - 11 1/4''
Winter Line below " " ... 6 3/4''	Winter " " ... 11' - 1 1/4''
Winter North Atlantic Line " " ... ✓	Winter North Atlantic " " ... ✓

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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.

Surveyor, B. C.

DATE 1933.03

"FORT ST. JAMES"

1933

Amended

107.331 to Upper Deck
108.381 to Mid Deck
109.000

109.00

108.60

with Freeboard (continued)

108.70

108.

UPPER DECK

108.70
108.00
108.00
108.00
108.00
108.00
108.00
108.00

Trade of ship.....
Names of sister ships **S.S. "FORT ST. JAMES" - Burrard Dry Dock Co. Ltd., North Vancouver, B. C. (Yard No. 130)**
Builder's name and yard number **Burrard Dry Dock Co. Ltd., North Vancouver, B.C. (Yard No. 165)**
Owners **Minister of Munitions & Supply of Canada.**
Fee **\$100.00**

RR

Amended

