

Fort St. James
No 3680/Etc.Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "FORT SOURIS"	Official Number 168390	Nationality and Port of Registry British London	Gross Tonnage 7133.58	Date of Build 1942	Port of Survey Vancouver, B. C.
Moulded Dimensions: Length 416.50' Breadth 56.90' Depth 37.33' to Upper Dk. 417.35' To centre of rudder stock 28.58' to 2nd Deck.					Date of Survey October, 1942
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16,600 tons					Surveyor's Signature <i>J. Perry</i>
Coefficient of fineness for use with Tables .771					Particulars of Classification *100 A1 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 = $(37.38 - 27.82) 3 = +28.68$	Moulded Breadth (B) 56.90'
Stringer plate05'	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 9.56	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 <input checked="" type="checkbox"/>	Ship's Round of Beam = 14"
Depth for Freeboard (D) = 37.38		Difference .34
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.34}{4} = -.09$

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 _____
" " 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	M	Product	Actual Ordinate Ins.	Effective Ordinate	S	M	Product
A.P. ...	51.73	1	51.73	55.00	55.00	1	55.00		
1/4 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	-		
3/4 L from F.P. ...	11.38	2	22.76	11.63	11.63	2	23.26		
3/4 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 =
Mean standard sheer aft = } **Excess**
Mean actual sheer forward =
Mean standard sheer forward = }
Length of enclosed superstructure forward of amidships =
" " aft of " = } **Flush Deck.**

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

Correction for coefficient $\frac{.771 + .68}{1.36} = 1.451 / 1.36$ Depth Correction ... **28.68**Deduction for superstructures ... **82.8**Sheer correction ... **.45**Round of Beam correction ... **.09**Correction for Thickness of Deck amidships ... **9.58**

Other corrections, scantlings, etc. to correspond with a Summer Moulded Draught of 26'-10" (26'-10 1/8" 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 ... **1 1/4"**Fresh Water Line " " ... **1 1/4"**Tropical Line " " ... **6 3/4"**Winter Line below " " ... **6 3/4"**Winter North Atlantic Line " " ... **✓**Tropical Fresh Water Freeboard ... **10'-6 1/2"**Fresh Water " " ... **9'-4 1/2"**Tropical " " ... **9'-11 1/4"**Winter " " ... **9'-11 3/4"**Winter North Atlantic " " ... **11'-1 1/4"**

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.

Fee £ **\$100.00**