

TANKER. Open Shell deck

Index No. \_\_\_\_\_  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>ESSO LIVERPOOL</b>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>554.50'</b> Breadth <b>75.0'</b> Depth <b>35.0'</b>					Date of Survey <b>16.5.50</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables <b>Say 80. ✓</b>					Particulars of Classification

**DEPTH FOR FREEBOARD (D).**

Moulded depth ... .. **35.00**

Stringer plate ... .. **.00**

Sheathing on exposed deck

$T \left( \frac{L-S}{L} \right) =$

Depth for Freeboard (D) = **35.04**

**DEPTH CORRECTION.**

(a) Where D is greater than Table depth (D-Table depth) R = **✓**

(b) Where D is less than Table depth (if allowed) (Table depth-D) R = **(36.97-35.04)3 = -5.79" ✓**

If restricted by superstructures **No.**

**ROUND OF BEAM CORRECTION.**

Moulded Breadth (B) **75.0**

Standard Round of Beam =  $\frac{B \times 12}{50} =$  **18.0**

Ship's Round of Beam = **15.0**

Difference **3.0**

Restricted to

Correction =  $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{3.0}{4} \times 0.0058 = \text{NIL}$

**DEDUCTION FOR SUPERSTRUCTURES.**

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..	302.00	302.00	8.25	✓	302.00
„ overhang ... ..	.50	.25			.25
R.Q.D. enclosed ... ..					
„ overhang ... ..					
Bridge enclosed ... ..					
„ overhang aft ... ..	243.47	243.47		✓	243.47
„ overhang forward ... ..					
Fore enclosed ... ..					
„ overhang ... ..	4.53	2.27			2.27
Trunk aft ... ..					
„ forward ... ..		1/2 D.H.			
Tonnage opening aft ... ..	4.00	3.26			3.26
„ „ forward ... ..					
Total ... ..	554.50	551.25			551.25

Standard Height of Superstructure **7.5'**

„ „ R.Q.D. **✓**

Deduction for complete superstructure **42**

Percentage covered  $\frac{S}{L} =$  **100**

„ „  $\frac{S_1}{L} =$  **99.42**

„ „  $\frac{E}{L} =$  **99.28**

Percentage from Table, Line A. **TANKER 99.28**

(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 = **42 + .9928 = 41.70 ✓**

**SHEER CORRECTION.**

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ... ..		1				1	
1/8 L from A.P. ... ..		4				4	
3/8 L „ ... ..		2				2	
Amidships ... ..		4				4	
5/8 L from F.P. ... ..		2				2	
7/8 L „ ... ..		4				4	
F.P. ... ..		1				1	
Total ... ..							

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

If 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 „ =

**+ 3.55" ✓**

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

**Deduction for Tropical Freeboard.****Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = **35.04**

Summer freeboard = **5.38**

Moulded draught (d) = **29.66**

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

	+	-
Depth Correction ... ..	✓	5.79
Deduction for superstructures ... ..	✓	41.70
Sheer correction ... ..	3.55	✓
Round of Beam correction ... ..	✓	✓
Correction for Thickness of Deck amidships ... ..	✓	✓
Other corrections, scantlings, etc. ... ..	✓	✓
	3.55	47.49

Summer Freeboard = **64.40 ✓**

**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 „ „ ... ..