

FOR SIDESCUTTLES 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).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth <i>33.25</i>	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) _____
Stringer plate ... <i>.54</i> <i>.04</i>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ _____
Sheathing on exposed deck	(36.635 - 33.25) <i>3.385</i>	Ship's Round of Beam = _____
$T \left(\frac{L-S}{L} \right) =$ _____	If restricted by superstructures <input checked="" type="checkbox"/>	Difference _____
Depth for Freeboard (D) = <i>33.29</i>		Restricted to _____
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{11.22}{4} \times 0 = \text{Nil}$

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 x 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							

Mean actual sheer aft = _____

Mean standard sheer aft = _____

Mean actual sheer forward = _____

Mean standard sheer forward = _____

Length of enclosed superstructure forward of amidships = _____

L

" " aft of " = _____

+39"

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <i>33.25</i> Ft.</p> <p>Summer freeboard = <i>5.54</i></p> <p>Moulded draught (d) = <i>27.71</i></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$ _____</p> <p>Tons per inch immersion at summer load water line</p> <p>T = _____</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{.70 + .68}{1.36} \times \frac{1.38}{1.36}$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">+</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">10.04</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">42.00</td></tr> <tr><td style="text-align: center;">39</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">-</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">39</td><td style="text-align: center;">52.09</td></tr> </table> <p>Summer Freeboard = <i>66.34</i></p> <p style="text-align: right;"><i>5-6 1/2</i></p>	+	-	-	10.04	-	42.00	39	-	-	-	-	-	-	-	39	52.09
+	-																	
-	10.04																	
-	42.00																	
39	-																	
-	-																	
-	-																	
-	-																	
39	52.09																	

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 " "