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# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. \_\_\_\_\_  
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____
having <u>poop, bridge, forecastle.</u>					Date of Survey <u>23.1.34</u>
(Type of Superstructures.)					Name of Surveyor _____
Ship's Name <u>Alcantara</u>	Nationality and Port of Registry	Official Number	Gross Tonnage <u>44.50</u>	Date of Build	
Moulded Dimensions: Length <u>640</u>	Breadth <u>78</u>	Depth <u>45</u>			
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>.764 .763</u>					

<b>Depth for Freeboard (D)</b>	<b>Depth correction</b>	<b>Round of Beam correction</b>
Moulded depth ... <u>45.00</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>(45.00 - 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 =	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 = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<u>44.50</u>	<u>44.50</u>			<u>44.50</u>
" overhang ...	<u>6.07</u>	<u>3.03</u>			<u>3.03</u>
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed. <u>equivalent</u>	<u>409.06</u>	<u>409.06</u>			<u>409.06</u>
" overhang aft ...	<u>12.45</u>	<u>9.34</u>			<u>9.34</u>
" overhang forward ...	<u>1.01</u>	<u>.50</u>			<u>.50</u>
F'cle enclosed ...	<u>127.35</u>	<u>127.35</u>			<u>127.35</u>
" overhang ...	<u>1.01</u>	<u>1.01</u>			<u>1.01</u>
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	<u>601.45</u>	<u>594.79</u>			<u>594.79</u>

Standard Height of Superstructure	<u>7.5</u>
" " R.Q.D.	
Deduction for complete superstructure	<u>42</u>
Percentage covered $\frac{S}{L} =$	<u>93.97</u>
" " $\frac{S_1}{L} =$	<u>92.92</u>
" " $\frac{E}{L} =$	<u>92.92</u>
Percentage from Table, Line A. ✓	
(corrected for absence of forecastle (if required))	
Percentage from Table, Line B. <u>91.29</u>	
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction = <u>42 + .9129 = -38.34</u>	

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

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 = 44.55  
Summer freeboard = 9.74  
Moulded draught (d) = 35.34

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	$\frac{.764 + .08}{1.36} = \frac{.844}{1.36}$	
Depth Correction ...	<u>7.14</u>	
Deduction for superstructures ...		<u>38.34</u>
Sheer correction ...		
Round of Beam correction ...		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		

Summer Freeboard = 116.50

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

Tropical Fresh Water Line above Centre of Disc ...	
Fresh Water Line " " ...	
Tropical Line " " ...	
Winter Line below " " ...	
Winter North Atlantic Line " " ...	

Tropical Fresh Water Freeboard ...	
Fresh Water " " ...	
Tropical " " ...	
Winter " " ...	
Winter North Atlantic " " ...	

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