

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Camberra</i>	Official Number	Nationality and Port of Registry <i>Panamanian Panama</i>	Gross Tonnage <i>7710</i>	Date of Build <i>1913 3</i>	Port of Survey
Moulded Dimensions: Length <i>410.00'</i> Breadth <i>57.00'</i> Depth <i>41.58'</i>					Date of Survey <i>1.7.49.</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <i>17130</i> tons					Surveyor's Signature
Coefficient of fineness for use with Tables <i>.726</i>					Particulars of Classification <i>+100 A1. Sheets St. with Rod.</i>

DEPTH FOR FREEBOARD (D).

Moulded depth ... *41.58*

Stringer plate ... *.04*

Sheathing on exposed deck

$T \left(\frac{L-S}{L} \right) =$ *.25*

Depth for Freeboard (D) = *41.87*

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D-Table depth) R = *(41.87-27.33) 3 = +43.62"*

(b) Where D is less than Table depth (if allowed)
(Table depth-D) R = *14.54*

If restricted by superstructures ☒

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) *57.00*

Standard Round of Beam = $\frac{B \times 12}{50} =$ *13.68*

Ship's Round of Beam = *12.00*

Difference = *-1.68*

Restricted to

Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ *\frac{1.68}{4} = +.42"*

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 ...					
Fore enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$ *NIL.*

" " $\frac{S_1}{L} =$ *NIL.*

" " $\frac{E}{L} =$ *NIL.*

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

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

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

Deduction = *NIL.*

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	<i>51.00</i>	1	<i>51.00</i>	<i>24.25</i>	<i>24.25</i>	1	<i>24.25</i>
$\frac{1}{2}$ L from A.P. ...	<i>22.695</i>	4	<i>90.78</i>	<i>11.25</i>	<i>11.25</i>	4	<i>45.00</i>
$\frac{1}{4}$ L " ...	<i>5.61</i>	2	<i>11.22</i>	<i>2.75</i>	<i>2.75</i>	2	<i>5.50</i>
Amidships ...	<i>-</i>	4	<i>-</i>	<i>-</i>	<i>-</i>	4	<i>-</i>
$\frac{1}{4}$ L from F.P. ...	<i>11.22</i>	2	<i>22.44</i>	<i>9.00</i>	<i>9.00</i>	2	<i>18.00</i>
$\frac{1}{2}$ L " ...	<i>45.39</i>	4	<i>181.56</i>	<i>35.50</i>	<i>35.50</i>	4	<i>142.00</i>
F.P. ...	<i>102.00</i>	1	<i>102.00</i>	<i>84.50</i>	<i>84.50</i>	1	<i>84.50</i>
Total ...			<i>459.00</i>				<i>319.25</i>

Mean actual sheer aft = *Deficient.*

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = *Flush Deck.*

" " aft of " = *Flush Deck.*

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *\frac{139.75}{18} \times .75 = +5.82*

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = *41.87*

Summer freeboard = *19.87*

Moulded draught (d) = *22.00*

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = *5.50*

Addition for Winter North Atlantic Freeboard (if required) = *not assigned*

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

d/4 = 5.50"
= 5.50"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{726 + 68}{1.36} = \frac{1.406}{1.36}$

Depth Correction ... *43.62*

Deduction for superstructures ... *5.82*

Sheer correction ... *.42*

Round of Beam correction ... *.42*

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ... *105.16*

to a summer moulded draught of 22'-0"

Summer Freeboard = *238.50*

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 " "