

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  
having Poop, Bridge, Forecastle Port of Survey \_\_\_\_\_

(Type of Superstructures.) \_\_\_\_\_ Date of Survey \_\_\_\_\_

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Name of Surveyor
KING WILLIAM	London British	160516	5274	19287	

Moulded Dimensions: Length 400 Breadth 54.5 Depth 29.62  
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12280 tons  
Coefficient of fineness for use with Tables .783

Particulars of Classification \_\_\_\_\_

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 = $\frac{\text{Diff}^{\circ}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <u>-05</u>

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ... ..					Standard Height of Superstructure <u>7.5</u>
" overhang ... ..					" " R.Q.D. _____
R.Q.D. enclosed ... ..					Deduction for complete superstructure <u>4.2</u>
" overhang ... ..					Percentage covered $\frac{S}{L} =$ <u>57.25</u>
Bridge enclosed... ..					" " $\frac{S_1}{L} =$ <u>57.25</u>
" overhang aft ... ..					" " $\frac{E}{L} =$ <u>57.25</u>
" overhang forward ... ..					Percentage from Table, Line A. (corrected for absence of forecastle (if required))
F'cle enclosed ... ..					Percentage from Table, Line B. <u>TIMBER 70.03</u> (corrected for absence of forecastle (if required))
" overhang ... ..					Interpolation for bridge less than .2L (if required)
Trunk aft ... ..					Deduction = <u>4.2 + 70.03 = 29.41</u>
" forward ... ..					
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
A.P. ... ..		1					1		
$\frac{1}{8}L$ from A.P. ... ..		4					4		
$\frac{2}{8}L$ " ... ..		2					2		
Amidships ... ..		4					4		
$\frac{2}{8}L$ from F.P. ... ..		2					2		
$\frac{1}{8}L$ " ... ..		4					4		
F.P. ... ..		1					1		
Total ... ..									

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  +1.00

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)	<u>71.50</u>
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{-783 + 68}{136}$	<u>76.90</u>
Depth to Freeboard Deck = <u>29.66</u> Ft.	$\Delta =$ <u>12120</u>	Depth Correction ... ..	<u>8.97</u> -
Summer freeboard = <u>4.79</u>	Tons per inch immersion at summer load water line	Deduction for superstructures ... ..	- <u>29.41</u>
Moulded draught (d) = <u>24.87</u>	T = <u>45.7</u>	Sheer correction ... ..	<u>1.00</u> -
Deduction for Tropical freeboard <del>addition of</del>	Deduction = $\frac{\Delta}{40T}$ inches	Round of Beam correction ... ..	- <u>05</u>
<del>addition of</del> = $\frac{d}{4}$ inches = <u>6.22 6 1/4</u>	= <u>6.63</u>	Correction for Thickness of Deck amidships ... ..	-
Addition for Winter <del>North Atlantic</del> Freeboard ( $\frac{d}{3}$ ) = <u>8.29</u> <u>8 1/4</u>	<u>6 3/4</u>	Other corrections, scantlings, etc. ... ..	-
			<u>9.97</u> <u>29.46</u> <u>19.49</u>
			Summer Freeboard = <u>57.41</u>

TIMBER SUMMER FREEBOARD amidships from ~~top of Deck Line~~ top of Deck Line, ~~Steel Deck~~ Steel Deck: 4-20-9/20

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

28/6/32