

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.Computation of Freeboard for Steamer, Sailing Ship, Tanker  
having Pop. Raised Quarter Deck, Bridge & Forecastle.

Port of Survey

Date of Survey 8.7.35

Name of Surveyor

Particulars of Classification +100M

(Type of Superstructures.)

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

CIMBRIA.

Moulded Dimensions: Length 300 Breadth 45.75 Depth 20.25displacement at moulded draught = 85 per cent. of moulded depth 4954 tonsof fineness for use with Tables .734

Depth for Freeboard (D)

th ... .. 20.25e ... .. .04

exposed deck

S) =

Depth for Freeboard (D) = 20.29

Depth correction

(a) Where D is greater than Table depth  
(D-Table depth) R =+ 0.67(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 =  $\frac{B \times 12}{50} =$ 

Ship's Round of Beam =

Difference

Restricted to

Correction =  $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right) = - .04$ 

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
closed ...	<u>18.67</u>				
erhang ...					
enclosed ...	<u>106.00</u>				
overhang ...					
nclosed ...	<u>52.00</u>				
overhang aft ...					
overhang forward ...					
closed ...	<u>23.33</u>				
erhang ...					
ft ...					
orward ...					
e opening aft ...					
" forward					
Total ...					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure 35.33Percentage covered  $\frac{S}{L} = 66.67$ " "  $\frac{S_1}{L} = 66.67$ " "  $\frac{E}{L} = 66.67$ 

Percentage from Table, Line A. ✓

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. Timber 79.50

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 35.33 x .7950 = - 28.09

## SHEER CORRECTION.

	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
...		1				1	
...		4				4	
...		2				2	
...		4				4	
...		2				2	
...		4				4	
...		1				1	
...							

Mean actual sheer aft =  
Mean standard sheer aft =Mean actual sheer forward =  
Mean standard sheer forward =Length of enclosed superstructure forward of amidships =  
L

" " aft of " =

on =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - \frac{S}{2L}}{2L} \right) =$   
ed on account of midship superstructure. .24 x  $\frac{.189}{.20} = - .23$ 

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

for Tropical Freeboard.  
for Winter and Winter North Freeboard.th to Freeboard Deck = 20.29mmer freeboard = 1.46Moulded draught (d) = 18.83

or Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 4.71 = 120Addition for Winter North Atlantic Freeboard (if required) =  $\frac{2}{3}$  inches = 6.28 = 160

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 =  $\frac{\Delta}{40T}$  inches  
= 124 mms.

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ... .. .67Deduction for superstructures ... .. 28.09Sheer correction ... .. .24Round of Beam correction ... .. .04

Correction for Thickness of Deck amidships ... ..

Other corrections, scantlings, etc. ... ..

43.4045.13

+

-

.6728.09.24.040.6728.3X- 24.40Summer Freeboard = 17.484SUMMER FREEBOARD amidships ~~from Centre of Disc~~ to top of Deck Line, ~~Wood~~, Steel, Deck:—

Timber Tropical Fresh Water Line above Centre of Disc ...	<u>455</u>
Fresh Water Line " " ...	<u>335</u>
Tropical Line " " ...	<u>331</u>
Winter Line <del>below</del> above " " ...	<u>51</u>
Winter North Atlantic Line <del>below</del> " " ...	<u>152</u>

Timber Summer above " 211

Tropical Fresh Water Freeboard ...	<u>443</u>
Fresh Water " " ...	<u>319</u>
Tropical " " ...	<u>323</u>
Winter " " ...	<u>603</u>
Winter North Atlantic " " ...	<u>806</u>

RECEIVED 15 JUL 1935

002790-002797-0232