

11. Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

Index. No. (For London Office only.)

13213

Computation of Freeboard for Steamer, Sailing Ship, Tanker

ing

Port of Survey

Galatz

Date of Survey

5th 6th & 14th Aug 1935

Name of Surveyor

Jack Corbin

Particulars of Classification

+100% with fls.

Ship's Name

Lebanian

(Type of Superstructures.)

Nationality and Port of Registry

Bulgar

Official Number

105198

Gross Tonnage

2728

Date of Build

1898-7

Moulded dimensions: Length 320.0 Breadth 43.8 Depth 24.25

Moulded displacement at moulded draught = 85 per cent. of moulded depth 6416 tons

Coefficient of fineness for use with Tables 777

Depth for Freeboard (D)

Moulded depth

Stringer plate

Sheathing on exposed deck

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

Depth for Freeboard (D) = 24.30

Depth correction

(a) Where D is greater than Table depth (D-Table depth) R = +7.31

(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 = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = -0.07$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	29.00		5.0		
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	71.33		7.16		
" overhang aft					
" overhang forward					
F'cle enclosed	33.00		7.50		
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure 6.70

" " R.Q.D. ✓

Deduction for complete superstructure 36.67

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

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} = 39.36$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. Timber 62.31

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = $36.67 \times 62.31 = -22.85$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{4}$ L from A.P.		4				4	
$\frac{2}{4}$ L "		2				2	
Amidships		4				4	
$\frac{2}{4}$ L from F.P.		2				2	
$\frac{1}{4}$ L "		4				4	
F.P.		1				1	
Total							

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

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 24.30

Summer freeboard = 3.00

Moulded draught (d) = 21.30

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = $5.32 = 5\frac{1}{4}$

Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 7.10 = 7'$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 6734$

Tons per inch immersion at summer load water line

$T = 28.7$

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

= $5.87 = 5\frac{3}{4}$

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.

+	-
7.31	-
-	22.85
-	0.21
-	0.07
-	-
-	-
7.31	23.13

Summer Freeboard = 36.03

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

Timber	Tropical Fresh Water Line above Centre of Disc	23 1/2
"	Fresh Water Line	18 1/4
"	Tropical Line	17 3/4
"	Winter Line	5 1/2
"	Winter North Atlantic Line	5 1/2
Summer	above	12 1/2

Timber	Tropical Fresh Water Freeboard	2'-1"
"	Fresh Water	2'-6 1/4"
"	Tropical	2'-6 3/4"
"	Winter	3'-7"
"	Winter North Atlantic	4'-6"

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