

TIMBER.

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 <u>Glasgow</u> Date of Survey <u>9/8/33</u> Name of Surveyor <u>AW Palmer</u> Particulars of Classification <u>+ 100 RT</u> <u>contemplated</u>
having _____					
(Type of Superstructures.)					
Ship's Name <u>Alex Stephens</u> <u>N° 538</u>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	
Moulded Dimensions: Length Breadth Depth					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>.71</u> ✓					

Depth for Freeboard (D) Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>23.03</u>	Depth correction (a) Where D is greater than Table depth (D-Table depth) R = <u>+ 10.45"</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 = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <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					
„ 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 _____
 „ „ R.Q.D. _____
 Deduction for complete superstructure 33.00
 Percentage covered $\frac{S}{L} =$
 „ „ $\frac{S_1}{L} =$
 „ „ $\frac{E}{L} =$ 54.45%
 Percentage from Table, Line A. Timber. 72.03 ✓
 (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 = 33.00 × .7203 = - 23.77" ✓

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		
$\frac{3}{8}L$ 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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ - .47"
 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>23.11</u> ✓ Summer freeboard = <u>2.04</u> ✓ Moulded draught (d) = <u>21.07</u> ✓ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>5.27</u> = <u>5$\frac{1}{4}$"</u> ✓ Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3}$ = <u>7.02</u> = <u>7"</u> ✓	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ <u>5022</u> Tons per inch immersion at summer load water line $T =$ <u>23.3</u> Deduction = $\frac{\Delta}{40T}$ inches = <u>5.39"</u> = <u>5$\frac{1}{2}$"</u>	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr><td>Depth Correction</td><td><u>10.45</u> ✓</td><td></td></tr> <tr><td>Deduction for superstructures</td><td></td><td><u>23.77</u> ✓</td></tr> <tr><td>Sheer correction</td><td></td><td><u>.47</u> ✓</td></tr> <tr><td>Round of Beam correction</td><td><u>.02</u> ✓</td><td></td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td><u>1.00</u> ✓</td><td></td></tr> <tr><td>Other corrections, scantlings, etc.</td><td></td><td></td></tr> <tr><td>Summer Freeboard =</td><td><u>24.24</u></td><td><u>- 12.77</u> ✓</td></tr> </tbody> </table>		+	-	Depth Correction	<u>10.45</u> ✓		Deduction for superstructures		<u>23.77</u> ✓	Sheer correction		<u>.47</u> ✓	Round of Beam correction	<u>.02</u> ✓		Correction for Thickness of Deck amidships	<u>1.00</u> ✓		Other corrections, scantlings, etc.			Summer Freeboard =	<u>24.24</u>	<u>- 12.77</u> ✓
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SUMMER FREEBOARD amidships from Centre of Disc top of Deck Line, Wood, Steel, Deck: Tropical Fresh Water Line above Centre of Disc <u>21$\frac{1}{4}$"</u> ✓ Fresh Water Line " " <u>16"</u> ✓ Tropical Line " " <u>15$\frac{3}{4}$"</u> ✓ Winter Line " " <u>below</u> <u>3$\frac{1}{2}$"</u> ✓ Winter North Atlantic Line " " <u>below</u> <u>7"</u> ✓	Tropical Fresh Water Freeboard <u>21$\frac{1}{4}$"</u> ✓ Fresh Water " " <u>16"</u> ✓ Tropical " " <u>15$\frac{3}{4}$"</u> ✓ Winter " " <u>3$\frac{1}{2}$"</u> ✓ Winter North Atlantic " " <u>7"</u> ✓
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