

FORT ST. JAMES
36801 Etc.

Lloyd's Register of Shipping.

Index No. 37319
(For London Office only)

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name S.S. "RIVERVIEW PARK" SHELBORNE COUNTY	Official Number	Nationality and Port of Registry British Montreal	Gross Tonnage 7130	Date of Build 1943	Port of Survey QUEBEC, P. Q.
Moulded Dimensions: Length 416.00' Breadth 56.88' Depth 37.33' to upper deck To centre of rudder stock 417.35' 28.58' to second deck					Date of Survey 1st. May, 1943.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16690 16590 tons SW					Surveyor's Signature <i>A. Nislop</i>
Coefficient of fineness for use with Tables .778					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=	68	Moulded Breadth (B)	56.88'
Stringer plate	.05	(37.38-27.73) 3.00 - 28.95'		Standard Round of Beam = $\frac{B \times 12}{50}$	13.65"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	-	(b) Where D is less than Table depth (if allowed) (Table depth-D) R=	-	Ship's Round of Beam	14.00"
Depth for Freeboard (D) =	37.38	If restricted by superstructures	-	Difference	.35"
				Restricted to	
				Correction = $\frac{Diff}{4} \times \left(1 - \frac{S_1}{L}\right)$	= $\frac{.35}{4} = -.089"$

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				
Fore enclosed				
" overhang				
Trunk aft				
" forward				
Tonnage opening aft				
" forward				
Total				

Flush Deck.

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	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	51.60 ⁷³	1	51.60 ⁷³	54.63	54.63	1	54.63
1/4L from A.P.	22.96 ^{3 02}	4	91.84 ^{2 08}	22.38	22.38	4	89.52
1/2L "	5.68 ⁹	2	11.36 ⁸	4.88	4.88	2	9.76
Amidships	-	4	-	-	-	4	-
3/4L from F.P.	11.35 ⁸	2	22.70 ⁶	11.75	11.75	2	23.50
1/4L "	45.92 ^{6 04}	4	183.68 ^{4 16}	47.13	47.13	4	188.52
F.P.	103.80 ⁴⁷	1	103.80 ⁴⁷	104.75	104.75	1	104.75
Total			464.38 ^{5 3}				470.68

Mean actual sheer aft = Deficient but > 75%

Mean standard sheer aft

Mean actual sheer forward = Excess

Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

" " aft of " = Nil

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{6.39}{18} \times .75 = -.29"$

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.

Ft.
Depth to Freeboard Deck = 37.38
Summer freeboard = 10.55⁴
Moulded draught (d) = 26.83⁴

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71-6³/₄

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 13798$

Tons per inch immersion at summer load water line
 $T = 48.23$

Deduction = $\frac{\Delta}{40T}$ inches = 7.15"
= 7¹/₄"

TABULAR FREEBOARD corrected for Flush Deck (if required)	88.76
Correction for coefficient. $\frac{.68 + .778}{1.36} = 1.458$	88.73
Depth Correction	28.95
Deduction for superstructures	-
Sheer correction	0.29
Round of Beam correction	0.08
Correction for Thickness of Deck amidships	-34
Other corrections, scantlings, etc. and to correspond to approved summer moulded draft of 26'-10" (26'-10 ¹ / ₈ " actual)	9.19
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	14"
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	9'-4 ¹ / ₂ "
Fresh Water	9'-11 ¹ / ₂ "
Tropical	9'-11 ¹ / ₂ "
Winter	11'-1 ¹ / ₂ "
Winter North Atlantic	-