

9 in 30' rule
Shelburne County Provisional

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name S.S. RIVERVIEW PARK SHELBOURNE COUNTY	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 416.87 Breadth 56.88 Depth 28.58' To centre of deck Moulded displacement at moulded draught = 85 per cent. of moulded depth 12240 tons Coefficient of fineness for use with Tables .744					Date of Survey 24.1.46 Surveyor's Signature A. Heia Particulars of Classification +100 A1 with freeboard.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 28.58' Stringer plate ... 40.03' Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ - Depth for Freeboard (D) = 28.61	(a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(28.61 - 27.79) 3 = + 2.46$ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	Moulded Breadth (B) 56.88' Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.65" Ship's Round of Beam = 6.00" Difference 7.65" Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{7.65^2}{4} \times 0.052 = +.01"$

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 ...				

CSS with T.O.

Standard Height of Superstructure	7.5
" " R.Q.D.	-
Deduction for complete superstructure	+2
Percentage covered $\frac{S}{L} =$	100.00
" " $\frac{S_1}{L} =$	99.48
" " $\frac{E}{L} =$	99.36
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 = $42.00 \times 99.36 =$	-41.73"

SHEER CORRECTION.							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S
A.P. ...	51.69	1		51.69	54.63	69.63	1
$\frac{1}{2}L$ from A.P. ...	13.00	4		92.00	22.38	30.98	4
$\frac{2}{3}L$ " ...	5.685	2		11.37	4.88	7.66	2
Amidships ...	-	4		-	-	-	4
$\frac{2}{3}L$ from F.P. ...	11.37	2		22.74	11.75	13.17	2
$\frac{1}{2}L$ " ...	46.00	4		184.00	47.13	53.24	4
F.P. ...	103.38	1		103.38	104.75	119.75	1
Total ...				465.18	115	568.12	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ $\frac{102.94}{18} \times .25 = -1.43"$

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 " =

Actual height of superstructure = 84' 9"
Standard " " = 71' 6"
Diff = 13' 3"

Excess.

C.S.S.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Depth to Freeboard Deck = 28.61 Summer freeboard = 3.31 Moulded draught (d) = 25.30 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.32 = 6.4 Addition for Winter North Atlantic Freeboard (if required) = -	Displacement in salt water at summer load water line $\Delta =$ 12880 Tons per inch immersion at summer load water line $T =$ 48.0 Deduction = $\frac{\Delta}{40 T}$ inches = 6.70 = 6.74"	Correction for coefficient 1.86 Depth Correction ... 2.46 Deduction for superstructures ... -41.73 Sheer correction ... -1.43 Round of Beam correction01 Correction for Thickness of Deck amidships ... - Other corrections, scantlings, etc. ... - 2.48 43.16 -40.71 Summer Freeboard = 39.70

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-			
Tropical Fresh Water Line above Centre of Disc ... 13"	Tropical Fresh Water Freeboard ... 2' 1 3/4"	Fresh Water Line " " ... 2' 1 3/4"	Fresh Water " " ... 2' 1 3/4"
Tropical Line " " ... 6 3/4"	Tropical " " ... 2' 1 3/4"	Tropical " " ... 2' 1 3/4"	Tropical " " ... 2' 1 3/4"
Winter Line below " " ... 6 1/4"	Winter " " ... 3' 10"	Winter " " ... 3' 10"	Winter " " ... 3' 10"
Winter North Atlantic Line " " ... -	Winter North Atlantic " " ... -	Winter North Atlantic " " ... -	Winter North Atlantic " " ... -

26.84
28.30
1.54

82.8
25.1.46