

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. **32643**
(For London Office only.)

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~
Poop & Forecastle.

Port of Survey _____

Date of Survey **20-4-32**

Name of Surveyor _____

Particulars of Classification **100A.1.**

(Type of Superstructures.) _____

Ship's Name **TOTNES.** Nationality and Port of Registry **BRITISH LONDON.** Official Number **143345** Gross Tonnage **283** Date of Build **1918**

Moulded Dimensions: Length **125.0** Breadth **21.33** Depth **10.70**

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

Efficient of fineness for use with Tables **.77**

Depth for Freeboard (D)	Depth correction	Round of Beam correction
depth	(a) Where D is greater than Table depth (D-Table depth) R = +2.32	Moulded Breadth (B)
plate	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
on exposed deck $\left(\frac{L-S}{L}\right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = 10.74		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) =$ -.01

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure
					" " R.Q.D. _____
Enclosed					Deduction for complete superstructure 18.50
Overhang					Percentage covered $\frac{S}{L} =$
D. enclosed					" " $\frac{S_1}{L} =$
Overhang					" " $\frac{E}{L} =$ 51.30 ✓
Large enclosed... ..					Percentage from Table, Line A.
Overhang aft					(corrected for absence of forecastle (if required))
Overhang forward					Percentage from Table, Line B. TIMBER 70.06 ✓
Enclosed					(corrected for absence of forecastle (if required))
Overhang					Interpolation for bridge less than .2L (if required) ✓
Deck aft					Deduction = 18.50 x 70.06 = -12.96 ✓
Forward					
Deck opening aft					
" forward					
Total					

SHEER CORRECTION.

Position	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	Mean actual sheer aft =
...		1					1			Mean actual sheer forward =
A.P. ...		4					4			Mean standard sheer aft =
...		2					2			Mean standard sheer forward =
S ...		4					4			Length of enclosed superstructure forward of amidships =
F.P. ...		2					2			" " aft of " =
...		4					4			
...		1					1			
Total ...										

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

Limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Correction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = 10.74 ✓	$\Delta =$	
Summer freeboard = .23 ✓	Tons per inch immersion at summer load water line	Depth Correction 2.32 ✓
Moulded draught (d) = 10.51 ✓	T =	Deduction for superstructures -12.96
Correction for Tropical freeboard and addition for freeboard = $\frac{d}{4}$ inches = 2.63 = 2 3/4 ✓	Deduction = $\frac{\Delta}{40T}$ inches = 2 3/4 ✓	Sheer correction -
Correction for Winter North Atlantic Freeboard (if added) = $\frac{d}{3} =$ 3.50 = 3 1/2 ✓		Round of Beam correction01
		Correction for Thickness of Deck amidships -
		Other corrections, scantlings, etc. -
		2.32 12.97 -10.65
		Summer Freeboard = 2.68 ✓

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

TROPICAL	WINTER
Tropical Fresh Water Line above Centre of Disc ... 9 3/4 ✓	Tropical Fresh Water Freeboard ... MINUS - 3/4 ✓
" Fresh Water Line " " ... 9" ✓	" Fresh Water " " ... NIL ✓
" Tropical Line " " ... 7" ✓	" (LIMITED) 2" " " ... 2" ✓
" Winter Line ^{ABOVE} " " ... 2 3/4" ✓	" Winter " " ... 0' 6 1/4" ✓
" Winter North Atlantic Line ^{BELOW} " " ... 5" ✓	" Winter North Atlantic " " ... 1' 2" ✓
" SUMMER ^{ABOVE} " " ... 6 1/4" ✓	

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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 fiddley, funnel and ventilator coamings:—

Particulars of Flush Bunker Scuttles:—

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:—

Particulars of Scuppers and Sanitary Discharge Pipes

Particulars of Side Scuttles:—

Particulars of Guard Rails:—

Particulars of Gangways, Lifelines, etc.:—

RETAIN

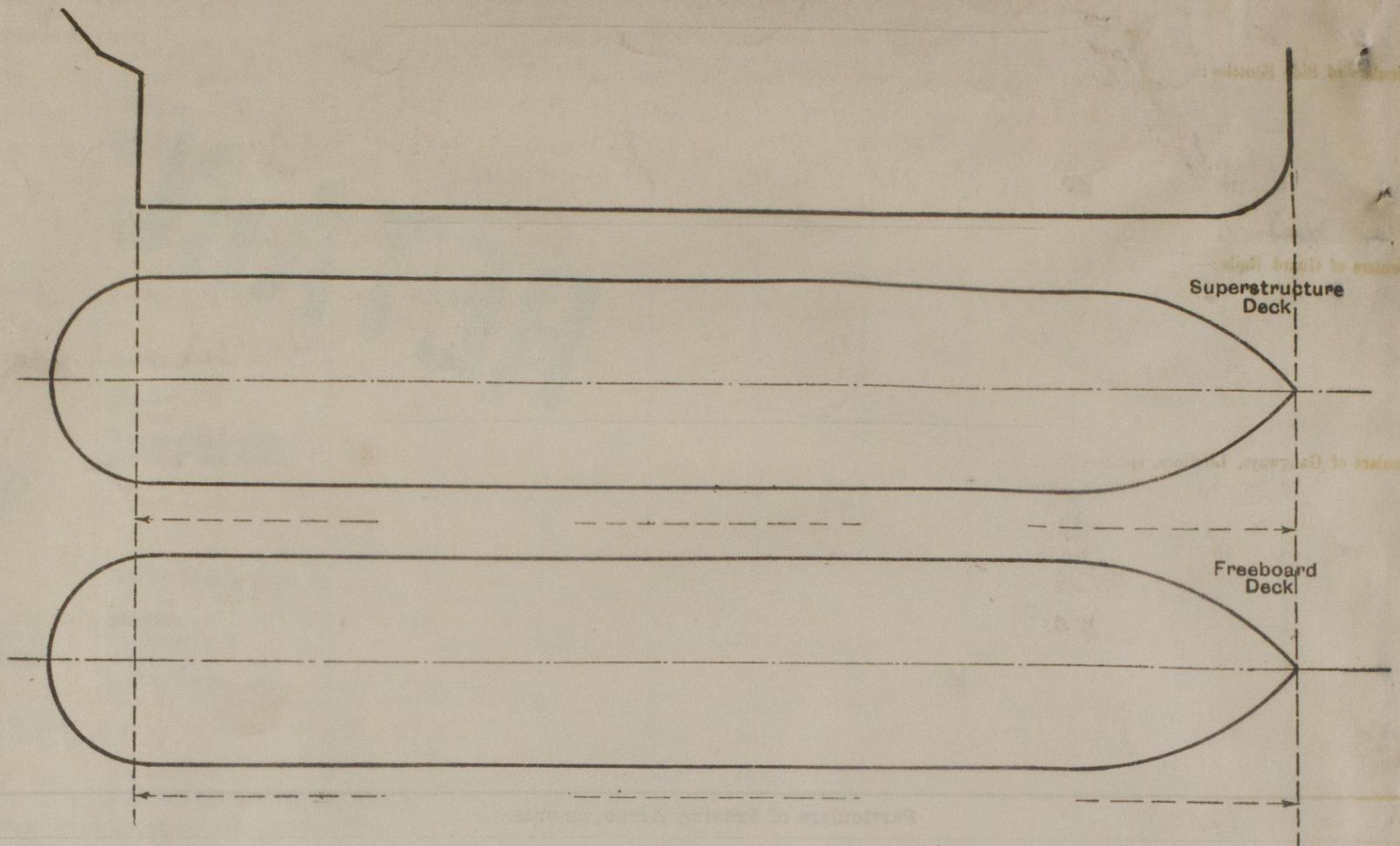
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well
Forward Well

State position of each freeing port ... After Well:—
 (F. and A. position and height above deck edge) Forward Well:—
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—
 Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead
Raised Quarter Deck Bulkhead
Bridge, After Bulkhead
Bridge, Forward Bulkhead
Forecastle Bulkhead
Trunk, Aft
Trunk, Forward
Exposed Machinery Casings on Freeboard or Raised Quarter Decks
Exposed Machinery Casings on Superstructure Decks
Machinery Casings within Superstructures not fitted with Class I Closing Appliances
Deckhouses on Flush Deck Ships

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	...
Raised Quarter Deck Bulkhead	...
Bridge, After Bulkhead	...
Bridge, Forward Bulkhead	...
Forecastle Bulkhead	...
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...
Exposed Machinery Casings on Superstructure Decks	...
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...
Deckhouses on Flush Deck Ships	...

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

Builder's name and yard number.....

Names of sister ships.....

Owners.....

Fee £.....

Received by me.....



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