

TIMBER.

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received .....  
Index No. ....  
Govt. Copy .....  
Owners C11 .....

Ship's Name <b>FRED EVERARD</b>	Official Number <b>187792</b>	Nationality and Port of Registry <b>BRITISH LONDON</b>	Gross Tonnage <b>1542</b>	Date of Build <b>1958</b>	Port of Survey <b>GRANTEMOUTH</b>
Moulded Dimensions: Length <b>225.0'</b> Breadth <b>37.83'</b> Depth <b>16.00'</b> UPPER DECK Freeboard Length <b>225.38'</b> R. Q. DECK					Date of Survey <b>DURING CONSTRUCTION</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>2357</b> tons Coefficient of fineness for use with Tables <b>.711</b>					Surveyor's Signature ..... Particulars of Classification <b>* 100 A1</b> <b>CLASS CONTEMPLATED.</b>

<b>DEPTH FOR FREEBOARD (D).</b> Moulded depth ... .. <b>16.00</b> Stringer plate ... .. <b>.03</b> Wood Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <b>16.03</b>	<b>DEPTH CORRECTION.</b> (a) Where D is greater than Table depth (D-Table depth) R = <b>+ 1.73"</b> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <b>✓</b> If restricted by superstructures <b>✓</b>	<b>ROUND OF BEAM CORRECTION.</b> Moulded Breadth (B) ..... Standard Round of Beam = $\frac{B \times 12}{50} =$ ..... Ship's Round of Beam ..... Difference ..... Restricted to ..... Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>-02"</b>
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DEDUCTION FOR SUPERSTRUCTURES.				
	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	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 ... ..	<b>184.12</b>	<b>184.12</b>		<b>184.12</b>

Standard Height of Superstructure **6.0'**  
 " " R.Q.D. **3.836'**  
 Deduction for complete superstructure **28.54"**  
 Percentage covered  $\frac{S}{L} =$  .....  
 " "  $\frac{S_1}{L} =$  .....  
 " "  $\frac{E}{L} =$  .....  
 Percentage from Table, Line A. **TIMBER 88.56**  
 (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 = **.8856 x 28.54 = -25.27"**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ... ..		1				1	
$\frac{1}{4}L$ from A.P. ... ..		4				4	
$\frac{2}{4}L$ " ... ..		2				2	
Amidships ... ..	0	4	0	0	0	4	0
$\frac{2}{4}L$ from F.P. ... ..		2				2	
$\frac{1}{4}L$ " ... ..		4				4	
F.P. ... ..		1				1	
Total ... ..							

Mean actual sheer aft = .....  
 Mean standard sheer aft = .....  
 Mean actual sheer forward = .....  
 Mean standard sheer forward = .....  
 Length of enclosed superstructure forward of amidships = **> 1L**  
 " " aft of " = **.5L**

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  **-4.30**  
 If limited on account of midship superstructure. **✓**

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100ft. **YES 3.38"**

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Depth to R.Q. Deck = <b>21.03</b> Summer freeboard = <b>5.17</b> Moulded draught (d) = <b>15.86</b> Keel allowance = ..... Extreme draught = ..... Deduction for Tropical freeboard and addition for = <b>4.37" = 4"</b> Addition for Winter freeboard = $\frac{d}{3}$ inches = <b>5.29" = 5.4"</b> Addition for Winter North Atlantic Freeboard (if required) = <b>6"</b>	<b>Deduction for Fresh Water.</b> 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 = <b>4"</b>	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient $\frac{1.391}{1.36}$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ... ..</td> <td><b>1.73</b></td> <td><b>-</b></td> </tr> <tr> <td>Deduction for superstructures ... ..</td> <td><b>-</b></td> <td><b>25.27</b></td> </tr> <tr> <td>Sheer correction ... ..</td> <td><b>-</b></td> <td><b>3.38</b></td> </tr> <tr> <td>Round of Beam correction ... ..</td> <td><b>-</b></td> <td><b>.02</b></td> </tr> <tr> <td>Correction for Thickness of Deck amidships ... ..</td> <td><b>60.00</b></td> <td><b>-</b></td> </tr> <tr> <td>Other corrections, scantlings, etc. ... ..</td> <td><b>-</b></td> <td><b>-</b></td> </tr> <tr> <td></td> <td><b>61.73</b></td> <td><b>28.67</b></td> </tr> </table> Summer Freeboard = <b>61.31</b>		+	-	Depth Correction ... ..	<b>1.73</b>	<b>-</b>	Deduction for superstructures ... ..	<b>-</b>	<b>25.27</b>	Sheer correction ... ..	<b>-</b>	<b>3.38</b>	Round of Beam correction ... ..	<b>-</b>	<b>.02</b>	Correction for Thickness of Deck amidships ... ..	<b>60.00</b>	<b>-</b>	Other corrections, scantlings, etc. ... ..	<b>-</b>	<b>-</b>		<b>61.73</b>	<b>28.67</b>
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**TIMBER SUMMER FREEBOARD** amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

TIMBER Tropical Fresh Water Line above Centre of Disc ... ..	<b>6.4"</b>	TIMBER Tropical Fresh Water Freeboard ... ..	<b>4.10"</b>
" Fresh Water Line " " ... ..	<b>6.4"</b>	" Fresh Water " " ... ..	<b>4.10"</b>
" Tropical Line " " ... ..	<b>2.7"</b>	" Tropical " " ... ..	<b>5.1"</b>
" Winter Line below " " ... ..	<b>2.7"</b>	" Winter " " ... ..	<b>5.1"</b>
" Winter North Atlantic Line " " ... ..	<b>6.4"</b>	" Winter North Atlantic " " ... ..	<b>5.1"</b>

5m, 6.55. T. **SUMMER LINE ABOVE** **2.7"**

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