

252'-0" x 43'-0" x 19'-0"

1362

Form LL. 4.C. (Revised)

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD 3193.

1362

STEAMER, TANKER, SAILED: "PENETANG" S.S. EX "WALTER B. REYNOLDS" WITH TIMBER DECK CARGO WITHOUT

Nationality *British* Builders' Name and No. of Ship *Collingwood S.S. Co. Ltd.*

Port of Registry *Montreal*

Official Number *151046V* Owners *Canada Steamship Lines Ltd.*

Gross Tonnage *1824*

Date of Build *6/25.* Port and Date of Survey *Toronto, Ont. 19/4/37*

Particulars of Classification *G.S. (GREAT LAKES & RIVER ST. LAWRENCE SERVICE)* Name of Surveyor *E. Russell Macmillan*

Type of Superstructures *Raised Quarter Deck & Forecastle.* Names of Sister Ships *"BARRIE"*

Trade of Ship *LAKES & RIVERS.*

Service Endorsement if any *?*

Beams still to be reinforced

ALL SEASONS

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel) 3'-7 1/2"

TROPICAL FRESH WATER LINE above centre of disc	Corresponding Freeboard
FRESH WATER LINE " " "	" "
TROPICAL LINE " " "	" "
WINTER LINE below " "	" "
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

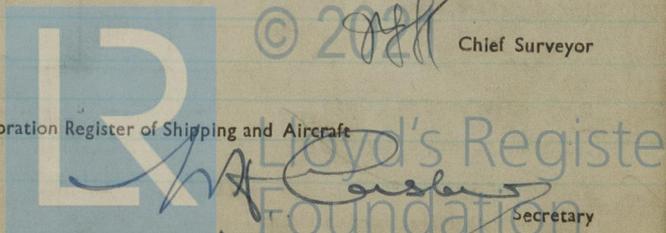
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The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

© 2011 *[Signature]* Chief Surveyor

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

on the *31st May 1937*



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FOR LAKE COMPUTATION SEE
S.S. "BARRIE" No 1352

COMPUTATION OF FREEBOARD

Length on summer load line 252'0" Moulded Breadth 43'0" Moulded Depth 19'0" Depth of Keel
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth Tons
Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} =$
Displacement and tons per inch immersion in salt water at summer load line
Moulded depth Deduction for Fresh Water $\frac{\Delta}{40T} =$ inches
Stringer Plate 78' - 593' Round of Beam Correction
Sheathing on exposed deck T $(\frac{L-S}{L})$ Ships Round of Beam inches
Rise of floor (in sailers) Standard Round of Beam $\frac{B \times 12}{50}$
Depth for Freeboard (D) Difference
Table Depth Restricted to
Depth Correction Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) =$
If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	
Poop							Standard Height of Superstructure
Raised Quarter Deck	92.61'		3'0"				" " R.Q.D.
Bridge		F					Percentage covered S/L =
		A					" " E/L =
Forecastle	35.38'		7'0"				" " from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge less than .2L if required =
" Forward							Deduction =
Tonnage Opening Aft							Percentage from Table for Tankers (or Timber ships) =
" " Forward							Deduction =
Totals							

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft =	Mean Actual sheer forward =	Length of enclosed superstructure forward of amidships =	Length of enclosed superstructure aft of amidships =	Sheer Correction = Difference X $(.75 - \frac{S}{2L}) =$	If limited on account of midship superstructure =	to maximum allowance of 1 1/2 ins. per 100 ft. =
A.P.	24			1		" Standard " "						
1/4 L from A.P.	10			4								
1/2 L from A.P.	2			2								
Amidships	0			4								
1/4 L from F.P.	7			2								
1/2 L " "	23			4								
F.P.	48			1								
				18								
Effective Mean Sheer												
Standard " "												
Difference												

TABULAR FREEBOARD corrected for flush deck if required =

Correction for co-efficient =

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

DRAUGHTS AND SEASONAL CORRECTIONS

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet		
Summer Freeboard in feet		
Moulded Draught (d)		(d1)
Addition for Keel		
Extreme draught		
Deduction for Tropical and addition for Winter freeboard $d/4 =$		ins.
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.

Form LL. 4.D.

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

SHIPS NAME

OFFICIAL NUMBER

Nationality and Port of Registry

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. "						As originally fitted		
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead		1/4	4 x 3 x 7.2"	36"				
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						5'16 1/4" x 5' x 3 x 9.8" 30' x 33" here. 1/4 - 3' x 2 1/2 x 5'16" - about 36" "		7'-0"

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

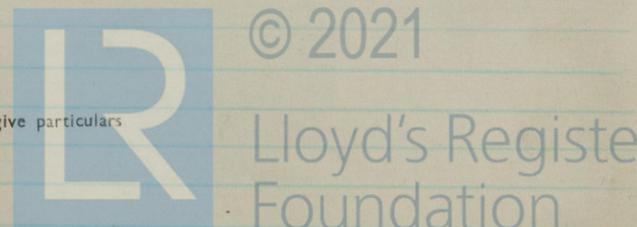
Poop Bulkhead	
R.Q.D. "	no openings
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	2 doors - 62 x 24 x 1 7/8 solid oak - 12" sills.
Exposed Machinery Casings on Freeboard or R.Q. decks	Engine casing - inside house - steel
Exposed Machinery Casings on superstructure decks	Blr. room Ent - Outer door - 61 x 24 x 1 7/8 solid oak - 14" sill. (Prob.) Inner " - 56 x 24 x 1/4 steel - 18" sill (in steel casing)
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	Eng. room Ent - One door - 62 x 24 x 1/4 steel - 12" sill - wood casing round open stairway inside. (No fantail entrance)
Deck houses on Flush Deck ships	Accord. doors - 61 x 24 x 1 7/8 solid oak - 14" sill. Deckhouse windows have wood shutters. should be plated because of open stairway or cover fitted stairway

PARTICULARS OF FREEING ARRANGEMENTS

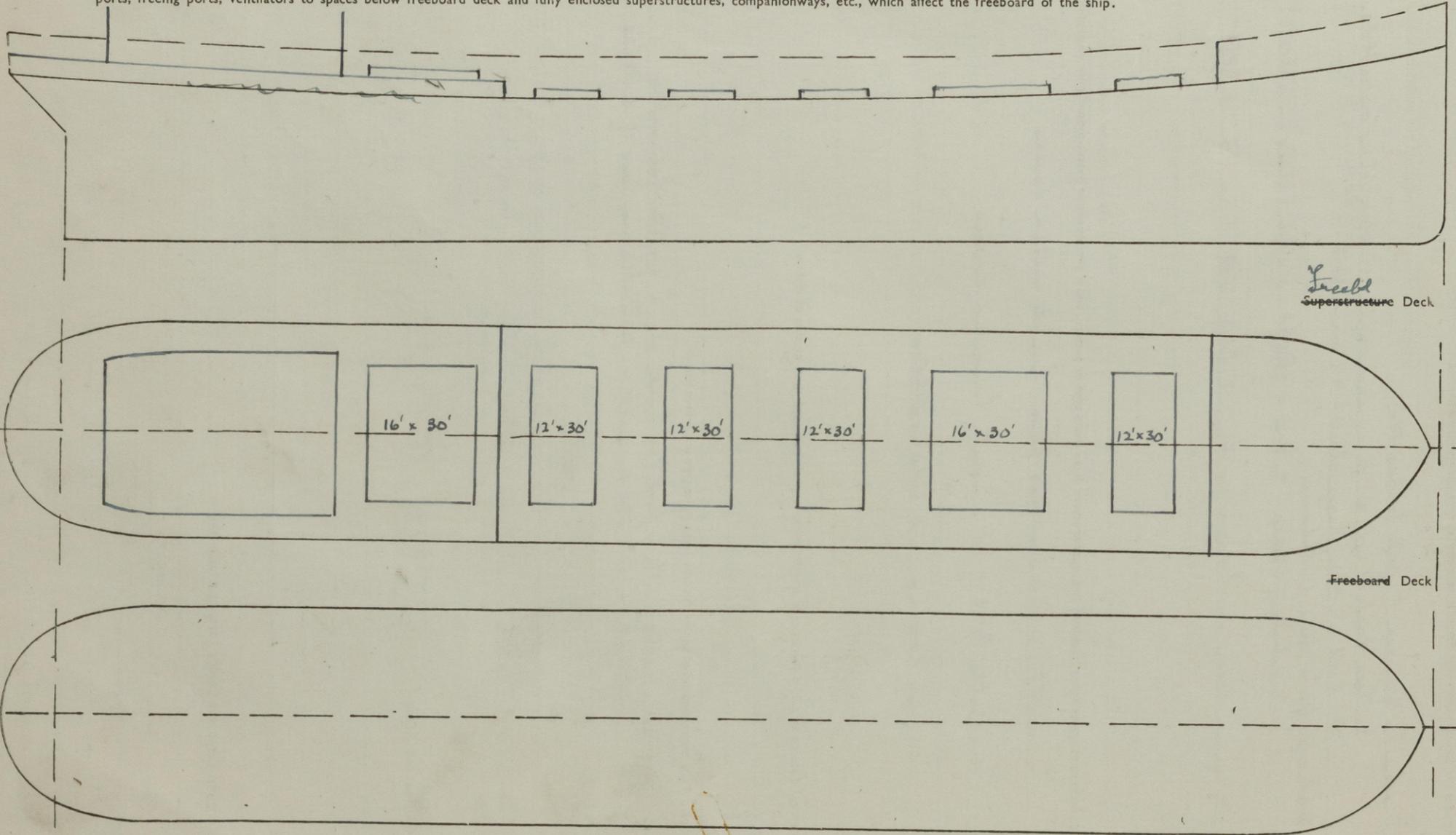
	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well			42" high (stays @ aft) around aft end in way of deckhouse.		
Forward Well					
State fore and aft position and height above deck to bottom of port, for each port			After Well		
			Forward 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, 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

	← Upper Deck →				→ h. Gr. Deck →		
	1, 3, 4 & 5	2	6				
Number and description of Hatchway from forward	1, 3, 4 & 5	2	6				
Dimensions of Hatchway	12' x 30'	16' x 30'	16' x 30'				
COAMINGS	Height above steel deck	24"	As 1	Deck scuttle hatch - 24" plate coaming - hinged steel w.t. cover - screws fasteners.	Main Beams $\frac{1}{2} \times \frac{7.5 \times 12 \times 6}{50} \times \frac{12}{8} = 16.2$	Def. $= \frac{7.2}{16.2} \times 100 = 44.5\%$ say 9" Penalty.	
	Thickness sides	7/16"	"				
	Thickness ends	"	"				
	Stiffeners	None	"				"
HATCH BEAMS	Brackets or Stays	3 bkts on each thwartship coaming	1 " " " fore shaft		$\frac{9^2 \times 8}{12} = \frac{54}{6} @ 1 \text{ trans beam} = 9$		
	Number	1	1	1			
	Spacing	6'0"	8'0"	8'0"			
	Scantling and Sketch	6" x 6" wood	6" x 6"	6" x 6"			
FORE AND AFTERS	Bearing Surface and thickness of carriers or sockets				Ans Beams $\frac{1}{4} \times 6 \times 7.5 \times 15 = 50.7$	Def $\frac{14.7}{50.7} = 29\%$ say 6" Penalty.	
	Number	3	5	5			
	Spacing	7'6"	5'0"	5'0"			
	Scantling and Sketch	9" x 8" wood	9 1/2 x 9	9 1/2 x 9			
HATCH COVERS	Bearing Surface and thickness of carriers or sockets				Hatch Covers for 8'-0" span. thickness should be 3" actually 2 3/4" say 2" Penalty.		
	Material	Wood	As 1	As 1			
	Thickness	2 3/4"	"	"			
	How Fitted	F.Y.A.	"	"			
Spacing of Cleats	24"	"	"				
Number of Tarpaulins	Two	"	"				
Total Penalties 11"							

Securing bars - 3 1/2" x 1/2" flats - 2 thwartship each hatch.

Are tarpaulins in good condition and in accordance with rule requirements? *Yes*
 Are lashings provided in accordance with rule requirements? *- securing bars fitted.*

Are wood fore and afters steel shod at all bearing surfaces? *Yes.*
 Are battens and wedges efficient and in good condition? *Yes.*

8/4

8/5

Give full particulars of the following:—

Fiddley, Funnel and Vent Coamings, Engine Room skylight and other openings ^{on deckhouse} in Machinery Casings 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 - 3" coaming - hinged steel covers.
Funnel - riveted direct to plating
E & B. Vents have high coamings.
Eng. Room skylight - steel
Bunker hatch - 30" plate coaming - 2 3/4" wood covers - 8ft long; cleats spaced 24" apart; no hatch beams.

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 6" M Vents - 30" coaming to forecastle (acowd²))

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

Forecastle deck - 30" S.N.
Upper deck - 6" high - fitted with screwed iron plugs
 18" S.N. - wood plugs & canvas covers provided.
Raised Qr Dk - 18" S.N. " " " " " "

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

Discharges forward (from forecastle)
In Fore Peak - 1 WC. & 1 drain each side - clapper valves on outlets.
No. 1 hold - WC discharge starbd & 1 drain port - " " " "
Discharges from after deckhouse.
In Machinery space - 2 Port & starbd - clapper valves on outlets.
Ashpan - 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 - sidescuttles have hinged metal covers.
Forecastle Blvd - 16" airports have no covers.
Engine room - no sidescuttles.

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)

Open rails - 2 tier rod (or wire) on R. Qr. Dk forward of bulwark & on Upper deck - portable in way of hatches.

Gangways and Lifelines

Life lines to be fitted.

Gangway, Cargo and Coaling Ports in sides of ship

None.

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