

Teesbank 35279  
 Eckbank 34909  
 S. Thome 35759

T.O. CLOSED. (W.E.)

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# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>ETTRICK BANK</b>	Official Number <b>165920</b>	Nationality and Port of Registry <b>British, Glasgow.</b>	Gross Tonnage	Date of Build <b>1937</b>	Port of Survey
Moulded Dimensions: Length <b>415'00"</b> Breadth <b>55'21"</b> Depth <b>37'21"</b>					Date of Survey <b>28. 4. 41</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Coefficient of fineness for use with Tables <b>.773</b>					Particulars of Classification <b>+ 100 A1 with freeboard.</b>

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	37'21"	(a) Where D is greater than Table depth		Moulded Breadth (B)	55'21"
Stringer plate	.59	(D - Table depth) R =	(37'47" - 27'67") x 3 = + 29'40"	Standard Round of Beam = $\frac{B \times 12}{50}$	13'25"
Sheathing on exposed deck		9'80		Ship's Round of Beam	13'75"
T $\left(\frac{L-S}{L}\right) =$	.21	(b) Where D is less than Table depth (if allowed)		Difference	.50"
Depth for Freeboard (D) =	37'47"	(Table depth - D) R =		Restricted to	
		If restricted by superstructures	✓	Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{.50}{4} = -.12"$

## 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					
F'cle 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.

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

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

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.

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	51.50	1		51.50	54.0	54	1		54.0
$\frac{1}{8}$ L from A.P.	22.92	4		91.68	24.0	24	4		96.0
$\frac{2}{8}$ L	5.67	2		11.34	6.50	6.5	2		13.0
Amidships		4					4		
$\frac{3}{8}$ L from F.P.	11.33	2		22.66	11.88	11.88	2		23.76
$\frac{1}{8}$ L	45.83	4		183.32	48.00	48.00	4		192.00
F.P.	103.00	1		103.00	108.00	108.00	1		108.00
Total				463.50					486.76

Mean actual sheer aft = } Excess.

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = } Flush deck.

" " aft of " = } deck.

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{23.26}{18} \times .75 = -.97"$

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.	Deduction for Fresh Water.	TABULAR FREEBOARD	76.20 + 6.23	82.43
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	corrected for Flush Deck (if required)	773 + .68 = 1.453/1.36	88.07
Depth to Freeboard Deck = 37'47"	Δ =	Correction for coefficient	1.36	
Summer freeboard = 11'12"	Tons per inch immersion at summer load water line	Depth Correction	29.40	
Moulded draught (d) = 26'35"	T =	Deduction for superstructures	-	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6'59" = 6'1/2"	Deduction = $\frac{\Delta}{40T}$ inches = 7"	Sheer correction	-.97	
Addition for Winter North Atlantic Freeboard (if required) =		Round of Beam correction	-.12	
		Correction for Thickness of Deck amidships	-	
		Other corrections, scantlings etc. to correction	17.12	
		to a summer moulded draught of 26'-4" (26'-4 1/8" actual)	46.52	
		Summer Freeboard =	133.50	+ 45.43

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	13'1/2"
Fresh Water Line	7'0"
Tropical Line	6'1/2"
Winter Line below	6'1/2"
Winter North Atlantic Line	✓

Tropical Fresh Water Freeboard	10'0"
Fresh Water	10'6 1/2"
Tropical	10'7"
Winter	11'8"
Winter North Atlantic	✓

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