

SURVEY FOR FREEBOARD.

BERBICE

### Type of Superstructures

## Flush Deck

### Trade of Ship

Service Endorsement if any

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.

FRESH WATER                      "        "        "        "

TROPICAL 32 32 32 32

WINTER                      "        " below "

WINTER NORTH ATLANTIC " " " "

Corresponding Freeboard

12

" "

22 21

" "

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 3RD MAY, 1944.

Chief Surveyor

Secretary



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Name of Ship .. *BERBICE* .....

Freeboard Report Examined

(Date) ..... *3 Jan 1957* .....

Signed *[Signature]* .....



# COMPUTATION OF FREEBOARD

Length on summer load line  $414' - 8\frac{3}{4}"$  Moulded Breadth  $56' - 10\frac{3}{4}"$  Moulded Depth  $34' - 4"$  Depth of Keel  $\frac{7}{8}"$   
Moulded displacement (ex bossing) at moulded draught of 85 per cent of moulded depth 16500 Tons

Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times 85} = .468$

Displacement and tons per inch immersion in salt water at summer load line 14250 @ 48.48

Moulded depth 37.33

Stringer Plate .06

Sheathing on exposed deck T  $(\frac{75}{L})$

Rise of floor (in sailers)

Depth for Freeboard (D) 37.39

Table Depth 24.85

Depth Correction  $3 \times 9.54$

if restricted by superstructures

28.62 ON

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
Forecastle		A				
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" " Forward						
Totals						

Standard Height of Superstructure

" " R.Q.D.

Percentage covered S/L =

" " E/L =

" from Table line A, B, (corrected for absence of forecastle if required)

Percentage from Table by interpolation for Bridge less than .2L if required =

Deduction =

Percentage from Table for Tankers (or Timber ships)

Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	54.12	51.74	54.12	1	54.12
$\frac{1}{2}$ L from A.P.	24.00	23.04	24.00	4	96.00
$\frac{1}{2}$ L from A.P.	5.00	5.70	5.00	2	10.00
Amidships	-	-	-	4	-
$\frac{1}{2}$ L from F.P.	11.75	11.39	11.75	2	23.50
$\frac{1}{2}$ L " "	47.75	46.08	47.75	4	191.00
F.P.	105.37	103.54	105.37	1	105.37
				18	479.99

Effective Mean Sheer = 26.666

Standard " " OS L + 5 = 25.886

Difference .780

Mean Actual sheer aft = MORE THAN 1  
" Standard " "

Mean Actual sheer forward = MORE THAN 1  
" Standard " "

Length of enclosed superstructure forward of amidships =  
Length of Ship

Length of enclosed superstructure aft of amidships =  
Length of Ship

Sheer Correction = Difference  $\times (75 - \frac{S}{2L}) = .78 \times .75 = .58$  OFF

If limited on account of midship superstructure =

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

TABULAR FREEBOARD corrected for flush deck if required =  $77.07 + 6.27 = 83.34$

Correction for co-efficient =  $\frac{768 + 63}{136} \times 88.75$  DRAUGHTS AND SEASONAL CORRECTIONS

	+	-
Depth correction	28.62	-
Deduction for superstructures	-	-
Sheer correction	-	.58
Round of Beam correction	-	.10
Correction for thickness of deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	28.62	.68

Summer Freeboard in inches  $9' - 8\frac{3}{4}" = 116.69$

Additional allowance for superstructures on

Timber carrying ships =

Summer/Timber Freeboard in inches =

Sailor, Tanker, Steamer Timber

Depth to Freeboard Deck in feet 37.39

Summer Freeboard in feet 9.73

Moulded Draught (d)  $27' - 8\frac{1}{8}"$  27.06 (d1)

Addition for Keel  $\frac{7}{8}"$  .04

Extreme draught  $27' - 8\frac{1}{8}"$  27.43

Deduction for Tropical and addition for Winter freeboard  $d/4 = 7$  ins.

Addition for Winter North Atlantic (if required) = ins.

Deduction for Tropical Timber Freeboard  $\frac{d}{4}$  = ins.

Addition for Winter " "  $\frac{d}{3}$  = ins.

" " N.A. Timber Freeboard (if required) = ins.

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Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

Discharges from Tween decks 13 OFF -  $2\frac{1}{2}"$  dia Discharging to bilge Self closing gate valve on drain from steering gear flat.  
2 OFF -  $2"$  dia " " " " Galvanized steel swing check valve on line from ship's old stores. All other lines have no valves.

Scuppers from Bridge space 4-4" dia Discharging overboard Galv<sup>d</sup> cast steel flapper valves  
2- $2\frac{1}{2}"$  dia " " " " " " " "  
1-5" dia " " " " " " " "

Scuppers from Deckhouse aft 1-4" dia Discharging overboard Galv<sup>d</sup> cast steel flapper valve  
1- $2\frac{1}{2}"$  dia " " " " " " " "

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable, deadlights are supplied)

5 - 12" dia Sidelights in Fore end bridge deckhouse. Hinged deadlights permanently attached  
4 - " " Aft " " " " " "  
8 - " " Port side " " " " " "  
9 - " " Starb<sup>d</sup> " " " " " "  
3 - " " Fore end deckhouse aft " " " " " "  
1 - " " In each side of " " " " " "  
2 - " " Aft end " " " " " "

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Guard rails on Upper deck from Fr 177-Aft to stern 3'-6" high Stanchions spaced 5'-0"  
" " " Boat " " " " " "

Gangways and Lifelines

Lifelines fitted

Gangway, Cargo and Coaling Ports in sides of ship



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Lloyd's Register Foundation

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THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT  
SURVEY FOR FREEBOARD  
CONDITIONS OF ASSIGNMENT

SHIPS NAME "SAMPHILL"  
Nationality and Port of Registry British, London

OFFICIAL NUMBER 169683

## PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead				_____				
R.O.D. "				_____				
Bridge Aft Bulkhead				_____				
" Forward "				_____				
Forecastle Bulkhead				_____				
Trunk, Aft				_____				
" Forward				_____				
Exposed Machinery Casings on } Freeboard or R.Q. Decks				_____				
Exposed Machinery Casings on } superstructure decks				_____				
Machinery Casings within Super- structures not fitted with Cl. I closing appliances				_____				
BRIDGE Deckhouses on flush deck ships	AFT -	30" 4x3 5/16 IN. L	2'-6"	SNIPED TOP AND BOTTOM	2'-60" x 30" 1'-51" x 20"	15" 20 3/4"		
	FWD -	44" 6x4 1/16 IN. L	2'-6"	SNIPED AT TOP SNIPED AT BOTTOM	-	-		

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Peep Bulkhead	_____
R & D    "	_____
Bridge Aft      Bulkhead	_____
" Forward    "	_____
Forecastle Bulkhead	_____
Exposed Machinery Casings on Freeboard or R & Q decks	_____
Exposed Machinery Casings on superstructure decks	_____
Machinery Casings within super- structures not fitted with CI 1 Closing Appliances	_____
Deck houses on Flush Deck ships	_____
Hinged steel W.T. doors	_____

Hinged steel W.T. doors. Opening both sides

### PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Firing Ports each side	Area each side	Rule Area
After Well	Bow to FR 177	3'-6"	21 @ 4'-9" x 9"	74.81	83.40
Forward Well	—	—	—	—	—

State fore and aft position and height above  
deck to bottom of port, for each port

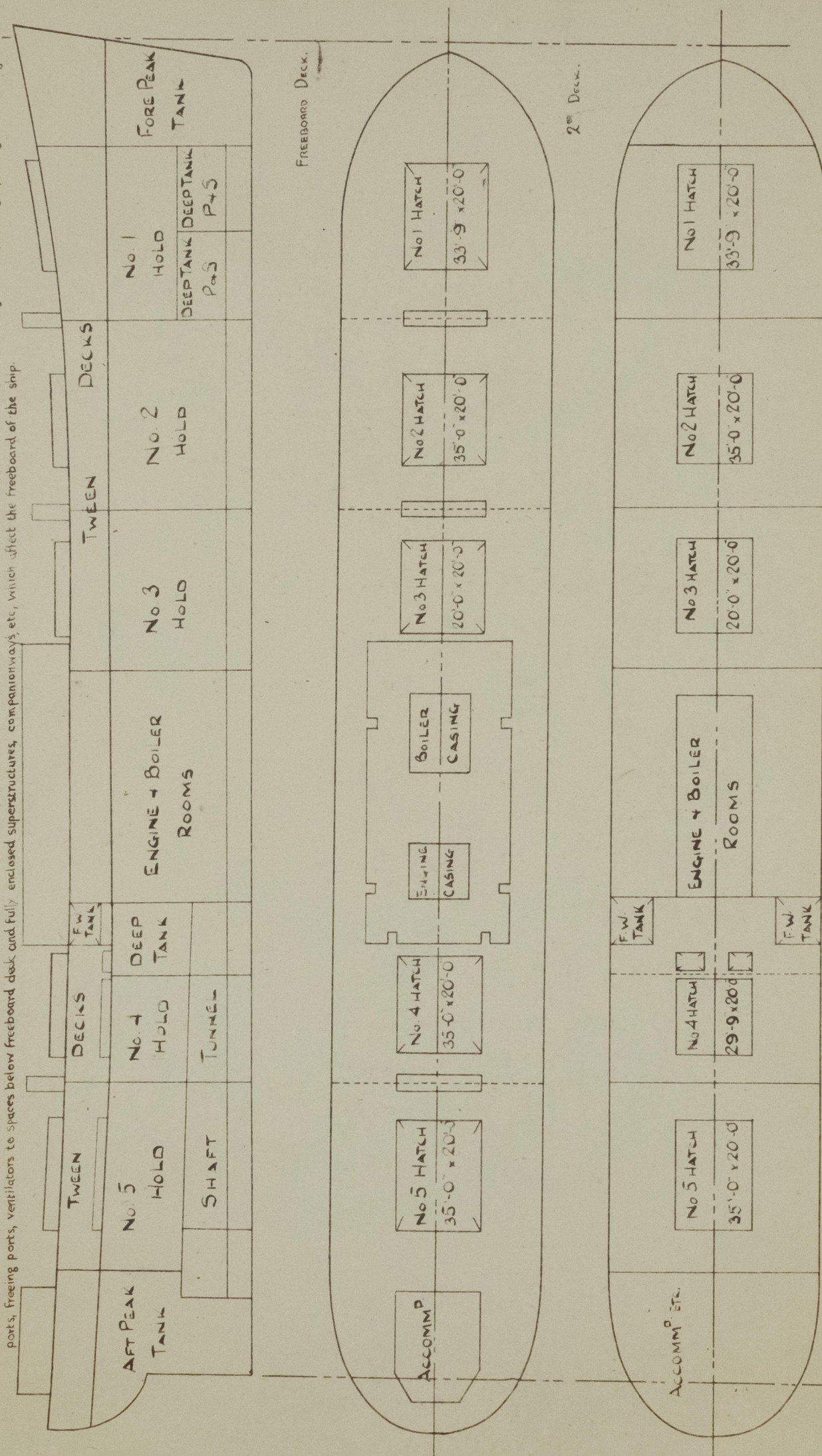
After ~~WH~~ OF BRIDGE HOUSE AT FRs 116, 122, 128, 136, 142, 150, 167  
ABREAST DECK HOUSE AT FRs. 85, 88, 94, 102, 107.  
Forward ~~WH~~ OF BRIDGE HOUSE AT FRs 32, 40, 50, 58, 62, 66, 74, 80.  
ALL 6" ABOVE DECK

State whether freeing ports are fitted with shutters bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks

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Position and dimensions of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling \_\_\_\_\_ ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways etc. which affect the freeboard of the ship.



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## PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

[illegible]

Are Wood fore and afters steel shod at all bearing surfaces? —

Are battens and wedges efficient and in good condition? 4/25

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