

W387-0141

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

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

Rpt. C.152

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having C.S.S with Tonnage opening

(Type of Superstructures.)

Ship's Name BERMAINE L.D. Nationality and Port of Registry _____ Official Number _____ Gross Tonnage _____ Date of Build _____

Port of Survey _____

Date of Survey 25-11-32.

Name of Surveyor _____

Particulars of Classification 400A.1
Shellin deck with Fbd.

Moulded Dimensions: Length 374.33 Breadth 51 Depth 26.12

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

Coefficient of fineness for use with Tables .76 assumed. tons

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	26.12	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	51
Stringer plate	.04	(26.16 - 24.96) 2.88 = + 3.46		Standard Round of Beam = $\frac{B \times 12}{50}$	12.24
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	12.50
$T \left(\frac{L-S}{L} \right) =$	✓			Difference	.26
Depth for Freeboard (D) =	26.16	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right)$	= $\frac{.26}{4} (1 - \frac{99.46}{100})$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Coered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
Overhang					
R.Q. enclosed					
Bridge					
Forecastle	370.33	370.33	8.0	✓	370.33
Trunk aft					
Tonnage opening aft	4.00	2.00			2.00
Total	374.33	372.33			372.33

Standard Height of Superstructure 7.243

" " R.Q.D. _____

Deduction for complete superstructure 40.29

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

" " $\frac{S_1}{L} = 99.46$

" " $\frac{E}{L} = 99.46$

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 99.33
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) C.S.S.

Deduction = 40.29 × .9933 = -40.02

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
L from A.P.	47.4	1			79.08	53.08	1		53.08
L		2				23.62	4		94.48
F.P.		4				5.84	2		11.68
"		2				11.50	4		23.12
"		4				46.76	1		187.04
"	94.86	1			96.00	105.09	1		105.08
Total				446.87	79.08				474.48

Mean actual sheer aft = Excess

Mean standard sheer aft = Excess

Mean actual sheer forward = Excess

Mean standard sheer forward = Excess

Length of enclosed superstructure forward of amidships = _____

" " aft of " = C.S.S.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) = \frac{47.61}{18} (75 - .50) = - .66$

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 = _____ Ft.

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

TABULAR FREEBOARD corrected for Plus/Minus (if required)

Correction for coefficient 76.00 1.44

	+	-
Depth Correction	3.46	
Deduction for superstructures		40.02
Sheer correction		.66
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard	3.46	40.68

Summer Freeboard = 24.64

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

	Freeboard
Tropical Fresh Water Line above Centre of Disc	_____
Fresh Water Line	_____
Line	_____
below	_____
Line	_____

Tropical Fresh Water Freeboard _____

Fresh Water _____

Tropical _____

Winter _____

Winter North Atlantic _____