

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

 Index No. 37985
 (For London Office only).

S.S. "GARDEN PARK"

 Official Number 176,011 Nationality and Port of Registry British Montreal, P.Q. Gross Tonnage 7148.51 Date of Build 1945
 Port of Survey North Vancouver, B.C.
 Date of Survey March, 1945.

 Moulded Dimensions: Length 416.50' Breadth 56.90' Depth (37.33' to Upper Deck
(28.58' to 2nd Deck
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 16,600 tons
 Coefficient of fineness for use with Tables .771

 Surveyor's Signature S. Sinclair
 Particulars of Classification contemplated:
*100 A1 with freeboard corresponding
to a Summer Moulded Draught of
26'-10".

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 = $(37.33 - 27.82) \times 3$ 9.51	Moulded Breadth (B) <u>56.9</u>
Stringer plate06'	(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 $T \left(\frac{L-S}{L} \right) =$	✓	✓	Ship's Round of Beam = <u>14.00"</u>
Depth for Freeboard (D) =	<u>37.39</u>	If restricted by superstructures ✓	Difference <u>.34</u>
			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 _____
 " " R.Q.D. _____
 Deduction for complete superstructure _____
 Percentage covered $\frac{S}{L} =$ _____
 " " $\frac{S_1}{L} =$ N/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 = N/L.

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
1/2 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		-
1/2 L from F.P. ...	11.38	2		22.76	11.63	11.63	2		23.26
1/2 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 " = } nil.

 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.
 Addition for Winter and Winter North Atlantic Freeboard.

 Depth to Freeboard Deck = 37.39
 Summer freeboard = 10.56
 Moulded draught (d) = 26.83

 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
 $\Delta = 13,760$
 Tons per inch immersion at summer load water line
 $T = 48.20$
 Deduction = $\frac{\Delta}{40T}$ inches = 7 1/4"

 TABULAR FREEBOARD corrected for Flush Deck (if required)
 Correction for coefficient $\frac{.771 + .68}{1.36} = \frac{1.451}{1.36}$

 Depth Correction ... 28.71
 Deduction for superstructures ...
 Sheer correction45
 Round of Beam correction09
 Correction for Thickness of Deck amidships ...
 Other corrections, scantlings, etc. correspond to a Summer moulded draught of 26'-10"
 Summer Freeboard = 126.75
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:—
 Tropical Fresh Water Line above Centre of Disc14
 Fresh Water Line " " ... 7 1/4"
 Tropical Line " " ... 6 3/4"
 Winter Line below " " ... 6 3/4"
 Winter North Atlantic Line " " ... ✓

 Tropical Fresh Water Freeboard ... 10'-6 3/4"
 Fresh Water " " ... 9'-4 3/4"
 Tropical " " ... 9'-11 1/2"
 Winter " " ... 10'-0"
 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. Burrard (Vancouver) Dry Dock Co. Ltd., Vancouver, B.C. (Yard No. 227) S.S. "FAIRMOUNT PARK"

Builder's name and yard number. Burrard Dry Dock Co. Ltd., North Vancouver, B.C. (Yard No. 230)

Owners Minister of Munitions & Supply of Canada

Fee \$ 100.00 *PL*



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