

SS "WAIKOUAITI"

Rpt. C.11.

# Lloyd's Register of Shipping.

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

## SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having \_\_\_\_\_

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

(Type of Superstructures.) \_\_\_\_\_

Date of Survey \_\_\_\_\_

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

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

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

Moulded Dimensions: Length \_\_\_\_\_ Breadth \_\_\_\_\_ Depth \_\_\_\_\_

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

Coefficient of fineness for use with Tables \_\_\_\_\_

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... ..	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate ... ..	(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) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) =$

### 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					
F'cle enclosed ... ..					
"  overhang ... ..					
Trunk aft ... ..					
"  forward ... ..					
Tonnage opening aft ...					
"  "  forward					
Total ... ..					

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		
$\frac{1}{4}$ L from A.P. ... ..		4					4		
$\frac{2}{4}$ L " ... ..		2					2		
Amidships ... ..		4					4		
$\frac{2}{4}$ L from F.P. ... ..		2					2		
$\frac{1}{4}$ L " ... ..		4					4		
F.P. ... ..		1					1		
Total ... ..									

Mean actual sheer aft =  $\frac{\text{Mean actual product}}{\text{Mean standard product}}$

Mean actual sheer forward =  $\frac{\text{Mean actual product}}{\text{Mean standard product}}$

Length of enclosed superstructure forward of amidships =  $\frac{\text{Product}}{L}$

" " aft of " =

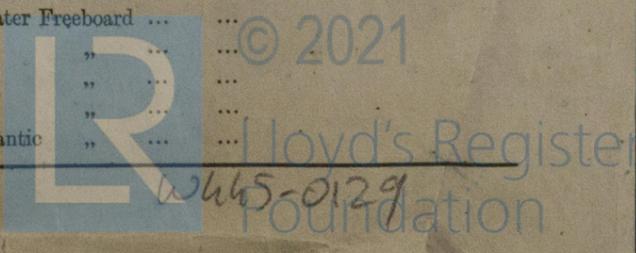
Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$

If limited on account of midship superstructure. If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

<p><b>Deduction for Tropical Freeboard.</b></p> <p><b>Addition for Winter and Winter North Atlantic Freeboard.</b></p> <p>Depth to Freeboard Deck = Ft. _____</p> <p>Summer freeboard = _____</p> <p>Moulded draught (d) = _____</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = <math>\frac{d}{4}</math> inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p><b>Deduction for Fresh Water.</b></p> <p>Displacement in salt water at summer load water line</p> <p><math>\Delta =</math> _____</p> <p>Tons per inch immersion at summer load water line</p> <p>T = _____</p> <p>Deduction = <math>\frac{\Delta}{40T}</math> inches = _____</p>	<p><b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required)</p> <p>Correction for coefficient</p> <table border="1"> <tr><td></td><td>+</td><td>-</td></tr> <tr><td>Depth Correction ... ..</td><td></td><td></td></tr> <tr><td>Deduction for superstructures ... ..</td><td></td><td></td></tr> <tr><td>Sheer correction ... ..</td><td></td><td></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> </table> <p>Summer Freeboard = _____</p>		+	-	Depth Correction ... ..			Deduction for superstructures ... ..			Sheer correction ... ..			Round of Beam correction ... ..			Correction for Thickness of Deck amidships ... ..			Other corrections, scantlings, etc. ... ..		
	+	-																					
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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 " " ... ..



PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Description of Hatchway	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
COAMINGS	}	Height above Deck	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Thickness	Sides	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
			Ends	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Stiffeners	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brackets, Stays	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
HATCH BEAMS	}	Number	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Spacing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Scantling and Sketch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bearing Surface	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
FORE AND AFTERS	}	Number	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Spacing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Unsupported Lengths	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Scantling* and Sketch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bearing Surface	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
HATCH COVERS	}	Material	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Thickness	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		How fitted	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bearing Surface	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Spacing of Cleats	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Number of Tarpaulins	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
*Are wood fore and afters steel shod at all bearing surfaces? Are battens and wedges efficient and in good condition? Are tarpaulins in good condition and in accordance with rule requirements? Are lashings provided in accordance with rule requirements?																					

Particulars of fiddle, funnel and ventilator coamings :—


Particulars of Flush Bunker Scuttles :—

WATERWAYS


Particulars of Companionways :—


Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—


Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :—


Particulars of Gangway Cargo and Coaling Ports :—




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