

FOR SIDE SCUTTLES and hatch.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Europa</i>	Official Number	Nationality and Port of Registry <i>42.25-</i>	Gross Tonnage	Date of Build	Port of Survey _____
Moulded Dimensions: Length <i>549.50</i> Breadth <i>71.75</i> Depth <i>42.25-9.0 = 33.25</i>					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 <i>.70 assumed</i>					Particulars of Classification _____

DEPTH FOR FREEBOARD (D).

Moulded depth ... *33.25*

Stringer plate ... *.54* ... *.04*

Sheathing on exposed deck

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

Depth for Freeboard (D) = *33.29*

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 = *(36.635 - 33.29) 3.345*

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 = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{11.22}{4} \times 0 = \text{Nil}$

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 ...					

Standard Height of Superstructure *7.5*

„ „ R.Q.D. _____

Deduction for complete superstructure *42*

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

„ „ $\frac{S_1}{L} =$ _____

„ „ $\frac{E}{L} =$ _____

Percentage from Table, Line A. *100*

(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 × 1.00 = -42*

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 ...							

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 „ = _____

+39

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 = *33.25*

Summer freeboard = *5.54*

Moulded draught (d) = *27.71*

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		<i>10.04</i>
Deduction for superstructures		<i>42.00</i>
Sheer correction	<i>39</i>	
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	<i>39</i>	<i>52.04</i>

Summer Freeboard = *66.34*

5-6 1/2

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

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

Tropical Fresh Water Freeboard
Fresh Water	„	...
Tropical	„	...
Winter	„	...
Winter North Atlantic	„	...