

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

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
<p>Port of Survey _____</p> <p>Date of Survey _____</p> <p>Surveyor's Signature _____</p> <p>Particulars of Classification _____</p>				
<p>Moulded Dimensions : Length <u>550</u> Breadth <u>76</u> Depth <u>36.56</u> <u>(7'6" below C.D.)</u></p> <p>Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons</p> <p>Coefficient of fineness for use with Tables <u>68</u></p>				

DEPTH FOR FREEBOARD (D).				DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B)
Stringer plate	(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				(36.67 - 36.60) 3 = - .21	Ship's Round of Beam =
$T \left(\frac{L-S}{L} \right) =$				If restricted by superstructures	Difference
Depth for Freeboard (D) =					Restricted to
					Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$

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 _____

 " " 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 = 42.0

SHEER CORRECTION.

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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{8}{2L} \right) = +1.68$
 If limited on account of midship superstructure.

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p style="text-align: right;">Ft.</p> <p>Depth to Freeboard Deck = 36.60</p> <p>Summer freeboard = 6.31</p> <p>Moulded draught (d) = 30.29</p> <p>Deduction for Tropical freeboard and addition for</p> <p>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>Δ =</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 ✓</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th style="width: 10%;">+</th> <th style="width: 10%;">-</th> </tr> <tr> <td>Depth Correction</td> <td>-</td> <td>0.21</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>42.00</td> </tr> <tr> <td>Sheer correction</td> <td>1.68</td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td>-</td> <td>-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>1.68</td> <td>42.21</td> </tr> </table> <p style="text-align: right;">Summer Freeboard = 75.87</p>		+	-	Depth Correction	-	0.21	Deduction for superstructures	-	42.00	Sheer correction	1.68		Round of Beam correction	-	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		1.68	42.21
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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	"	...