

To of sections with R.Q. etc of standard height
with standard sheer number to give actual draught

pt. 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 _____

Port of Survey _____

(Type of Superstructures.) _____

Date of Survey 27/11/34

Name of Surveyor _____

Particulars of Classification 100TH
contingents

Ship's Name withon heath hbs
Yard No 596

Nationality and Port of Registry _____ Official Number _____ Gross Tonnage _____ Date of Build _____

Moulded Dimensions: Length 225.0 Breadth 33.0 Depth 16.5

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

Coefficient of fineness for use with Tables _____

<p>Depth for Freeboard (D)</p> <p>Moulded depth <u>16.50</u></p> <p>Ring plate <u>.04</u></p> <p>Leathing on exposed deck</p> <p>$T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = <u>16.54</u></p>	<p>Depth correction</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = <u>+ 2.66</u></p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R =</p> <p>If restricted by superstructures</p>	<p>Round of Beam correction</p> <p>Moulded Breadth (B)</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam =</p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>Nil</u></p>
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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	<u>6.0</u>
„ „ R.Q.D.	<u>3.833</u>
Deduction for complete superstructure	<u>28.5</u>
Percentage covered $\frac{S}{L} =$	
„ „ $\frac{S_1}{L} =$	
„ „ $\frac{E}{L} =$	<u>62.41</u>
Percentage from Table, Line A.	<u>.501</u>
(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 = $28.5 \times .501$	<u>14.28</u>

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
L from A.P.		4					4		
L „		2					2		
amidships		4					4		
L from F.P.		2					2		
L „		4					4		
A.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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ Nil

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <u>16.54</u></p> <p>Summer freeboard = <u>1.37</u></p> <p>Moulded draught (d) = <u>15.17</u></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T = _____</p> <p>Deduction = $\frac{\Delta}{40T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient <u>.708</u></p> <table border="1"> <tr><td>Depth Correction</td><td><u>2.66</u></td><td></td></tr> <tr><td>Deduction for superstructures</td><td></td><td><u>14.28</u></td></tr> <tr><td>Sheer correction</td><td></td><td></td></tr> <tr><td>Round of Beam correction</td><td></td><td></td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td></td><td></td></tr> <tr><td>Other corrections, scantlings, etc.</td><td></td><td></td></tr> <tr><td>Summer Freeboard</td><td><u>16.50</u></td><td></td></tr> </table>	Depth Correction	<u>2.66</u>		Deduction for superstructures		<u>14.28</u>	Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.			Summer Freeboard	<u>16.50</u>		<p><u>27.55</u></p> <p><u>28.12</u></p> <p><u>11.62</u></p> <p><u>16.50</u></p>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:— 15.42 2020

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	...