

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Forecastle with Combined Bridge & R.Q.D.

Port of Survey

Date of Survey 18-4-32.

Name of Surveyor

Particulars of Classification 100 A.1

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
LEO	British Hull.	145059	1127	1908

Moulded Dimensions: Length 224.92 Breadth 35.25 Depth 17.06.
Moulded displacement at moulded draught = 85 per cent. of moulded depth
Coefficient of fineness for use with Tables 787. ✓

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Upper plate		Standard Round of Beam = $\frac{B \times 12}{50}$ =
Nothing on exposed deck	(b) Where D is less than Table depth (if allowed) ✓	Ship's Round of Beam =
$T \left(\frac{L-S}{L} \right) =$	(Table depth - D) R =	Difference
Depth for Freeboard (D) = 17.10 ✓	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ 7.02

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					
Deck enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure 28.49. ✓

Percentage covered $\frac{S}{L} =$ " " $\frac{S_1}{L} =$ " " $\frac{E}{L} = 84.62$ ✓

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 90.38 ✓

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = $28.49 \times 90.38 = - 25.75$ ✓

SHEER CORRECTION.

Position	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
... ..		1				1	
... ..		4				4	
... ..		2				2	
... ..		4				4	
F.P.		2				2	
... ..		4				4	
... ..		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 =
L

" " aft of " =

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

- 58 ✓

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Correction for Tropical Freeboard.

Correction for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 17.10 ✓
Summer freeboard = 5.58 ✓
Moulded draught (d) = 16.52 ✓

Correction for Tropical freeboard and addition for
for freeboard = $\frac{d}{4}$ inches = $4.13 = 4\frac{1}{4}$ ✓

Correction for Winter North Atlantic Freeboard (if
required) = $\frac{d}{3} = 5.51 = 5\frac{1}{2}$ ✓

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= $4\frac{1}{4}$ ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	3.63	-
Deduction for superstructures	-	25.75
Sheer correction	-	58
Round of Beam correction	0.02	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	3.65	26.33

Summer Freeboard = 7.02

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: -

TIMBER Tropical Fresh Water Line above Centre of Disc ... 11¼ ✓
" Fresh Water Line " " " 7" ✓
" Tropical Line " " " 7" ✓
" Winter Line below " " " 2¼ ✓
" Winter North Atlantic Line " " " 6" ✓

Tropical Fresh Water Freeboard ... 0' 7" ✓
Fresh Water " " " 0' 2¼" ✓
Tropical " " " 0' 2¼" ✓
Winter " " " 1' 0½" ✓
Winter North Atlantic " " " 1' 3¾" ✓