

*draught as a standard C.S.S. vessel.*

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~  
having C.S.S.

Port of Survey \_\_\_\_\_

Date of Survey 8-10-35

Name of Surveyor \_\_\_\_\_

Particulars of Classification +100M Shelter Deck with fit.

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
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Moulded Dimensions: Length 410.0 Breadth 57.0 Depth  $\sum$  41.58  
33.58 assumed

Moulded displacement at moulded draught = 85 per cent. of moulded depth \_\_\_\_\_ tons

Coefficient of fineness for use with Tables .70

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>33.58</u>	(a) Where D is greater than Table depth (D - Table depth) R = $(33.62 - 27.33) 3 = +18.87$ <u>6.29</u>	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = <u>Standard</u>
Stringer plate ... .. <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = _____	Difference _____
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ _____	If restricted by superstructures _____	Restricted to _____
Depth for Freeboard (D) = <u>33.62</u>		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <u>Nil</u>

### 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 ... ..					
Forecastle enclosed ... ..					
"  overhang ... ..					
Trunk aft ... ..					
"  forward ... ..					
Tonnage opening aft ... ..					
"  "  forward ... ..					
Total ... ..					

*C.S.S.*

Standard Height of Superstructure 7.5

" " R.Q.D. \_\_\_\_\_

Deduction for complete superstructure 42

Percentage covered  $\frac{S}{L} =$  \_\_\_\_\_

" "  $\frac{S_1}{L} =$  \_\_\_\_\_ } 100.00

" "  $\frac{E}{L} =$  \_\_\_\_\_

Percentage from Table, Line A. 100.00  
(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 = -42

### SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ... ..		1				1	
$\frac{1}{6}$ L from A.P. ... ..		4				4	
$\frac{2}{6}$ L " ... ..		2				2	
Amidships ... ..		4				4	
$\frac{2}{6}$ L from F.P. ... ..		2				2	
$\frac{1}{6}$ L " ... ..		4				4	
F.P. ... ..		1				1	
Total ... ..							

*Standard*

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 " = \_\_\_\_\_

*L.R. height of superstructure = 8.00*  
*Standard " " = 7.50*  
*-.50*

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  -.50

If limited on account of midship superstructure. \_\_\_\_\_

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. \_\_\_\_\_

<p><b>Deduction for Tropical Freeboard.</b></p> <p><b>Addition for Winter and Winter North Atlantic Freeboard.</b></p> <p>Depth to Freeboard Deck = <u>33.62</u> Ft.</p> <p>Summer freeboard = <u>4.34</u></p> <p>Moulded draught (d) = <u>29.28</u></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = <math>\frac{d}{4}</math> inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p><b>Deduction for Fresh Water.</b></p> <p>Displacement in salt water at summer load water line _____</p> <p><math>\Delta =</math> _____</p> <p>Tons per inch immersion at summer load water line _____</p> <p>T = _____</p> <p>Deduction = <math>\frac{\Delta}{40T}</math> inches = _____</p>	<p><b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required)</p> <p>Correction for coefficient <math>\frac{.70 + .68}{1.36} = \frac{1.38}{1.36}</math></p> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>Depth Correction ... ..</td><td><u>18.87</u></td></tr> <tr><td>Deduction for superstructures ... ..</td><td><u>42.00</u></td></tr> <tr><td>Sheer correction ... ..</td><td><u>0.50</u></td></tr> <tr><td>Round of Beam correction ... ..</td><td>-</td></tr> <tr><td>Correction for Thickness of Deck amidships ... ..</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc. ... ..</td><td>-</td></tr> <tr><td><b>Sum</b></td><td><u>18.87</u></td></tr> <tr><td><b>Sum</b></td><td><u>42.50</u></td></tr> <tr><td><b>Result</b></td><td><u>-23.63</u></td></tr> </table> <p>Summer Freeboard = <u>52.07</u></p>	+	-	Depth Correction ... ..	<u>18.87</u>	Deduction for superstructures ... ..	<u>42.00</u>	Sheer correction ... ..	<u>0.50</u>	Round of Beam correction ... ..	-	Correction for Thickness of Deck amidships ... ..	-	Other corrections, scantlings, etc. ... ..	-	<b>Sum</b>	<u>18.87</u>	<b>Sum</b>	<u>42.50</u>	<b>Result</b>	<u>-23.63</u>
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### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: -

Tropical Fresh Water Line above Centre of Disc ... ..	Tropical Fresh Water Freeboard ... ..
Fresh Water Line " " ... ..	Fresh Water " " ... ..
Tropical Line " " ... ..	Tropical " " ... ..
Winter Line below " " ... ..	Winter " " ... ..
Winter North Atlantic Line " " ... ..	Winter North Atlantic " " ... ..

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