

FORT ST. JAMES 36801 etc

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER.~~)

Ship's Name S. S. 'FORT LIARD'	Official Number 168437	Nationality and Port of Registry British London	Gross Tonnage 7131.20	Date of Build 1942	Port of Survey Victoria, B.C.
Moulded Dimensions: Length 416.50' Breadth 56.90' Depth 37.33' To UPPER DECK To CR. OF RUDDER STOCK 417.35 28.65' TO SECOND DECK					Date of Survey September, 1942.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16,600 tons					Surveyor's Signature D. S. Forsyth
Coefficient of fineness for use with Tables 771					Particulars of Classification +100A-1. 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= (37.38-27.82)3 = +28.68 9.56	Moulded Breadth (B) 56.90'
Stringer plate05'	(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"
Depth for Freeboard (D) = 37.38		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 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 ...					

Standard Height of Superstructure **7.50'**

" " R.Q.D. **✓**

Deduction for complete superstructure **42.00"**

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

" " $\frac{S_1}{L} =$ **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	M	Product	Actual Ordinate	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 = **EXCESS**

Mean actual sheer forward =

Mean standard sheer aft =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **FLUSH**

" " 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 1½ ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Fresh Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient.
Depth to Freeboard Deck = 37.38	$\Delta =$ 13770	Depth Correction ... 28.68
Summer freeboard = 10.54	Tons per inch immersion at summer load water line	Deduction for superstructures ... -
Moulded draught (d) = 26.84	$T =$ 48.21	Sheer correction45
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6¾"	Deduction = $\frac{\Delta}{40T}$ inches = 7.14 = 7¼"	Round of Beam correction09
Addition for Winter North Atlantic Freeboard (if required) = ✓		Correction for Thickness of Deck amidships ... -
		Other corrections, scantlings, etc. TO CORRESPOND WITH A SUMMER MOULDED DRAUGHT OF 26±10" (26±10½" ACTUAL)
		Summer Freeboard = 126.50

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 ... 41 4½"
Fresh Water Line " " ... 7¼"	Fresh Water " " ... 91 1¼"
Tropical Line " " ... 6¾"	Tropical " " ... 91 11¾"
Winter Line below " " ... 6¾"	Winter " " ... 11 1¼"
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..... *General Cargo*

Names of sister ships..... *S.S. "FORT CAMOSUNE", (Victoria Machy Depot Co. Ltd., Yard N° 20), & S.S. "FORT DOUGLAS", (V.M.D. Co. Ltd., Yard N° 21).*

Builder's name and yard number..... *Victoria Machinery Depot Co., Ltd., Victoria, B.C. Yard N° 22*

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

Fee *\$ 100.00* *RL*

