

003275-003281-0087

TIMBER

Rpt. C.11,

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____
having <u>Poop, Bridge, Forecastle</u>					Date of Survey _____
(Type of Superstructures.)					Name of Surveyor _____
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification _____
KING WILLIAM	London British	160516	5274	1928 7	
Moulded Dimensions: Length <u>400</u> Breadth <u>54.5</u> Depth <u>29.62</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>12280</u> tons					
Coefficient of fineness for use with Tables <u>.783</u>					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>29.62</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>+8.97</u>	Moulded Breadth (B)
Stringer plate <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = <u>29.66</u>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>-05</u>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure <u>7.5</u>
Poop enclosed						" " R.Q.D. _____
" overhang						Deduction for complete superstructure <u>4.2</u>
R.Q.D. enclosed						Percentage covered $\frac{S}{L} =$ <u>57.25</u>
" overhang						" " $\frac{S_1}{L} =$ <u>57.25</u>
Bridge enclosed						" " $\frac{E}{L} =$ <u>57.25</u>
" overhang aft						Percentage from Table, Line A.
" overhang forward						(corrected for absence of forecastle (if required))
F'cle enclosed						Percentage from Table, Line B. <u>TIMBER 70.03</u>
" overhang						(corrected for absence of forecastle (if required))
Trunk aft						Interpolation for bridge less than .2L (if required)
" forward						Deduction = <u>42 + 70.03 = 29.41</u>
Tonnage opening aft						
" " forward						
Total	<u>204.99</u>	<u>204.99</u>			<u>204.99</u>	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual sheer aft =
A.P.		1				1		Mean standard sheer aft =
$\frac{1}{6}$ L from A.P.		4				4		Mean actual sheer forward =
$\frac{2}{6}$ L "		2				2		Mean standard sheer forward =
Amidships		4				4		Length of enclosed superstructure forward of amidships =
$\frac{2}{6}$ L from F.P.		2				2		" " aft of " =
$\frac{1}{6}$ L "		4				4		
F.P.		1				1		
Total								
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ <u>+1.00</u>								
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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	71.50
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient <u>.783 + .68</u>	76.90
Depth to Freeboard Deck = <u>29.66</u>	$\Delta =$ <u>121.20</u>	<u>1.36</u>	
Summer freeboard = <u>4.79</u>	Tons per inch immersion at summer load water line	Depth Correction <u>8.97</u>	
Moulded draught (d) = <u>24.87</u>	T = <u>45.7</u>	Deduction for superstructures <u>29.41</u>	
Deduction for Tropical freeboard = <u>6.22 6 1/4</u>	Deduction = $\frac{\Delta}{40 T}$ inches = <u>6.63 6 3/4</u>	Sheer correction <u>1.00</u>	
Addition for Winter North Atlantic Freeboard (d) = <u>2 1/3 8.29 8 1/4</u>		Round of Beam correction <u>.05</u>	
		Correction for Thickness of Deck amidships	
		Other corrections, scantlings, etc.	
		9.97 29.46 19.49	
		Summer Freeboard = <u>57.41</u>	

TIMBER	TIMBER	TIMBER	TIMBER
Tropical Fresh Water Line above Centre of Disc ... <u>26 3/4</u>	Fresh Water Line " " ... <u>20 1/2</u>	Tropical Line " " ... <u>20</u>	Winter Line below ABOVE ... <u>5 1/2</u>
Winter Line " " ... <u>6</u>	Winter North Atlantic Line " BELOW ... <u>6</u>	Tropical Fresh Water Freeboard ... <u>3 - 8 1/2</u>	Fresh Water " " ... <u>4 - 2 3/4</u>
		Tropical " " ... <u>4 - 3 1/4</u>	Winter " " ... <u>5 - 5 3/4</u>
		Winter North Atlantic " " ... <u>5 - 5 1/4</u>	