

14/8/47.

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

12"

### Corresponding Freeboard

” ” ”

6"

6"

below .. ..

6"

" "

10"

TROPICAL FRESH WATER Timber line above L.S.

Corresponding Freeboard

“ “ “ “

.. .. .

" " below "

12                      22                      32                      42

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

Chief Surveyor

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

on the 3RD SEPTEMBER, 1947

Secretary



## COMPUTATION OF FREEBOARD

Length on summer load line	390.7'	Moulded Breadth	52'-10"	Moulded Depth	29'-7"	Depth of Keel	2'-2"
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth	11,265.	Tons	41.04				
Co-efficient of fineness for use with tables	$\frac{\Delta \times 35}{L \times B \times D \times 85} = .76$						
Displacement and tons per inch immersion in salt water at summer load line	11550						
Moulded depth	29.58.	Deduction for Fresh Water	$\frac{\Delta}{40 T} = 6"$	inches			
Stringer Plate	.06.	Round of Beam Correction					
Sheathing on exposed deck T (L-S)	-	Ships Round of Beam	12 1/2" 12.50.	inches			
Rise of floor (in sailers)	-	Standard Round of Beam	Bx12 12.68.				
Depth for Freeboard (D)	29.66	Difference	18.				
Table Depth	1/15. 26.05	Restricted to					
Depth Correction	3 x 5.69 = 10.77	Correction	$\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = .045 \times 5158 = .02 \text{ ON.}$				
If restricted by superstructures							

Station	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	119.7.		F 7'-7 1/2" A 8'-2"	119.70		119.70
Raised Quarter Deck						
Bridge	30'-4"	F 7'-10 1/2" A 10'-2"	31.20	30.99		30.99
Forecastle	38'-6"	F 9'-9 1/2" A 10'-2 1/2"	38.50	38.50		38.50
Trunk Aft						
Forward						
Tonnage Opening Aft						
Forward						
Totals				189.40		189.19

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	28"	49.07	28.00	1	28.00
1/2 L from A.P.	1"	21.84	1.0	4	4.00
1/2 L from A.P.	0	5.40	0	2	-
Amidships	0	-	-	4	-
1/2 L from F.P.	0	10.80	0	2	-
1/2 L "	3"	43.67	3.0	4	12.00
F.P.	80	98.14	80.0	1	80.00
				18	124.00
Effective Mean Sheer					6.889.
Standard " " .05L + 5					24.535.
Difference					17.646

TABULAR FREEBOARD corrected for flush deck if required = 60.36.

Correction for co-efficient =  $\frac{1.44}{.36} = 63.91$  DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	10.77.			
Deduction for superstructures		16.31.		
Sheer correction	8.96.			
Round of Beam correction	.02			
Correction for thickness of deck amidships				
Other corrections, scantlings, etc.				
	19.75	16.31.	+ 3.44.	
Summer Freeboard in inches	5'-7 1/4"		67.35.	
Additional allowance for superstructures on				
Timber carrying ships				
Summer Timber Freeboard in inches				

Form LL. 4.D.

## THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## CONDITIONS OF ASSIGNMENT

SHIP'S NAME "POLAR MAID" & "STEARNA ROMANA" EX EMIL GEORG  
 NATIONALITY AND PORT OF REGISTRY BRITISH. LEITH. OFFICIAL NUMBER 145188.

## 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	.40"	.40"	10" x 3 1/2" x 54" B.A.	AVERAGE 29"	BRACKETS	1 @ 4'-3" x 3'-5" 1 @ 4'-3" x 3'-8"	23"	7'-7 1/2" R 8'-2" A
R.Q.D. "								
Bridge Aft Bulkhead	.40"	.36"	4 3/4" x 3'-4" A.O.A.	31"	NONE	2 @ 5'-3" x 3'-0"	11"	7'-10 1/4"
" Forward "	.40"	.38"	10" x 3 1/2" x 54" B.A.	29"	BRACKETS	1 @ 4'-7" x 2'-4"	19"	9'-9 3/4" F 10'-2 1/2" A.
Forecastle Bulkhead	.30"	.25"	PLT. F&C. 2 1/4"	27"	NONE	3'-5" PASSAGE		
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	.36"	.30"	B-3'-3" x 36" A WITH REV. ON AFT. E. 3'-3" x 38" A WITH REV. ON AFT.	27"	BRACKET AT TOP	1 @ 5'-0 1/2" x 2'-4" B. 1 @ 5'-1 1/2" x 2'-9 1/2" 1 @ 5'-0 1/2" x 2'-4" 1 @ 4'-9" x 2'-4" E 1 @ 5'-1" x 2'-4" 2 @ 4'-9" x 2'-4" 16"	20" 16" 19 1/2" 16" 16" 16"	7'-2"
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances	.36"	.30"	B-3 3/4" x 2 3/4" x 36" E 3" x 2 3/4" x 25"	30"	NONE	B. 1 @ 5'-5" x 2'-9" 1 @ 5'-3 1/2" x 2'-0" E 1 @ 5'-4 1/2" x 2'-9 1/2"	14" 11" 11 3/4"	7'-2"
Deckhouses on flush deck ships								

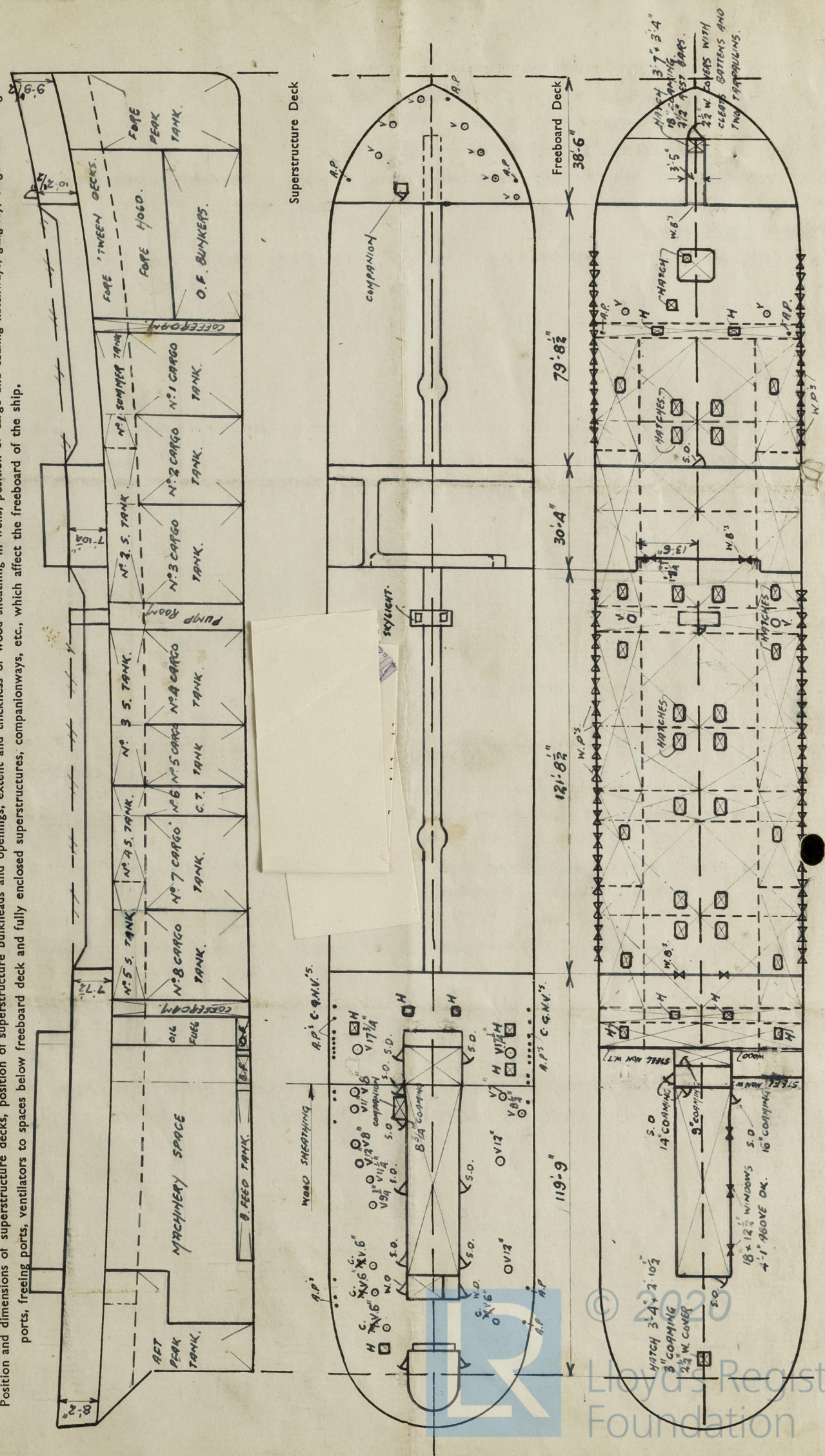
## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	1 1/2" FULL HEIGHT W.B.'S IN CHANNELS RIVETED TO BULKHEAD AND 36" STEEL SLIDING DOOR ON FACE OF W.B.'S SECURED BY BOLTS.
R.Q.D. "	
Bridge Aft Bulkhead	2 1/4" FULL HEIGHT W.B.'S IN CHANNELS RIVETED TO BULKHEAD.
" Forward "	HINGED STEEL W.T. DOOR MANIPULATED FROM BOTH SIDES.
Forecastle Bulkhead	2 1/2" FULL HEIGHT W.B.'S IN CHANNELS RIVETED TO BULKHEAD.
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	HINGED STEEL W.T. DOORS MANIPULATED FROM BOTH SIDES.
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	HINGED STEEL W.T. DOORS MANIPULATED FROM BOTH SIDES.
Deck houses on Flush Deck ships	

## 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	121'-8 1/2"	3'-11"	1 @ 3'-1 1/2" x 1'-7 1/4" 16 @ 4'-9 1/2" x 2'-0 1/2"	161.3 sq ft	24 sq ft
Forward Well	79'-8 1/2"	6'-6" F 5'-6" A 4'-9" A	10 @ 4'-10 1/4" x 2'-6"	121.25 sq ft	16 sq ft
State fore and aft position and height above deck to bottom of port, for each port	After Well DISTRIBUTED THROUGHOUT LENGTH OF NEW'S LOWER EDGE OF EACH FREEING PORT AT TOP EDGE OF SHEERSTRAKE. Forward Well				
State whether freeing ports are fitted with shutters, bars or rails, and give particulars	2 HORIZONTAL RAILS TO EACH PORT.				
Give particulars of freeing port area, etc., on superstructure decks	NONE.				

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	TO FORWARD HOLD		FORWARD PUMP ROOM		P.E.S. CARGO TANKS		UPPER DECK		P.E.S. SUMMER TANKS		O.F. BUNKERS		AFTER PEAK STORE		AFT COFFERDAM		POOP DECK		POOP SPACE		TRANSOM SPACE	
	2P		2P		Nº 1, 3, 4, 6, 7, 8		Nº 2 & 5		Nº 2, 5		1P		3P		1P		3P		3P		3P	
Dimensions of Hatchway	9'-11" x 10'-1 1/2"		15' 2'-3" x 2'-7"		7'-10" x 7'-7 1/2"		6'-10" x 7'-7 1/2"		7'-0" x 3'-10"		15' 6'-0" x 2'-1"		3'-4" x 2'-10 1/2"		15' 3'-6" x 4'-0"		5'-10" x 2'-2 1/2"		5'-10" x 2'-2 1/2"		2'-11 1/2" x 2'-11 1/2"	
COAMINGS	Height above deck		29 1/2"		11 3/4" B.A.		2'-9"		2'-9"		12"		3"		12"		3'-0"		13'		13'	
	Thickness		.40" .40"		.54" .54"		.40" .40"		.40" .40"		.36" .36"		.50" .50"		.38" .38"		.50" .50"		.36" .36"		.50" .50"	
	Stiffeners		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Brackets or Stays		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
HATCH BEAMS	Number		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Spacing		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Scantling and Sketch		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Bearing Surface and thickness of carriers or sockets		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
FORE AND AFTERS	Number		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Spacing		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Unsupported lengths		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Scantling and Sketch		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
HATCH COVERS	Bearing Surface and thickness of carriers or sockets		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE	
	Material		STEEL EFFICIENTLY STIFFENED		STEEL		STEEL		STEEL		STEEL		WOOD		STEEL		WOOD		STEEL		STEEL	
	Thickness		.36"		.36"		.46"		.46"		.38"		2 3/4"		.38"		2 3/8"		.38"		.38"	
	How Fitted		7/8 BOLTS 4 1/2 CRS.		B. DOGS		12 DOGS.		10 DOGS.		8 DOGS.		F.C.A.		8 DOGS.		ATHWARSHIPS.		8 DOGS.		8 DOGS.	
HATCH COVERS	Bearing Surface		7/8 BOLTS 4 1/2 CRS.		B. DOGS		12 DOGS.		10 DOGS.		8 DOGS.		F.C.A.		8 DOGS.		ATHWARSHIPS.		8 DOGS.		8 DOGS.	
	Spacing of Cleats		7/8 BOLTS 4 1/2 CRS.		B. DOGS		12 DOGS.		10 DOGS.		8 DOGS.		F.C.A.		8 DOGS.		ATHWARSHIPS.		8 DOGS.		8 DOGS.	
	Number of Tarpaulins		7/8 BOLTS 4 1/2 CRS.		B. DOGS		12 DOGS.		10 DOGS.		8 DOGS.		F.C.A.		8 DOGS.		ATHWARSHIPS.		8 DOGS.		8 DOGS.	

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

Are lashings provided in accordance with rule requirements? NO LASHINGS REQUIRED.

Are wood fore and afters steel shod at all bearing surfaces? NONE

Are battens and wedges efficient and in good condition? YES

002305-002319-0006



Give full particulars of the following :—

Fiddley, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

EFFICIENT FIDDLEY AND FUNNEL VENTILATORS. FIDDLEY OPENINGS PROTECTED BY STEEL COVERS PERMANENTLY ATTACHED. STEEL ENGINE-ROOM SKYLIGHT WITH COVERS SECURED IN POSITION.

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

NONE

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

FORECASTLE DECK. ONE STEEL COMPANION TO CREWS SPACE 4'-11" x 2'-7" x 6'-3" WITH HINGED W.T. STEEL DOOR MANIPULATED FROM BOTH SIDES 3'-6" x 1'-11 1/2" SILL 13 1/2" HIGH.

UPPER DECK PUMP ROOM STEEL ENTRANCE ON AFTER WELL 6'-3 1/2" x 15'-1 1/2" x 8'-6" AT CENTRE 8'-3" AT SIDES STIFFENERS 3" x 2 1/2" x 1/4" O.A. SPACED 22" APART BRACKETED BOTH ENDS. STEEL W.T. DOOR 5'-5" x 2'-4" SILL 16" HIGH MANIPULATED FROM BOTH SIDES.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements) Please copy in pencil as there may be further alterations.

FORECASTLE DECK. PORT SIDE- 1 C.V. 11 3/4" DIA. 20" COAMING, 1 C.V. 11 1/2" DIA. 13" COAMING, 1 C.V. 9" DIA. 18 1/2" COAMING. STARBOARD SIDE- 1 C.V. 11 3/4" DIA. 18" COAMING, 1 C.V. 9" DIA. 18" COAMING, 1 C.V. 7 3/4" DIA. 22" COAMING, 1 C.V. 5 1/4" DIA. 22" COAMING.

UPPER DECK. 1 P.E.S. 17 3/4" DIA. 36" COAMING, 2 C.V. 11 1/4" DIA. 35 1/2" COAMING, 2 C.V. 12 3/4" DIA. 20" COAMING ON TOP OF PUMP ROOM ENTRANCE.

POOP DECK. PORT SIDE- 1 C.V. 17 3/4" DIA. 1 C.V. 8" DIA. 1 C.V. 11" DIA. 1 C.V. 8" DIA. 1 C.V. 12" DIA. 1 C.V. 11 1/2" DIA. 1 C.V. 9 3/4" DIA.

AVERAGE HEIGHT OF COAMINGS 22". 16" C.V. 1 1/8" M.V. 1 1/8" M.V. COAMINGS 24" HIGH. STARBOARD SIDE- 1 C.V. 17 3/4" DIA. 1 C.V. 7" DIA. 1 C.V. 8 1/2" DIA. 1 C.V. 12" DIA. 1 C.V. 12" DIA. AVERAGE HEIGHT OF COAMINGS 22". 15" C.V. 24" COAMING.

ON POOP DECK HOUSES. 2 C.V. 11 3/4" DIA. 13" COAMING, 2 C.V. 11 3/4" DIA. 20" COAMING, 1 M.V. 6 1/2" DIA. 7 1/2" COAMING, 1 C.V. 11 3/4" DIA. 17" COAMING, 1 C.V. 11 3/4" DIA. 17" COAMING.

WOOD PLUGS. AND CANVAS COVERS SUPPLIED.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

FORECASTLE DECK 1- 2 1/2" DIA. 2- 3" DIA. 13" TO OPENING

UPPER DECK P. 1- 3" DIA. 13 1/2" TO OPENING. S. 1- 2" DIA. 19" TO OPENING.

POOP DECK GOOSENECK AIR-PIPES FITTED WITH HINGED STEEL FLAPS AND GAUZES.

HEIGHT TO OPENING 11" - 12"

ALL AIR-PIPES SUPPLIED WITH CANVAS COVERS.

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

DECK SCUPPERS. FORWARD WELL 3 P.E.S. 6" x 5 1/2" OPENINGS IN STRINGER ANGLE.

AFTER WELL 4 " " " 7" x 6" " " " "

POOP DECK 5 " " " 4" x 3" " " " "

GALLEY REFUSE TRUNK 20" x 13" FROM ABOVE POOP DECK DISCHARGING OVERBOARD. UPPER EDGE OF OPENING 3'-0" BELOW FREEBOARD DECK STARBOARD SIDE HINGED STEEL COVER.

SANITARY DISCHARGES.

POOP: FROM SPACES ABOVE FREEBOARD DECK - ANGLE TYPE Q.M. STORM VALVES BELOW FREEBOARD DECK.

BRIDGE: " " " " " " " " " " " " ABOVE " "

FORECASTLE: " " " " " " " " " " " " BELOW " "

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

FORECASTLE. TO CREW AND STORE SPACES 10" DIA. SIDE SCUTTLES WITH HINGED DEADLIGHTS.

POOP " " " " " 12" " " " " " "

BRIDGE 10" x 12" " " " " " "

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

6'-6"

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

FORECASTLE. STANCHIONS 4'-3" APART WITH GUARD RAILS 3'-11" HIGH. RAILS SPACED 11 1/2" APART.

BRIDGE DECK. AT FORE AND AFTER ENDS STANCHIONS 4'-5" APART WITH GUARD RAILS 3'-9" HIGH RAILS SPACED 13" APART.

POOP DECK. STANCHIONS 4'-1" APART WITH GUARD RAILS 3'-7" HIGH. RAILS SPACED 11 1/2" APART.

Gangways and Lifelines

GANGWAY OVER FORE WELL BETWEEN FORECASTLE AND BRIDGE AND OVER AFTER WELL FROM BRIDGE TO POOP WITH STANCHIONS 4'-0" APART AND GUARD RAILS 3'-3" HIGH. RAILS SPACED 1'-7" APART.

Gangway, Cargo and Coaling Ports in sides of ship

NONE



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SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructure and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



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