

# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received .....

Index No. ....

Govt. Copy .....

Owners C11 .....

Ship's Name <b>LOCH DEE.</b>	Official Number <b>164122</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>409.87</b> Breadth <b>58.5</b> Depth <b>38.78</b>					Date of Survey <b>17.6.55</b>
Freeboard Length <b>76.4 OF RS</b>					Surveyor's Signature .....
Moulded displacement at moulded draught = 85 per cent. of moulded depth ..... tons					Particulars of Classification <b>+ 100 A1</b>
Coefficient of fineness for use with Tables .....					

<b>DEPTH FOR FREEBOARD (D).</b>	<b>DEPTH CORRECTION.</b>	<b>ROUND OF BEAM CORRECTION.</b>
Moulded depth ... .. <b>38.78</b>	(a) Where D is greater than Table depth (D - Table depth) R = <b>(38.88 - 27.32) 3 = + 34.68"</b>	Moulded Breadth (B) .....
Stringer plate <b>.58" + .60"</b> ... .. <b>.10</b>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <b>11.56</b>	Standard Round of Beam = $\frac{B \times 12}{50}$ = .....
Wood Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = .....
Depth for Freeboard (D) = <b>38.88</b>		Difference .....
		Restricted to .....
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left( 1 - \frac{S_1}{L} \right)$ = .....

**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  $\frac{S}{L} =$  .....

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

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

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 = .....

**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 ... ..	○	4	○	○	○	○	4	○	○
$\frac{2}{4}L$ 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 =  $\frac{\text{L}}{\text{L}}$  .....

" " aft of " = .....

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

If limited on account of midship superstructure. ....

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

<b>Deduction for Tropical Freeboard.</b>	<b>Deduction for Fresh Water.</b>	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required)
<b>Addition for Winter and Winter North Atlantic Freeboard.</b>		Correction for coefficient
Depth to Freeboard Deck = Ft. ....	Displacement in salt water at summer load water line	
Summer freeboard = .....	$\Delta =$ .....	Depth Correction ... ..
Moulded draught (d) = .....	Tons per inch immersion at summer load water line	Deduction for superstructures ... ..
Keel allowance = .....	T = .....	Sheer correction ... ..
Extreme draught = .....	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction ... ..
Deduction for Tropical freeboard and addition for = .....		Correction for Thickness of Deck amidships ... ..
Winter freeboard = $\frac{d}{4}$ inches = .....		Other corrections, scantlings, etc. ... ..
Addition for Winter North Atlantic Freeboard (if required) = .....		
		Summer Freeboard = .....

**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	"