

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having flush deck

(Type of Superstructures.)

Ship's Name Alcantara Nationality and Port of Registry _____ Official Number _____ Gross Tonnage _____ Date of Build _____

Moulded Dimensions: Length 640 Breadth 78 Depth 44.50

Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons

Coefficient of fineness for use with Tables .7643

Port of Survey _____

Date of Survey 23.1.34

Name of Surveyor _____

Particulars of Classification _____

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>44.50</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>(44.50 - 42.67) x 3 = +7.14</u>	Moulded Breadth (B) _____
Stringer plate <u>.05</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <u>5.64</u>	Standard Round of Beam = $\frac{B \times 12}{50} =$ _____
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ _____	If restricted by superstructures _____	Ship's Round of Beam = _____
Depth for Freeboard (D) = <u>44.55</u>		Difference <u>Standard</u>
		Restricted to _____
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) =$ _____

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>44.50</u>	<u>44.50</u>			
„ overhang	<u>6.07</u>	<u>6.07</u>			
R.Q.D. enclosed	<u>22.25</u>	<u>22.25</u>			
„ overhang					
Bridge enclosed	<u>40.60</u>	<u>40.60</u>			
„ overhang aft	<u>1.01</u>	<u>1.01</u>			
„ overhang forward	<u>1.01</u>	<u>1.01</u>			
F'cle enclosed	<u>127.35</u>	<u>127.35</u>			
„ overhang	<u>1.01</u>	<u>1.01</u>			
Trunk aft	<u>16.77</u>	<u>16.77</u>			
„ forward					
Tonnage opening aft					
„ „ forward					
Total	<u>633</u>	<u>633</u>			

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 = _____

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
L from A.P.		4					4		
L „		2					2		
amidships		4					4		
L from F.P.		2					2		
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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ _____

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.7643 \times .68}{1.30} = \frac{.5198}{1.30} = .3998$
Depth to Freeboard Deck = <u>44.55</u>	$\Delta =$ _____	Depth Correction <u>5.64</u>
Summer freeboard = <u>12.78</u>	Tons per inch immersion at summer load water line	Deduction for superstructures <u>7.14</u>
Moulded draught (d) = <u>32.75</u>	T = _____	Sheer correction <u>-</u>
Deduction for Tropical freeboard and addition for <u>31.77</u>	Deduction = $\frac{\Delta}{40T}$ inches = _____	Round of Beam correction <u>-</u>
Winter freeboard = $\frac{d}{4}$ inches = _____		Correction for Thickness of Deck amidships <u>-</u>
Addition for Winter North Atlantic Freeboard (if required) = _____		Other corrections, scantlings, etc. <u>5.64</u>
		Summer Freeboard = <u>154.84</u>

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 „ „