

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 42337
(For London Office only).

Ship's Name Wood Car & Passenger Ferry "MANECO".	Official Number I57095	Nationality and Port of Registry British St. John's, NFL.	Gross Tonnage 248	Date of Build I93I-6	Port of Survey St. John's, NFL.
Moulded Dimensions: Length 116'2" 124'0" Breadth 25'6" Depth 13'7" ✓					Date of Survey 12th., 15th., & 16th. May, 1950.
Moulded displacement at moulded draught = 85 per cent. of moulded depth: Not known, no means of obtaining same, plans not available.					Surveyor's Signature <i>W. J. Sawyer</i>
Coefficient of fineness for use with Tables 68 MINIMUM.					Particulars of Classification Rest. I4A1.

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 13.583 ✓	(a) Where D is greater than Table depth (D—Table depth) R=	Moulded Breadth (B) 25'0" ✓
Stringer plate 4" wood ... 27	(13.83-7.74) 894 = + 5.44" ✓	Standard Round of Beam = $\frac{B \times 12}{50}$ = 6" ✓
3" Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$.25 ✓	(b) Where D is less than Table depth (if allowed) (Table depth—D) R=	Ship's Round of Beam = 4'2" 5" ✓
Depth for Freeboard (D) = 13.83 ✓	If restricted by superstructures ✓	Difference 1'0" ✓
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right)$ = 4'1" + 25" ✓

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 ...					

FLUSH DECK NO SUPERSTRUCTURES.

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 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.

44" 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	9	1	9.0
1/2 L from A.P. ...	9.62	✓	4	38.48	✓	18	2	2	4	8.0
1/2 L " ...	2.38	✓	2	4.76	✓	12	4	4	2	8.0
Amidships ...	✓	4	✓	0	✓	0	✓	4	✓	✓
1/2 L from F.P. ...	4.76	✓	2	9.52	✓	-3	5	4.76	2	9.52
1/2 L " ...	19.24	✓	4	76.96	✓	12	28	19.24	4	76.96
F.P. ...	43.24	✓	1	43.24	✓	23	47	43.24	1	43.24
Total ...				194.58	✓					154.72

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{39.86}{18} \times .75 = + 1.66"$ ✓

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Mean actual sheer aft = DEFICIENT. Less than 50%.

Mean standard sheer aft

Mean actual sheer forward = EXCESS. ✓

Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

" " aft of " = DEFICIENT SHEER

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient. NIL.
Depth to Freeboard Deck = 13.83 ✓	Δ = not known	
Summer freeboard = 4.08 ✓	Tons per inch immersion at summer load water line	
Moulded draught (d) = 9.75 ✓	T =	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.44 2/3 ✓	Deduction = $\frac{\Delta}{40T}$ inches	
Addition for Winter North Atlantic Freeboard (if required) =	$\frac{d}{4} = 2.44"$ ✓	
	$2 1/2"$ ✓	

11.62 + 1.74 ✓

13.36 ✓

13.36 ✓

	+	-
Depth Correction ...	5.44 ✓	✓
Deduction for superstructures ...	✓	✓
Sheer correction ...	1.66 ✓	✓
Round of Beam correction ...	25 ✓	✓
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	28.29 ✓	✓
Summer Freeboard =	35.64 ✓	49.00 ✓

14.6.50

35.64

49.00

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, 3" Sheathing Deck.

Tropical Fresh Water Line above Centre of Disc	2 1/2" ✓	Tropical Fresh Water Freeboard	3' 10 1/2" ✓
Fresh Water Line	" ✓	Fresh Water	" ✓
Tropical Line	" ✓	Tropical	" ✓
Winter Line below	2 1/2" ✓	Winter	" ✓
Winter North Atlantic Line	" ✓	Winter North Atlantic	" ✓

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship Ferry Service between St. John's, NFL., and ports in Conception Bay, NFL.

Names of sister ships None.

Builder's name and yard number J. Ernst & Son Ltd. Mahone Bay, N.S. Not known.

Owners Bell Island Steamship Co. Ltd.

Fee £ \$20.00



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Foundation