

Rpt. C.11 (Comp.).
Fort St. James.
36801. etc.

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER.)

Index. No. 36943
(For London Office only).

Ship's Name S.S. "FORT PINE"	Official Number 162065	Nationality and Port of Registry British <i>Manchester</i>	Gross Tonnage 7133.08	Date of Build 1942	Port of Survey Vancouver, B. C.
Moulded Dimensions: Length 416.50' Breadth 56.90' Depth 37.33' to Upper Deck To centre of rudder stock, 417.35' 28.58' to 2nd Deck.					Date of Survey July, 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).	Depth correction.	Round of Beam correction.
Moulded depth ... 37.33	(a) Where D is greater than Table depth $(D - \text{Table depth}) R = (37.38 - 27.82) \times 3 = +28.68"$ 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 = $\frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L} \right) = -.09"$

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 ...					
File 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 $\frac{S}{L} =$

" " $\frac{S_1}{L} =$ **✓**

" " $\frac{E}{L} =$

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 <i>Ins.</i>	Effective Ordinate	S M	Product
A.P. ...	51.73	1	51.73	55.00	55.00	1	55.00
1/2L 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	-
1/2L 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 = **10.68**
Mean standard sheer aft = **10.68**

Mean actual sheer forward = **23.25**
Mean standard sheer forward = **23.25**

Length of enclosed superstructure forward of amidships = **10.68**
" " aft of " = **10.68**

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)
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	$\Delta = 13770 \text{ tons}$	
Summer freeboard = 10.54	Tons per inch immersion at summer load water line	
Moulded draught (d) = 26.84	$T = 48.21$	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6 3/4"	Deduction = $\frac{\Delta}{40T}$ inches = 7.14 = 7 1/4"	
Addition for Winter North Atlantic Freeboard (if required) = ✓		

Summer Freeboard = **126.50**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Steel~~, Deck: **10' - 6 1/2"**

Tropical Fresh Water Line above Centre of Disc ... 14"	Tropical Fresh Water Freeboard ... 9' - 4 1/2"
Fresh Water Line " " ... 7 1/4"	Fresh Water " " ... 9' - 11 1/4"
Tropical Line " " ... 6 3/4"	Tropical " " ... 9' - 11 3/4"
Winter Line below " " ... 6 3/4"	Winter " " ... 11' - 1 1/4"
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.....

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., South Yard No. 139**

Owners **His Majesty's Government in the United Kingdom.**

Fee £ **\$ 100.00**



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