

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 16.7.45
Moulded Dimensions: Length 415.0 Breadth 60.0 Depth 32.75					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Particulars of Classification +100A1
Coefficient of fineness for use with Tables .72 assumed					<i>in. filed.</i>

<p>DEPTH FOR FREEBOARD (D).</p> <p>Moulded depth ... 32.75</p> <p>Stringer plate04</p> <p>Sheathing on exposed deck</p> <p>$T \left(\frac{L-S}{L} \right) =$ _____</p> <p>Depth for Freeboard (D) = 32.71</p>	<p>DEPTH CORRECTION.</p> <p>(a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(32.79 - 27.67) \times 3.00 = +15.36$</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) 60.00</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} = 14.4$</p> <p>Ship's Round of Beam = 12.0</p> <p>Difference = 2.4</p> <p>Restricted to _____</p> <p>Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{2.4}{4} \times 1 = .6$</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 _____

„ „ R.Q.D. _____

Deduction for complete superstructure _____

Percentage covered $\frac{S}{L} = 0$

„ „ $\frac{S_1}{L} =$ _____

„ „ $\frac{E}{L} =$ _____

Percentage from Table, Line A. (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 = **Nil**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	51.50	1	51.50	57	57.5	1	51.50
$\frac{1}{8}L$ from A.P.	22.92	4	91.68	25.5	22.92	4	91.68
$\frac{2}{8}L$ „	5.665	2	11.33	5.0	5.665	2	11.33
Amidships	-	4	-	-	-	4	-
$\frac{2}{8}L$ from F.P.	11.33	2	22.66	11.0	11.0	2	22.00
$\frac{1}{8}L$ „	45.84	4	183.36	42.5	42.5	4	170.00
F.P.	103.00	1	103.00	96	96	1	96.00
Total			463.53				442.51

Mean actual sheer aft = **> 1**

Mean standard sheer aft = **> 1**

Mean actual sheer forward = **< 1**

Mean standard sheer forward = **< 1**

Length of enclosed superstructure forward of amidships = _____

„ „ aft of „ = _____

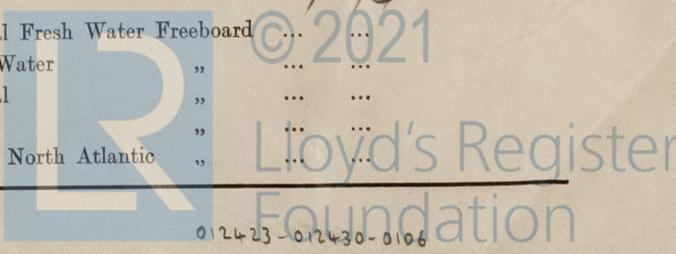
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{21.02}{18} \times .75 = +.88$

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 = 32.79 Ft.</p> <p>Summer freeboard = 7.94</p> <p>Moulded draught (d) = 24.85</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 <i>corrected for Flush Deck (if required)</i></p> <p>Correction for coefficient 1.40/1.36</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td>15.36</td></tr> <tr><td>Deduction for superstructures</td><td>.88</td></tr> <tr><td>Sheer correction</td><td>.60</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>Summer Freeboard</td><td>95.26</td></tr> </table> <p style="text-align: right;">76.20 78.42</p>	+	-	Depth Correction	15.36	Deduction for superstructures	.88	Sheer correction	.60	Round of Beam correction	-	Correction for Thickness of Deck amidships	-	Other corrections, scantlings, etc.	-	Summer Freeboard	95.26
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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.

Ships 37-3
37-9 46
35

41-0
32-9
8-3

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation