

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 37691.
(For London Office only).

Ship's Name BLOOMFIELD PARK. SUNDALE	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey <u>St John N.B.</u>
Moulded Dimensions: Length <u>310.44</u> Breadth <u>46.33</u> Depth <u>25.16</u>	Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons				Date of Survey <u>Keenig Construction</u>
Coefficient of fineness for use with Tables _____				Surveyor's Signature <u>J. TODD.</u>	
				Particulars of Classification <u>100A1</u> <u>(Contemplated)</u>	

Depth for Freeboard (D). Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = _____	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = <u>+10.72</u> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = _____ Difference Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>+ .02.</u>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>31.21</u>		<u>7.75</u>		
.. overhang	<u>2.00</u>				
R.Q.D. enclosed	-				
.. overhang	-				
Bridge enclosed... ..	<u>76.00</u>		<u>9.00</u>		
.. overhang aft	<u>4.00</u>				
.. overhang forward	<u>2.00</u>				
F'cle enclosed	<u>31.23</u>		<u>7.0.</u>		
.. overhang	-				
Trunk aft					
.. forward					
Tonnage opening aft ...					
.. " forward					
Total	<u>146.44</u>				

Standard Height of Superstructure 6.604
" " R.Q.D. 36.03.
Deduction for complete superstructure _____
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$
" " $\frac{E}{L} =$ 46.20
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. Timber 66.87.
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 36.03 x .6687 = - 24.09.

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{2}$ L from A.P.		4				4	
$\frac{2}{3}$ L "		2				2	
Amidships		4				4	
$\frac{2}{3}$ L from F.P.		2				2	
$\frac{1}{2}$ L "		4				4	
F.P.		1				1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ +6.26
If limited on account of midship superstructure. 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. Depth to Freeboard Deck = <u>25.19</u> Summer freeboard = <u>3.48</u> Moulded draught (d) = <u>21.71</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>5.43 = 5$\frac{1}{2}$"</u> Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 7.24 = 7\frac{1}{4}$.	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 6903$ Tons per inch immersion at summer load water line $T = 29.18$ Deduction = $\frac{\Delta}{40T}$ inches = <u>5.91 = 6$\frac{1}{4}$"</u>	TABULAR FREEBOARD corrected for Flush Deck (if required) <u>46.01</u> Correction for coefficient <u>48.75.</u> Depth Correction <u>10.72</u> - Deduction for superstructures - <u>24.09</u> Sheer correction <u>6.26</u> - Round of Beam correction... .. <u>.02</u> - Correction for Thickness of Deck amidships - - Other corrections, scantlings, etc. - - <u>17.00</u> <u>24.09</u> <u>-7.09</u> Summer Freeboard = <u>41.66</u>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

TIMBER Tropical Fresh Water Line above Centre of Disc	<u>25$\frac{1}{2}$"</u>	Tropical Fresh Water Freeboard	<u>3'-5$\frac{3}{4}$"</u>
" Fresh Water Line " "	<u>18$\frac{1}{4}$"</u>	" Fresh Water " "	<u>2'-6$\frac{1}{4}$"</u>
" Tropical Line " "	<u>17$\frac{1}{4}$"</u>	" Tropical " "	<u>2'-11$\frac{3}{4}$"</u>
" Winter Line <u>below ABOVE.</u> " "	<u>5"</u>	" Winter " "	<u>3'-0$\frac{1}{4}$"</u>
" Winter North Atlantic Line <u>BELOW.</u> " "	<u>7$\frac{1}{4}$"</u>	" Winter North Atlantic " "	<u>4'-1$\frac{1}{4}$"</u>
" SUMMER LINE ABOVE	<u>12$\frac{1}{4}$"</u>		<u>5'-1$\frac{1}{4}$"</u>

