

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.Index. No. _____
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having *Forecastle and Raised Quarter Deck*

Port of Survey _____

(Type of Superstructures.)

Date of Survey *31-8-31*

Ship's Name

*MANAPLA*Nationality and Port of Registry
*MANILA,
AMERICAN*

Official Number

Gross Tonnage

Date of Build

*250
APPROX.**1931*

Name of Surveyor _____

Moulded Dimensions: Length *125.0* Breadth *24.0* Depth *8.0*

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

Coefficient of fineness for use with Tables _____

Particulars of Classification *+100A.1.*

Depth for Freeboard (D)

Moulded depth *8.00*Stringer plate *.02*Sheathing on exposed deck *✓*

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

Depth for Freeboard (D) = *8.02*

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 =*NIL*If restricted by superstructures
D = 8.02

Round of Beam correction

Moulded Breadth (B) *24*

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} = \frac{24 \times 12}{50} = 5.76$$

$$\text{Ship's Round of Beam} = 6.00$$

$$\text{Difference} = .24$$

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.24}{4} \times .06 = -.03$$

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	<i>49.00</i>	<i>49.00</i>	<i>2.0</i>	<i>2.0</i>	<i>30.95</i>
„ overhang					
Bridge enclosed					
„ overhang aft					
„ overhang forward					
F'cle enclosed	<i>14.00</i>	<i>14.00</i>	<i>4.0</i>	<i>4.0</i>	<i>9.33</i>
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	<i>63.00</i>	<i>63.00</i>			<i>40.28</i>

Standard Height of Superstructure *6.00*„ „ R.Q.D. *3.167*Deduction for complete superstructure *18.5*

$$\text{Percentage covered } \frac{S}{L} = \frac{63.00}{125.0} = 50.40\%$$

$$\frac{S_1}{L} = \frac{63.00}{125.0} = 50.40\%$$

$$\frac{E}{L} = \frac{40.28}{125.0} = 32.23\%$$

Percentage from Table, Line A. *16.89%*
(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)

$$\text{Deduction} = 18.5 \times .1689 = -3.12$$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	<i>22.50</i>	1	<i>22.50</i>	<i>16.00</i>	<i>16.00</i>	1	<i>16.00</i>
$\frac{1}{4}$ L from A.P.	<i>10.01</i>	4	<i>40.04</i>	<i>6.91</i>	<i>6.91</i>	4	<i>27.64</i>
$\frac{2}{4}$ L „	<i>2.48</i>	2	<i>4.96</i>	<i>1.73</i>	<i>1.73</i>	2	<i>3.46</i>
Amidships	<i>-</i>	4	<i>-</i>	<i>-</i>	<i>-</i>	4	<i>-</i>
$\frac{2}{4}$ L from F.P.	<i>4.96</i>	2	<i>9.92</i>	<i>3.36</i>	<i>3.36</i>	2	<i>6.72</i>
$\frac{1}{4}$ L „	<i>20.02</i>	4	<i>80.08</i>	<i>13.43</i>	<i>13.43</i>	4	<i>53.72</i>
F.P.	<i>45.00</i>	1	<i>45.00</i>	<i>30.00</i>	<i>30.00</i>	1	<i>30.00</i>
Total			<i>202.50</i>				<i>137.54</i>

Mean actual sheer aft = *defective*
Mean standard sheer aftMean actual sheer forward = *defective*
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = *NIL*„ „ aft of „ = *NIL*

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{64.96}{18} \times .498 = +1.80$$

If limited on account of midship superstructure. *yes, but sheer defective*. 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 = Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

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

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 =

$$\text{Deduction} = \frac{\Delta}{40 T} \text{ inches}$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+

-

-

3.12

1.80

-

.03

1.00

✓

✓

2.80

3.15

-

.35

Summer Freeboard =

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 „ „