

MODIFIED Computation

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

For LONDON OFFICE ONLY

 Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name MONOWA.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 499.2 Breadth 63.0 Depth 46 Freeboard Length 499.2 Moulded displacement at moulded draught = 85 per cent. of moulded depth tons Coefficient of fineness for use with Tables 725					Date of Survey 21.7.60 Surveyor's Signature Particulars of Classification +100A1 with probation

DEPTH FOR FREEBOARD (D). Moulded depth ... 46.0 Stringer plate ... 0.045 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = 2\frac{1}{2}$ 208 Depth for Freeboard (D) = 46.25	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = +38.91$ (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) 62 Standard Round of Beam = $\frac{B \times 12}{50} = 15.12$ Ship's Round of Beam = 6.0 Difference 9.12 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) = \frac{9.12^2}{4} = +2.28$
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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					

Flush Deck

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		
$\frac{1}{8}L$ from A.P.		4					4		
$\frac{2}{8}L$ "		2					2		
Amidships	○	4	○	○	○	○	4	○	○
$\frac{2}{8}L$ from F.P.		2					2		
$\frac{1}{8}L$ "		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 =
 " " aft of " =

4'-04"
 If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 46.25 Summer freeboard = 18.98 Moulded draught (d) = 27.27 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = Winter freeboard = $\frac{d}{4}$ inches = 6.82 6 3/4 Addition for Winter North Atlantic Freeboard (if required) =	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 = $\frac{\Delta}{40 T}$ inches $d = 6\frac{3}{4}$ 2 1/2"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient 102.06 + 7.49 $725 + 68 = 1405 / 1.36$ 109.56 113.18 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>+</td><td>-</td></tr> <tr><td>38.91</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>4.04</td><td>-</td></tr> <tr><td>2.28</td><td>-</td></tr> <tr><td>-</td><td>-</td></tr> <tr><td>69.34</td><td>-</td></tr> <tr><td>114.57</td><td>-</td></tr> </table> Summer Freeboard = 227.75 114.57 21.7.60 +114.57	+	-	38.91	-	-	-	4.04	-	2.28	-	-	-	69.34	-	114.57	-
+	-																	
38.91	-																	
-	-																	
4.04	-																	
2.28	-																	
-	-																	
69.34	-																	
114.57	-																	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, ~~Steel~~, Deck :-

Tropical Fresh Water Line above Centre of Disc	...	13 1/2"
Fresh Water Line	"	6 3/4"
Tropical Line	"	6 3/4"
Winter Line	below	6 3/4"
Winter North Atlantic Line	"	Not applicable

Tropical Fresh Water Freeboard	...	18' - 11 3/4"
Fresh Water	"	17' - 10 1/4"
Tropical	"	18' - 5"
Winter	"	18' - 5"
Winter North Atlantic	"	Not applicable