TIMBER

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

way, cargo and

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

PBF.

having_____

(Type of Superstructures.)

Port of Survey_____

Date of ~~Survey~~ 30-12-31

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

Name of Surveyor_____

Moulded Dimensions: Length _____ Breadth _____ Depth _____

Particulars of Classification_____

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

Coefficient of fineness for use with Tables _____

Depth for Freeboard (D)

Moulded depth   ...   .

Stringer plate   ...   .

Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) =

Depth correction

(a) Where D is greater than Table depth
(D − Table depth) R =

(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 = $\dfrac{B \times 12}{50}$ =

Ship's Round of Beam =

Difference

Restricted to

Correction = $\dfrac{\text{Diff}}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ =

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	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 $\dfrac{S}{L}$ =

„   „ $\dfrac{S_1}{L}$ =

„   „ $\dfrac{E}{L}$ = 48.55

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

Percentage from Table, Line B. TIMBER 68.34
(corrected for absence of forecastle (if required))

Interpolation for bridge less than ·2L (if required)

Deduction = 36.48 × ·6834 = — 24.93

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 ...							

$\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

„   „   aft of   „   =

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

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 23.33 Ft.

Summer freeboard = 2.67

Moulded draught (d) = 20.66

~~Deduction for Tropical freeboard and~~ addition for

Winter freeboard = $\dfrac{d}{34}$ inches = 6.89

Addition for Winter North Atlantic Freeboard (if required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
Δ =

Tons per inch immersion at summer load water line
T =

Deduction = $\dfrac{\Delta}{40\,T}$ inches

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient   53.13

	+	−
Depth Correction	5.34	-
Deduction for superstructures		24.93
Sheer correction		1.39
Round of Beam correction...		·11
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc. ...		
	5.34	26.43 — 21.09

Summer Freeboard = 32.04

TIMBER SUMMER ~~FREE~~BOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck :—   2'-8"

Tropical Fresh Water Line above Centre of Disc		Tropical Fresh Water Freeboard ...	
Fresh Water Line „ „		Fresh Water	
Tropical Line „ „		Tropical 3'-3"	
Winter Line below „	Timber Winter		
Winter North Atlantic Line „ „		Winter North Atlantic ...	5'-

Deckhouse