

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT 1863

LL40 for B/T. ✓
LL40 for owners. ✓

+18

SURVEY FOR FREEBOARD

How. ST. MARGARET

STEAMER, TANKER, SAILER: SS "EMPIRE CAMERON" WITH/TIMBER DECK CARGO WITHOUT

Nationality BRITISH Builders' Name and No. of Ship Wm Denny & Bros Ltd 1358

Port of Registry NEWPORT 1101.

Official Number 168704 Owners MINISTRY OF WAR TRANSPORT.

Gross Tonnage 705 5224.95. MANAGERS: FRANK C. STRICK & Co. LONDON.

Date of Build 12/1941. Port and Date of survey DUNBARTON 1941.

Name of Surveyor Reginald Tolson.

Particulars of Classification B.S. X (WITH FREEBOARD) Names of Sister Ships EMPIRE KINGSLEY.

Type of Superstructures CLOSED SHELTER DECKER.

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)			
TROPICAL FRESH WATER LINE	above centre of disc	<u>13 1/2"</u> ✓	Corresponding Freeboard <u>9' 8"</u>
FRESH WATER LINE	" " "	<u>7"</u> ✓	" " <u>10' 2 1/2"</u>
TROPICAL LINE	" " "	<u>6 1/2"</u> ✓	" " <u>10' 3"</u>
WINTER LINE	below " "	<u>6 1/2"</u> ✓	" " <u>11' 4"</u>
WINTER NORTH ATLANTIC LINE	" " "	<u>-</u>	" " <u>-</u>

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

Date of Expiry. 25 Dec 1946
" Issue. 26 Dec 1941

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

[Signature]
Chief Surveyor

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

on the 3rd December 1941.

[Signature]
Secretary

STANDARD "Y" TYPE COMPUTATION OF FREEBOARD

Length on summer load line **425-0** Moulded Breadth **56'-0"** Moulded Depth **36'-10 1/2"** Depth of Keel **.78**
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth **16400.** Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7695$ ✓
 Displacement and tons per inch immersion in salt water at summer load line **13510 @ 48.1**
 Moulded depth **36.875** ✓ Deduction for Fresh Water $\frac{\Delta}{40T} = 7$ ✓ inches
 Stringer Plate **.66** ✓ Round of Beam Correction
 Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ **.055** ✓ Ships Round of Beam **14.00** inches
 Rise of floor (in sailers) **-** Standard Round of Beam $\frac{B \times 12}{50} = 13.44$ ✓
 Depth for Freeboard (D) **36.930** ✓ Difference **.56** ✓
 Table Depth $\frac{4}{16} = 28.333$ ✓ Restricted to
 Depth Correction $3 \times 8.597 = 25.791$ ✓ Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .14 \times .91647 = .13$ ✓
 If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	35'-6"	-	7'-6"	35.5	-	35.5
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" " Forward						
Totals						

Standard Height of Superstructure **7'-6"** ✓
 " " R.Q.D. **-**
 Percentage covered S/L = **8.353%** ✓
 " " E/L = **8.353%** ✓
 " from Table line A, B, (corrected for absence of forecastle if required) **1.177%** ✓
 Percentage from Table by interpolation for Bridge less than .2L if required = **-**
 Deduction = **42.04177 = 1.75** ✓
 Percentage from Table for Tankers (or Timber ships) = **-**
 Deduction = **-**

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	54	52.5	54	1	54
1/3 L from A.P.	24	23.36	24	4	96
1/3 L from A.P.	6	5.78	6	2	12
Amidships	-	-	-	4	-
1/3 L from F.P.	12	11.55	12	2	24
1/3 L " "	48	46.72	48	4	192
F.P.	108	105.0	108	1	108
				18	486
Effective Mean Sheer					27.000 ✓
Standard " " .05L + 5					26.250 ✓
Difference					.750 ✓

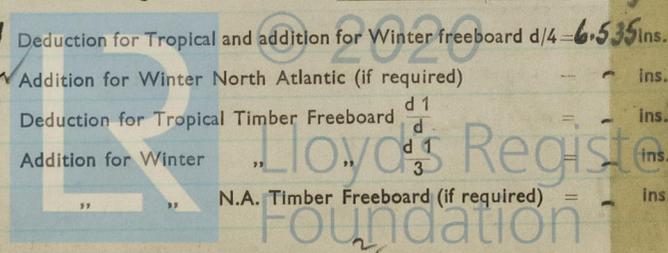
Mean Actual sheer aft = **MORE THAN ONE** ✓
 " Standard " " ✓
 Mean Actual sheer forward = **MORE THAN ONE** ✓
 " Standard " " ✓
 Length of enclosed superstructure forward of amidships = **-**
 Length of Ship
 Length of enclosed superstructure aft of amidships = **-**
 Length of Ship
 Sheer Correction = Difference $\times \left(75 - \frac{S}{2L}\right) = .75 \times .70823 = .5312$ ✓
 If limited on account of midship superstructure = **.09** ✓
 " to maximum allowance of 1 1/2 ins. per 100 ft. = **-**

TABULAR FREEBOARD corrected for flush deck if required = **79.35 + 1.05 = 80.40** ✓
 Correction for co-efficient = $\frac{1.4495}{1.36} = 85.69$ ✓

	+	-
Depth correction	25.79	-
Deduction for superstructures	-	1.75
Sheer correction	-	.09
Round of Beam correction	-	.13
Correction for thickness of deck amidships	-	-
Other corrections, scantlings, etc.	19.99	-
	25.78	1.97
		43.81

SAID TO BE
 Steamer
 Timber
 Depth to Freeboard Deck in feet **36.930** ✓
 Summer Freeboard in feet **10.792** ✓
 Moulded Draught (d) **26.138** ✓ (d1)
 Addition for Keel **.065** ✓
 Extreme draught **26.203** ✓

Summer Freeboard in Inches $S = 10'-9 1/2"$ = **129.5** ✓
 Additional allowance for superstructures on
 Timber carrying ships = **-**
 Summer Timber Freeboard in inches = **-**
 Deduction for Tropical and addition for Winter freeboard $d/4 = 6.535$ ins.
 Addition for Winter North Atlantic (if required) = **-** ins.
 Deduction for Tropical Timber Freeboard $\frac{d}{d}$ = **-** ins.
 Addition for Winter " " $\frac{d}{3}$ = **-** ins.
 " " N.A. Timber Freeboard (if required) = **-** ins.



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THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

CONDITIONS OF ASSIGNMENT

SHIPS NAME **"EMPEROR CAMERON"**
 Nationality and Port of Registry **BRITISH NEWPORT, N. I.**

OFFICIAL NUMBER **168704**

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 on SUPER V.K.	.28"	.28"	3x3x.30"	2'-6"	—	1 @ 5'-0" x 4'-0" 3 @ 5'-0" x 2'-6"	18"	7'-6"
Trunk, Aft	—	—	—	—	—	—	—	—
" Forward	—	—	—	—	—	—	—	—
Exposed Machinery Casings on Freeboard R.Q. Decks	.34	.30	3x3x.30"	31"	Bkts @ Top.	2 @ 5'-0" x 2'-0"	18"	7'-9"
Exposed Machinery Casings on superstructure decks	—	—	—	—	—	—	—	—
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances	.34	.30	3x3x.30"	31"	Bkts @ Top.	2 @ 5'-0" x 2'-3"	18"	7'-9"
Deckhouses on flush deck ships - Side	.34	.30	3x3x.35"	2'-8"	Bkts T & B.	3 @ 5'-0" x 2'-0"	18"	7'-6"
X Deckhouse	.30	.25	3x3x.35"	3'-2"	Rev. thro' L.	—	—	7'-6"
Oft. Deckhouse	.28	.25	3x3x.28"	3'-2"	Bkts Top.	3 @ 5'-0" x 2'-0"	18"	7'-6"
						4 @ 4'-0" x 2'-9"	21"	7'-6"

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

Poop Bulkhead	—
R.Q.D. "	—
Bridge Aft Bulkhead	—
" Forward "	—
Forecastle Bulkhead	Tonnage Opening closed by Bolted Steel Plate. 3-Hinged Steel Doors each. Liddley Steel Door opening from both sides. (Hinged) side.
Exposed Machinery Casings on Freeboard R.Q. decks	—
Exposed Machinery Casings on superstructure decks	—
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	Engine Room Entrance. Hinged Steel Door opening from both sides.
Deck houses on Flush Deck ships	Hinged Steel Door opening from 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			OPEN RAILS.		
Forward Well					

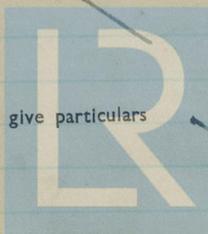
State fore and aft position and height above deck to bottom of port, for each port

} After Well

} Forward Well

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

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

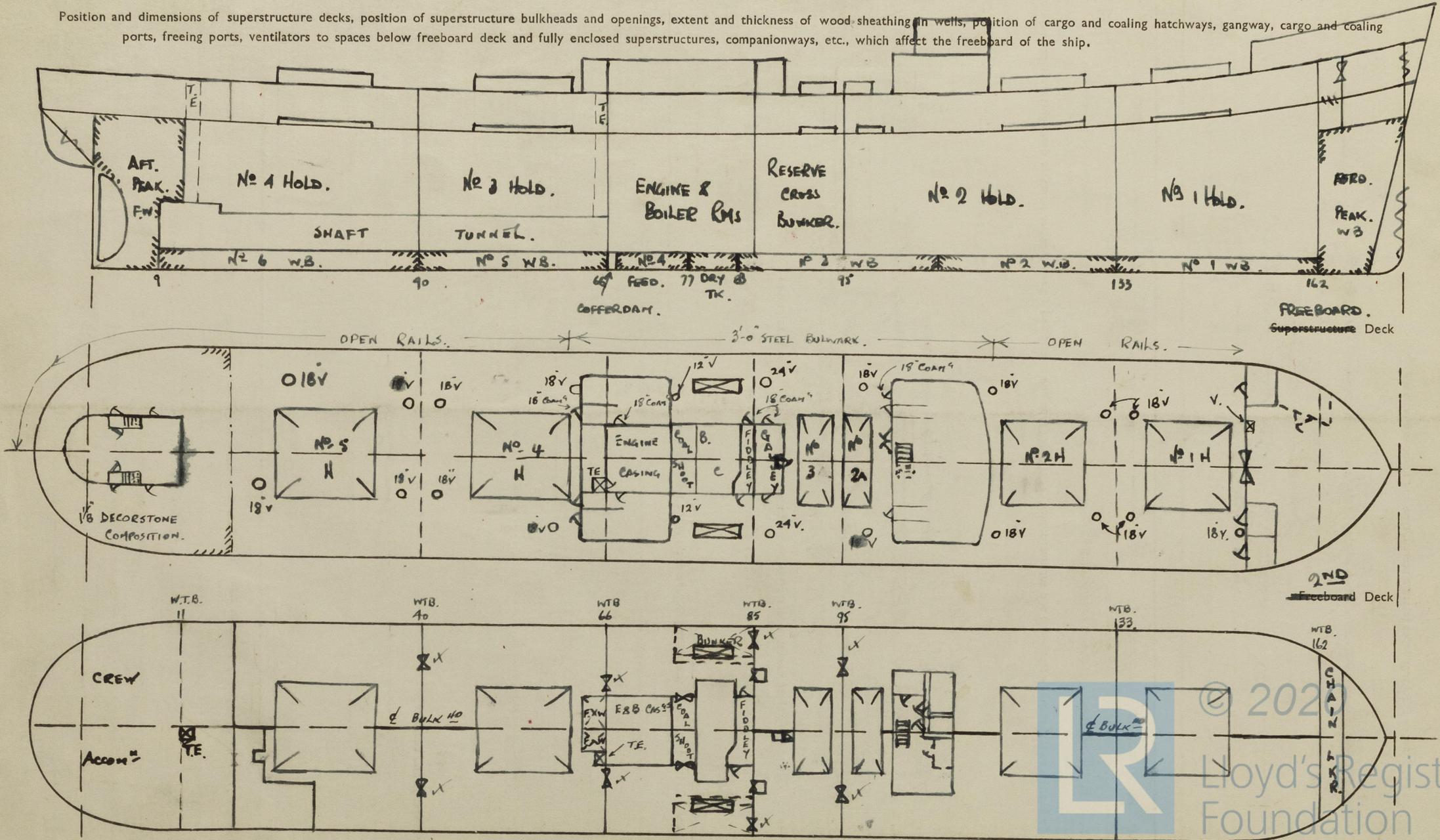


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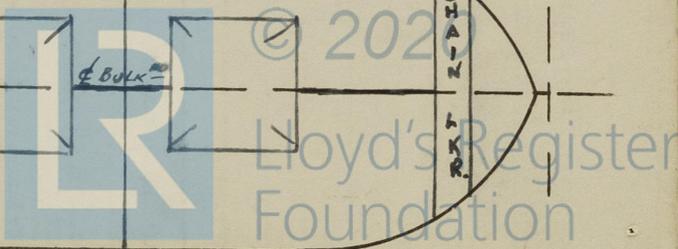
19-69
1831
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Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



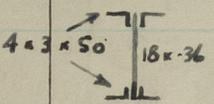
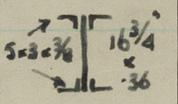
X 5'-0" x 4'-0" TONNAGE OPENINGS, CLOSED WITH BOLTED PLATE COVERS. BOLTS, W.T. PITCH. (50145)

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Hatches on 2nd Dk. all 9" BA. Boamings. NO cleats fitted.

PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	UPPER Dk.						BUNKER HATCH	
	No 1	No 2	No 2A	No 3	No 4	No 5	P & S	
Dimensions of Hatchway	31'-6" x 20'-0"	31'-0" x 20'-0"	12'-11" x 20'-0"	10'-4" x 20'-0"	31'-0" x 20'-0"	31'-0" x 20'-0"	15'-6" x 5'-0"	
COAMINGS	Height } steel { deck		30" side		30" side		30"	
	wood { ends		.44		.44		.44	
COAMINGS	Thickness { sides		.44		.44		.44	
	ends		.44		.44		.44	
Stiffeners	7 x 3 x 3/8 BA.	8 x 3 1/2 x 7/16 BA.	7 x 3 x 3/8 BA.	7 x 3 x 3/8 BA.	8 x 3 1/2 x 7/16 BA.	7 x 3 x 3/8 BA.		
Brackets or Stays	2 1/2 Dia. 3s. 1E.	- do -	1s. 1E	1s. 1E	As No 1	As No 1	-	
HATCH BEAMS	Number	5	5	1	1	5	5	
	Spacing	5'-8"	5'-2"	6'-5 1/2"	3'-10 1/2" & 6'-5 1/2"	5'-2"	5'-2"	
	Scantling and Sketch	4 x 3 x 50	5 x 3 x 30	As 2	As 2	As 2	As 2	
				WEB 19 1/2	WEB 19 1/2			
Bearing Surface and thickness of carriers or sockets	3'	3'	3'	3'	3'	3'		
FORE AND AFTERS	Number	/						
	Spacing							
	Unsupported lengths							
	Scantling and Sketch							
Bearing Surface and thickness of carriers or sockets								
HATCH COVERS	Material	WOOD.	WOOD	WOOD	WOOD	WOOD	WOOD.	
	Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	
	How Fitted	F & A.	F & A.	F & A.	F & A.	F & A.	ATHWARTSHIP.	
	Bearing Surface	4" S.	5"	5"	5"	5"	3"	
	Spacing of Cleats	24"	24"	24"	24"	24"	24"	
Number of Tarpaulins	2	2	2	2	2	2		

Entrance to hold from
trunk in galley front.
18" beaming. Steel
Hinged door opening
from both sides.

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? *NONE.*
Are battens and wedges efficient and in good condition? *Yes.*



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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 casing - Steel Hinged covers.
Engine Room Skylight - Steel Hinged covers. 6 in number - no lights therein.

Bunker Hatch:- 5'-2" x 18'-0" 2 1/2' covers Wood.

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)

Companionway to Repair Store Deckers' House.
Hinged Steel Door with 18" boaming.
opening from both sides.

Companionway P.D. aft to crew's Accom.
Hinged Steel Door with 21" boaming
opening 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)

Vents on freeboard Deck 36" boamings. All vents welded directly to the deck.

Vents closed with Wood Plugs + canvas covers.

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

Height to openings. - 30" on freeboard DK.
18" on forecastle DK.
All closed with wood plugs + canvas covers.



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

Pipes of N.I.
 N.R. Ship's Side Valves:- Maston House 1 0 4"
 1 0 2"
 Gally. 2 0 2"
 1 0 2"
 X Accom. 2 0 4"
 2 0 2 1/2"

Aft bow. 2 0 4"
 2 0 2 1/2"

2 1/2" Scuppers from Tween Decks to Bilges Pass. open ends.

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

2 - 10" Port. } Steering Gear Comp.
 2 - 10" Starb. }
 8 - 10" Port to Seaman's Accom.
 8 - 10" Starb. to Forward Accom.
 4 - 10" Starb. to Forward Accom. Starb.

Hinged deadlights fitted to all, sidelights or permanently attached thereto.

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

approx. 12" (side scuttle aft.)

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

OPEN RAILS - SEE SKETCH.

Gangways and Lifelines

691
 2 1/2
 706 92 v
 7.860 Forward & Aft.

Gangway, Cargo and Coaling Ports in sides of ship

2436

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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