

Basic computation to Seantky Purkers dely.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. _____
(For London Office only).

Empire Clyde
ex. Leonardo da Vinci

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
				1925	
Moulded Dimensions: Length <i>429.25</i> Breadth <i>52.5</i> Depth <i>39.17</i>					Date of Survey <i>12-4-43</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables <i>.71 (assumed)</i>					Particulars of Classification <i>100 M with full tonnage (contingent)</i>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth <i>39.17</i>	(a) Where D is greater than Table depth (D-Table depth) R = <i>(39.21 - 28.62) x 3 = + 31.77</i> ✓	Moulded Breadth (B)
Stringer plate <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 $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = <i>39.21</i>		Difference = <i>assumed normal</i>
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>Nil</i>

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					

F.W

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 = *Nil* ✓

SHEER CORRECTION.

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

Assumed standard

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 „ = _____

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *Nil* ✓
 If limited on account of midship superstructure. If limited to maximum allowance of 1½ ins. per 100 ft.

<p>Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <i>39.21</i> Ft. Summer freeboard = <i>9.52</i> Moulded draught (d) = <i>29.69</i></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____ 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 $\Delta =$ _____ Tons per inch immersion at summer load water line T = _____ Deduction = $\frac{\Delta}{40T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{.71 + .68}{1.36} = \frac{1.39}{1.36}$</p> <table border="1"> <tr><td></td><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td><i>31.77</i></td><td></td></tr> <tr><td>Deduction for superstructures</td><td></td><td></td></tr> <tr><td>Sheer correction</td><td></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>31.77</td><td></td><td>+ 31.77</td></tr> </table> <p>Summer Freeboard = <i>114.21</i></p>		+	-	Depth Correction	<i>31.77</i>		Deduction for superstructures			Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.			31.77		+ 31.77
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: *9.52*

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 „ „

