

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. 3
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having **FLUSH DECK**
Port of Survey **LONDON**
(Type of Superstructures.)
Date of Survey **17/5/39**
Name of Surveyor **A.T.S.S.**
Ship's Name **Dorford's No 640 - Lady Glenelg**
Nationality and Port of Registry
Official Number
Gross Tonnage
Date of Build
Moulded Dimensions: Length **422.21** Breadth **57.46** Depth **37.08**
Moulded displacement at moulded draught = 85 per cent. of moulded depth
Coefficient of fineness for use with Tables **.77**
Particulars of Classification

Depth for Freeboard (D) Depth correction Round of Beam correction
Moulded depth ... 37.08
Stringer plate05
Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$
Depth for Freeboard (D) = **37.13**
(a) Where D is greater than Table depth
(D - Table depth) R =
(37.13 - 28.14) 3 = + 26.97
(b) Where D is less than Table depth (if allowed)
(Table depth - D) R =
If restricted by superstructures
Moulded Breadth (B)
Standard Round of Beam = $\frac{B \times 12}{50} =$
Ship's Round of Beam =
Difference
Restricted to
Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ **Standard**

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	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 $\frac{S}{L} =$
" " $\frac{S_1}{L} =$ **Flush Deck**
" " $\frac{E}{L} =$
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					1		
$\frac{1}{6}L$ from A.P. ...		4					4		
$\frac{2}{6}L$ " ...		2					2		
Amidships ...		4					4		
$\frac{2}{6}L$ from F.P. ...		2					2		
$\frac{1}{6}L$ " ...		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 =
" " aft of " =

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

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Depth to Freeboard Deck = 37.13 Summer freeboard = 9.22 Moulded draught (d) = 27.91 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	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 =	Correction for coefficient $\frac{.77 + .68}{1.36} = \frac{1.45}{1.36}$ Depth Correction ... 26.97 Deduction for superstructures ... Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = 110.66

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 " " ...

