

For calculation purposes.

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Leonard of Bermuda</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>650</i> Breadth <i>76.5'</i> Depth <i>32.2</i>					Date of Survey <i>30.12.45</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables <i>70 say</i>					Particulars of Classification <i>100 A 1 m. class.</i>

DEPTH FOR FREEBOARD (D). Moulded depth <i>32.2</i> Stringer plate <i>03</i> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <i>32.23</i>	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <i>36.67-32.23 x 3 = 13.32</i> <i>444</i> If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$
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DEDUCTION FOR SUPERSTRUCTURES.						Standard Height of Superstructure <i>7.5</i>	
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	" " R.Q.D. <i>42</i>	
Poof enclosed							
" overhang							
R.Q.D. enclosed							
" overhang							
Bridge enclosed							
" overhang aft							
" overhang forward							
File enclosed							
" overhang							
Trunk aft							
" forward							
Tonnage opening aft							
" " forward							
Total							

Percentage covered $\frac{S}{L} =$
" $\frac{S_1}{L} =$
" $\frac{E}{L} =$
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 = <i>42</i>

SHEER CORRECTION.								<i>7-6</i> <i>7-6</i>	
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual sheer aft =	Mean standard sheer aft =
P.		1				1			
... ..		4				4			
... ..		2				2			
... ..		4				4			
... ..		2				2			
... ..		4				4			
... ..		1				1			

Difference between sums of products $\left(.75 - \frac{S}{2L} \right) =$ *0*
18
Amount of midship superstructure.

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L
" " aft of " =

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

Freeboard. and Winter North Atlantic Ft. board Deck = <i>32.23</i> rd = <i>5.23</i> draught (d) = <i>27.00</i> Freeboard and addition for d inches = h Atlantic Freeboard (if	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line T = Deduction = $\frac{\Delta}{40 T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <i>70 + 65</i> Depth Correction Deduction for superstructures Sheer correction Round of Beam correction Correction for Thickness of Deck amidships Other corrections, scantlings, etc. Summer Freeboard = <i>62.79</i>	<i>116.40</i> <i>118.11</i> <i>55.32</i>
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BOARD 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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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.

$$\begin{array}{r} 36.67 \\ 6.34 \\ \hline 30.33 \\ 27 \\ \hline 3.33 \times \frac{12}{9} = \frac{36.67}{4.44} \\ \hline 32.23 \end{array}$$

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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