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Index. No. 24088  
(For London Office only.)Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

No. 19331.

Computation of Freeboard for Steamer, <del>Sailing Ship, Tugboat</del> having <u>Flush deck</u> .					Port of Survey <u>Swansea</u>
(Type of Superstructures.)					Date of Survey <u>21st Apr. May 5. 19 + June 2nd. 1982</u>
Ship's Name <u>Memphis</u>	Nationality and Port of Registry <u>British Glasgow</u>	Official Number <u>137839</u>	Gross Tonnage <u>1033</u>	Date of Build <u>1917</u>	Name of Surveyor <u>Harish Westatou &amp; Wille</u>
Moulded Dimensions: Length <u>199.75</u> Breadth <u>30'-6"</u> Depth <u>21'-4"</u>					Particulars of Classification <u>+100A1</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>not available</u> tons					<u>2103-925 shelter deck with freeboard.</u>
Coefficient of fineness for use with Tables					

<b>Depth for Freeboard (D)</b>	<b>Depth correction</b>	<b>Round of Beam correction</b>
Moulded depth ... .. <u>21'-4"</u>	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) <u>30'-6"</u>
Stringer plate ... .. <u>1/2"</u>	(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>7 1/2"</u>
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^a}{4} \times \left( 1 - \frac{S_1}{L} \right) =$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..	<u>74'-0"</u>				
" overhang ... ..					
R.Q.D. enclosed ... ..					
" overhang ... ..					
Bridge enclosed ... ..					
" overhang aft ... ..					
" overhang forward ... ..					
Forecastle enclosed ... ..					
" 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>36"</u>		1		
1/8 L from A.P. ... ..		4			<u>16"</u>		4		
3/8 L " ... ..		2			<u>4"</u>		2		
Amidships ... ..		4			<u>—</u>		4		
5/8 L from F.P. ... ..		2			<u>8"</u>		2		
3/4 L " ... ..		4			<u>32"</u>		4		
F.P. ... ..		1			<u>72"</u>		1		
Total ... ..									

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 =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) =$   
If limited on account of midship superstructure.

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 =        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 =  $\frac{\Delta}{40T}$  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 " " ... ..

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### PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS										
			SHELTER DECK			MAIN DECK		Fiddley	MAIN DECK	Tummy
Description of Hatchway			N01	N02	N03	N01	N02	Bow Hatch	Beam Hatch	Hatch main deck
Dimensions of Hatchway			29'-4"x15'-0"	31'-2"x15'-0"	4'-0"x15'-0"	34'-10"x15'-0"	31'-2"x15'-0"	15'-7"x7'-2"	7'-0"x15'-0"	1'-6"x2'-1"
COAMINGS	{	Height above Deck	30"	30"	30"	12"	12"	24" x 3/8"	15"	7"
		Thickness	5/16"	5/16"	1/4"	1/4"	1/4"	3/8"	3/8"	1/4"
		Sides	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
		Ends	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Stiffeners		9x3/12x1/16	9x3/12x1/16	✓	✓	✓	✓	✓	✓	
Brackets, Stays		✓	✓	✓	✓	✓	✓	✓	✓	
HATCH BEAMS	{	Number	5	5	✓	6	5	✓	✓	✓
		Spacing	5'-0"	5'-2"	✓	5'-0"	5'-2"	✓	✓	✓
		Scantling and Sketch	3x3x3/8" T & B	2"	NIL	3x3x3/8" T & B	2"	NIL	NIL	NIL
		Bearing Surface	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts
FORE AND AFTERS	{	Number	5	5	✓	6	5	✓	✓	✓
		Spacing	5'-0"	5'-2"	✓	5'-0"	5'-2"	✓	✓	✓
		Unsupported Lengths	3x3x3/8" T & B	2"	NIL	3x3x3/8" T & B	2"	NIL	NIL	NIL
		Scantling and Sketch	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts	19" Guts
HATCH COVERS	{	Material	W. Wood	W. Wood	W. Wood	W. Wood	W. Wood	W. Wood	None	W. Wood
		Thickness	3"	3"	3"	3"	3"	3"	✓	2 1/2"
		How fitted	F & A	F & A	F & A	F & A	F & A	F & A	✓	Solid
		Bearing Surface	3"	3"	3"	2 1/2"	2 1/2"	3"	2 1/2"	2 1/4"
Spacing of Cleats			24"	24"	16"	NIL	NIL	24"	20"	16" x 10"
Number of Tarpaulins			3	3	3	2	2	3	None	One

\*Are wood fore and afters steel shod at all bearing surfaces? ✓

Are battens and wedges efficient and in good condition? yes on shelter deck, none on main deck.

Are tarpaulins in good condition and in accordance with rule requirements? yes

Are lashings provided in accordance with rule requirements? yes, for shelter deck.

Particulars of fiddley, funnel and ventilator coamings :—

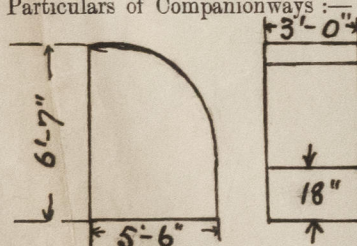
Steel deck, sparrd gratings, with hinged steel covers.

main funnel riveted black, Engine room skylight; steel, wood flaps.  
glass windows brass guard rails.  
3. Vents, to Engine room, 14" dia Coaming 24" high x .25 thick  
2 " " Boiler room 24" " " 14 " x .25 "

Particulars of Flush Bunker Scuttles:—

NIL

Particulars of Companionways :—



Steel companion to Grews quarters on forecastle  
Plating '38" angles  $2\frac{1}{2} \times 2\frac{1}{2} \times 38$ , sill 18" high.  
Steel door  $21'0" \times 4'6" \times 38$ , operated both sides.

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

4 - Ventilators to Hold 12" dia Coaming 30" high  
x 25 thick.

Wood plugs & canvas covers provided for coamings.

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



1- Steel gooseneck 6" from deck to opening

3 - " " 12" " " "  
1 - " " with screwed cap.

no plugs or covers provided.

Wood plugs are provided as closing appliances

Particulars of Gangway Cargo and Coaling Ports :—

[illegible]

Memphis

Particulars of Scuppers and Sanitary Discharge Pipes

In Forecastle 1-4" W.C. discharge lead pipe <sup>with storm</sup>~~no~~ Valve on ships side  
In officers quarters 2-1 $\frac{3}{4}$ " Bath discharges ~~no~~ Valves on ships side  
" " " 1-2 " " Lead pipes " storm Valves on ships side  
" " " 2-3 $\frac{1}{2}$ " W.C. " " "

Particulars of Side Scuttles :

Glass circles in hinged brass frames fitted with C.I. deadlights  
in Crews quarters in forecabin & Officers quarters in Poop.

Particulars of Guard Rails :—

Two tier steel land rails 3'-0" high steel stanchions  
spaced 4'-6" apart riveted deck, fitted round vessel  
at sides.

Particulars of Gangways, Lifelines, etc. :—

Provision is made for rigging  
lifelines east side of the shelter  
etc.

~~NIL~~

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 ... ..	NIL	} Open rails.				
Forward Well ... ..	NIL					
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 Free-board <del>or Raised Quarter Decks</del> ...	25"	30"	3"x2 1/4"x30"on	30"	NIL	5'-7"x1'-10"	20"	7'-0"
Exposed Machinery Casings on Super-structure 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).

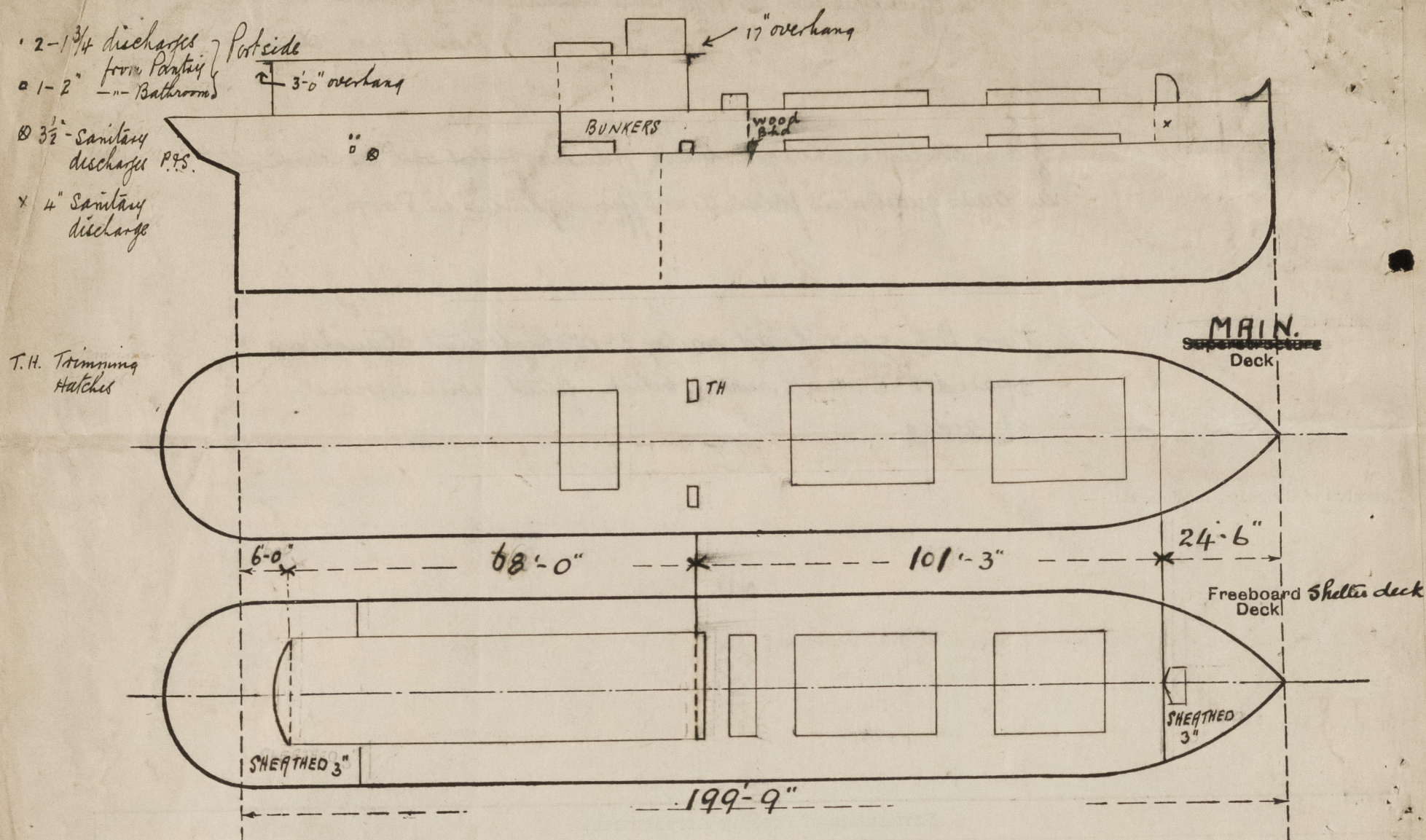
<p>Poop Bulkhead ... ..</p> <p>Raised Quarter Deck Bulkhead ...</p> <p>Bridge, After Bulkhead ... ..</p> <p>Bridge, Forward Bulkhead ... ..</p> <p>Forecastle Bulkhead ... ..</p> <p>Exposed Machinery Casings on Fore- board <del>or</del> Raised Quarter Deck ...</p> <p>Exposed Machinery Casings on Super- structure Decks ... ..</p> <p>Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..</p> <p>Deckhouses on Flush Deck Ships ...</p>	<p>Steel &amp; Teak wood hinged doors manipulated from both sides</p> <p>see above steel doors to Machinery space Wood doors to crews quarters</p>
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Steel & Teak wood hinged doors manipulated from both sides

See above steel doors, to Machinery space Wood doors to crews quarters



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:—

Particulars taken whilst vessel was afloat.

Builder's name and yard number Arrossau D.D & S.B. Co Ltd.

Names of sister ships ☒

Owners J & P. Hutchison Ltd.

Fee £ 8 : 10 : 0

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