

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

14. CLO

SU

Forecas

Bridge, fo

Bridge, afte

Poop

Number

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Port of Survey

Date of Survey

Name of Surveyor

Particulars of Classification

Moulded Dimensions: Length 239.80 Breadth 36.00 Depth 15.67
 Moulded displacement at moulded draught = 85 per cent. of moulded depth
 Coefficient of fineness for use with Tables

Depth for Freeboard (D)

Moulded depth ... 15.67
 Stringer plate ... 0.03
 Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$
 Depth for Freeboard (D) = 15.70

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 = (15.99 - 15.70) = 0.29

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B) 36.00
 Standard Round of Beam = $\frac{B \times 12}{50} = 8.64$
 Ship's Round of Beam = 9.00
 Difference = 0.36
 Restricted to
 Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{0.36}{4} \times 0.989 = 0.089$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	142.13	142.13	6.83		
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
Fore enclosed ...	91.92	91.92	6.83		
" overhang ...	1.75	1.31			
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	4.00	2.92	6.83		
" forward ...					
Total ...	239.80	237.46			

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} = 100\%$ " $\frac{S_1}{L} = 99.45\%$ " $\frac{E}{L} = 99.45\%$

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 = $29.98 \times 98.91\% = -29.64$

SHEER CORRECTION

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
from A.P. ...	33.98	1			33.00	43.00	1		43.00
" " ...		4			12.84	19.13	4		76.52
" " ...		2			3.21	4.73	2		9.46
amidships ...		4					4		
" from F.P. ...		2			7.35	8.36	2		16.72
" " ...		4			29.42	33.82	4		135.28
" " ...	67.96	1			66.00	76.00	1		76.00
Total ...				305.80					356.98

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{51.18}{18} \times 0.25 = -0.71$

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 15.70
 Summer freeboard = 1.17
 Moulded draught (d) = 15.53

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

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

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. ...

Summer Freeboard =

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

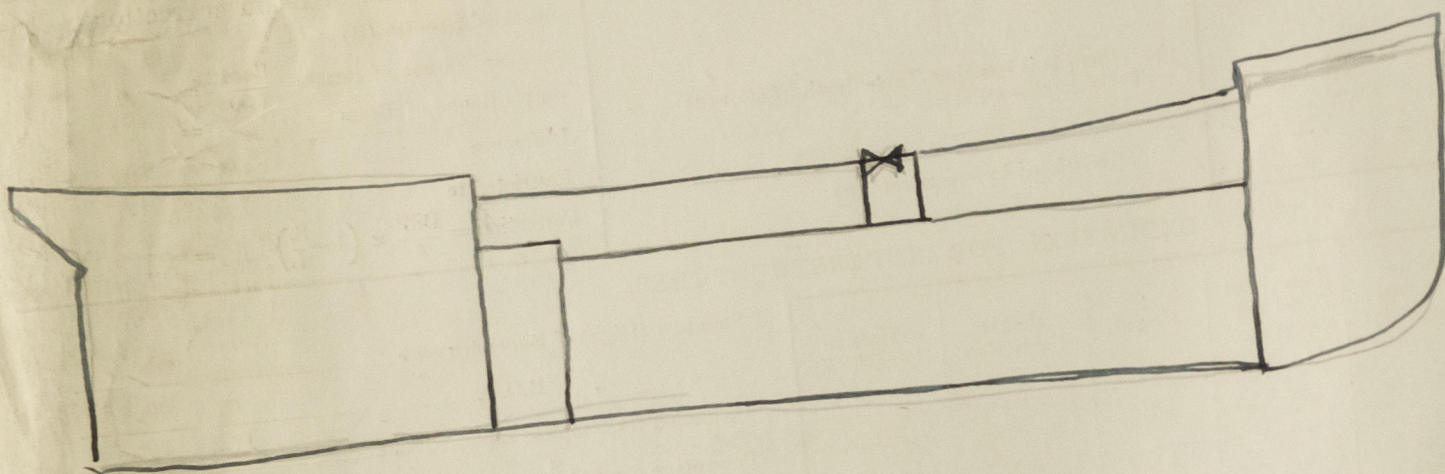
Tropical Fresh Water
 Fresh Water Line
 Tropical Line
 Winter Line
 Winter North Atlantic

Tropical Fresh Water Freeboard ...
 Fresh Water ...
 Tropical ...
 Winter ...
 Winter North Atlantic ...

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