

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 19/4/32

Name of Surveyor

Particulars of Classification

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
Brunswickland	Shelton	Estimate N 2232		

Moulded Dimensions: Length 235.5 Breadth 37.83 Depth 18.5

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

Coefficient of fineness for use with Tables Assume .78

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... 18.52	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B)
Tringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Heating on exposed deck		Ship's Round of Beam =
$T \left(\frac{L-S}{L} \right) =$		Difference
Depth for Freeboard (D) = 18.54	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L_1} \right) =$

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

„ „ R.Q.D.

Deduction for complete superstructure

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

„ „ $\frac{S_1}{L} =$

„ „ $\frac{E}{L} =$ 31.91

Percentage from Table, Line A. 16.62

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 20.62

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 29.55 x .1662 - 4.91

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	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 =

„ „ aft of „ =

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

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = Ft.	Δ =	Depth Correction ... 5.14
Summer freeboard =	Tons per inch immersion at summer load water line	Deduction for superstructures ... 4.91
Moulded draught (d) =	T =	Sheer correction ...
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	Deduction = $\frac{\Delta}{40T}$ inches =	Round of Beam correction03
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships ... 48.00
		Other corrections, scantlings, etc. ...
		Summer Freeboard = 79.92

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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