

Rpt. C.11 (Comp.)

FORT ST. JAMES ETC.
No. 36801

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 37185
(For London Office only)

Ship's Name "FORT FINLAY"	Official Number <u>168417</u>	Nationality and Port of Registry BRITISH <i>London</i>	Gross Tonnage 7133.95	Date of Build 1942	Port of Survey VANCOUVER, B. C.
Moulded Dimensions: Length 416.50' Breadth 56.90' Depth 37.33' to Upper Deck <i>To centre of rudder stock 417.35'</i> 28.58' to 2nd Deck					Date of Survey DECEMBER, 1942
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16600 tons					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables .771					Particulars of Classification #100 A.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= (37.33-27.82)3 = +28.68" <i>9.56</i>	Moulded Breadth (B) 56.90'
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth-D) R= <input checked="" type="checkbox"/>	Standard Round of Beam = $\frac{B \times 12}{50} = 13.66$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ <input checked="" type="checkbox"/>	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = 14.00"
Depth for Freeboard (D) = 37.38		Difference .34
		Restricted to <input checked="" type="checkbox"/>
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.34}{4} = -.09"$

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 ...					

FLUSH DECK

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	Effective Ordinate	S M	Product
A.P. ...	<i>51.73</i>	1	<i>51.73</i>	55.00	<i>55.00</i>	1	<i>55.00</i>
1/4L from A.P. ...	<i>23.02</i>	4	<i>92.08</i>	23.25	<i>23.25</i>	4	<i>93.00</i>
1/2L " ...	<i>5.69</i>	2	<i>11.38</i>	6.50	<i>6.50</i>	2	<i>13.00</i>
Amidships ...	-	4	-	x	-	4	-
3/4L from F.P. ...	<i>11.38</i>	2	<i>22.76</i>	11.63	<i>11.63</i>	2	<i>23.26</i>
1/2L " ...	<i>46.04</i>	4	<i>184.16</i>	46.75	<i>46.75</i>	4	<i>187.00</i>
F.P. ...	<i>103.47</i>	1	<i>103.47</i>	105.00	<i>105.00</i>	1	<i>105.00</i>
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 = _____
" " aft of " = *Flush 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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	83.21
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient. $\frac{.771 + .68}{1.36} = 1.451/1.36$	88.78
Depth to Freeboard Deck = <i>37.38</i>	$\Delta = 13770$	Depth Correction ... <i>28.68</i>	82.8 2.2.43
Summer freeboard = <i>10.54</i>	Tons per inch immersion at summer load water line	Deduction for superstructures ...	
Moulded draught (d) = <i>26.84</i>	T = <i>48.21</i>	Sheer correction ... <i>.45</i>	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <i>6.71 = 6 3/4</i>	Deduction = $\frac{\Delta}{40T}$ inches = <i>7.14</i>	Round of Beam correction ... <i>.09</i>	
Addition for Winter North Atlantic Freeboard (if required) =	= <i>7 1/4"</i>	Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. <i>to correspond to a moulded (summer) draught of 26'-10" (26'-10 1/8" actual)</i>	
		Summer Freeboard = 126.50	

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 ...	<i>1.4"</i>	Tropical Fresh Water Freeboard ...	<i>9'-4 1/2"</i>
Fresh Water Line " " ...	<i>7 1/4"</i>	Fresh Water " " ...	<i>9'-11 1/4"</i>
Tropical Line " " ...	<i>6 3/4"</i>	Tropical " " ...	<i>9'-11 3/4"</i>
Winter Line below " " ...	<i>6 3/4"</i>	Winter " " ...	<i>11'-7 1/4"</i>
Winter North Atlantic Line " " ...	<i>1.4"</i>	Winter North Atlantic " " ...	<i>11'-7 1/4"</i>



