

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

Index. No.
(For London Office only).

Ship's Name <i>Shakespeare Park</i> SUNPRINCE	Official Number	Nationality and Port of Registry <i>British</i> <i>Montreal</i>	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>310.44</i> Breadth <i>46.33</i> Depth <i>25.16</i>					Date of Survey <i>26.9.45.</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <i>6690</i> tons					Surveyor's Signature
Coefficient of fineness for use with Tables <i>.761</i>					Particulars of Classification <i>100A1</i> <i>Contemplated</i>

Depth for Freeboard (D). Moulded depth ... Stringer plate ... Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <i>25.19</i>	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = <i>+10.72</i> (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 = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>+0.02</i>
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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 *6.604*
„ „ R.Q.D. *✓*
Deduction for complete superstructure *36.03*
Percentage covered $\frac{S}{L} =$ *49.89*
„ „ $\frac{S_1}{L} =$ *48.13*
„ „ $\frac{E}{L} =$ *48.13*
Percentage from Table, Line A. *Timber 68.08*
(corrected for absence of forecandle (if required)) -
Percentage from Table, Line B. -
(corrected for absence of forecandle (if required)) -
Interpolation for bridge less than 2L (if required) -
Deduction = *36.03 x .6808 = -24.53*

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
$\frac{1}{8}L$ from A.P. ...		4				4	
$\frac{3}{8}L$ „ ...		2				2	
Amidships ...		4				4	
$\frac{3}{8}L$ from F.P. ...		2				2	
$\frac{1}{8}L$ „ ...		4				4	
F.P. ...		1				1	
Total ...							

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 „ =
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *+6.15*
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 = <i>25.19</i> Summer freeboard = <i>3.42</i> Moulded draught (d) = <i>21.77</i> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <i>5.44 = 5\frac{1}{2}''</i> Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 7.26 = 7\frac{1}{4}''$	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ <i>6938</i> Tons per inch immersion at summer load water line $T =$ <i>29.3</i> Deduction = $\frac{\Delta}{40T}$ inches = <i>6.92 = 6\frac{1}{2}''</i>	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient Depth Correction ... <i>10.72</i> Deduction for superstructures ... <i>24.53</i> Sheer correction ... <i>6.15</i> Round of Beam correction ... <i>.02</i> Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = <i>41.11</i>
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TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck: *3'-5"*

TIMBER	Tropical Fresh Water Line above Centre of Disc ...	<i>23\frac{1}{4}''</i>	TIMBER	Tropical Fresh Water Freeboard ...	<i>2'-5\frac{3}{4}''</i>
„	Fresh Water Line „ „ ...	<i>18\frac{1}{4}''</i>	„	Fresh Water „ „ ...	<i>2'-11\frac{1}{4}''</i>
„	Tropical Line „ „ ...	<i>17\frac{3}{4}''</i>	„	Tropical „ „ ...	<i>2'-11\frac{1}{2}''</i>
„	Winter Line <i>below ABOVE,</i> ...	<i>5''</i>	„	Winter „ „ ...	<i>4'-0\frac{1}{4}''</i>
„	Winter North Atlantic Line <i>BELOW,</i> ...	<i>7\frac{1}{4}''</i>	„	Winter North Atlantic „ „ ...	<i>5'-0\frac{1}{2}''</i>

10m 3.37. T. *SUMMER* *12\frac{1}{4}''* *004698-004702-0171*