

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker
 having P. B. F.

Port of Survey _____

Date of Survey 30-12-31

Name of Surveyor _____

Particulars of Classification 100 A1

(Type of Superstructures.)

Ship's Name VIRGINIA Nationality and Port of Registry Trinidad Official Number _____ Gross Tonnage _____ Date of Build 1907

Moulded Dimensions: Length 317.16 Breadth 46.29 Depth 23.29 ✓

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

Coefficient of fineness for use with Tables 835 assumed tons

Depth for Freeboard (D)

Moulded depth 23.29

Stringer plate04

Sheathing on exposed deck

$T \left(\frac{L-S}{L} \right) =$ _____

Depth for Freeboard (D) = 23.33

Depth correction

(a) Where D is greater than Table depth
 $(D - \text{Table depth}) R =$ $(23.33 - 21.14) 2.44 = +5.34$ ✓

(b) Where D is less than Table depth (if allowed)
 $(\text{Table depth} - D) R =$ _____

If restricted by superstructures _____

Round of Beam correction

Moulded Breadth (B) 46.29

Standard Round of Beam = $\frac{B \times 12}{50} =$ 11.11 ✓

Ship's Round of Beam = 12.00 ✓

Difference .89 ✓

Restricted to _____

Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.89^2}{4} \times .5745 = -.11$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>30.0</u> ✓	<u>30.0</u>	<u>7' 11 1/2"</u>	-	<u>30.0</u> ✓
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed... ..	<u>94.0</u> ✓	<u>94.0</u>	<u>7' 11 1/2"</u>	-	<u>94.0</u> ✓
" overhang aft					
" overhang forward					
Forecastle enclosed	<u>30.0</u> ✓	<u>30.0</u>	<u>7' 0"</u>	-	<u>30.0</u> ✓
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	<u>154.0</u> ✓	<u>154.0</u>			<u>154.0</u> ✓

Standard Height of Superstructure 6.67 ✓

" " R.Q.D. _____

Deduction for complete superstructure 36.48 ✓

Percentage covered $\frac{S}{L} =$ 48.55 ✓

" " $\frac{S_1}{L} =$ 48.55 ✓

" " $\frac{E}{L} =$ 48.55 ✓

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

Percentage from Table, Line B. 34.76 ✓
 (corrected for absence of forecastle (if required))

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

Deduction = 36.48 × .3476 = -12.68 ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>41.72</u> ✓	1			<u>42</u> ✓	<u>42</u>	1		<u>42.00</u> ✓
1/4 L from A.P.	<u>18.56</u>	4			<u>18.17</u> ✓	<u>18.17</u>	4		<u>72.68</u> ✓
1/2 L "	<u>4.59</u>	2			<u>4.54</u> ✓	<u>4.54</u>	2		<u>9.08</u> ✓
Amidships	-	4			-	-	4		-
3/4 L from F.P.		2			<u>11.06</u> ✓	<u>11.06</u>	2		<u>22.12</u> ✓
1/4 L "	<u>37.1</u>	4			<u>44.25</u> ✓	<u>44.25</u>	4		<u>177.00</u> ✓
F.P.	<u>83.43</u>	1			<u>102</u> ✓	<u>102</u>	1		<u>102.00</u> ✓
Total				<u>375.48</u>					<u>424.88</u>

Mean actual sheer aft = Defective (> 75%) ✓

Mean standard sheer aft = _____

Mean actual sheer forward = Less ✓

Mean standard sheer forward = _____

Length of enclosed superstructure forward of amidships = .15 ✓

" " aft of " = .15 ✓

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ $\frac{49.4}{18} (.75 - .2427) = -1.39$ ✓

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 = 23.33 ✓

Summer freeboard = 3.69 ✓

Moulded draught (d) = 19.64 ✓

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4.91 ✓

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	<u>5.34</u> ✓	-
Deduction for superstructures	-	<u>12.68</u> ✓
Sheer correction	-	<u>1.39</u> ✓
Round of Beam correction	-	<u>.11</u> ✓
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	<u>5.34</u>	<u>14.18</u>

Summer Freeboard = 44.29 ✓

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 " "	

© 2020

Lloyd's Register Foundation

002305-002319-0139