

W.R. Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. 19813.
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having *a raised quarter-deck, bridge and fore-castle*

(Type of Superstructures.)

Ship's Name *Oneida* Nationality and Port of Registry *London* Official Number *125733* Gross Tonnage *675.45* Date of Build *1908*

Moulded Dimensions: Length *165.0* Breadth *32.33* Depth *12.75*

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

Coefficient of fineness for use with Tables *.76 (estimated)*

Port of Survey

Date of Survey *30-4-36*

Name of Surveyor

Particulars of Classification *+100A*

Depth for Freeboard (D)		Depth correction	Round of Beam correction
Moulded depth	12.75	(a) Where D is greater than Table depth $(D - \text{Table depth}) R = \sqrt{(12.75 - 11.00) \times 1.269} = +2.26$	Moulded Breadth (B) <i>32.33</i>
Stringer plate	.03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 7.76$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures	Ship's Round of Beam = <i>8.25</i>
Depth for Freeboard (D) =	12.78		Difference = <i>.49</i>
			Restricted to
			Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.49^2}{4} \times \frac{37.74}{32.33} = -.05$

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 ...	62.62	62.62	3.5		62.62
" overhang ...					
Bridge enclosed ...	14.79	14.79	6.71		14.79
" overhang aft ...					
" overhang forward ...					
Fore enclosed <i>equivalent</i> ...	24.97	24.97	7.0		24.97
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	102.38	102.38			102.38

Standard Height of Superstructure	6.0
" " R.Q.D.	3.433
Deduction for complete superstructure	22.5
Percentage covered $\frac{S}{L} =$	62.06
" " $\frac{S_1}{L} =$	62.06
" " $\frac{E}{L} =$	62.06
Percentage from Table, Line A.	49.50
(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 =	22.5 × 49.5 = -11.14

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	26.50	1		26.50	27.00	27.00	1		27.00
1/4 L from A.P. ...	11.79	4		47.16	12.64	12.64	4		50.56
1/2 L " ...	2.915	2		5.83	3.16	3.16	2		6.32
Amidships ...	-	4		-	-	-	4		-
3/4 L from F.P. ...	5.83	2		11.66	6.32	6.32	2		12.64
1/4 L " ...	23.58	4		94.32	25.28	25.28	4		101.12
F.P. ...	53.00	1		53.00	54.00	54.00	1		54.00
Total ...	238.50			238.47					251.64

Mean actual sheer aft = *Excess*
Mean standard sheer aftMean actual sheer forward = *Excess*
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = *Nil*
" " aft of " = *.069 L*Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{13.17}{18} = .732$ If limited on account of midship superstructure. $32 \times \frac{.069}{20} = .11$

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.Depth to Freeboard Deck = *12.78*
Summer freeboard = *.79*
Moulded draught (d) = *11.99*Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = *2.99 = 3*
Addition for Winter North Atlantic Freeboard (if required) = *5*

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

T =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	2.26	-
Deduction for superstructures	-	11.14
Sheer correction	0.05	-
Round of Beam correction	0.11	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	2.26	11.30

Summer Freeboard = *9.59*SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, *Wood, Steel, Deck* :-

Tropical Fresh Water Line above Centre of Disc	6
Fresh Water Line	3
Tropical Line	3
Winter Line below	3
Winter North Atlantic Line	5

Tropical Fresh Water Freeboard	8.25
Fresh Water	0.62
Tropical	0.62
Winter	1.25
Winter North Atlantic	2.50

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											

Particulars as per original report -

There are no openings in the Freeboard Deck within the Bridge Space.

*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 :—

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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Particulars of Scuppers and Sanitary Discharge Pipes :—

There are no scupper pipes led to the
belgin
Scupper from freeboard deck are provided
with storm valves at the ship side

Particulars of Side Scuttles :—

Particulars of Guard Rails :—

Particulars of Gangways, Lifelines, etc. :—

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						4'-0" x 3'-0" 2nd fl	15"	
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super- structure Decks								
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships ...								

Particulars as before
except

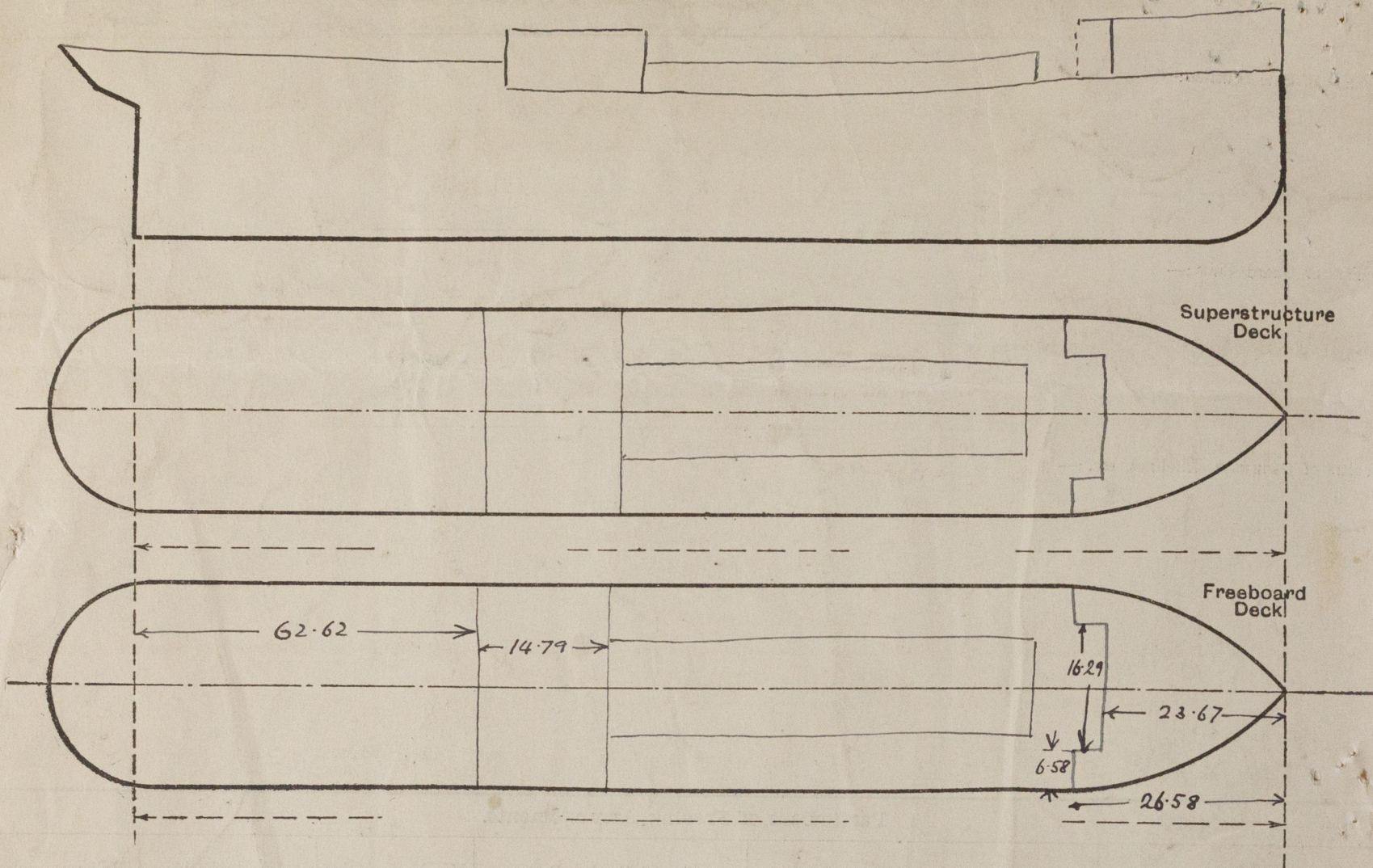
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	
Raised Quarter Deck Bulkhead ...	No openings
Bridge, After Bulkhead	No openings
Bridge, Forward Bulkhead	Openings closed with portable plates & hook bolts
Forecastle Bulkhead	Hinged wood doors
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Super- structure Decks	✓
Machinery Casings within Superstruc- tures 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:—

File

$$\begin{array}{r} 26.58 \\ \text{Reins } 2.91 \times 16.29 = - 1.61 \\ \hline 29.45 \quad 24.97 \end{array}$$

Raised quarter deck 62.62 ✓
Bridge 14.79 ✓
 77.41 ✓
 ÷ 165 = 469 ✓
 ∴ full length of bridge

Builder's name and yard number

Names of sister ships

Owners

Fee £

Received by me



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