

Index. No. \_\_\_\_\_  
(For London Office only.)

Rpt. C.11.

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker					
having	Poop, bridge, forecabin and trunk fore and aft.				
(Type of Superstructures.)					
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	
British Sailor	British London	142723	5576	1918.12	
Moulded Dimensions; Length	Breadth	Depth			
399.6	52	31.0			
Moulded displacement at moulded draught = 85 per cent. of moulded depth			* tons		
Coefficient of fineness for use with Tables					

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 = $\frac{B \times 12}{50}$ =
Slighting on exposed deck	...		Ship's Round of Beam =
$T \left( \frac{L-S}{L} \right) =$			Difference
Depth for Freeboard (D) =		If restricted by superstructures	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 <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
W'ele enclosed ...					
„ overhang ...					
runk 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				1	
$\frac{1}{6}$ L from A.P. ...		4				4	
$\frac{2}{6}$ L " ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}$ L from F.P. ...		2				2	
$\frac{1}{6}$ L " ...		4				4	
F.P. ... ..		1				1	
Total ...							

$$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$$
  

$$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$$
  

$$\frac{\text{Length of enclosed superstructure}}{L} \text{ forward of amidships} =$$
  

$$\text{aft of } =$$

$$\frac{\text{Length of enclosed superstructure}}{L} \text{ aft of } =$$

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

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

Deduction for Fresh  
Water.

Displacement in salt water at  
summer load water line

 $\Delta =$ Tons per inch immersion at  
summer load water line

T =

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

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. ... ..		

Summa Freeboard =

Ships from Centre of Disc to top of Deck Line, wood, Steel, Deck

er Line above Centre of Disc ... ..

??                      ??                      \* \* \*                      \* \* \*

33 37 ...

below " ...

71

Tropical Fresh Water Freeboard

## Fresh Water

Tropical

Winter

Winter North

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MARKING FORM  
16 JA

RECEIVED

16 JAN 1954



PARTICULARS OF PROTECTION TO OPENINGS, ETC.

		HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS							
Description of Hatchway		No 1	No 2	on bridge deck		on light hatches		Bunker hatches in single spaces	
Dimensions of Hatchway		23'x18'	13'x18'	7'x18'	8'x4'	3'x4'		8'x4'	
COAMINGS	Height above Deck	24"	18"	18"	18"	19"		9"	
	Thickness	45	45	45	45				
	Stiffeners	7x3x.45	7x3x.45	none	none			9x3x.45	
	Brackets, Stays	None	None	none	none	12'x3 1/2'x3 1/2'x.5" and 7'x3 1/2'x.5" on top		None	
HATCH BEAMS	Number	4	2						
	Spacing	54"	52"						
	Scantling and Sketch	4x3x.45	Same	None	None	hinged lid Bolted cover		None	
	Bearing Surface	16"x.35	as						
FORE AND AFTERS	Number			3					
	Spacing			54"					
	Unsupported Lengths			7'-0"					
	Scantling* and Sketch			2 1/2'x2 1/2'x.35" angle 2-off B.A.	None	Peak hatches on fore-castle & poop. 18"x.4 coamings 3" bearing surface - 3" wood covers & 2 tarpaulins. Cleats spaced 19". Pump room hatch similar			
HATCH COVERS	Bearing Surface	3"	3"	19 1/2'x.44 31-off					
	Material	Wood	Wood	Wood	Wood	Steel		Wood	
	Thickness	3"	3"	2 1/2"	2 1/2"	Bolted		2 1/2"	
	Bearing Surface	3'-4"	3'-4"	3'-2 1/2"	2 1/2'-3"			athwartships	
Spacing of Cleats		24"	24"	28"	21"			28"	
Number of Tarpaulins		3	3	2	2			None	

\*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?

Yes  
Yes  
Yes  
Yes - on No 1 and 2 only.

Particulars of fiddley, funnel and ventilator coamings:-

Hinged steel covers on all gratings.  
E.R. Skylights all steel with glass Sull's eyes.  
Funnel & ventilator coamings - .75" x in good condition.

Particulars of Flush Bunker Scuttles:-

None.

Particulars of Companionways:-

1 steel hood on fore-castle and 2 on poop each containing a single ladder - Plating - 3" - Stiffeners 3"x1 1/2" Cope iron 24" wood doors on after side in each case - 1 3/4" thick with 15 1/2" side.

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

30"-36" high with wood plugs & canvas covers in all cases.

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

Air pipes on tank lids - 18" to mouth - 37" above deck.

Gauge nine fitted in each case.

All other air pipes fitted with canvas covers.

Particulars of Gangway Lugs and Coaling Ports:-

None.



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## Particulars of Scuppers and Sanitary Discharge Pipes —

Single storm valves fitted ball discharges.  
All scuppers discharge above main deck.

## Particulars of Side Scuttles:

Hinged deadlights fitted in all cases.

## Particulars of Guard Rails:—

40" high & of substantial constructed  
round trunk deck & harbour deck.

## Particulars of Gangways, Lifelines, etc.:—

None fitted — Trunk deck.

## 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 ... ..	open rails					
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 ... ..	.4	.4	7x3x.4	30"	12x15x.4	None	✓	7'6"
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ... ..	.30	.30	4x3x.3	30"	24x24x.4	36"	18"	7'5"
Bridge, Forward Bulkhead ... ..	.35	.35	8x3x.4	40"	24x24x.4	38"	18"	7'3"
Forecastle Bulkhead ... ..	.3	.3	3½x3½x.4	28"	None	None	—	7'3"
Trunk, Aft ... ..	.5"	.5"	9x3½x.4	30"	Brackets	Hatches	—	7'3"
Trunk, Forward ... ..	.5"	.5"	9x3½x.4	30"	at bulkheads	Various	—	7'6"
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓							
Exposed Machinery Casings on Superstructure Decks ... ..	.3	.3	4x3x.35	28"	40"x40" Brackets at top	26"	18"	7'6"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	.5	.5	7x3x.4	30"	Brackets at bulkheads	None	—	7'6"
Deckhouses on Flush Deck Ships ...	✓							

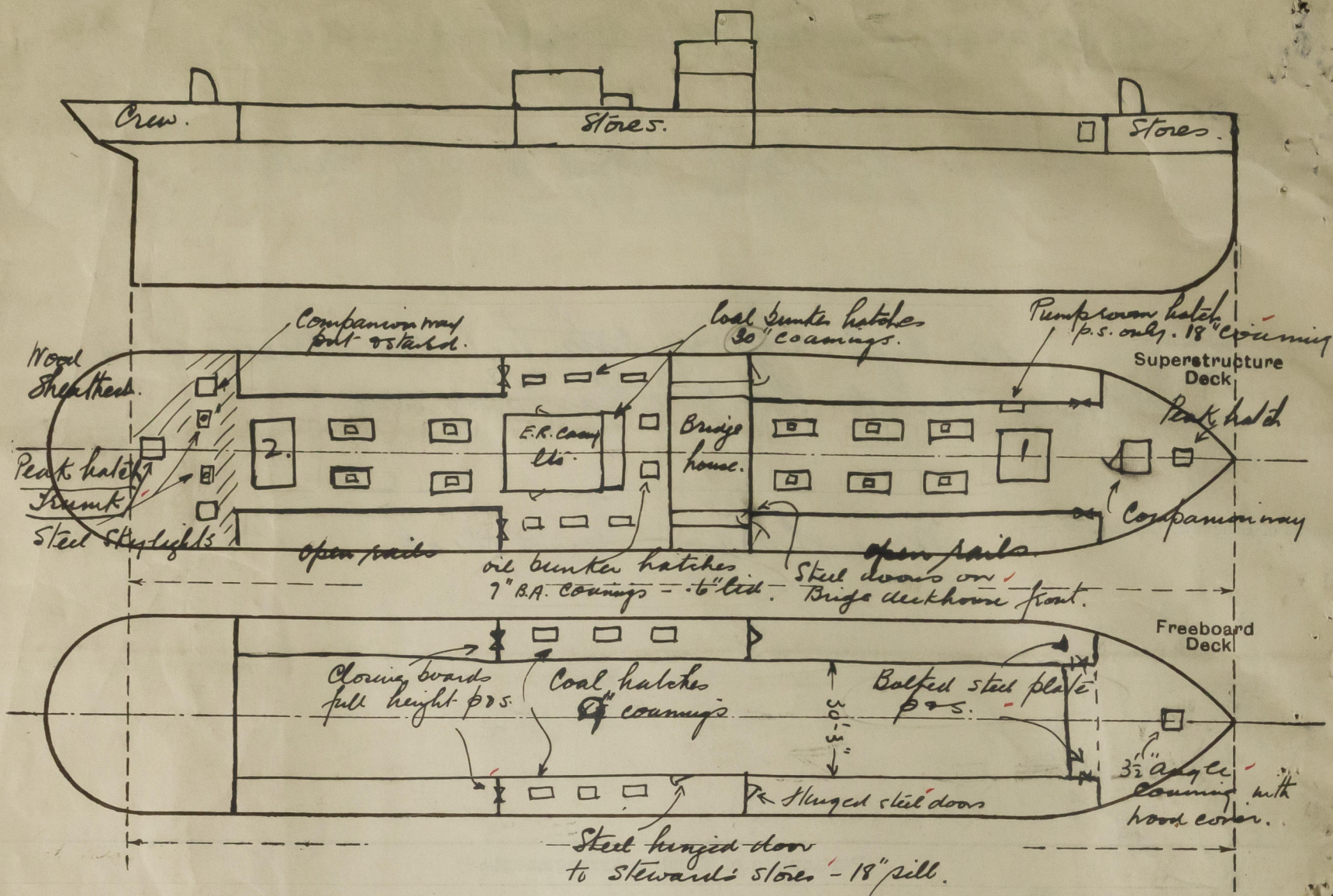
## Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ... ..	No openings.
Forward end of raised Quarter Deck Bulkhead ...	Bolted steel plates for giving access to fore-castle store.
After Bulkhead ... ..	3" closing boards in riveted channels for full height.
Forecastle Bulkhead ... ..	½" — Hinged steel door.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	No openings.
Exposed Machinery Casings on Superstructure Decks ... ..	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	Hinged steel doors with single locks.
Deckhouses on Flush Deck Ships ...	No openings.
	3 companionways have 1¾" wood doors on after side.



British Sailor

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:—

Vessel examined in dry dock.  
 Owners request re assignment of existing load line.  
 Same now marked & cut in in accordance  
 with Secretary's letter F. 27/10/32. Verification form  
 attached hereto.

*bm*

Builder's name and yard number

Names of sister ships

The British Tanker Co.

Owners

Fee

£ 610 / -

Received by me

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