

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

264

Ship's Name Roma	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 708.7 Breadth 82.67 Depth 51.51	Moulded displacement at moulded draught = 85 per cent. of moulded depth. tons				Date of Survey 1.6.39
Coefficient of fineness for use with Tables assumed .77				Surveyor's Signature	
				Particulars of Classification 100A1 with timber	

Depth for Freeboard (D). Moulded depth 39.25 Stringer plate05 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = 39.30	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 = ✓ $(47.25 - 39.30) \times 3 = -23.85$ If restricted by superstructures 7.95	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 = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ assumed standard
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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					

C.S.S

Standard Height of Superstructure	7.5
.. .. R.Q.D.	1
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.	100%
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	-42

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		
$\frac{3}{4}$ L		2					2		
Amidships		4					4		
$\frac{3}{4}$ L from F.P.		2					2		
$\frac{1}{4}$ L		4					4		
F.P.		1					1		
Total									

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 .. =	

*L.R. Rule sheer deck height = 8.00
Convention standard height = 7.50
Difference = .50*

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{7.5 - S}{2L} \right) = -0.50$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 39.30 Summer freeboard = 8.16 Moulded draught (d) = 31.14 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 7.78 = .65 Addition for Winter North Atlantic Freeboard (if required) = Winter draught = 30.49	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 = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.77 + .68}{1.36} = \frac{1.45}{1.36} =$ <table border="1" style="float: right;"> <tr><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td>23.85</td></tr> <tr><td>Deduction for superstructures</td><td>42.00</td></tr> <tr><td>Sheer correction</td><td>.50</td></tr> <tr><td>Round of Beam correction</td><td>-</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>-</td></tr> <tr><td>Summer Freeboard =</td><td>97.95</td></tr> </table>	+	-	Depth Correction	23.85	Deduction for superstructures	42.00	Sheer correction	.50	Round of Beam correction	-	Correction for Thickness of Deck amidships	-	Other corrections, scantlings, etc.	-	Summer Freeboard =	97.95
+	-																	
Depth Correction	23.85																	
Deduction for superstructures	42.00																	
Sheer correction	.50																	
Round of Beam correction	-																	
Correction for Thickness of Deck amidships	-																	
Other corrections, scantlings, etc.	-																	
Summer Freeboard =	97.95																	

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	..

Draught David = 30' 6" all seasons etc.

8.16 feet
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