

Timber Deck Cargo.

007474-007485-0019

Rpt. C.11.

Index. No. **25668**
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker				
having <u>Poop, Bridge and Forecastle</u>				
(Type of Superstructures.)				
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<u>Cape Verde</u>				
Moulded Dimensions: Length <u>404.3</u> Breadth <u>52.75</u> Depth <u>30.0</u>				
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons				
Coefficient of fineness for use with Tables _____				
Port of Survey _____				
Date of Survey <u>23.3.32.</u>				
Name of Surveyor _____				
Particulars of Classification <u>+100 A1.</u>				

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	<u>30.00</u>	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	
Stringer plate	<u>.05</u>		<u>+ 9.30</u>	Standard Round of Beam = $\frac{B \times 12}{50}$ =	
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam =	
Depth for Freeboard (D) =	<u>30.05</u>	If restricted by superstructures		Difference	
				Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right)$ =	<u>- .04</u>

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	<u>7.50</u>
" " R.Q.D.	<u>✓</u>
Deduction for complete superstructure	<u>42.00</u>
Percentage covered $\frac{S}{L} =$	<u>52.17%</u>
" " $\frac{S_1}{L} =$	<u>51.91%</u>
" " $\frac{E}{L} =$	<u>51.91%</u>
Percentage from Table, Line A. <u>Timber</u>	<u>70.44%</u>
(corrected for absence of forecastle (if required))	
Percentage from Table, Line B.	
(corrected for absence of forecastle (if required))	<u>✓</u>
Interpolation for bridge less than 2L (if required)	
Deduction =	<u>42.00 × .7044 = -29.59.</u>

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
L from A.P.		4					4		
L "		2					2		
Amidships		4					4		
L from F.P.		2					2		
L "		4					4		
F.P.		1					1		
Total									

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 " = ✓

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ - 3.44"
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 <u>corrected for Flush Deck (if required)</u>	<u>72.83</u>
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	<u>78.18</u>
Depth to Freeboard Deck = <u>30.05</u>	$\Delta =$ <u>12250</u>	Depth Correction	<u>9.30</u>
Summer freeboard = <u>4.54</u>	Tons per inch immersion at summer load water line	Deduction for superstructures	<u>- 29.59</u>
Moulded draught (d) = <u>25.51</u>	T = <u>42</u>	Sheer correction	<u>- 3.44</u>
Timber Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.38 = 6½"</u>	Deduction = $\frac{\Delta}{40 T}$ inches = <u>7.29 = 7¼"</u>	Round of Beam correction	<u>- .04</u>
Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} =$ <u>8.50"</u>		Correction for Thickness of Deck amidships	<u>-</u>
		Other corrections, scantlings, etc.	<u>-</u>
			<u>9.30 33.07 -23.77</u>
			Summer Freeboard = <u>54.41"</u>

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—				
Timber	Tropical Fresh Water Line above Centre of Disc	<u>26½"</u>	Timber Tropical Fresh Water Freeboard	<u>3'-4¼"</u>
"	Fresh Water Line " "	<u>20"</u>	" Fresh Water " "	<u>3'-11½"</u>
"	Tropical Line " "	<u>19¼"</u>	" Tropical " "	<u>4'-0"</u>
"	Winter Line <u>below</u> above, " "	<u>4¼"</u>	" Winter " "	<u>5'-3"</u>
"	Winter North Atlantic Line " below, " "	<u>6¾"</u>	" Winter North Atlantic " "	<u>6'-2"</u>