

TIMBER.

WITH 10% PENALTY ON SUPER'S ALLOWANCE.

Index. No. _____
(For London Office only.)

Rpt. C. 11

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____
having <u>R. Q. D. ; Bridge Forecastle</u>					Date of Survey <u>18-5-32</u>
(Type of Superstructures.)					Name of Surveyor _____
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification _____
<u>WALMA-AINA</u>					
Moulded Dimensions: Length <u>229.3</u> Breadth <u>34.45</u> Depth <u>18.29</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>469</u>					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D-Table depth) R = <u>5.36</u>	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam =
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Difference Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L}\right) = (-) .01$
Sheathing on exposed deck $T \left(\frac{L-S}{L_1} \right) =$	If restricted by superstructures	
Depth for Freeboard (D) = <u>18.33</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					
Fore enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Standard Height of Superstructure _____
„ „ R.Q.D. _____
Deduction for complete superstructure 28.93
Percentage covered $\frac{S}{L} =$
„ „ $\frac{S_1}{L} =$
„ „ $\frac{E}{L} =$ 58.81
Percentage from Table, Line A.
(corrected for absence of forecastle (if required)) TIMBER
Percentage from Table, Line B.
(corrected for absence of forecastle (if required)) 74.75
Interpolation for bridge less than 2L (if required)
Deduction = .7475 x 28.93 = 21.63

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{6}$ L from A.P.		4					4		
$\frac{2}{6}$ L „		2					2		
Amidships		4					4		
$\frac{2}{6}$ L from F.P.		2					2		
$\frac{1}{6}$ 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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = (-) 1.12$
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. Ft. Depth to Freeboard Deck = <u>18.33</u> Summer freeboard = <u>1.14</u> Moulded draught (d) = <u>14.19</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>4.30 = 109</u> Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 5.73 = 146$	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ <u>3040</u> Tons per inch immersion at summer load water line $T =$ <u>16.5</u> Deduction = $\frac{\Delta}{40 T}$ inches = <u>4.61 = 114</u>	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <u>30.23</u> Depth Correction <u>5.36</u> Deduction for superstructures <u>21.63</u> Sheer correction <u>1.12</u> Round of Beam correction <u>.01</u> Correction for Thickness of Deck amidships Other corrections, scantlings, etc. <u>.88</u> <u>6.24</u> <u>22.76</u> <u>61</u> <u>16.52</u> Summer Freeboard = <u>13.41</u>
--	---	---

TIMBER SUMMER FREEBOARD amidships from top of Deck Line, Steel Deck :- 13.41 = 348 mm

TIMBER Tropical Fresh Water Line above Centre of Disc	<u>364 mm</u>	Tropical Fresh Water Freeboard ...	<u>122</u>
„ Fresh Water Line	<u>258</u>	Fresh Water	<u>231</u>
„ Tropical Line	<u>250</u>	Tropical	<u>239</u>
„ Winter Line below	<u>5</u>	Winter	<u>494</u>
„ Winter North Atlantic Line	<u>216</u>	Winter North Atlantic	<u>405</u>

5m, 3.32 SUMMER ABOVE 141 W451-0122