

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having _____

Port of Survey _____

(Type of Superstructures.)

Date of Survey 29 / 6 / 31

Name of Surveyor _____

Particulars of Classification 100% with pr
contingent

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

Shell Laird
100 1023 4 24

Moulded dimensions: Length 486 Breadth 62.0 Depth 35.0
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons
Coefficient of fineness for use with Tables .706 given

Depth for Freeboard (D)	
Moulded depth	...
Stringer plate	...
Sheathing on exposed deck	...
$T \left(\frac{L+S}{L} \right) =$	
Depth for Freeboard (D) =	<u>35.04</u>

Depth correction	
(a) Where D is greater than Table depth (D - Table depth) R =	<u>+7.92"</u>
(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	<u>Assumed Standard</u>
Difference	
Restricted to	
Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$	<u>0.62</u>

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 ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...					

Standard Height of Superstructure	<u>7.5</u>
" " R.Q.D.	
Deduction for complete superstructure	<u>42</u>
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	<u>71.83%</u>
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	<u>65.24</u>
(corrected for absence of forecastle (if required))	<u>65.24</u>
Percentage from Table, Line B.	
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction = $42.00 \times \frac{65.24}{100} =$	<u>27.40</u>

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...		1				1	
$\frac{1}{6}L$ from A.P. ...		4				4	
$\frac{2}{6}L$ " ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}L$ from F.P. ...		2				2	
$\frac{1}{6}L$ " ...		4				4	
F.P. ...		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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ Nil.

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 = 35.04 Ft.
Summer freeboard = 6.71
Moulded draught (d) = 28.33

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	<u>7.92</u>	
Deduction for superstructures		<u>27.40</u>
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Free	<u>7.92</u>	<u>27.40</u>

98.10

99.98

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line. 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	"

