

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

30524

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having _____

Port of Survey _____

(Type of Superstructures.) _____

Date of Survey 23/1/34

Name of Surveyor _____

Particulars of Classification _____

Ship's Name <u>Alcantara</u>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
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Moulded Dimensions: Length 640 Breadth 78 Depth 34.58

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

Coefficient of fineness for use with Tables 738.739 tons

<p>Depth for Freeboard (D) <u>34.58</u></p> <p>Moulded depth</p> <p>stringer plate <u>.04</u></p> <p>beathing on exposed deck</p> <p>$T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = <u>34.62</u></p>	<p>Depth correction</p> <p>(a) Where D is greater than Table depth (D-Table depth) R =</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>(42.67-34.62)33</u></p> <p><u>8.05 = -24.15</u></p> <p>If restricted by superstructures</p>	<p>Round of Beam correction</p> <p>Moulded Breadth (B)</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam = <u>Standard</u></p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>Nil</u></p>
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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					
Fore enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward					
Total					

Standard Height of Superstructure 7'-6"

„ „ R.Q.D. _____

Deduction for complete superstructure 42.00

Percentage covered $\frac{S}{L} =$

„ „ $\frac{S_1}{L} =$ } 100%

„ „ $\frac{E}{L} =$

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 = 42

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
... ..		1			<u>+6</u>		1		
from A.P.		4					4		
„		2					2		
amidships		4					4		
from F.P.		2					2		
„		4					4		
... ..		1					1		
Total					<u>+6</u>				

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$.50"

If limited on account of midship superstructure. ☒

If limited to maximum allowance of 1½ ins. per 100 ft. ☒

<p>Correction for Tropical Freeboard.</p> <p>Correction for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <u>34.62</u> Ft.</p> <p>Summer freeboard = <u>6.54</u></p> <p>Moulded draught (d) = <u>28.08</u></p> <p>Correction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =</p> <p>Correction for Winter North Atlantic Freeboard (if required) =</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p> <p>Deduction = $\frac{\Delta}{40T}$ inches</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{1419}{1360}$</p> <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr><td>Depth Correction</td><td></td><td><u>24.15</u></td></tr> <tr><td>Deduction for superstructures</td><td></td><td><u>42.00</u></td></tr> <tr><td>Sheer correction</td><td></td><td><u>.50</u></td></tr> <tr><td>Round of Beam correction</td><td></td><td></td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td></td><td></td></tr> <tr><td>Other corrections, scantlings, etc.</td><td></td><td></td></tr> <tr><td>Summer Freeboard =</td><td><u>66.65</u></td><td><u>66.65</u></td></tr> </tbody> </table> <p>Summer Freeboard = <u>78.47</u></p>		+	-	Depth Correction		<u>24.15</u>	Deduction for superstructures		<u>42.00</u>	Sheer correction		<u>.50</u>	Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.			Summer Freeboard =	<u>66.65</u>	<u>66.65</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	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "

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