

253 x 43'-1/2" x 20'-0 3/8"

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

1510.

STEAMER, TANKER, SAILER JOHN S. PILLSBURY S.S. WITH ☐ WITHOUT ☒ TIMBER DECK CARGO

Nationality British Builders' Name and No. of Ship Carlo S. & E. Co. Ltd Hull.

Port of Registry St. Catharines Ont. TORONTO. Yard No 668

Official Number 149071 Owners Eastern Steamship Co. Ltd

Gross Tonnage 1754 Upper Lakes & St. Lawrence Transportation Co. Ltd.

Date of Build 3/1926 Port and Date of Survey Toronto, Ont. 14/4/37

Particulars of Classification B.S. X [Great Lakes & Limited Gulf of St. Lawrence Service] Name of Surveyor E. Russell Macmillan

Type of Superstructures Lancashire (smk) Names of Sister Ships "GEORGE L. TORIAN", "SHIRLEY G. TAYLOR",
"JOHN A. HOLLOWAY", "SHELTON WOOD"

Trade of Ship

Service Endorsement if any and only so long as the ship is employed
in Great Lakes & Limited Gulf of St. Lawrence Service.

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

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

- 1 June 1936.

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 14th December 1938



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Secretary

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COMPUTATION OF FREEBOARD

Length on summer load line	253'	Moulded Breadth	43'-1 1/2"	Moulded Depth	20'-0 1/2"	Depth of Keel	
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth	4472					Tons	
Co-efficient of fineness for use with tables	$\frac{\Delta \times 35}{L \times B \times D \times .85} = .842$						
Displacement and tons per inch immersion in salt water at summer load line							
Moulded depth	20.042			Deduction for Fresh Water	$\frac{\Delta}{40 T} =$		
Stringer Plate	84" x .60"	.050		Round of Beam Correction			
Sheathing on exposed deck T	$\left(\frac{L-S}{L} \right)$	-		Ships Round of Beam		10.5	
Rise of floor (in sailers)		-		Standard Round of Beam	$\frac{B \times 12}{50}$	10.3	
Depth for Freeboard (D)	20.092			Difference			1/2
Table Depth	$\frac{L}{15}$	16.867		Restricted to			
Depth Correction		3.225		Correction	$\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L} \right) =$.0375	x

~~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	35.33		8'-0"	35.33	5/6.03	29.29
Frank Aft			+ 3'-0" <i>sum</i>			
" Forward			5'-0"			
Tonnage Opening Aft						
" Forward						
Totals				35.33		29.29

Standard Height of Superstructure 6.03'

" " R.Q.D.

Percentage covered S/L = 13.96

" " E/L = 11.58

" from Table line A, B, ~~(corrected for~~
~~absence of forecastle if required)~~ 5.79

Percentage from Table by interpolation for Bridge
less than .2L if required = ✓

Deduction = $31.3 \times .0579 \times 1.812$

Percentage from Table for Tankers (or Timber ships) =

Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	20.75	35.3	20.75	1	20.75
$\frac{1}{8}$ L from A.P.	-		-	4	-
$\frac{1}{8}$ L from A.P.	-		-	2	-
Amidships	-		-	4	-
$\frac{1}{8}$ L from F.P.	-		-	2	-
$\frac{1}{8}$ L " "	-		-	4	-
F.P.	20.75	70.6	20.75	1	20.75
				18	41.5
Effective Mean Sheer				=	2.306
Standard " "		05L + 5		=	17.650
			Difference		15.344

Mean Actual sheer aft = less than 1
 „ Standard „ „

Mean Actual sheer forward = less than 1
 „ Standard „ „

Length of enclosed superstructure forward of admidships = -
 Length of Ship

Length of enclosed superstructure aft of amidships = -
 Length of Ship

Sheer Correction = Difference $\times (75 - \frac{S}{2L}) = 15.344 \times 6802$
 = 10.436 in.

If limited on account of midship superstructure = -
 „ to maximum allowance of 1 1/2 ins. per 100 ft. = -

TABULAR FREEBOARD ~~corrected for flush deck if required~~ = 32.93

Correction for co-efficient = $\frac{1.527}{1.36} = 36.86$

	+	-	
Depth correction	6.28	-	
Deduction for superstructures	-	1.81	
Sheer correction	10.44	-	
Round of Beam correction	-	1.03	
Correction for thickness of deck amidships	-	-	
Other corrections, scantlings, etc. AND CRAMINGS.	3.26		
	19.98	1.84	+ 18.14

DRAUGHTS AND SEASONAL CORRECTIONS

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	20.092	
Summer Freeboard in feet	4.583 ✓	
Moulded Draught (d)	15.509	(d1)
Addition for Keel	1.00	
Extreme draught	15.609	

Deduction for Tropical and addition for Winter freeboard	$d/4 = 3.877$	ins.
Addition for Winter North Atlantic (if required)	$d/1$	= ins.
Deduction for Tropical Timber Freeboard	$d/1$	= ins.
Addition for Winter	$d/1$	= ins.
	3	
N.A. Timber Freeboard (if required)		= ins.

MIN. INT. FREEBOARD = 51.74" (4'-3 1/2") STRENGTH FREEBOARD = 4'-6 1/2"

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Form LL. 4.D.

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

SHIPS NAME

Nationality and Port of Registry

OFFICIAL NUMBER

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	$3\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{4}$		$30"$				
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			_____					
Deckhouses on flush deck ships			_____					

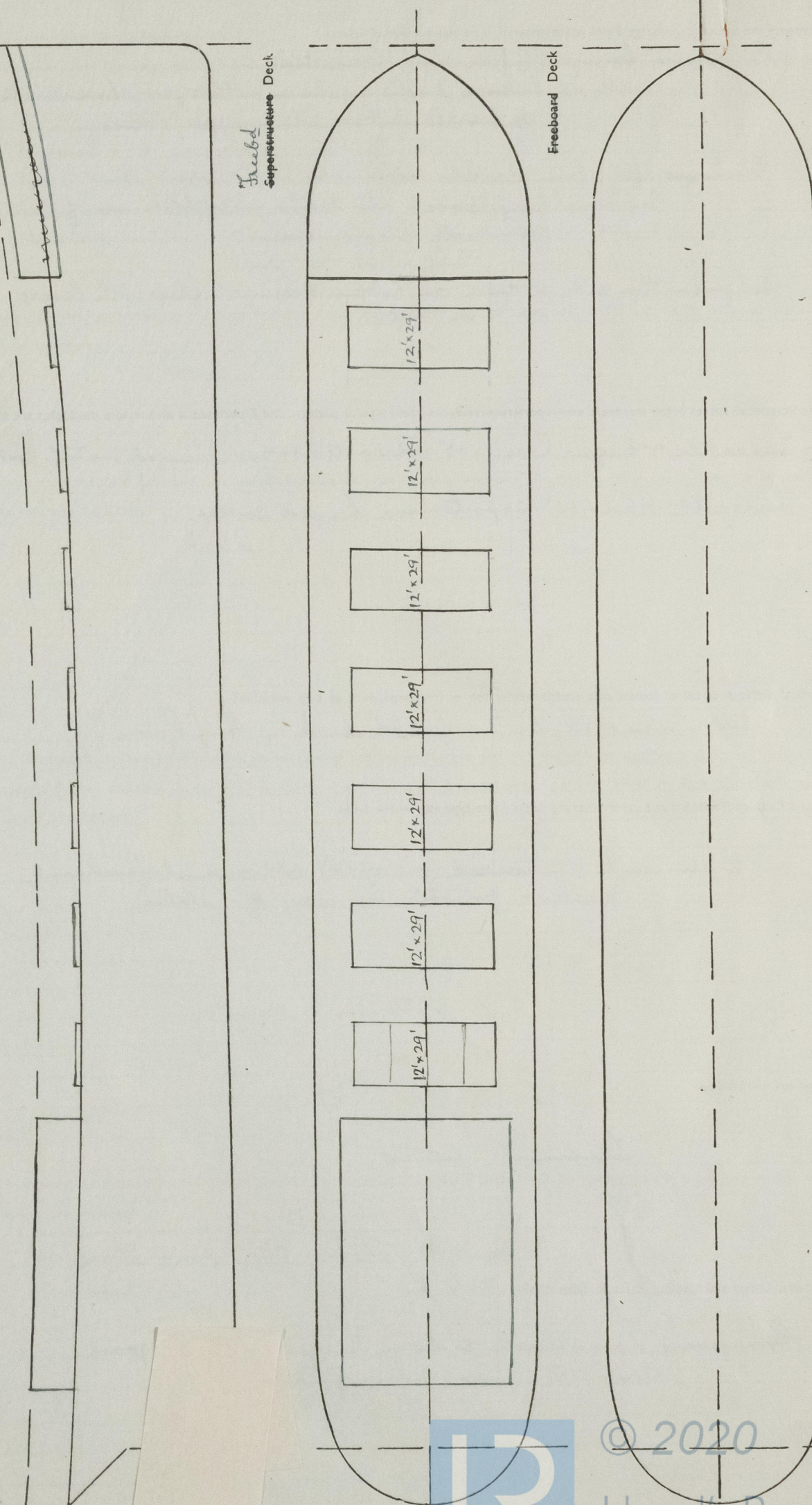
PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

<p> Poop Bulkhead R.Q.D. " Bridge Aft Bulkhead " Forward " Forecastle Bulkhead Exposed Machinery Casings on Freeboard of P.O. Decks <i>after machine</i> Exposed Machinery Casings on superstructure decks Machinery Casings within super- structures not fitted with Cl. 1 Closing Appliances Deck houses on Flush Deck ships </p>	<p> _____ _____ _____ _____ _____ 3 doors - 58" x 24" x 1 3/4" solid wood + 1/16" plates - 14" sills. Eng. Casing - inside house - steel. <i>Lower members of 1/6/37.</i> Stokchold Entrance - Outer door - 58" x 24" x 1/4" steel - 16" sill } steel casings in Inner " - " " " " - 14" " } entranceway, Engine Room. Ent - Outer " - " " " " - 16" " } wood casing Inner " - " " " " " - 14" " } in passageway no fantail entrance </p>
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PARTICULARS OF FREEING ARRANGEMENTS

PARTICULARS OF FREING PORTS					Rule Area
Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side		
After Well	None (Open rails all around.)				
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					

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, feeding ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



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COMPUTATION OF FREEBOARD

Length on summer load line 253' Moulded Breadth 43'-1 1/2" Moulded Depth 20'-0 1/2" Depth of Keel
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 4472 Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .842$
 Displacement and tons per inch immersion in salt water at summer load line
 Moulded depth 20.042 Deduction for Fresh Water $\frac{\Delta}{40T} =$ inches
 Stringer Plate 84" x .60" .050 Round of Beam Correction
 Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$. Ships Round of Beam 10.5 inches
 Rise of floor (in sailers) . Standard Round of Beam $\frac{B \times 12}{50} =$ 10.35
 Depth for Freeboard (D) 20.092 Difference .15
 Table Depth 16.867 Restricted to
 Depth Correction 3.225 Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .0375 \times .8604 =$
 $.032$ OFF.

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	<u>35.33</u>	<u>8.0"</u>	<u>35.33</u>	<u>5.603</u>	<u>29.29</u>	
Trunk Aft		<u>+ 3.0</u>				
" Forward		<u>5.0"</u>				
Tonnage Opening Aft						
" Forward						
Totals			<u>35.33</u>		<u>29.29</u>	

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward
A.P.	<u>20.75</u>	<u>35.3</u>	<u>20.75</u>	1	<u>20.75</u>	<u>less than 1</u>	<u>less than 1</u>
1/3 L from A.P.	-	-	-	4	-		
1/3 L from A.P.	-	-	-	2	-		
Amidships	-	-	-	4	-		
1/3 L from F.P.	-	-	-	2	-		
1/3 L " "	-	-	-	4	-		
F.P.	<u>20.75</u>	<u>70.6</u>	<u>20.75</u>	1	<u>20.75</u>		
				18	<u>41.5</u>		
Effective Mean Sheer					<u>2.306</u>		
Standard " "					<u>17.650</u>		
Difference					<u>15.344</u>		

Length of enclosed superstructure forward of amidships =
 Length of Ship
 Length of enclosed superstructure aft of amidships =
 Length of Ship
 Sheer Correction = Difference $\times \left(75 - \frac{S}{2L}\right) = 15.344 \times .6802 =$
 10.436 ON.
 If limited on account of midship superstructure =
 " to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 32.93Correction for co-efficient = $\frac{1.527}{1.86} =$ 36.86

DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	<u>6.28</u>	-		
Deduction for superstructures	-	<u>1.81</u>		
Sheer correction	<u>10.44</u>	-		
Round of Beam correction	-	<u>.03</u>		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc. AND COAMINGS.	<u>3.26</u>			
	<u>19.98</u>	<u>1.84</u>	<u>+ 18.14</u>	
Summer Freeboard in inches			<u>55.00</u>	
Additional allowance for superstructures on			<u>5.877</u>	
Timber carrying ships			<u>52.123</u>	
Summer Timber Freeboard in inches			<u>58.877</u>	

Depth to Freeboard Deck in feet 20.092
 Summer Freeboard in feet 4.583
 Moulded Draught (d) 15.509 (d1)
 Addition for Keel 1.00
 Extreme draught 15.609
 Deduction for Tropical and addition for Winter freeboard $d/4 =$ 3.877 ins. 4"
 Addition for Winter North Atlantic (if required) = ins.
 Deduction for Tropical Timber Freeboard $\frac{d1}{d} =$ ins.
 Addition for Winter " " $\frac{d1}{3} =$ ins.
 " " N.A. Timber Freeboard (if required) = ins.

MIN. INT. FREEBOARD = 51.74 (4-3/4) STRENGTH FREEBOARD = 4'-6 1/2"

Form LL. 4.D.

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SURVEY FOR FREEBOARD

CONDITIONS OF ASSIGNMENT

SHIPS NAME

OFFICIAL NUMBER

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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	<u>3 1/2 x 3 1/2</u>	<u>1/4"</u>		<u>30"</u>				
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard of R.Q. Deck								
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Superstructures 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)

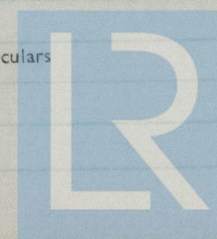
Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	<u>3 doors - 58" x 24" x 1 3/4" solid wood + 1/16" plates - 14" sills.</u>
Exposed Machinery Casings on Freeboard of R.Q. Deck	<u>Eng. Casings - inside house - steel. Latter mounted 1/6/31.</u>
Exposed Machinery Casings on superstructure decks	<u>Stokehold Entrance - Outer door - 58" x 24" x 1/4" steel - 16" sill } steel casings in entranceway.</u> <u>Inner " " " " - 14" " }</u> <u>Engine Room. Out - Outer " " " " - 16" " } wood casings in passageway.</u> <u>Inner " " " " - 14" " }</u> <u>No fantail entrance</u>
Machinery Casings within superstructures 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
Aft Well			<u>None (Open rails all around.)</u>		
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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S.S. "JOHN S. PILLSBURY"

Freeboards same as provisionally assigned.

It is noted that the hatch beams have been
reinforced to rule standard.



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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward		1, 2, 3 & 4	5, 6 & 7	167
Dimensions of Hatchway		12' x 29'	12' x 29'	
COAMINGS	Height above wood { steel { deck	9' 3 1/2" x 14 BA	12' 3 1/2" x 5 BA.	
	Thickness { sides ends			
	Stiffeners	None	As 1.	
	Brackets or Stays	None.	"	
HATCH BEAMS	Number	1	"	
	Spacing	6' 0"	"	
	Scantling and Sketch	7 x 7 wood	"	
	Bearing Surface and thickness of carriers or sockets	3 x 3 x 3/8	"	
FORE AND AFTERS	Number	3	"	3
	Spacing	7' 3"	"	
	Unsupported lengths			
	Scantling and Sketch	5' 3 1/2" x 3 1/2" x 6 I-9 x 3 1/2" x 6 B.A.	1 each side	I
	Bearing Surface and thickness of carriers or sockets	3 1/2" x 3 x 1/2"	As 1.	15 x 5 1/2" x 42.9" #
HATCH COVERS	Material	Wood	"	
	Thickness	2 3/4	"	
	How Fitted	F & A.	"	
	Bearing Surface	3" (x 3 1/2")	"	
Spacing of Cleats		24"	"	
Number of Tarpaulins		2	"	
Are tarpaulins in good condition and in accordance with rule requirements? <i>yes</i>				
Are lashings provided in accordance with rule requirements? - <i>securing bars fitted.</i>				

Deck scuttle hatch - 18" plate coaming - 2 $\frac{3}{4}$ " wood covers;
2 $\frac{1}{2}$ " rest bars; cleats as required.

ALTERATIONS TO HATCHES IN COMPLIANCE WITH

6.1. RULES SHOWN IN REO.

NOTE:- COAMINGS NOT RAISED.

Scurrying bars - $5 \times 3 \times \frac{3}{8}$ L - 2 attachment each hatch

Are wood ~~fore and afters~~ ^{beams} steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition?

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Give full particulars of the following:—

Fiddle, 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 fiddle covers, and if these are permanently attached in their proper positions)

Fiddles - 2 1/2" coamings - hinged steel covers.

Funnel - 12" Coaming.

Ex B Vents have high coamings.

Eng Room skylight - steel

Bunker hatch - 30" coaming - 2 3/4" wood covers; 3" rod bars; cleats at 24" apart.

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)

None.

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)

None (except S.D. on forecastle deck)

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

Forecastle deck - S.N. airpipes - 18" high

Freeboard " " " - 8" to 18" high.

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

Discharges forward (from sink forecabin)

All W.C. basin &c discharges have outlets just above sink deck - all fitted with clapper valves.

Discharges aft (from dachhouse)

In machinery space - all discharge outlets are fitted with clapper valves.

Ashtray - Star side - cover on hopper & hinged flap with lever, on outlet.

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

Forecastle & Engine Room - 10" side scuttles - have hinged metal covers.

Forecastle Ahd - 10" airports have hinged covers.

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

Sills - about 18" below freebd deck in Eng. Room

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

Open rails - 2 tier rod (or wire) all around freeboard deck - portable in way of hatches.

Gangways and Lifelines

Lifelines fitted.

Gangway, Cargo and Coaling Ports in sides of ship

Gangway door each side in Engine Room - good strong W.T. doors - as originally fitted.

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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