

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. 36163  
 (For London Office only).

Ship's Name <b>S.H.W.R. No 1337</b> <b>Ferry Steamer</b>	Official Number <b>1662</b>	Nationality and Port of Registry <b>806 14/1/40</b>	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>180</b> Breadth <b>40</b> Depth <b>15</b>					Date <b>14.11.39</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables <b>.70 assumed.</b>					Particulars of Classification <b>+ 100% with fwd.</b> <b>(Contemplated)</b>

Depth for Freeboard (D). Moulded depth ... <b>assumed 10.67</b> Stringer plate ... <b>.03</b> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <b>.63</b> Depth for Freeboard (D) = <b>10.70</b>	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = <b>.90</b> (b) Where D is less than Table depth (if allowed) (Table depth - D) <b>.63</b> $(12.00 - 10.70) \times 1.385 = -1.80$ If restricted by superstructures <b>Nil</b>	Round of Beam correction. Moulded Breadth (B) _____ Standard Round of Beam = $\frac{B \times 12}{50} =$ _____ Ship's Round of Beam _____ Difference <b>assumed standard</b> Restricted to _____ Correction = $\frac{\text{Diff}^*}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>Nil</b>
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## 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 ...					

**F.D**

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**

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1							
$\frac{1}{2}L$ from A.P. ...		4					4		
$\frac{3}{4}L$ " ...		2					2		
Amidships ...		4					4		
from F.P. ...		2					2		
" ...		4					4		
" ...		1					1		
Total ...									

**assumed standard**

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

Mean actual sheer aft = \_\_\_\_\_  
 Mean standard sheer aft = \_\_\_\_\_  
 Mean actual sheer forward = \_\_\_\_\_  
 Mean standard sheer forward = \_\_\_\_\_  
 Length of enclosed superstructure forward of amidships = \_\_\_\_\_  
 " " aft of " = \_\_\_\_\_

If limited to maximum allowance of 12 ins. per 100 ft.

Correction for Tropical Freeboard. Correction for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <b>10.70</b> Summer freeboard = <b>1.52</b> Moulded draught (d) = <b>9.18</b>	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 = $\frac{\Delta}{40T}$ inches = _____	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient $\frac{.70 + .68}{1.36} = \frac{1.38}{1.36}$ Depth Correction ... <b>1.90</b> Deduction for superstructures ... <b>1.80</b> Sheer correction ... <b>1.90</b> Round of Beam correction ... <b>1.80</b> Correction for Thickness of Deck amidships ... <b>1.90</b> Other corrections, scutlings, etc. ... <b>1.80</b>	<b>19.80</b> <b>20.09</b> <b>18.29</b> <b>19.19</b>
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Summer Freeboard = **18.29**

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

Tropical Fresh Water Line above Centre of Disc ...	Tropical Fresh Water Freeboard ...
Fresh Water Line " " ...	Fresh Water " " ...
Tropical Line " " ...	Tropical " " ...
Winter Line below " " ...	Winter " " ...
Winter North Atlantic Line " " ...	Winter North Atlantic " " ...

Draught allowed = 9'-0" ext. all seasons = (8'-11" moulded winter)

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