

AS A TANKER

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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for ~~Steamer, Sailing Ship, Tanker~~
having poop, bridge & forecastle

(Type of Superstructures.)

Ship's Name MAUDIE	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
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Moulded Dimensions: Length 385 Breadth 51.75 Depth 29.25
Moulded displacement at moulded draught = 85 per cent. of moulded depth 11069 tons
Coefficient of fineness for use with Tables .782

Port of Survey _____
Date of Survey _____
Name of Surveyor _____
Particulars of Classification _____

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>29.25</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>+10.72</u>	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam =
Stringer plate <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Difference Restricted to Correction = $\frac{\text{Diff}^e}{4} \times (1 - \frac{S_1}{L}) =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	
Depth for Freeboard (D) = <u>29.29</u>		

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	<u>7.35</u>
„ „ R.Q.D.	
Deduction for complete superstructure	<u>41.00</u>
Percentage covered $\frac{S}{L} =$	<u>50.22</u> ✓
„ „ $\frac{S_1}{L} =$	<u>50.22</u> ✓
„ „ $\frac{E}{L} =$	<u>50.22</u> ✓
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	<u>41.24</u> ✓
Interpolation for bridge less than .2L (if required)	
Deduction =	<u>41 × .4124 = -16.91</u> ✓

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		
$\frac{3}{8}L$ „		2					2		
Amidships		4					4		
$\frac{3}{8}L$ 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 „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ -1.37 ✓

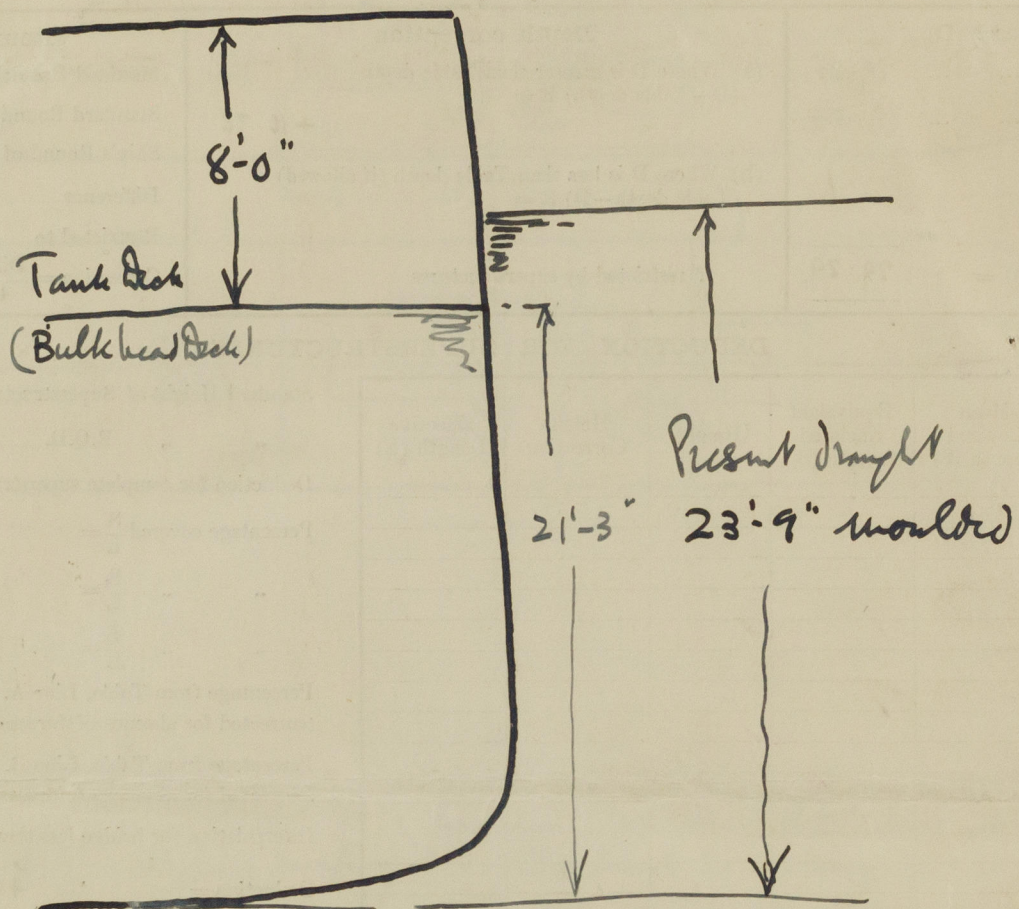
If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>29.29</u> Ft. Summer freeboard = <u>4.65</u> Moulded draught (d) = <u>24.64</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.16</u> = <u>156</u> mm Addition for Winter North Atlantic Freeboard (if required) = <u>3.85</u> = <u>98</u>	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ <u>11055</u> Tons per inch immersion at summer load water line $T =$ <u>39.31</u> Deduction = $\frac{\Delta}{40T}$ inches = <u>7.03</u> = <u>179</u> mm	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient $\frac{.782 + .68}{1.36} = \frac{1.462}{1.36}$ Depth Correction <u>10.72</u> Deduction for superstructures <u>16.91</u> Sheer correction <u>1.37</u> Round of Beam correction... .. <u>.07</u> Correction for Thickness of Deck amidships Other corrections, scantlings, etc. 10.72 18.35 - 7.63 Summer Freeboard = <u>55.84</u> ✓	<u>59.05</u> ✓ <u>63.47</u> ✓
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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	<u>13.19</u> = <u>335</u> mm	Tropical Fresh Water Freeboard	<u>42.65</u> = <u>1083</u> "
Fresh Water Line	<u>7.03</u> = <u>179</u> "	Fresh Water	<u>48.81</u> = <u>1239</u> "
Tropical Line	<u>6.16</u> = <u>156</u> "	Tropical	<u>49.68</u> = <u>1262</u> "
Winter Line below	<u>6.16</u> = <u>156</u> "	Winter	<u>62.00</u> = <u>1574</u> "
Winter North Atlantic Line	<u>10.01</u> = <u>254</u> "	Winter North Atlantic	<u>65.85</u> = <u>1672</u> "

Present foreboard	5'-6½"
Convention cargo foreboard	5'-6¼"
" Tanker "	4'-7¾"



Hatchways on foreboard deck are of normal size and have ordinary wood covers.

24.64
 .17
 24.81

25.00 = 111.45
 .19 = 90
 112.35
 110.55

= .19 x 12 x 39.33



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