

TIMBER

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. _____
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

poop bridge foreccastle

Port of Survey GlasgowDate of Survey while building

Name of Surveyor _____

Particulars of Classification +100 A-1Contemplated

Ship's Name

Leah Lomond

(Type of Superstructures.)

British
Glasgow

Official Number

Gross Tonnage

Date of Build

1934

Moulded Dimensions: Length

Breadth

Depth

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

Coefficient of fineness for use with Tables

757

Depth for Freeboard (D)

Moulded depth

Upper plate

ing on exposed deck

 $\left(\frac{L-S}{L}\right) =$

Depth for Freeboard (D) =

30.62

Depth correction

(a) Where D is greater than Table depth
(D - Table depth) R =+9.45(b) Where D is less than Table depth (if allowed)
(Table depth - D) R =

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 = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) =$ -01

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
op enclosed ...					
overhang ...					
Q.D. enclosed ...					
overhang ...					
dge encloseded ...					
overhang aft ...					
overhang forward ...					
le enclosed ...					
overhang ...					
unk aft ...					
forward ...					
mage opening aft ...					
forward ...					
Total ...					

Standard Height of Superstructure

7.5

" " R.Q.D.

Deduction for complete superstructure

42Percentage covered $\frac{S}{L} =$ 55.26" " $\frac{S_1}{L} =$ 54.978" " $\frac{E}{L} =$ 54.97

Percentage from Table, Line A.

(corrected for absence of foreccastle (if required))

Percentage from Table, Line B.

(corrected for absence of foreccastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =

42 \times 72.36 = 30.39

SHEER CORRECTION.

ion	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
...		1				1	
A.P. ...		4				4	
...		2				2	
s ...		4				4	
F.P. ...		2				2	
...		4				4	
...		1				1	
tal ...							

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 = $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L}\right) =$ -2.85

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 = 30.62Summer freeboard = 4.65Moulded draught (d) = 25.97

Correction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.49 6½Correction for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} =$ 8.66 8¾

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ 13023

Tons per inch immersion at summer load water line

T = 46.5Deduction = $\frac{\Delta}{40T}$ inches= 7

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+	-
9.45	-
-	30.39
-	2.85
-	.01
-	-
9.45	33.25

75.2479.5081.8
30/8/34-23.80Summer Freeboard = 55.70

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

Tropical Fresh Water Line above Centre of Disc ... 26 3/4 26 3/4 Tropical Fresh Water Freeboard ... 3 - 6 1/4Fresh Water Line " " ... 20 1/4 20 1/4 Fresh Water " " ... 4 - 0 3/4Tropical Line " " ... 19 1/4 19 1/4 Tropical " " ... 4 - 1 1/4Winter Line " " ... 4 1/4 4 1/2 Winter " " ... 5 - 4 1/2Winter North Atlantic Line " " ... 6 1/4 6 1/4 Winter North Atlantic " " ... 6 - 3 1/4Summer 13 13 1/4