

Form LL. 4.C. Revised

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

"COE JEAN" SURVEY FOR FREEBOARD

STEAMER, ~~TANKER, SAVER~~ <sup>S.M. EX</sup> ~~EMPIRE FACTOR~~ <sup>EMPIRE FABRIC 29</sup>  
Nationality BRITISH Builders' Name and No. of Ship GOOLE S.B. & R Co LTD  
Port of Registry GOOLE LONDON. GOOLE Nº 417.  
Official Number 130118. Owners E.F. COE  
Gross Tonnage 409.77 C. ROWBOTTOM & SONS. LONDON  
Date of Build JUNE 1944 (MAGS) ELLERMAN WILSON LTD. HULL.  
Particulars of Classification BS\* (COASTING SERVICE) Port and Date of survey GOOLE DURING CONSTRUCTION  
Type of Superstructures POOP & FORECASTLE Name of Surveyor E. HENDERSON.  
Trade of Ship Names of Sister Ships EMPIRE. FABRIC, EMPIRE FABIAN. ETC.  
Service Endorsement if any

RETAILED

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood..... steel)				
TROPICAL FRESH WATER LINE	above centre of disc	<u>2 1/2"</u>	Corresponding Freeboard	<u>1' - 6"</u>
FRESH WATER LINE	" " "	<u>2 1/2"</u>	" "	<u>1' - 3 1/2"</u>
TROPICAL LINE	" " "	<u>0</u>	" "	<u>1' - 3 1/2"</u>
WINTER LINE	below " "	<u>2 1/2"</u>	" "	<u>1' - 6"</u>
WINTER NORTH ATLANTIC LINE	" " "	<u>4 1/2"</u>	" "	<u>1' - 8 1/2"</u>
			" "	<u>1 - 10 1/2"</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

AS this vessel is less than 250'-0" in length the Freeboard Report has not been compared with the approved plans.

*[Signature]*

8 MAR 1951

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 5th July 1944



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Chief Surveyor

Secretary



# COMPUTATION OF FREEBOARD

Length on summer load line 141'0" Moulded Breadth 27'0" Moulded Depth 11'0" Depth of Keel 1/2'

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 725 Tons

Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times .85} = 7130$

Displacement and tons per inch immersion in salt water at summer load line 742 @ 7.95 T.P.I. @ 9'5"

Moulded depth 11.000 Deduction for Fresh Water  $\frac{\Delta}{40T} = 2.333$  inches

Stringer Plate 3/8 .031 Round of Beam Correction

Sheathing on exposed deck T  $(\frac{L-S}{L})$  - Ships Round of Beam 0.00 inches

Rise of floor (in sailers) - Standard Round of Beam  $\frac{B \times 12}{50} = 6.48$

Depth for Freeboard (D) 11.031 Difference 6.48

Table Depth 4/15 9.400 Restricted to

Depth Correction 4/130 1.631 Correction  $\frac{\text{Difference}}{4} \times (1 - \frac{S_1}{L}) = 1.62 \times .2262 = .3665$

If restricted by superstructures 1.769 ON.

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	
Poop	37'6 3/4	-	7'0"	4.26		41.26	Standard Height of Superstructure 6'0"
Raised Quarter Deck							" " R.Q.D. -
Bridge		F					Percentage covered S/L = 40.34 %
		A					" " E/L = 65.46 %
Forecastle	13'8 11/16	1'10"	8'0"	15.63		14.83	" from Table line A, B, (corrected for absence of forecastle if required) 55.28 %
Trunk Aft	35'1		7'0"		18/27	23.39	Percentage from Table by interpolation for Bridge
" Forward	27'10"		3'4"		$\frac{18 \times 2.67}{27 \times 6}$	8.26	less than .2L if required = -
Tonnage Opening Aft	18'10"				$\frac{14.7 \times 2.67}{27 \times 6}$	4.56	Deduction = $20.1 \times 5.528 = 11.11$ T.P.I.
" " Forward							Percentage from Table for Tankers (or Timber ships) =
Totals	267 For Low Beam on Water Freeboard.	23.39		56.89		92.30	Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	
P.	0	24.1	-	1	-	" Standard " "	= LESS THAN 1.
1/8 L from A.P.	0	10.72	-	4	-	Mean Actual sheer forward	= LESS THAN 1.
1/8 L from A.P.	0	2.61	-	2	-	" Standard " "	
Amidships	0	9	-	4	-	Length of enclosed superstructure forward of amidships	=
1/8 L from F.P.	0	5.22	-	2	-	Length of Ship	
1/8 L " "	0	21.44	-	4	-	Length of enclosed superstructure aft of amidships	=
F.P.	0	48.2	-	1	-	Length of Ship	
			18			Sheer Correction = Difference X $(.75 - \frac{S}{2L})$	= 12.05 x 5483 = 6.607 ON
Effective Mean Sheer							
Standard " " .05L + 5					12.05	If limited on account of midship superstructure	=
Difference					12.05	" to maximum allowance of 1 1/2 ins. per 100 ft.	=

TABULAR FREEBOARD corrected for flush deck if required = 14.33

Correction for co-efficient =  $\frac{1393}{136} = 14.68$  DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		
Depth correction	1.77	-		Sailer, Tanker, Steamer Timber
Deduction for superstructures		11.11	Depth to Freeboard Deck in feet	11.031
Sheer correction	6.61	-	Summer Freeboard in feet	1.500
Round of Beam correction	.37	-	Moulded Draught (d)	0.531
Correction for thickness of deck amidships		-	Addition for Keel 1/2"	.042
Other corrections, scantlings, etc.	5.68	-	Extreme draught	9.573
	14.43	11.11	3.32	Deduction for Tropical and addition for Winter freeboard d/4 = 2 1/2 ins.
Summer Freeboard in inches	1'6"		18.00.	Addition for Winter North Atlantic (if required) - 4 1/2 ins.
Additional allowance for superstructures on				Deduction for Tropical Timber Freeboard $\frac{d}{4}$ ins.
Timber carrying ships				Addition for Winter " " $\frac{d}{3}$ ins.
Summer Timber Freeboard in inches				N.A. Timber Freeboard (if required) ins.

DRAUGHT W S.W. RESTRICTED.



# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

## CONDITIONS OF ASSIGNMENT

GANSEY

SHIPS NAME "EMPIRE FACTOR"

OFFICIAL NUMBER 180118

Nationality and Port of Registry BRITISH GUELPH

### 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		5/16" x 1/4"	5 FL x 5/16"	2'-3"	WELDED	2 @ 10" DIA.	5'-1"	7'-0"
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead		5/16"	3' x 3' x 1/4"	2'-2'-6"	WELDED	2 @ 4'-10" x 1'-10"	1'-3"	8'-0"
Trunk, Aft		5/16"	4' x 2' x 3/8"	1'-9"	"	-	-	7'-0"
" Forward		5/16"	4' x 2' x 5/16"	1'-7 7/8"	"	-	-	5'-4"
Exposed Machinery Casings on } Freeboard or R.Q. Decks }								
Exposed Machinery Casings on } superstructure decks }	5/16"	1/4"	4" FL x 5/16"	1'-9"	WELDED AT TOP BRACKET AT BOTTOM	3 @ 4'-11" x 1'-9"	1'-6"	7'-3'-8'-5" 8'-3"
Machinery Casings within Super- structures not fitted with Cl. 1 closing appliances }								
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	

### PARTICULARS OF FREEING ARRANGEMENTS

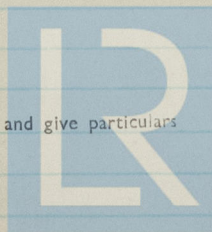
	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
	See sketch				
Forward Well					

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

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

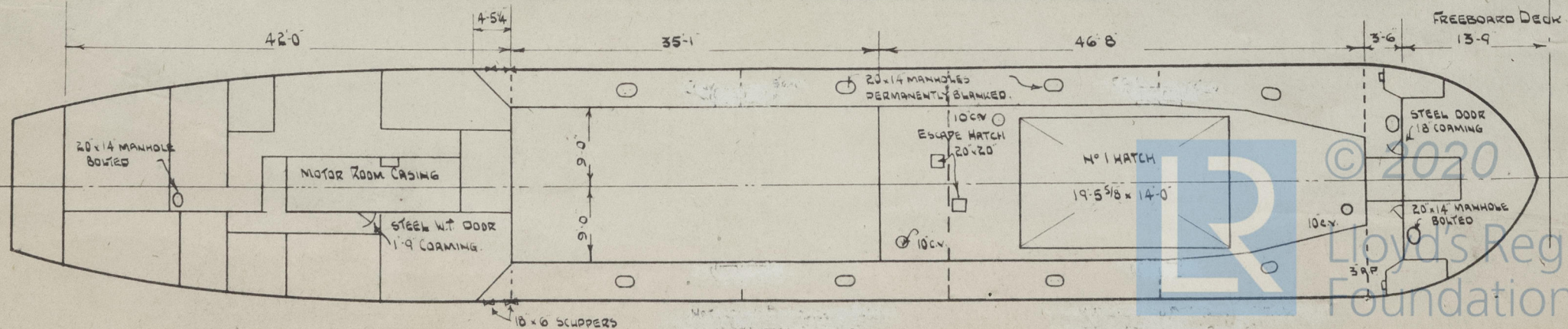
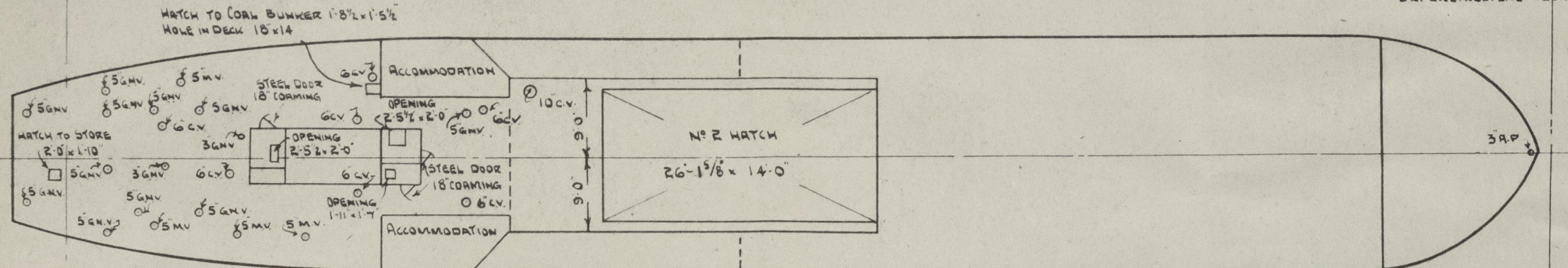
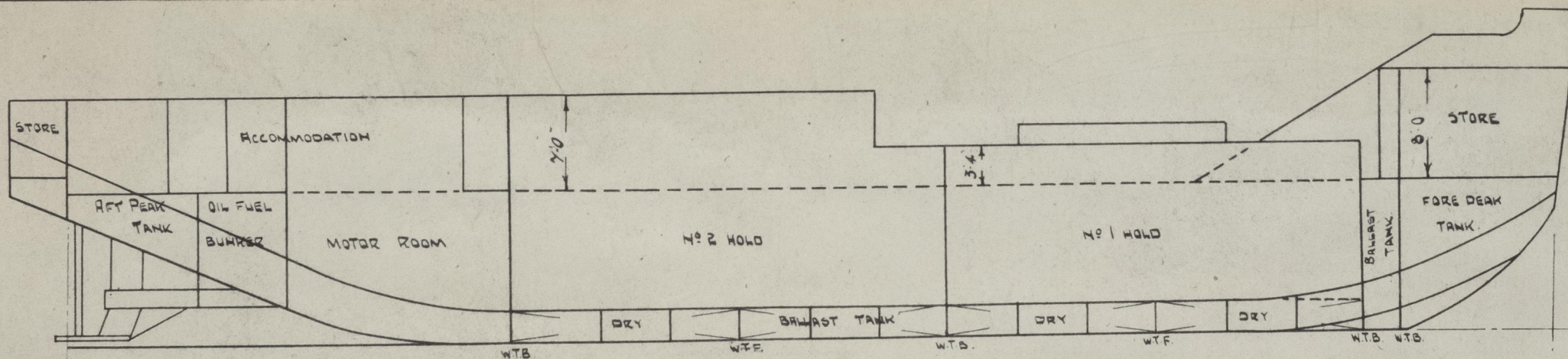


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0288 3/8







# PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward		No. 1 HATCH	No. 2 HATCH	COALING HATCH TO GAULLEY	HATCH TO AFTER STORE	ESCAPE HATCH TO No. 1. HOLD.	ESCAPE HATCH TO No. 2. HOLD.				
Dimensions of Hatchway		20'-0" x 14'-0"	26'-3" x 14'-0"	1'-6 1/2" x 1'-5 1/2"	2' x 1'-10"	1'-9" x 1'-9"	1'-9" x 1'-9"				
COAMINGS	Height above { steel { deck { wood {	4'-2"	7'-10"	1'-4"	1'-6"	1'-6"	1'-6"				
	Thickness { sides { ends	.38" .38"	.38" .38"	5/16"	5/16"	5/16"	5/16"				
	Stiffeners	4 1/2 FLS. x 5/16	4 1/2 FLS. x 3/8"								
	Brackets or Stays	5/16 FLANGED BRTS.	12" x 3/16 FLANGED PLATE								
HATCH BEAMS	Number	2	3								
	Spacing	6'-8"	6'-8"								
	Scantling and Sketch	10" x 6" x 40 LBS	RS JOIST.								
	Bearing Surface and thickness of carriers or sockets										
FORE AND AFTERS	Number	/									
	Spacing										
	Unsupported lengths										
	Scantling and Sketch										
HATCH COVERS	Bearing Surface and thickness of carriers or sockets	/									
	Material			STEEL	WOOD	STEEL	STEEL				
	Thickness			1/4"	2 5/8"	1/4"	1/4"				
	How Fitted			HINGED	F + A.	HINGED	HINGED				
HATCH COVERS	Bearing Surface	/		HEMP PACKING	2"						
	Spacing of Cleats			SECURED BY	2 EACH SIDE	SECURED BY	SECURED BY				
	Number of Tarpaulins			PADLOCK	2	HANDLES	HANDLES				

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?

No

Are battens and wedges efficient and in good condition?

Yes



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0285 5/8



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)

- 1- Cowl vent P+S. 10" dia. 2'-0" coaming welded to casing top 8'-5" above deck.  
 1- G.N. " " 4" " 1'-0" above coaming " " " 8'-5" " "  
 2 Hinged steel skylight flaps P+S. 2'-5" x 2'-0". No bulls eyes on casing top 4'-6" above deck.  
 1- 9"x6 Dual light proof vent 8" coam. welded to casing top 8'-5" above poop deck.  
 1- 2" Dia. G.N. vent. 9" " " " " side 7'-5" " " "

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)

Entrance to officers' accom. 18" steel coaming doors operated both sides.  
 " " cargo " 18" " " " " "  
 " " E room 18" " " " " "

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)

#### Poop Deck

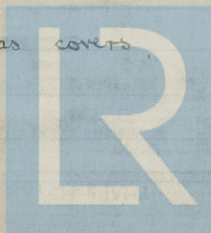
4'-6" Cowl vent	Port	3'-0" coaming studded to deck.	To accommodation + galley. W.P. & C.C.
3'-6" " "	Star.	3'-0" " " " "	" " + saloon. " "
5'-5" G.N. " "	Port	26" " " " "	" pantry, crews space, D.E.M.S. + aft store. "
4'-5" " " "	Star.	26" " " " "	" wash places, W.C. + aft store. " "
1'-5" " " "	on f	26" " " " "	" D.E.M.S. " "
2'-5" M. " "	Port	" " " " "	" crew's space + D.E.M.S.
3'-5" " " "	Star.	26" " " " "	" accom. + W.C.

2'-10" Cowl vent P+S. 27" to cargo hold. W.P. & C.C.

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

1'-5" G.N. airpipe on f	2'-0" above forecastle deck.	Studded to deck.	To fore peak.
1'-3" " " P+S.	2'-3" " upper	" " " "	" fore cofferdam.
1'-5" " " "	2'-2" " "	welded to deck	" Nos. 1, 2, 3, 4, tank side comptr.
1'-3" " " star.	1'-6" " poop	" " " "	" aft peak.

All air pipes fitted with wood plugs + canvas covers.



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

Port 1-2" Gunmetal screw down valve straight thro type spindle extended to deck.  
Star 2-2" " " " " " " " " " " " "  
Star 1-4" " " " " " " " " " " "

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

10" Dia. clear glass hinged side lights in poop sides with permanent deadlights.  
8 " " " " " " " " " " " "

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)

3" x 2 1/2" Stanchions fitted around sides + after and poop deck.  
 3" x 2 1/2" " " on upper deck from poop front to forecabin front P+S. (Rails 13" apart).  
 3" x 2 1/2" " " across forecabin deck after end.

## Gangways and Lifelines

1 1/2" steel wire lifeline from poop to forecabin.  
1 1/2" " " fitted around each hatch.

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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