

TIMBER DECK CARGOES

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 <u>Stockholm</u>
having <u>Prop. Bridge & Fide</u>					Date of Survey <u>7th Mar 1933</u>
(Type of Superstructures.)					Name of Surveyor
Ship's Name <u>ATLANTEN</u>	Nationality and Port of Registry <u>Swedish Solvesborg</u>	Official Number	Gross Tonnage <u>3492</u>	Date of Build <u>1902/3</u>	Particulars of Classification <u>+ 100A1</u>
Moulded Dimensions: Length <u>340.5</u> Breadth <u>47.32</u> Depth <u>26.08</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>.820</u>					

Depth for Freeboard (D) Moulded depth <u>26.08</u> Stringer plate <u>.05</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>26.13</u>	Depth correction (a) Where D is greater than Table depth (D-Table depth) R = <u>+ 8.98</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 = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <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 ...						Standard Height of Superstructure _____
" overhang ...						" R.Q.D. _____
R.Q.D. enclosed ...						Deduction for complete superstructure <u>38.03</u>
" overhang ...						Percentage covered $\frac{S}{L} =$
Bridge enclosed ...						" $\frac{S_1}{L} =$
" overhang aft ...						" $\frac{E}{L} =$ <u>43.35</u>
" overhang forward ...						Percentage from Table, Line A. (corrected for absence of forecaste (if required))
F'cle enclosed ...						Percentage from Table, Line B. <u>TIMBER</u> <u>65.09</u>
" overhang ...						(corrected for absence of forecaste (if required))
Trunk aft ...						Interpolation for bridge less than .2L (if required)
" forward ...						Deduction = <u>- 24.75</u>
Tonnage opening aft ...						
" forward ...						
Total ...						

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 ...									

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ - .41

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 = 26.13
 Summer freeboard = 3.60
 Moulded draught (d) = 22.53

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 5.63 = 143

Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} =$ 7.51 = 191

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$
 Tons per inch immersion at summer load water line
 $T =$

Deduction = $\frac{\Delta}{40T}$ inches = 143

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	<u>8.98</u>	
Deduction for superstructures ...		<u>24.75</u>
Sheer correction ...		<u>.41</u>
Round of Beam correction ...		<u>.02</u>
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	<u>8.98</u>	<u>25.18</u>

Summer Freeboard = 43.18

TIMBER - 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>618</u>	Tropical Fresh Water Freeboard ...	<u>811</u>
" Fresh Water Line " " ...	<u>475</u>	Fresh Water " " ...	<u>954</u>
" Tropical Line " " ...	<u>475</u>	Tropical " " ...	<u>954</u>
" Winter Line below ABOVE " " ...	<u>141</u>	Winter " " ...	<u>1288</u>
" Winter North Atlantic Line " BELOW " " ...	<u>139</u>	Winter North Atlantic " " ...	<u>1568</u>
SUMMER " ABOVE " " ...	<u>332</u>		

MARKING FORM
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