

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker having <u>a flush deck, without forecabin</u> (Type of Superstructures.) (Cable ship)					Port of Survey
Ship's Name <u>All America</u>					Date of Survey <u>16-7-31</u>
Nationality and Port of Registry <u>U.S.A. New York</u>		Official Number	Gross Tonnage	Date of Build <u>1921</u>	Name of Surveyor
Moulded Dimensions: Length <u>269.75</u> Breadth <u>36.83</u> Depth <u>24.75</u>					Particulars of Classification <u>+100 A.1.</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					<u>Awning deck, with fbd.</u>
Coefficient of fineness for use with Tables					

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	24.75	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	36.83
Stringer plate	.04	(24.79 - 14.98) 2.075		Standard Round of Beam = $\frac{B \times 12}{50}$	8.84
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	9.0
$T \left(\frac{L-S}{L} \right) =$				Difference	.16
Depth for Freeboard (D) =	24.79	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.16}{4} \times .716 = -.03$

Particulars of Bridges and openings checked					DEDUCTION FOR SUPERSTRUCTURES.	
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure <u>6.21</u>
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure <u>33.07</u>
" overhang						Percentage covered $\frac{S}{L} =$ <u>28.4%</u>
Bridge enclosed	76.67	57.50	7.6		57.50	" " $\frac{S_1}{L} =$ <u>21.3%</u>
" overhang aft						" " $\frac{E}{L} =$ <u>21.3%</u>
" overhang forward						Percentage from Table, Line A. (corrected for absence of forecabin (if required))
Forecastle enclosed						Percentage from Table, Line B. <u>13.52 - 5% (7.02)</u> (corrected for absence of forecabin (if required)) = <u>8.52</u>
" overhang						Interpolation for bridge less than 2L (if required) <u>.213</u>
Trunk aft						Deduction = <u>33.07</u> $\times .0852 = - 2.82$
" forward						
Tonnage opening aft						
" " forward						
Total	76.67	57.50			57.50	

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	36.97	1		24.0	24.0	1	24.0
$\frac{1}{8}L$ from A.P.		4		8.1	8.1	4	32.4
$\frac{2}{8}L$ "		2		2.02	2.02	2	4.0
Amidships		4		-	-	4	-
$\frac{3}{8}L$ from F.P.		2		7.8	7.8	2	15.6
$\frac{1}{6}L$ "	32.90	4		31.2	31.2	4	124.8
F.P.	73.94	1		65.5	65.5	1	65.5
Total			332.73				266.3
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{66.43}{18} \left(.75 - \frac{.142}{.608} \right) = + 2.24$							
If limited on account of midship superstructure.							
If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.							

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.		Deduction for Fresh Water.		TABULAR FREEBOARD corrected for Flush Deck (if required)	
Ft.		Displacement in salt water at summer load water line		Correction for coefficient	
Depth to Freeboard Deck =		$\Delta =$		Depth Correction ... 14.13	
Summer freeboard =		Tons per inch immersion at summer load water line		Deduction for superstructures ... 2.82	
Moulded draught (d) =		$T =$		Sheer correction ... 2.24	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =		Deduction = $\frac{\Delta}{40T}$ inches		Round of Beam correction ... .03	
Addition for Winter North Atlantic Freeboard (if required) =				Correction for Thickness of Deck amidships ...	
				Other corrections, scantlings, etc. ...	
				16.34 2.85 +13.52	
				Summer Freeboard =	

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

Tropical Fresh Water Line above Centre of Disc	...
Fresh Water Line	"
Tropical Line	"
Winter Line	below
Winter North Atlantic Line	"

Tropical Fresh Water Freeboard	...
Fresh Water	"
Tropical	"
Winter	"
Winter North Atlantic	"

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Lloyd's Register
Foundation

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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	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Scantling and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
FORE AND AFTERS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Unsupported Lengths	...	...	...	...	...	...	...	...
	Scantling* and Sketch	...	...	...	...	...	...	...	...
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 :—

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. :—

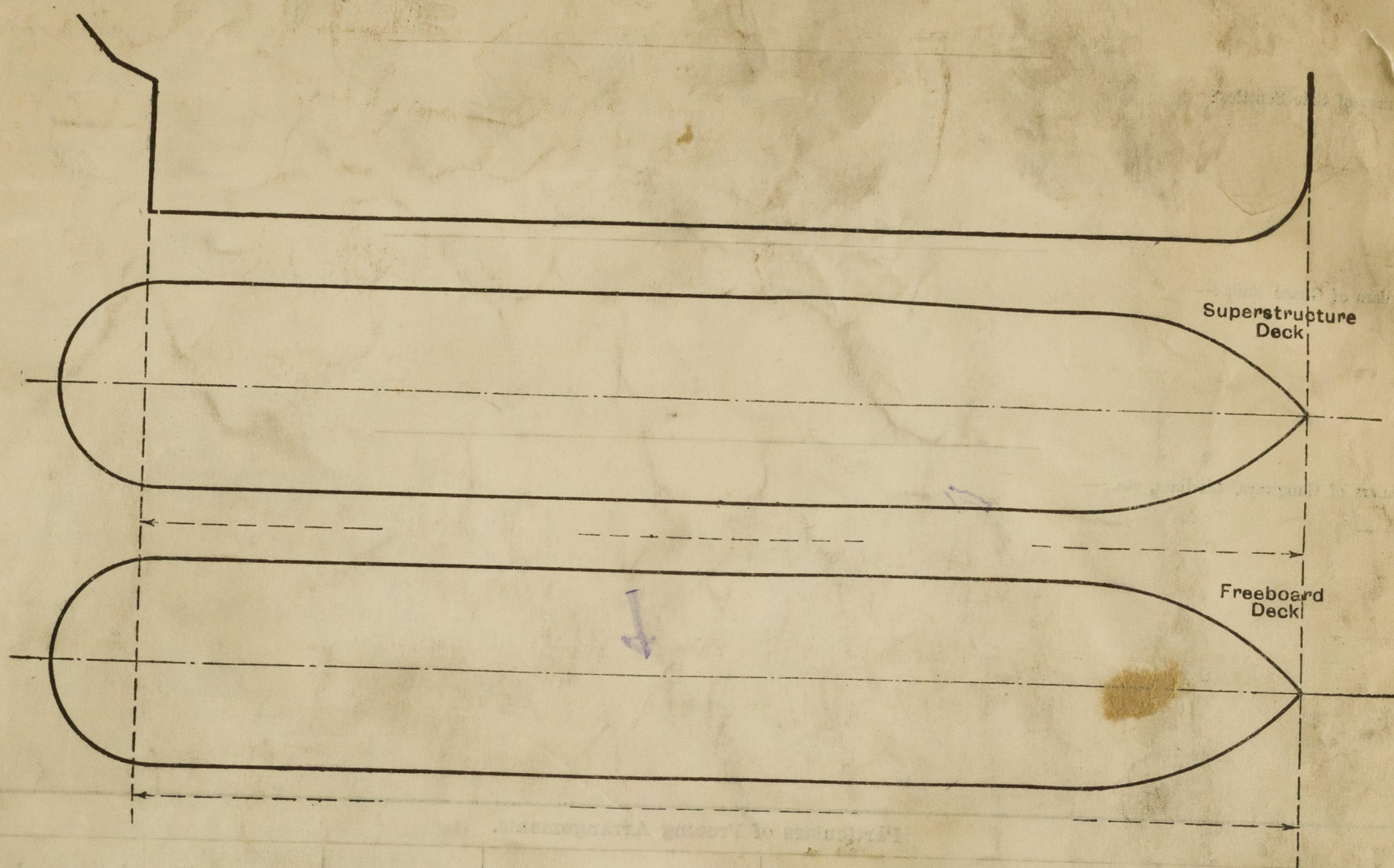
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ...						
Forward Well ...						

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.

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