

FLUSH DECK EQUIV. DEPTH

COAMINGS

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
					Date of Survey <u>9-4-51</u>
Moulded Dimensions: Length <u>540.89</u> Breadth <u>74.00</u> Depth _____					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 <u>.71</u>					

<p>DEPTH FOR FREEBOARD (D).</p> <p>Moulded depth</p> <p>Stringer plate</p> <p>Sheathing on exposed deck</p> $T \left(\frac{L-S}{L} \right) =$ <p>Depth for Freeboard (D) = <u>38.37</u></p>	<p>DEPTH CORRECTION.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = <u>38.37 - 36.06 = 2.31</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 = <u>STANDARD</u></p> <p>Difference _____</p> <p>Restricted to _____</p> <p>Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>NIL</u></p>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure _____
„ overhang						„ „ R.Q.D. _____
R.Q.D. enclosed						Deduction for complete superstructure _____
„ overhang						Percentage covered $\frac{S}{L} =$ _____
Bridge enclosed						„ „ $\frac{S_1}{L} =$ _____
„ overhang aft						„ „ $\frac{E}{L} =$ _____
„ overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
F'cle enclosed						Percentage from Table, Line B. (corrected for absence of forecastle (if required))
„ overhang						Interpolation for bridge less than .2L (if required)
Trunk aft						Deduction = <u>NIL</u>
„ forward						
Tonnage opening aft						
„ „ forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.		1				1	
$\frac{1}{8}L$ from A.P.		4				4	
$\frac{2}{8}L$ „		2	<u>STANDARD</u>			2	
Amidships		4				4	
$\frac{3}{8}L$ from F.P.		2				2	
$\frac{4}{8}L$ „		4				4	
F.P.		1				1	
Total							

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

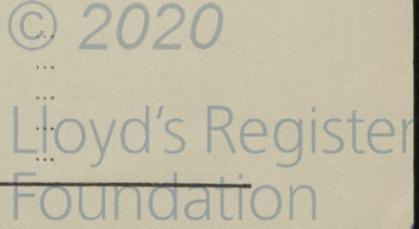
If limited on account of midship superstructure. _____

If limited to maximum allowance of $1\frac{1}{2}$ 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>38.37</u> Ft.</p> <p>Summer freeboard = <u>10.28</u></p> <p>Moulded draught (d) = <u>28.09</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 = $\frac{\Delta}{40 T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required) <u>113.94</u></p> <p>Correction for coefficient <u>1.39 / 1.20</u> = <u>116.46</u></p> <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td><u>6.93</u></td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td></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></td> <td><u>6.93</u></td> <td></td> </tr> </table> <p>Summer Freeboard = <u>123.39</u></p>		+	-	Depth Correction	<u>6.93</u>		Deduction for superstructures			Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.				<u>6.93</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	...



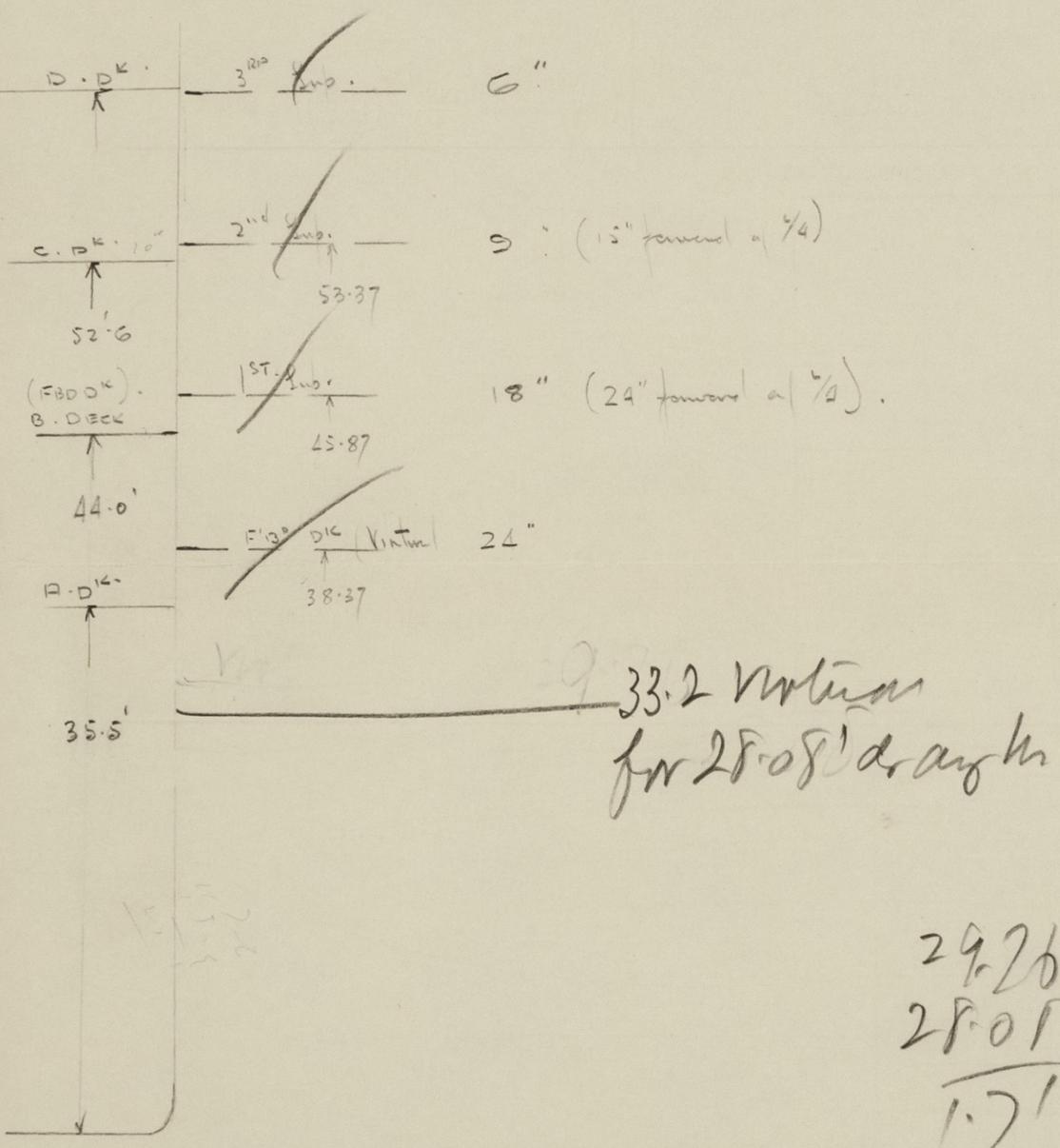
A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

$$D = 28.08 + \frac{116.46}{12} + \frac{(D - 36.03)3}{12}$$

$$D = 336.96 + 116.46 + 3D - 108.09$$

$$\begin{array}{r} 9D = 336.96 \\ \quad 116.46 \\ \hline 453.42 \\ \quad 108.09 \\ \hline 345.33 \end{array}$$

$$D = 38.37$$



29.26
 28.08
 1.18 x 4/3 = 6.8
 2.3

Trade of ship _____ 35.5
 Names of sister ships _____ 2.3
 Builder's name and yard number _____ 33 2
 Owners _____
 Fee £ _____