

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER: *"OAKLEY" ex "Empire Coniferstone"* WITH TIMBER DECK CARGO
WITHOUT

Nationality *BRITISH* Builders' Name and No. of Ship *Schiffbau Gesellschaft*
 Port of Registry *LONDON* *Münsterweyer*
 Official Number *180665* Owners *ITHACA SHIPPING CO*
 Gross Tonnage *987* *Camomile St. Landau EC3*
 Date of Build *1921* Port and Date of survey *SOUTH SHIELDS*
 Name of Surveyor *Alan Linnell*
 Particulars of Classification *BS ()* Names of Sister Ships

Type of Superstructures *Full - Bridge & Poop*

Trade of Ship

Service Endorsement if any

and only so long as the ship is engaged between the United Kingdom & Continental ports.

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

TROPICAL FRESH WATER LINE above centre of disc	NOT ASSIGNED	Corresponding Freeboard	<div style="border: 1px solid black; padding: 2px;">1'-3$\frac{1}{4}$"</div>
FRESH WATER LINE	3 $\frac{1}{2}$ "	" "	11 $\frac{3}{4}$ "
TROPICAL LINE	NOT ASSIGNED	" "	
WINTER LINE below " "	3 $\frac{1}{2}$ "	" "	<div style="border: 1px solid black; padding: 2px;">1'-6$\frac{3}{4}$"</div>
WINTER NORTH ATLANTIC LINE " " "	NOT ASSIGNED	" "	

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard	
FRESH WATER " " " "		" "	
TROPICAL " " " "		" "	
WINTER " " below " "		" "	
WINTER NORTH ATLANTIC " " " "		" "	

Number of years recommended for load line certificate *5 YEARS*

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



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Secretary

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COMPUTATION OF FREEBOARD

Length on summer load line 216'-3" Moulded Breadth 34'-6 1/2" Moulded Depth 15'-7" Depth of Keel

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .825$ (ASSUMED)

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

Moulded depth

Stringer Plate

Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$

Rise of floor (in sailers)

Depth for Freeboard (D)

Table Depth

Depth Correction $(15.61 - 14.42) \times 1.663 = +1.98$

If restricted by superstructures

Deduction for Fresh Water $\frac{\Delta}{40T} = 3\frac{1}{2}$ inches

Round of Beam Correction

Ships Round of Beam 9 inches

Standard Round of Beam $\frac{B \times 12}{50} = 8.29$

Difference

Restricted to

Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = \frac{.71}{4} \times .3215 = -.06$

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck	58.66		3.92	58.66		58.66
Bridge	62.80 F Q.M.F. 29 A		7.33	65.16	Q.M.F. .58	62.80
Forecastle	25.00		7.50	25.00		25.00
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" Forward						
Totals	146.75			149.40		146.75

Standard Height of Superstructure 6.0
 " " R.Q.D. 3.775
 Percentage covered S/L = 69.08
 " " E/L = 67.85
 " from Table line A, (corrected for
 absence of forecastle if required) 59.34
 Percentage from Table by interpolation for Bridge
 less than .2L if required =
 Deduction = $27.03 \times .5934 = -16.40$
 Percentage from Table for Tankers (or Timber ships) =
 Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	30"	31.62	30"	1	30
1/2 L from A.P.	12 1/2"	14.075	12.5"	4	50
1/2 L from A.P.	2"	3.48	2"	2	4
Amidships	-	-	-	4	-
1/2 L from F.P.	10"	6.96	10"	2	20
1/2 L " "	36"	28.15	36"	4	144
F.P.	80"	63.25	80"	1	80

Effective Mean Sheer

Standard " " .05L + 5

Difference

Mean Actual sheer aft = 7.75

Mean Actual sheer forward =

Length of enclosed superstructure forward of amidships = 0726

Length of enclosed superstructure aft of amidships = .5

Sheer Correction = Difference $\times \left(.75 - \frac{S}{2L}\right) = 2.3(75 - .3454)$ If limited on account of midship superstructure $\frac{.97 \times 12.56}{20} = .84$

" to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 25.92

Correction for co-efficient = $\frac{.825 \times .68}{1.36} = \frac{1.665}{1.36} = 30.59$

	+	-
Depth correction	1.98	
Deduction for superstructures		16.40
Sheer correction		.84
Round of Beam correction		.06
Correction for thickness of deck amidships		
Other corrections, scantlings, etc.		
	1.98	17.30

Summer Freeboard in inches

Additional allowance for superstructures on

Timber carrying ships

Summer Timber Freeboard in inches

Depth to Freeboard Deck in feet

Summer Freeboard in feet

Moulded Draught (d)

Addition for Keel

Extreme draught

Deduction for Tropical and addition for Winter freeboard $d/4 = 3\frac{1}{2}$ ins.

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

Deduction for Tropical Timber Freeboard $d/4$ = ins.Addition for Winter " " $\frac{d}{3}$ = ins.

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

Form LL. 4.D.

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

SHIP'S NAME

Oakley

OFFICIAL NUMBER

180665

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	-	22"	3x22" EW	26"	NIL	OPEN		7'-6"
R.Q.D. "								
Bridge Aft Bulkhead	-	30	5x2 1/2x320A	30"	BRACKETS	4 1/2" x 24" HIGH	14"	7'-4"
" Forward "	38	37	7'x3'x45BA	30"	TOP & BOTTOM BRACKETS	4'-2" x 36 1/2"	22"	7'-4"
Forecastle Bulkhead	32	27			TOP & BOTTOM	4'-6" x 28"	18"	7'-6"
Trunk, Aft	-	-	-	-	-	-	-	-
" Forward	-	-	-	-	-	-	-	-
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	40"	36"	2 1/8" x 2 1/8" x 26	23"	PART BRKS AT TOP	5'-0" x 29"	18"	7'-3"
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances	38	32	3x2 1/2x30	22 1/2"	RIVETED TO BRKS AT TOP	NONE		
Deckhouses on flush deck ships								

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 Super-

structures not fitted with Cl. 1

Closing Appliances

Deck houses on flush deck ships

Steel door (Yes)

INTACT

BOLTED PLATES. BOLTS SPACED 4", TAPPED THRU' BHD

PORTABLE PLATES WITH HOOK BOLTS

HINGED STEEL DOOR - OPERATED BOTH SIDES

HINGED STEEL DOORS - OPERATING EITHER SIDE

NO OPENING

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 R.Q.D.K.	45'-0"	3.92'	3 AT 2.50' x 1.56'	11.7 f	11 f
Forward Well	64'-0"	4.00	3 AT 2.50' x 1.56'	11.7 f	13 f

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

After Well 7'-4" & 26'-0" FROM BRIDGE END TO FORE END OF OPENING

Forward Well 7'-3", 28'-2" & 52'-11" FROM F' END SIDEHOUSE TO FORE END OF OPENING ALL 10" ABOVE DECK

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

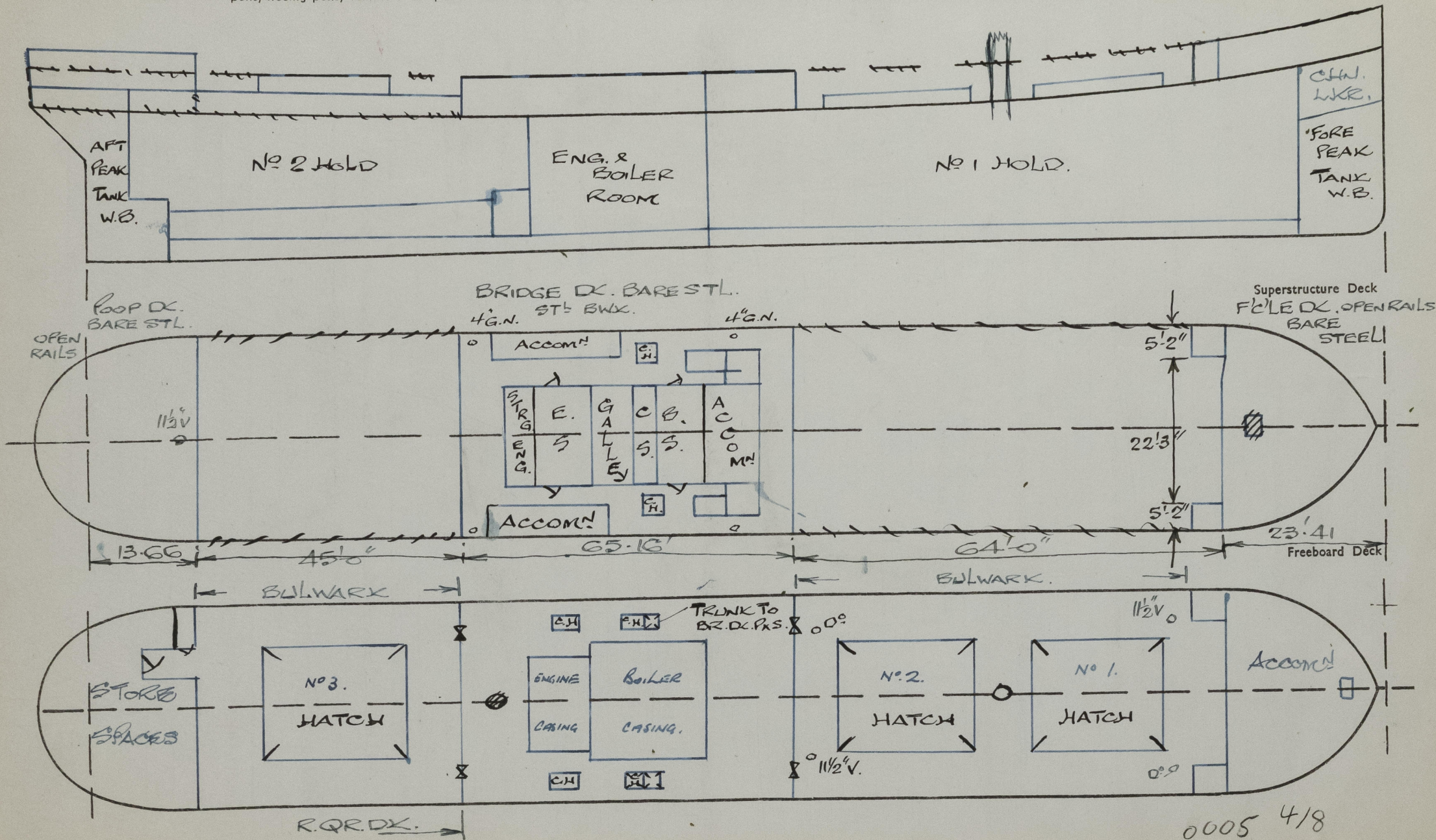
SHUTTER & BAR

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

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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	FBD DECK No 1	FBD DK No 2	R.Q. DK No 3	BRIDGE COAL HATCHES	CASING TOP COAL HATCH	FBD DECK FORE PEAK	COAL HATCH	COAL HATCH
Dimensions of Hatchway	20'-7" x 14'-6"	24'-3" x 14'-6"	24'-3" x 14'-6"	3'-9" x 3'-1"	2'-9" x 11'-5"	1'-6" x 8"	3'-9" x 3'-1"	3'-6" x 2'-6"
COAMINGS	Height above steel deck	33	33	18"	22 1/2"	6"	4'-3" x 3'-4"	4'-3" x 3'-4"
	Thickness sides	.45	.45	.32	.32"	.28"		
	Thickness ends	.38	.38					
	Stiffeners	5" x 2 1/2" BA AT SIDES	5" x 2 1/2" BA AT SIDES	5" x 2 1/2" BA AT SIDES				
HATCH BEAMS	Brackets or Stays	6" B.P. 6'-10" APART	6" B.P. 8'-1" APART	6" B.P. 8'-1" APART				
	Number	2	2	2				
	Spacing	6'-10"	8'-1"	8'-1"				
	Scantling and Sketch	3 1/2" x 40	3 1/2" x 40	3 1/2" x 40				
FORE AND AFTERS	Bearing Surface and thickness of carriers or sockets	3"	3"	3"				
	Number	3	3	3				
	Spacing	3'-8"	3'-8"	3'-8"				
	Unsupported lengths	6'-3 1/2"	7'-6 1/2"	7'-6 1/2"				
HATCH COVERS	Scantling and Sketch	CENTRE 7 1/2" x 7 1/2" WOOD SIDE 7" x 3 1/2" x 42 BA. WITH 2 1/2" x 2 1/2" x 58 HTG. ANGLES AT TOP						
	Bearing Surface and thickness of carriers or sockets	3	3	3				
	Material	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.
	Thickness	2 1/2"	2 1/2"	2 1/2"	2"	3"	2 1/4"	2 1/4"
	How Fitted	T	T	T	T	T	T	T
	Bearing Surface	2"	2"	2"	2"	1 3/4"	2 1/2"	2 1/2"
	Spacing of Cleats	24" - 4"	24" - 4"	24" - 4"	24"	24"	27"	27"
	Number of Tarpaulins	2	2	2	2	2	1	1
Are tarpaulins in good condition and in accordance with rule requirements?				ALL RENEWED				
Are lashings provided in accordance with rule requirements?				LOOKING BARS				
				Are wood fore and afters steel shod at all bearing surfaces?				
				Are battens and wedges efficient and in good condition?				

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)

FIDDLEY OPENINGS FITTED WITH HINGED STEEL COVERS
E.R. SKYLIGHT IS STEEL WITH GLASS LIGHTS
FUNNEL COAMINGS & VENTS ARE EFFICIENT

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

IN BRIDGE BETWEEN DECK SPACE (P.S.) CAST IRON COVER
WITH BOYONET JOINT

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)

F'LE DECK - STEEL COMPANION WITH HINGED STEEL DOOR OPERATING EITHER
SIDE OPENING 4'-5" x 18 1/2" SILL 12 1/2"

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)

F'LE DK 2 AT 6" DIA COAMING 30" x 20"
FBD DK 4 " 11 1/2" " 36" x 34"
BRIDGE 4 G.N. 4" 8 TO MOUTH
R.Q. DECK 2 AT 11 1/2" COAMING 30" x 34"
POOP " 1 " " " " " "

CLOSING APP. WOOD PLUGS & CANVAS COVERS

ADDITIONAL ON F'LE 2'-6" DIA COAMING 30" x 30" WOOD PLUGS & CANVAS COVERS
2'-6" " " 16" WITH FRENCH TYPE HEAD

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

F'LE DECK 1 AT 1 1/2" x 12 7" TO MOUTH 2 AT 1 1/2" x 6" TO MOUTH
FBD " 2 " 1 1/2" x 36" " "
BRIDGE " 2 " 1 1/2" x 32" " "
POOP " 1 " 1 1/2" x 18" " "

CLOSING APP. WOOD PLUGS

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

STORM VALVES FITTED

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

HINGED DEADLIGHTS FITTED

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

NONE BELOW FBD. DECK

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

F'LE DK	2 TIER RAILS	3'-2" HIGH	STANCHIONS	AST 4'-3" APART
FBD "	BULWARKS	4'-0" "	"	6 1/4" BP SPACED 5'-7" RAIL 6x3 —
BRIDGE "	"	3'-7" "	"	5" " " 5'-7" " 5x3 *
R.Q. "	"	3'-11" "	"	6 1/4" " " 5'-7" " 6"x3" "
POOP "	2 TIER RAILS	5'-4" "	"	AST 4'-8" APART

* ADEQUATE FREEING
PORT AREA

Gangways and Lifelines

LIFELINE OVER HATCHES ON FBD. DECK. WITH GANGWAY BETWEEN HATCHES

Gangway, Cargo and Coaling Ports in sides of ship

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures 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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