

T/O. closed. Running to CSS with T/O draught 35'240

Index No. 35240
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name SALACIA	Official Number 165910	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 425.0 Breadth 57.0 Depth 38.75					Date of Survey 6.2.48
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables 731 estimated					Particulars of Classification +100A1 with freeboard

DEPTH FOR FREEBOARD (D). Moulded depth ... 38.75 Stringer plate ... 53 ... 04 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 38.79	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (38.75 - 38.33) \times 3 = +31.38''$ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 57.00' Standard Round of Beam = $\frac{B \times 12}{50} = 13.68''$ Ship's Round of Beam = 13.75'' Difference 0.07'' Restricted to Correction = $\frac{\text{Diff}''}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{0.07}{4} \times 9294 = .02$
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DEDUCTION FOR SUPERSTRUCTURES.						
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure 7.5'
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure 42.00'
" overhang						Percentage covered $\frac{S}{L} = 7.06$
Bridge enclosed						" " $\frac{S_1}{L} = 7.06$
" overhang aft						" " $\frac{E}{L} = 7.06$
" overhang forward						Percentage from Table, Line A. 3.53
F'cle enclosed	30.0	30.0	8.0	—	30.0	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = 42 x .0353 = -1.48''
" " forward						
Total	30.0	30.0			30.0	

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	52.50	1	52.50	51.5	51.5	1	51.50
$\frac{1}{8}L$ from A.P.	23.36	4	93.44	23.0	23.0	4	92.00
$\frac{3}{8}L$ "	5.77	2	11.54	6.0	6.0	2	12.00
Amidships	—	4	—	—	—	4	—
$\frac{5}{8}L$ from F.P.	11.55	2	23.10	12.0	12.0	2	24.00
$\frac{7}{8}L$ "	46.72	4	186.88	45.5	45.5	4	182.00
F.P.	105.00	1	105.00	106.0	106.0	1	106.00
Total			472.46				467.50

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{496.75 - 467.50}{18} = +20''$
 If limited on account of midship superstructure. If limited to maximum allowance of 1½ ins. per 100 ft.

Mean actual sheer aft = **Deficient**
 Mean standard sheer aft =
 Mean actual sheer forward = **Deficient**
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships = } **Deficient**
 " " aft of " = } **Shut**

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 38.79 Summer freeboard = 11.83 Moulded draught (d) = 26.96 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.74 = 6¾" Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 13376$ Tons per inch immersion at summer load water line $T = 42.93$ Deduction = $\frac{\Delta}{40 T}$ inches = 6.98 = 7"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $731 \times .68 = 1.411/1.36$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>31.38</td> <td>—</td> </tr> <tr> <td>Deduction for superstructures</td> <td>—</td> <td>1.48</td> </tr> <tr> <td>Sheer correction</td> <td>20</td> <td>—</td> </tr> <tr> <td>Round of Beam correction</td> <td>—</td> <td>.02</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>—</td> <td>—</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>27.65</td> <td>—</td> </tr> <tr> <td>Summer Freeboard</td> <td>142.00</td> <td>—</td> </tr> </table>		+	-	Depth Correction	31.38	—	Deduction for superstructures	—	1.48	Sheer correction	20	—	Round of Beam correction	—	.02	Correction for Thickness of Deck amidships	—	—	Other corrections, scantlings, etc.	27.65	—	Summer Freeboard	142.00	—
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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 ... 13¾" Fresh Water Line " " ... 7" Tropical Line " " ... 6¾" Winter Line below " " ... 6¾" Winter North Atlantic Line " " ...	Tropical Fresh Water Freeboard 11'-10" Fresh Water " 10'-8¼" Tropical " 11'-3¼" Winter " 11'-3¼" Winter North Atlantic " 12'-4¾"
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