

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____
having <u>CSS with Tonnage opening</u> <u>(Proposed No 2)</u> (Type of Superstructures.)					Date of Survey _____
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Name of Surveyor _____
Moulded Dimensions: Length <u>436.92</u> Breadth <u>59.25</u> Depth <u>31.00</u> Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>13631</u> tons Coefficient of fineness for use with Tables <u>1.00</u>					Particulars of Classification _____

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth 31.00	(a) Where D is greater than Table depth (D - Table depth) R = $(31.04 - 29.12) 3.00$ = + 5.76"	Moulded Breadth (B) <u>31.00</u> Standard Round of Beam = $\frac{B \times 12}{50} = 7.44"$ Ship's Round of Beam = <u>1.00"</u> Difference <u>6.44" deficient</u>
Stringer plate 0.04	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Restricted to
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ <u>✓</u>	If restricted by superstructures	Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{6.44^2}{4} \times 0.079 = + 0.01"$
Depth for Freeboard (D) = <u>31.04</u>		

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	18.00	18.00			18.00
" overhang	2.71	1.35			1.35
R.Q.D. enclosed					
" overhang					
Bridge enclosed	410.86	410.86			410.86
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft	5.35	3.35			3.35
" " forward					
Total	436.92	433.56			433.56

Standard Height of Superstructure 7'-6"
 " " R.Q.D. ✓
 Deduction for complete superstructure 42.00"
 Percentage covered $\frac{S}{L} = 100\%$
 " " $\frac{S_1}{L} = 99.22\%$
 " " $\frac{E}{L} = 99.22\%$
 Percentage from Table, Line A.
 (corrected for absence of forecastle (if required)) 99.04%
 Percentage from Table, Line B.
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than 2L (if required)
 Deduction = 42.00 x .9904 = - 41.60

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	53.69	1		54.00	54.00	1	54.00
$\frac{1}{6}$ L from A.P.		4		28.75	28.75	4	115.00
$\frac{2}{6}$ L "		2		3.12	3.12	2	6.24
Amidships		4		✓	✓	4	✓
$\frac{2}{6}$ L from F.P.		2		24.38	24.38	2	48.76
$\frac{1}{6}$ L "		4		72.00	72.00	4	288.00
F.P.	107.38	1		119.50	119.50	1	119.50
Total			483.21				631.50

Mean actual sheer aft = Excess
 Mean standard sheer aft =

Mean actual sheer forward = Excess
 Mean standard sheer forward =

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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{148.29}{18} \times .25 = - 2.06$

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.

Ft.

Depth to Freeboard Deck = _____

Summer freeboard = _____

Moulded draught (d) = _____

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

=

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction 5.76
 Deduction for superstructures - 41.60
 Sheer correction - 2.06
 Round of Beam correction01
 Correction for Thickness of Deck amidships -
 Other corrections, scantlings, etc. -

+	-
5.76	
-	41.60
-	2.06
.01	
-	
-	
5.77	43.66

Summer Freeboard = 46.38

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

Tropical Fresh Water Line above Centre of Disc
 Fresh Water Line " "
 Tropical Line " "
 Winter Line below " "
 Winter North Atlantic Line " "

Tropical Fresh Water Freeboard
 Fresh Water " "
 Tropical " "
 Winter " "
 Winter North Atlantic " "

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