

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having a C.S.S.

(Type of Superstructures.)

Port of Survey \_\_\_\_\_

Date of Survey 23.1.34

Name of Surveyor \_\_\_\_\_

Particulars of Classification \_\_\_\_\_

Ship's Name Alcantara

Nationality and Port of Registry \_\_\_\_\_

Official Number \_\_\_\_\_

Gross Tonnage 36.50

Date of Build \_\_\_\_\_

Moulded Dimensions: Length 640 Breadth 78 Depth 37' assumed

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

Coefficient of fineness for use with Tables 1.746 ✓

**Depth for Freeboard (D)**

Moulded depth ... 36.50

Keel plate ... 0.04

Heating on exposed deck

$T \left( \frac{L-S}{L} \right) =$

Depth for Freeboard (D) = 36.54

**Depth correction**

(a) Where D is greater than Table depth (D-Table depth) R =

(b) Where D is less than Table depth (if allowed) (Table depth - D) × 3 = 18.39 ✓

If restricted by superstructures

**Round of Beam correction**

Moulded Breadth (B)

Standard Round of Beam =  $\frac{B \times 12}{50} =$

Ship's Round of Beam =

Difference

Restricted to

Correction =  $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
Forecastle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...					

Standard Height of Superstructure 7.5

„ „ R.Q.D. \_\_\_\_\_

Deduction for complete superstructure 42

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 = -42 ✓

### SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
... ..		1				1	
from A.P. ...		4				4	
„ ...		2				2	
amidships ...		4				4	
from F.P. ...		2				2	
„ ...		4				4	
... ..		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 1½ ins. per 100 ft.

**Deduction for Tropical Freeboard.**

**Deduction for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = 37.09 ✓

Summer freeboard = 7.28 ✓

Moulded draught (d) = 29.84

Correction for Tropical freeboard and addition for Winter freeboard = 29.76

Winter freeboard =  $\frac{d}{4}$  inches = 29.46

Correction for Winter North Atlantic Freeboard (if required) =

**Deduction for Fresh Water.**

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction =  $\frac{\Delta}{40T}$  inches =

**TABULAR FREEBOARD corrected for Flush Deck (if required)**

Correction for coefficient  $\frac{746 + 68}{1.36} = \frac{1426}{1.36}$

	+	-
Depth Correction ...		<u>18.39</u>
Deduction for superstructures ...		<u>42.00</u>
Sheer correction ...		<u>5.50</u>
Round of Beam correction ...		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc. ...		<u>60.89</u>
Summer Freeboard		<u>86.41</u> ✓

139.10

145.80 ✓

84.91

### 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 „ „ ...	...