

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker
ving Poof & Forecastle.

(Type of Superstructures.)

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

Date of Survey 20-4-32

Name of Surveyor _____

Particulars of Classification 100A.1.

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

<p>Depth for Freeboard (D)</p> <p>depth</p> <p>plate</p> <p>ing on exposed deck ($\frac{L-S}{L}$) =</p> <p>Depth for Freeboard (D) = <u>10.74</u></p>	<p>Depth correction</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = <u>+2.32</u></p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R =</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 =</p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^e}{4} \times (1 - \frac{S_1}{L})$ = <u>-.01</u></p>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Enclosed ...					
Overhang ...					
D. enclosed ...					
Overhang ...					
Large enclosed ...					
Overhang aft ...					
Overhang forward ...					
Enclosed ...					
Overhang ...					
Enclosed ...					
Forward ...					
Enclosed ...					
Forward ...					
Enclosed ...					
Forward ...					
Total ...					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure 18.50

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

" " $\frac{S_1}{L}$ =

" " $\frac{E}{L}$ = 51.30 ✓

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. TIMBER 70.06 ✓
(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required) ✓

Deduction = 18.50 x 70.06 = -12.96 ✓

SHEER CORRECTION.

ion	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
...		1					1		
A.P. ...		4					4		
...		2					2		
S ...		4					4		
F.P. ...		2					2		
...		4					4		
...		1					1		
tal ...									

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

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

<p>on for Tropical Freeboard.</p> <p>n for Winter and Winter North</p> <p>ic Freeboard.</p> <p>Depth to Freeboard Deck = <u>10.74</u> ✓</p> <p>Summer freeboard = <u>23</u> ✓</p> <p>Moulded draught (d) = <u>10.51</u> ✓</p> <p>for Tropical freeboard and addition for</p> <p>Freeboard = $\frac{d}{4}$ inches = <u>2.63 = 2¾</u> ✓</p> <p>for Winter North Atlantic Freeboard (if</p> <p>ed = $\frac{d}{3} = 3.50 = 3½$ ✓</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>Δ =</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p> <p>Deduction = $\frac{\Delta}{40T}$ inches = <u>2¾</u> ✓</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient</p> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>Depth Correction ...</td><td><u>2.32</u> ✓</td></tr> <tr><td>Deduction for superstructures ...</td><td><u>12.96</u></td></tr> <tr><td>Sheer correction ...</td><td><u>.01</u></td></tr> <tr><td>Round of Beam correction ...</td><td><u>.01</u></td></tr> <tr><td>Correction for Thickness of Deck amidships ...</td><td><u>-</u></td></tr> <tr><td>Other corrections, scantlings, etc. ...</td><td><u>-</u></td></tr> <tr><td>Summer Freeboard =</td><td><u>2.68</u> ✓</td></tr> </table>	+	-	Depth Correction ...	<u>2.32</u> ✓	Deduction for superstructures ...	<u>12.96</u>	Sheer correction ...	<u>.01</u>	Round of Beam correction ...	<u>.01</u>	Correction for Thickness of Deck amidships ...	<u>-</u>	Other corrections, scantlings, etc. ...	<u>-</u>	Summer Freeboard =	<u>2.68</u> ✓
+	-																	
Depth Correction ...	<u>2.32</u> ✓																	
Deduction for superstructures ...	<u>12.96</u>																	
Sheer correction ...	<u>.01</u>																	
Round of Beam correction ...	<u>.01</u>																	
Correction for Thickness of Deck amidships ...	<u>-</u>																	
Other corrections, scantlings, etc. ...	<u>-</u>																	
Summer Freeboard =	<u>2.68</u> ✓																	

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

TIMBER Tropical Fresh Water Line above Centre of Disc ...	<u>9¾</u> ✓	TIMBER Tropical Fresh Water Freeboard ...	<u>0-2¾</u> ✓
" Fresh Water Line " "	<u>9</u> ✓	" Fresh Water " "	<u>NIL</u>
" Tropical Line " "	<u>7</u> ✓	" Tropical " "	<u>(LIMITED) 2</u> ✓
" Winter Line " "	<u>2¾</u> ✓	" Winter " "	<u>0-6¼</u> ✓
" Winter North Atlantic Line " "	<u>5</u> ✓	" Winter North Atlantic " "	<u>1-2</u> ✓
" SUMMER ABOVE.	<u>6¼</u> ✓		

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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								
HATCH BEAMS	Stiffeners								
	Brackets, Stays								
	Number								
	Spacing								
FORE AND AFTERS	Scantling and Sketch								
	Bearing Surface								
	Number								
	Spacing								
HATCH COVERS	Unsupported Lengths								
	Scantling* and Sketch								
	Bearing Surface								
	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	



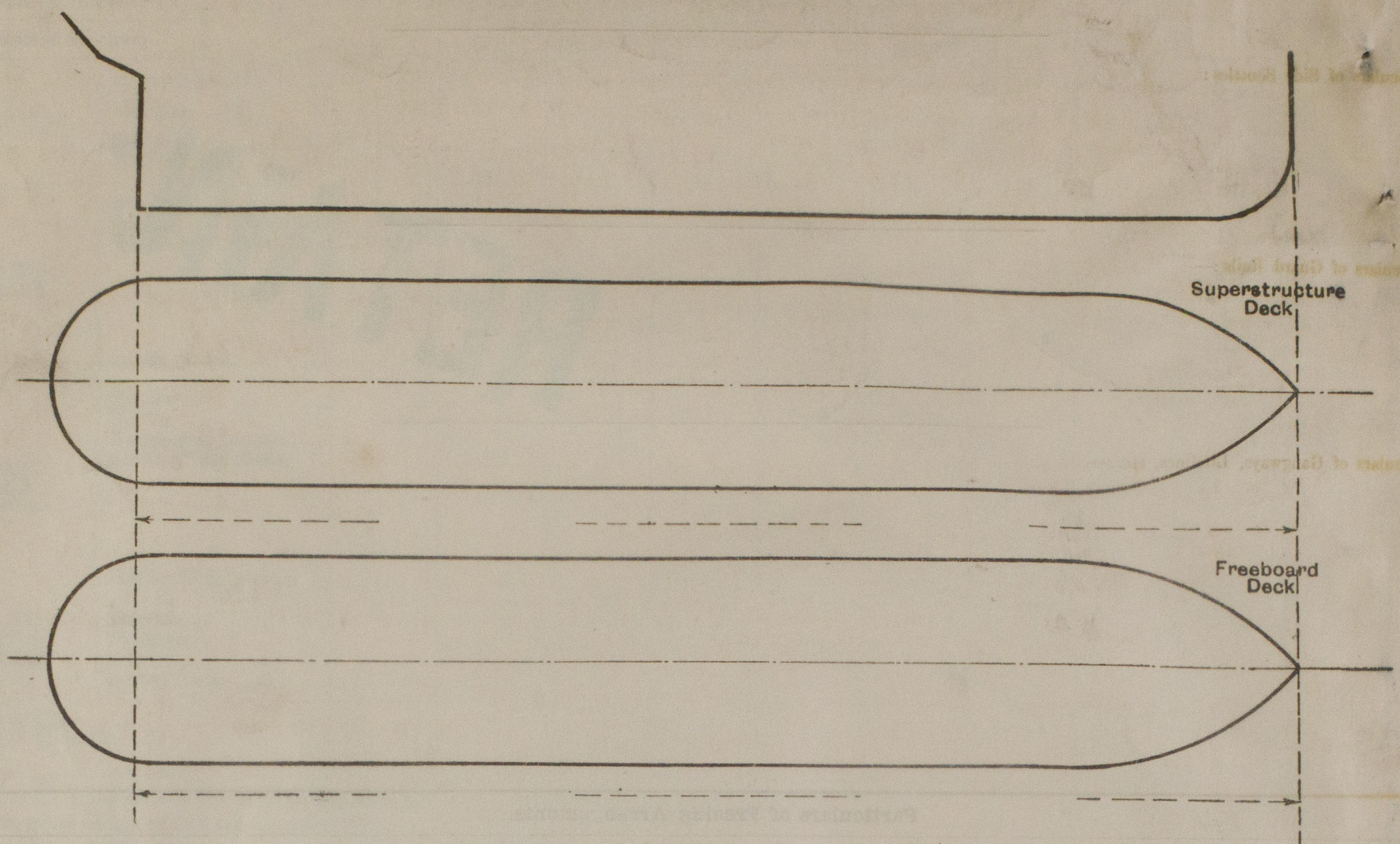
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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the 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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