

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for ~~Steamer, Sailing Ship, Tanker~~ ^{Motor}

having poop, bridge & focale

Port of Survey Bothamby

(Type of Superstructures.)

Date of Survey 16.6.31

Ship's Name Mrs. JOSIAH MACY
Nationality and Port of Registry Danzig
Official Number
Gross Tonnage
Date of Build

Name of Surveyor Geo. Webster

Moulded Dimensions: Length 128.0 m Breadth 17.37 m Depth 9.60 m
Moulded displacement at moulded draught = 85 per cent. of moulded depth 15120 metric tons
Coefficient of fineness for use with Tables .813

Particulars of Classification 1105 A1
Carrying pet. in bulk. Long. framing.

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 = <u>.356</u>
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>29.79</u>		<u>2.44</u>		
„ overhang					
R.Q.D. enclosed					
„ overhang			<u>2.57</u>		
Bridge enclosed... ..	<u>10.37</u>		<u>2.44</u>		
„ overhang aft	<u>1.05</u>				
„ overhang forward	<u>1.05</u>				
F'cle enclosed	<u>11.28</u>		<u>2.44</u>		
„ 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		<u>1.588</u>		1	
„ L from A.P.		4		<u>.610</u>		4	
„ „ „		2		<u>.127</u>		2	
„ amidships		4		<u>-</u>		4	
„ L from F.P.		2		<u>.343</u>		2	
„ „ „		4		<u>1.447</u>		4	
„ F.P.		1		<u>3.302</u>		1	
Total							

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

If limited on account of midship superstructure.

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

„ „ aft of „ =

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

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = Ft.
Summer freeboard =
Moulded draught (d) =

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =
Addition for Winter North Atlantic Freeboard (if required) =

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
Deduction for superstructures
Sheer correction
Round of Beam correction
Correction for Thickness of Deck amidships
Other corrections, scantlings, etc.

+	-

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	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			To Dry Cargo Hold fwd.	To Pump Room fwd.	To two Offenders forward P.S.S.	O.T. hatches to Cr. Tanks P.S.S.	O.T. hatches to Summer tanks P.S.S.		
Dimensions of Hatchway			27'00" x 46'50"	8'30" x 7'30"	6'20" diam	1'820" x 1'220"	1'820" x 1'220"		
COAMINGS	Height above Deck	...	6'30"	8'00"	8'00"	8'00"	7'30"		
	Thickness	Sides	11 m/m	10 m/m	10 m/m				
		Ends	12 m/m	"	"				
	Stiffeners	...	none	none	none				
	Brackets, Stays	...	none	none	none				
HATCH BEAMS	Number	...	one						
	Spacing	...	1'350"						
	Scantling and Sketch	...	plate 300 x 9 m/m angles 80 x 50 x 11 m/m	none	none				
	Bearing Surface	at beam	170 m/m						
FORE AND AFTERS	Number	...							
	Spacing	...							
	Unsupported Lengths	...							
	Scantling* and Sketch	...	none	none	none				
	Bearing Surface	...							
HATCH COVERS	Material	...	pine	steel	steel	steel	steel		
	Thickness	...	75 m/m						
	How fitted	...	F & A.	W.T. cover	W.T. cover	O.T. cover	O.T. cover		
	Bearing Surface	at ends	75 m/m						
Spacing of Cleats			590 to 650						
Number of Tarpaulins			2						
<p>*Are wood fore and afters steel shod at all bearing surfaces? no fore rafters Are battens and wedges efficient and in good condition? Yes for Dry Cargo hold hatch Are tarpaulins in good condition and in accordance with rule requirements? In good condition on Dry Cargo hold hatch Are lashings provided in accordance with rule requirements? Yes, on Dry Cargo hold hatch.</p>									

Particulars of fiddley, funnel and ventilator coamings:—

Fiddley hatch on casing top 3'210" x 8'600" P.S. with 65 x 65 x 7 angle coaming. Plate covers 5 m/m.
 " " " " 1'460" x 8'600" P.S. " " " " " " " "
 Vent. to fiddley:— Coaming 1'250" x 6'10" diam. x 10 m/m (approx) P.S.

Particulars of Flush Bunker Scuttles:— none

Particulars of Companionways:—

One on Roofs to accom. spaces fitted with W.T. door, 3'40 m/m sill

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

On Deck. 1 @ 9'40" x 3'85" dia. to Paint Room S.S.
 On Bridge. Mushroom Vents 1 on P.S. & 3 on S.S. 3'00" x 2'00" dia. to Accom.
 On Roofs 1 @ 9'00" x 4'50" dia. x 10 m/m (approx) P.S. to Engine Spaces
 1 @ 7'10" x 5'90" dia. x 10 m/m (approx) P. " " "
 On Upper Deck: 1 @ 8'50" x 4'50" dia. x 9 m/m P.S. to fore dry Cargo hold.
 1 @ 9'00" x 3'00" dia. P.S. to both forward Offenders.
 1 @ 9'00" x 3'00" dia. x 7 m/m S. to forward pump room
 1 @ 1'325" x 6'10" dia. P.S. to midship pump room.
 1 @ " x 5'60" dia. P.S. " " " " (derrick post)

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

On Deck. 2 900 mm necks 500 high (no covers) to forward deep tank & 1 900 mm neck 400 high (no cover) to F.P.
 On Roofs. All air pipes 6'10 to 7'10 high (no covers)
 On Upper Deck 2 air pipes 2'200 high (with covers) P.S. to O.R. Bunkers.

Particulars of Gangway Cargo and Coaling Ports:— none.



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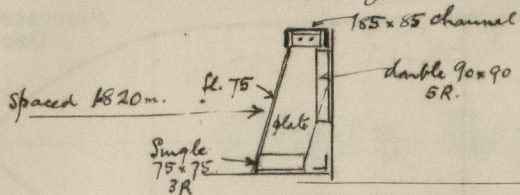
Particulars of Scuppers and Sanitary Discharge Pipes —

Upper Deck Scupper also discharge over deck except one P.S. near Poop that which discharges through ship's side just below deck.
Engineers bath room s.w.c. in Poop Deck discharges through ship's side just above 2nd deck & fitted with storm valve.
Officer's bath s.w.c. & Crew wash place s.w.c. discharge through ship's side above Summer Tank deck, stated to have storm valves.
(on way of bridge)

Particulars of Side Scuttles :

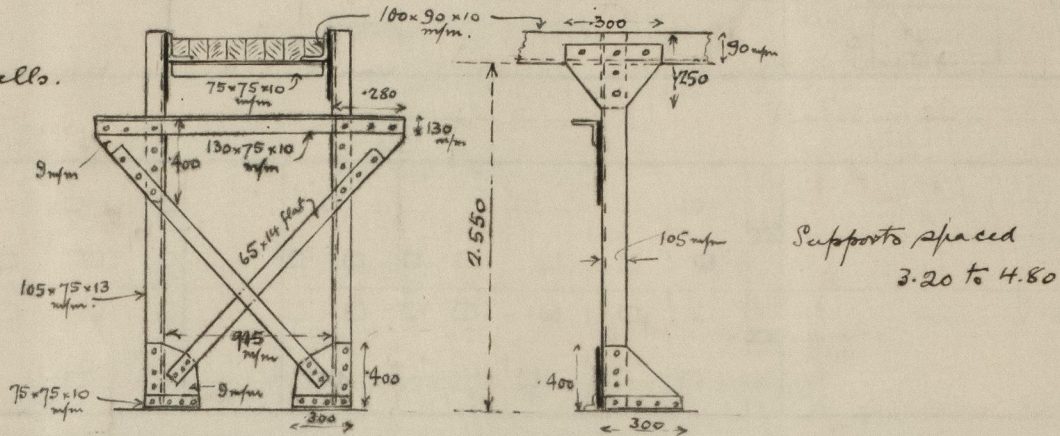
Some of sidelights in Poop, Bridge & Deck sides have deadlights

Particulars of Guard Rails:— Bulwarks; no guard rails.



Particulars of Gangways, Lifelines, etc. :—

Gangway in both wells.



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	48.20 m.	1.060	.990 x .460 oval and 2 narrow ports 450 x 230	7	2.87 (metres) ²	
Forward Well	28.83	do	do	4	1.64 "	

State position of each freeing port ... } After Well :— *Centre of freeing port from Post Limit:— 7.00; 12.60; 18.00; 23.50; 31.00; 36.50; 42.00*
(F. and A. position and height above deck edge) } Forward Well :— " " " " " " " " " " *Bridge " :— 7.40; 12.50; 18.20; 23.60;*

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— 2- 25mm round bars to each port 150mm between

Additional area where sheer is less than standard.

lower edge of all freeing ports 300mm above deck.

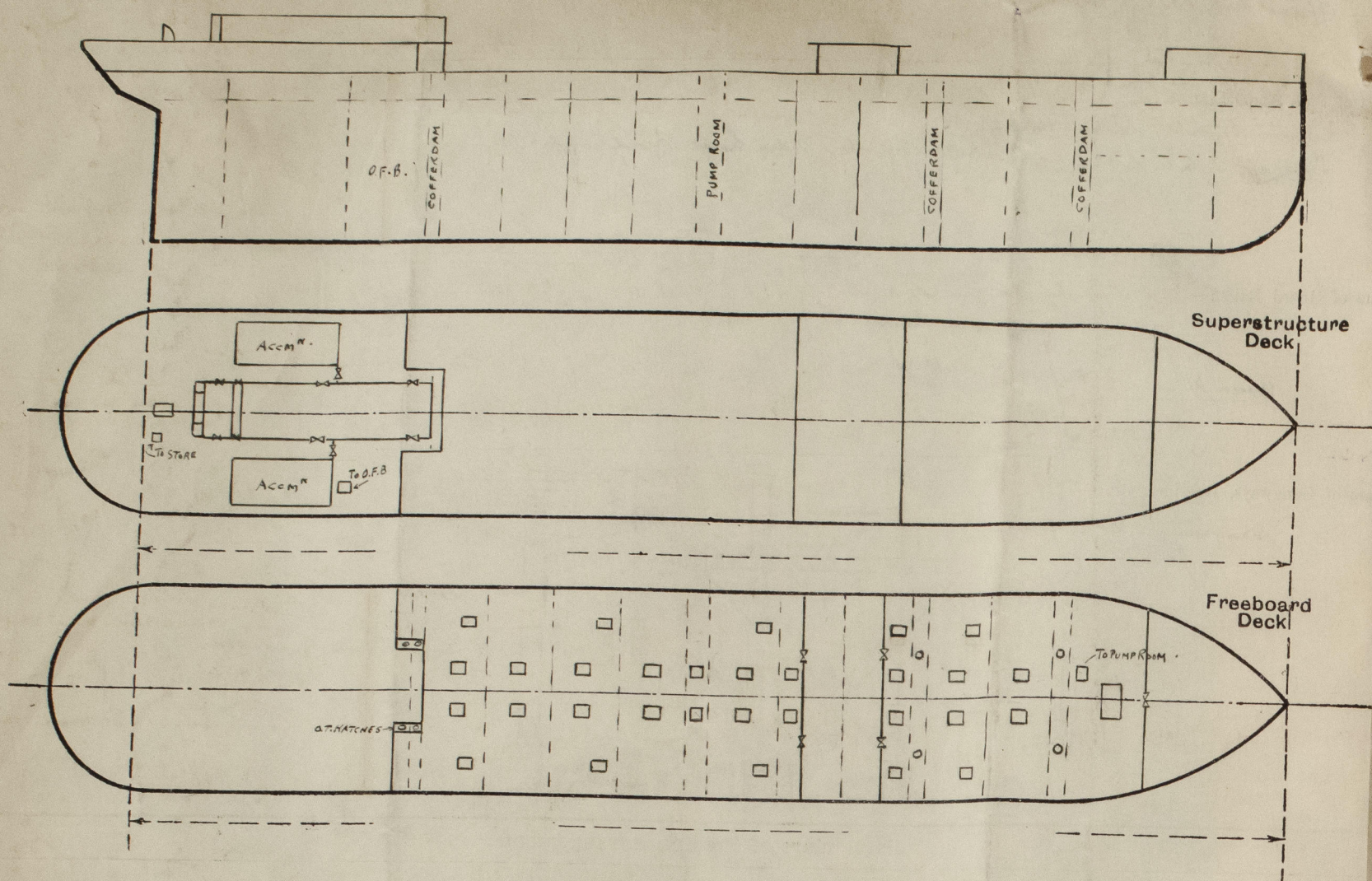
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming m.m.	Plating m.m.	Stiffeners m.m.	Spacing m.m.	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead { ... Trans. @ sides ... @ center	440x12 1200x11	12 11	255x10x85x12 180x9.5x70x12.5	Var. stiffns. 810 " " 710 high stiffns 810	brackets T & B: 7R. continuous at top nothing at bottom brkts. 5R.	none none none	- - -	- - -
Raised Quarter Deck Bulkhead F & A	1000x11	11	do					
Bridge, After Bulkhead ...	440x11	10	2 long. brkts and 90x90x12 angles	rest stiffns 810	brkts. T & B. 4R.	1 each side 1.545x.690	.440	-
Bridge, Forward Bulkhead ...	450x11	11	2 long. brkts, 2 webs & 180x85x11.5 angles	" " 710-810	brkts. T & B. 4R.	1 each side 1.545x.690	.450	-
Forecastle Bulkhead ...	450x10	9	2 long. brkts & 2 webs 90x90x12 angles	" " 740-820	brkts. T & B. 4R.	one 1.545x.690	.450	-
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super-structure Decks ...	Trans. } 1360x10 F & A }	10	180x9.5x70x12.5	var. stiffns 710 high " 860	brackets T & B. 4R brackets 6R.	none 1x1.610x.610 P & S.	- .460	- 2.520
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...								
Deckhouses on Flush Deck Ships ... (Pump Room bulkheads & P's)	290x12	10	90x75x12	Var. 1000	none	1.530x.690	.510	2.550

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

Poop Bulkhead	no openings
Raised Quarter Deck Bulkhead ...	-
Bridge, After Bulkhead	2. W.T. doors capable of being manipulated from both sides.
Bridge, Forward Bulkhead	" " " " " " " "
Forecastle Bulkhead	1 " " " " " " " "
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	
Exposed Machinery Casings on Super-structure Decks	1 " " each side - - - " " "
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses on Flush Deck Ships ...	1 " " to each entrance - - - " " "

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, 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

Dec 16/40 309.40

Received by me



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Deekhones