

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. \_\_\_\_\_  
(For London Office only).

Ship's Name <i>Confid</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
$\text{Depth} = \frac{L}{13\frac{1}{2}} = 10.35$					Date of Survey <i>21.3.47</i>
Moulded Dimensions: Length <i>139.8</i> Breadth <i>22.64</i> Depth <i>10.35</i>					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Particulars of Classification
Coefficient of fineness for use with Tables <i>.78 (assumed)</i>					

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... .. <i>10.35</i>	(a) Where D is greater than Table depth (D - Table depth) R = $(10.38 - 9.32) \times 1.076 = +1.14$	Moulded Breadth (B)
Stringer plate ... .. <i>.03</i>	(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 <input checked="" type="checkbox"/>	Ship's Round of Beam =
Depth for Freeboard (D) = <i>10.38</i>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = -0.67$ (as before)

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	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 ... ..					
<b>Total ... ..</b>	<i>50.71</i>	<i>47.23</i>			<i>41.41</i>

  

Standard Height of Superstructure	<i>6.0</i>
"  "  R.Q.D.	<i>3.266</i>
Deduction for complete superstructure	<i>19.98</i>
Percentage covered $\frac{S}{L} =$	<i>36.27</i>
"  " $\frac{S_1}{L} =$	<i>33.78</i>
"  " $\frac{E}{L} =$	<i>29.62</i>
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	<i>14.81</i>
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	<i>3.96</i> = <i>3.71</i>

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..		1					1		
$\frac{1}{4}L$ from A.P. ... ..		4					4		
$\frac{2}{4}L$ " ... ..		2					2		
Amidships ... ..		4					4		
$\frac{2}{4}L$ from F.P. ... ..		2					2		
$\frac{1}{4}L$ " ... ..		4					4		
F.P. ... ..		1					1		
<b>Total ... ..</b>									

  

Mean actual sheer aft =	}	EXCESS
Mean standard sheer aft =		
Mean actual sheer forward =	}	NIL
Mean standard sheer forward =		
Length of enclosed superstructure forward of amidships =	}	NIL
"  "  aft of " =		

  

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) =$   
 If limited on account of midship superstructure. *YES = NIL* *1.33 (-) (as before)*      If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Depth to Freeboard Deck = <i>10.38</i> Summer freeboard = <i>1.00</i> Moulded draught (d) = <i>9.38</i> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	<b>Deduction for Fresh Water.</b> 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 =	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient $\left( \frac{.78 + .68}{1.36} \right) 14.18$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">+</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">1.14</td><td style="text-align: center;">3.71</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">2.78</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">.67</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">1.14</td><td style="text-align: center;">2.63</td></tr> <tr><td colspan="2" style="text-align: right;">Summer Freeboard = <i>12.73</i></td></tr> </table>	+	-	1.14	3.71	-	2.78	-	-	-	.67	-	-	-	-	-	-	1.14	2.63	Summer Freeboard = <i>12.73</i>	
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### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

SAY SUMMER MOULDED DRAUGHT = 9'-4" Tropical Fresh Water Line above Centre of Disc ... .. Fresh Water Line " " ... .. Tropical Line " " ... .. Winter Line below " " ... .. Winter North Atlantic Line " " ... ..	Tropical Fresh Water Freeboard ... .. Fresh Water " " ... .. Tropical " " ... .. Winter " " ... .. Winter North Atlantic " " ... ..
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