

"BARRANCA" SURVEY FOR FREEBOARD.

010428-010439-0124.1 $\frac{1}{8}$

# COMPUTATION OF FREEBOARD

Length on summer load line  $41' - 8\frac{3}{4}"$  Moulded Breadth  $56' - 10\frac{3}{4}"$  Moulded Depth  $34' - 4"$  Depth of Keel  $7\frac{1}{8}"$   
 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 @ 48.42

Moulded depth 37.33

Stranger Plate .06

Sheathing on exposed deck T (L-5)

Rise of floor (in sailers)

Depth for Freeboard (D) 37.39

Table Depth 24.85

Depth Correction 3 x 0.54

if restricted by superstructures 28.620N

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

Deduction for Fresh Water  $\frac{\Delta}{40T} = 7\frac{1}{4}$  inches

Round of Beam Correction  $\frac{B \times 12}{50} = 14.05$  inches

Ships Round of Beam EQU. 14.05

Standard Round of Beam  $\frac{B \times 12}{50} = 13.65$

Difference 40

Restricted to

Correction Difference  $\frac{1}{4} \times (1 - \frac{E}{L}) = .10 \times 1 = .10$  OFF

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	51.44	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 " " 05L+5 = 25.886

Difference .780

Mean Actual sheer aft = MORE THAN 1

Mean Actual sheer forward = MORE THAN 1

Length of enclosed superstructure forward of amidships =

Length of enclosed superstructure aft of amidships =

Length of enclosed superstructure forward of amidships =

Length of enclosed superstructure aft of amidships =

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 =  $\frac{768 + 68}{136} \times .78 = 88.75$  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"	27.66
Addition for Keel	$\frac{1}{8}"$	.04
Extreme draught	27' 8 $\frac{1}{8}"$	27.70

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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Form LL-4-D

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

## CONDITIONS OF ASSIGNMENT

SHIPS NAME "SAMTHAR"

OFFICIAL NUMBER 169641

Nationality and Port of Registry British, London

## 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.Q.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 superstructures not fitted with Cl. 1 closing appliances								
BRIDGE Deckhouses on flush deck ships								
AFT	-	30"	4x3 $\frac{5}{8}$ 1/2 L	2'-6"	SNIPED TOP AND BOTTOM	2-60" x 30"	15"	
FWD	-	44"	6x4 $\frac{1}{2}$ 1/2 L	2'-6"	SNIPED AT BOTTOM	11-51" x 20"	20 $\frac{3}{4}"$	

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

Poop Bulkhead	
R.Q.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 superstructures not fitted with Cl. 1 Closing Appliances	
Deck houses on Flush Deck ships	Hinged steel W.T. doors. Opening both sides

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing 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 Well of BRIDGE HOUSE AT FRs. 110, 122, 128, 136, 142, 150, 167  
 ABREAST DECKHOUSE AT FRs. 85, 88, 94, 102, 107.  
 Forward Well of BRIDGE HOUSE AT FRs. 32, 40, 50, 58, 62, 66, 74, 80.

ALL 6" ABOVE DECK

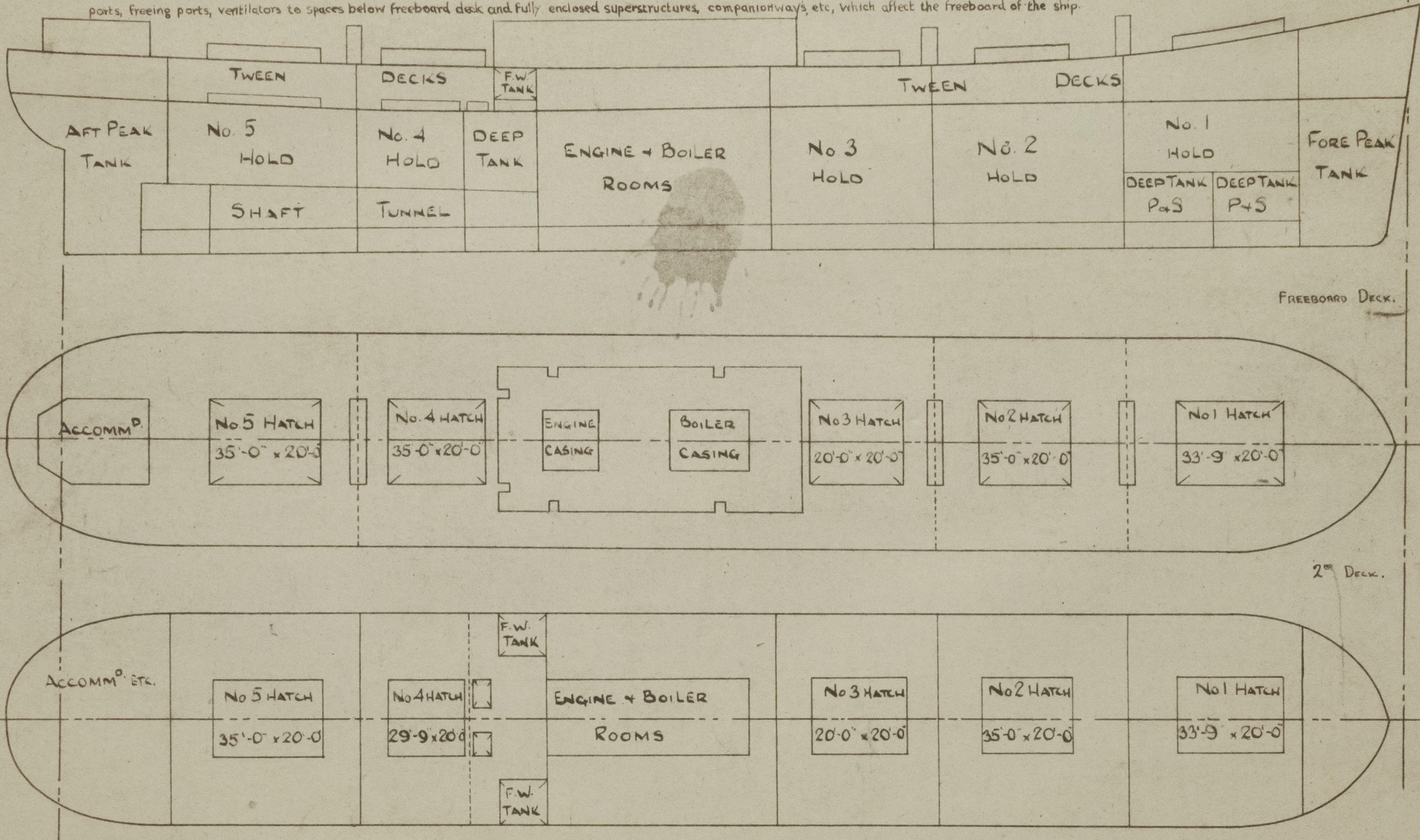
State whether freeing ports are fitted with shutters bars or rails, and give particulars NONE

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

Lloyd's Register Foundation

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Position and dimensions of superstructure decks, position 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.



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	UPPER DECK			BOSUN STORE W.T. HATCH	STEERING ENGINE ROOM W.T. HATCH
	No. 1	No. 2, 4 + 5	No. 3		
Dimensions of Hatchway	33'-9" x 20'-0"	35'-0" x 20'-0"	20'-0" x 20'-0"	36" x 36"	15" x 23"
Height above deck	3'-0"	3'-0"	3'-0"	18"	15"
Thickness of steel	.625	.625	.625	3/8"	3/8"
Stiffeners	12 x 4 x 1 1/2 x 4 7/8 CHANNEL	1'-11" ABOVE DECK			
Brackets or Stays	3" x 3" x 43" WITH 8 BOLTS	SPACED 10'-0"			
Number	6	6	3		
Spacing	5'-0 3/4" MAX.	5'-0 3/4" MAX.	5'-1 3/8" MAX.		
Scantling and Sketch					
Bearing Surface and thickness of carriers or sockets	8 1/8 SQ. INS.	8 1/8 SQ. INS.	8 1/8 SQ. INS.		
Number					
Spacing					
Unsupported lengths					
Scantling and Sketch					
Bearing Surface and thickness of carriers or sockets					
Material	WOOD	WOOD	WOOD	STEEL	STEEL
Thickness	2 1/2"	2 1/2"	2 1/2"	30"	1/4"
How Fitted	F & A	F & A	F & A	HINGED WT.	HINGED WT.
Bearing Surface	3"	3"	3"	COVER SECURED	COVER SECURED
Spacing of Cleats	22 3/4" MIN. 24 9/16" MAX.	22 3/4" MIN. 24 9/16" MAX.	22 3/4" MIN. 24 9/16" MAX.	BY 6 - 7/8" BOLTS	BY 6 - 7/8" BOLTS
Number of Tarpaulins	3	3	3		

Are tarpaulins in good condition and in accordance with rule requirements? **Yes**  
 Are lashings provided in accordance with rule requirements? **Yes**

Are wood fore and afters steel shod at all bearing surfaces? **Yes**  
 Are battens and wedges efficient and in good condition? **Yes**

