

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. _____
(For London Office only.)

0900-1801M

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Leaving _____
at _____

Port of Survey _____

(Type of Superstructures.) _____

Date of Survey _____

Name of Surveyor _____

Particulars of Classification _____

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
Lautaro				

Moulded Dimensions: Length 399.1' Breadth 52 Depth 29.67'

Moulded displacement at moulded draught = 85 per cent. of moulded depth 11,602 tons

Coefficient of fineness for use with Tables 776

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... 29.67	(a) Where D is greater than Table depth (D - Table depth) R = (29.71 - 26.61) 3 = + 9.3	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam =
Stringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Difference
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Restricted to
Depth for Freeboard (D) = 29.71		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ Rule

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					
Fore enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...					

Standard Height of Superstructure 7.491'

" " R.Q.D. ✓

Deduction for complete superstructure 41.94'

Percentage covered $\frac{S}{L} = 100\%$

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

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

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 = - 41.94"

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	49.91	1		49.91	56.02	1	
$\frac{1}{8}L$ from A.P. ...		4				4	
$\frac{2}{8}L$ " ...		2				2	
Amidships ...		4				4	168.06
$\frac{2}{8}L$ from F.P. ...		2				2	
$\frac{1}{8}L$ " ...		4				4	
F.P. ...	99.82	1		99.82	105.93	1	317.79
Total ...			449.19				485.85

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

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

Sheers inc. by excess between
dk hgt. actual 8.000'
stand. 7.491'
" 509 = 6"

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$
 $\frac{36.66}{18} \times .25 = -.51"$

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Depth to Freeboard Deck = _____ Ft.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.776 + .68}{1.36} = \frac{1.456}{1.36}$
Summer freeboard = _____	$\Delta =$	Depth Correction ... 9.30 ✓
Moulded draught (d) = _____	Tons per inch immersion at summer load water line	Deduction for superstructures ... 41.94 ✓
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____	T = _____	Sheer correction51 ✓
Addition for Winter North Atlantic Freeboard (if required) = _____	Deduction = $\frac{\Delta}{40T}$ inches = _____	Round of Beam correction ... ✓
		Correction for Thickness of Deck amidships ... ✓
		Other corrections, scantlings, etc. ... ✓
		9.30 42.45 - 33.15
		Summer Freeboard = 43.09

SUMMER FREEBOARD 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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28'-6"

A
13,230

TP1
42.8

8 1/2 med

25' - 2 1/2"
2 1/4"
25' - 5 1/4"

28'-6"
25'-5 1/4"
3'-0 3/4"

$$36 \frac{3}{4} \times 42.8 = \begin{array}{r} 13230 \\ 1570 \\ \hline 11660 \\ 58 \\ \hline 11602 \end{array}$$



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