

TANKER
SCANTLING ONLY
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. _____
(For London Office only.)

Ship's Name Esso Liverpool	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 555.0 Breadth 75.0 Depth 43.25					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables Say .80. ✓					Particulars of Classification

DEPTH FOR FREEBOARD (D). Moulded depth ... 43.25 Stringer plate08 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) ✓ 43.33	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = + 18.99 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures ✓	ROUND OF BEAM CORRECTION. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ + .69
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DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	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 ...	44.50	44.50			44.50

Standard Height of Superstructure _____
" " R.Q.D. _____
Deduction for complete superstructure _____
Percentage covered $\frac{S}{L} =$ } **.802**
" " $\frac{S_1}{L} =$ }
" " $\frac{E}{L} =$ }
Percentage from Table, Line **A Tanker 5.6**
(corrected for absence of forecastle (if required)) **.6**
Percentage from Table, Line B.
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required) **-452**
Deduction = **Nil. ✓** **42 x .006**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
$\frac{1}{8}L$ from A.P. ...		4				4	
$\frac{3}{8}L$ " ...		2				2	
Amidships ...		4				4	
$\frac{5}{8}L$ from F.P. ...		2				2	
$\frac{7}{8}L$ " ...		4				4	
F.P. ...		1				1	
Total ...							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **+ 13.19. ✓**
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. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 43.33 Summer freeboard = 11.77 Moulded draught (d) = ✓ 31.56 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	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 = $\frac{\Delta}{40 T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.80 + .68}{1.36} = \frac{1.48}{1.36}$ Depth Correction ... 18.99 ✓ Deduction for superstructures ... ✓ ✓ Sheer correction ... 13.19 ✓ Round of Beam correction69 ✓ Correction for Thickness of Deck amidships ... ✓ ✓ Other corrections, scantlings, etc. ... ✓ ✓ 32.87 ✓ Summer Freeboard = 141.31 ✓
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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 " " ...		