

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>Wood Car and Passenger Ferry MANECO.</b>	Official Number <b>157095</b>	Nationality and Port of Registry <b>British St John's N.F.L.</b>	Gross Tonnage <b>248</b>	Date of Build <b>1931/6</b>	Port of Survey <b>St John's N.F.L.</b>
Moulded Dimensions: Length <b>116.21</b> Breadth <b>25'-0"</b> Depth <b>13'-1"</b>					Date of Survey <b>12th, 15th and 16th May 1950</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature <b>R. A. HARVEY.</b>
Coefficient of fineness for use with Tables <b>.68 minimum</b>					Particulars of Classification <b>+4A1.</b>

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth ...	<b>13.08</b>	(a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ <b><math>(13.33 - 7.74) \cdot 874 = 4.99</math></b>		Moulded Breadth (B)	<b>25'-0"</b>
Stringer plate ...	<b>—</b>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50} =$	<b>6"</b>
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	<b>25</b>	If restricted by superstructures		Ship's Round of Beam =	<b>5"</b>
Depth for Freeboard (D) = <b>13.33</b>				Difference	<b>1'-0"</b>
				Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) =$	<b><math>\frac{1}{4} = +.25</math></b>

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						
" overhang ...						
R.Q.D. enclosed ...						
" overhang ...						
Bridge enclosed ...						
" overhang aft ...						
" overhang forward ...						
Forecastle enclosed ...						
" overhang ...						
Trunk aft ...						
" forward ...						
Tonnage opening aft ...						
" " forward ...						
Total ...						

*Flush deck*

Standard Height of Superstructure \_\_\_\_\_

" " R.Q.D. \_\_\_\_\_

Deduction for complete superstructure \_\_\_\_\_

Percentage covered  $\frac{S}{L} =$  \_\_\_\_\_

" "  $\frac{S_1}{L} =$  \_\_\_\_\_

" "  $\frac{E}{L} =$  \_\_\_\_\_

Percentage from Table, Line A.  
(corrected for absence of fore-castle (if required))

Percentage from Table, Line B.  
(corrected for absence of fore-castle (if required))

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

Deduction = **✓**

48" TRIM

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	21.62	1		21.62	33	9	1		9
$\frac{1}{2}$ L from A.P. ...	9.62	4		38.48	18	2	4		8
$\frac{2}{3}$ L " ...	2.38	2		4.76	12	4	2		8
Amidships ...	—	4		—	—	—	4		—
$\frac{2}{3}$ L from F.P. ...	4.76	2		9.52	10.3	5.476	2		9.52
$\frac{1}{2}$ L " ...	19.24	4		76.96	12	28.1944	4		76.96
F.P. ...	43.24	1		43.24	23	47.4324	1		43.24
Total ...				194.58					154.72

Correction =  $\frac{\text{Difference between sums of products}}{18} =$ 

If limited on account of midship superstructure.

$$\left( \frac{.75 - S}{2L} \right) = \frac{39.86 \times .75}{18} = +1.66"$$

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

Mean actual sheer aft = **Deficient. Less than 50%**Mean actual sheer forward = **Excess**Length of enclosed superstructure forward of amidships = **Deficient**aft of " = **Deficient**

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **13.33**

Summer freeboard = **3.50**

Moulded draught (d) = **9.83**

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = **2.46-2½**

## 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

$$\frac{d}{4} = 2 \frac{1}{2} \frac{1}{2}$$

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **NIL**

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. **6**

Summed draught of

	+	-
Depth Correction	4.99	—
Deduction for superstructures	—	—
Sheer correction	1.66	—
Round of Beam correction	25	—
Correction for Thickness of Deck amidships	—	—
Other corrections, scantlings, etc.	21.74	—
Summed draught of	28.64	—

Summer Freeboard = **42.00**

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line.

Tropical Fresh Water Line above Centre of Disc **NOT ASSIGNED**

Fresh Water Line " **2½"**

Tropical Line " **NOT ASSIGNED**

Winter Line below " **2½"**

Winter North Atlantic Line " **NOT ASSIGNED**

Tropical Fresh Water Freeboard **NOT ASSIGNED**

Fresh Water " **3'-3½"**

Tropical " **NOT ASSIGNED**

Winter " **3'-8½"**

Winter North Atlantic " **NOT ASSIGNED**