

252'-0" x 43'-0" x 19'-1" 1596

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

STEAMER, ~~TANKER~~, ~~SAILER~~ : *KIN MOUNT* WITH ☐ WITHOUT ☒ TIMBER DECK CARGO

Nationality *British* Builders' Name and No. of Ship *Collingwood S.S. Co. Ltd*  
 Port of Registry *Montreal* No 72  
 Official Number *138184* Owners *Canada S.S. Lines Ltd, Montreal.*  
 Gross Tonnage *1411*  
 Date of Build *5/1923* Port and Date of Survey *Kington, Ont; April 18<sup>th</sup> 1938.*  
 Name of Surveyor *E. Russell Macmillan*  
 Particulars of Classification *BS\* (GREAT LAKES & RIVER ST. LAWRENCE)* Names of Sister Ships  
 Type of Superstructures *Forecasts - full height*  
 Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)	<div style="border: 1px solid black; padding: 2px;">3'- 3 1/2"</div>
TROPICAL FRESH WATER LINE above centre of disc	Corresponding Freeboard
FRESH WATER LINE " " "	" "
INTERMEDIATE TROPICAL LINE <i>BELOW</i> " " <i>4"</i>	<div style="border: 1px solid black; padding: 2px;">3'- 7 1/2"</div>
WINTER LINE below " " <i>8"</i>	<div style="border: 1px solid black; padding: 2px;">3'- 11 1/2"</div>
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

The Freeboard Report has been compared with the approved plans and found in order.

*19 SEP 1938*  
*[Signature]*

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

© 2020 *[Signature]* Chief Surveyor

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

on the

*3<sup>rd</sup> April 1939*

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Secretary

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## COMPUTATION OF FREEBOARD

Length on summer load line 252'-0" Moulded Breadth 43'-0" Moulded Depth 19'-1" 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  $\frac{\Delta \times 35}{L \times B \times D \times .85} = .829$ 

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

Moulded depth 19.083 Deduction for Fresh Water  $\frac{\Delta}{40T} =$  inchesStringer Plate 593 Round of Beam CorrectionSheathing on exposed deck T  $\left(\frac{L-S}{L}\right)$  - Ships Round of Beam 11.0 inchesRise of floor (in sailers) - Standard Round of Beam  $\frac{B \times 12}{50} = 10.32$ Depth for Freeboard (D) 19.132 Difference .68Table Depth 16.8 Restricted toDepth Correction  $\frac{15}{130} \times 2.332$  Correction  $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .17 \times .8611$ If restricted by superstructures 4.52 ON .1464 OFF

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Peep						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	35.0'		7.0'	35.0		35.0
Trunk Aft						
Forward						
Tonnage Opening Aft						
Forward						
Totals				35.0		35.0

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	24.	35.2		1	24.0
1/2 L from A.P.	10.			4	40.0
1/2 L from A.P.	2.		AS	2	4.0
Amidships	-		ACTUAL	4	-
1/2 L from F.P.	7.			2	14.0
1/2 L " "	22.			4	88.0
F.P.	48.	70.4		1	48.0
				18	218.0

Effective Mean Sheer = 12.11Standard " "  $\cdot 05L + 5$  = 17.6Difference 5.49Mean Actual sheer aft = less than 1Mean Actual sheer forward = less than 1Length of enclosed superstructure forward of amidships =  
Length of ShipLength of enclosed superstructure aft of amidships =  
Length of ShipSheer Correction = Difference  $\times \left(75 - \frac{S}{2L}\right) = 5.49 \times .68055$ 

If limited on account of midship superstructure =

to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. =TABULAR FREEBOARD corrected for flush-deck if required = 30.28Correction for co-efficient =  $\frac{1.509}{1.36} = 33.60$  DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		Sailer, Tanker, Steamer	Timber
Depth correction	4.52	-			
Deduction for superstructures	-	2.17	Depth to Freeboard Deck in feet	19.132	
Sheer correction	3.74	-	Summer Freeboard in feet	3.295	
Round of Beam correction	-	.15	Moulded Draught (d)	15.837	(d1)
Correction for thickness of deck amidships	-	-	Addition for Keel	.117	
Other corrections, scantlings, etc.			Extreme draught	15.954	
	8.26	2.32	+ 5.94		

Summer Freeboard in inches 3'-3 1/2" = 39.54 Deduction for Tropical and addition for Winter freeboard  $d/4 = 3.96$  ins.Additional allowance for superstructures on 3.96 Deduction for Tropical Timber Freeboard  $\frac{d}{4} =$  ins.Timber carrying ships  $I + 4" = 3'-7 1/2"$  = 43.50 Addition for Winter " "  $\frac{d}{3} =$  ins.Summer Timber Freeboard in inches = 3.96 " " N.A. Timber Freeboard (if required) = ins.W + 8" = 3'-11 1/3" 47.46

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. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead								
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								

As originally fitted7/16 x 1/4 8 x 3 1/2 x 1/2 L 30'-front-overlaps  
3 1/2 x 3 x 3/8 L 37'-sides-

## 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 superstructures not fitted with Cl. 1. Closing Appliances	
Deck houses on Flush Deck ships	

Strong shutters to be provided for after deckhouse windows.

2 doors - 61" x 24" x 1 7/8" solid oak - 13" sills

Eng. casing - inside house - 1/4 plating; 3 1/2 x 2 1/2 x 7/16 stiffeners @ 36"

Stokehold ent. P. 78 - outer door - 61" x 24" x 1 7/8" oak - 13" sill; steel casing

Inner " - 55" x 25" x 1/4 steel - 20" " in passage

Eng. room. ent. One door - 61" x 24" x 1 7/8" solid oak - 13" sill; open stairway inside, surrounded by wood casings.

Second doors - 61" x 24" x 1 7/8" solid oak - 13" sills.

All doors open from both sides.

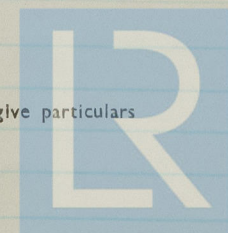
## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	41"				
Forward Well					
State fore and aft position and height above deck to bottom of port, for each port					
After Well					
Forward Well					

41" bulwark around aft end, in way of deckhouse - no washports - open rails elsewhere on freeboard decks

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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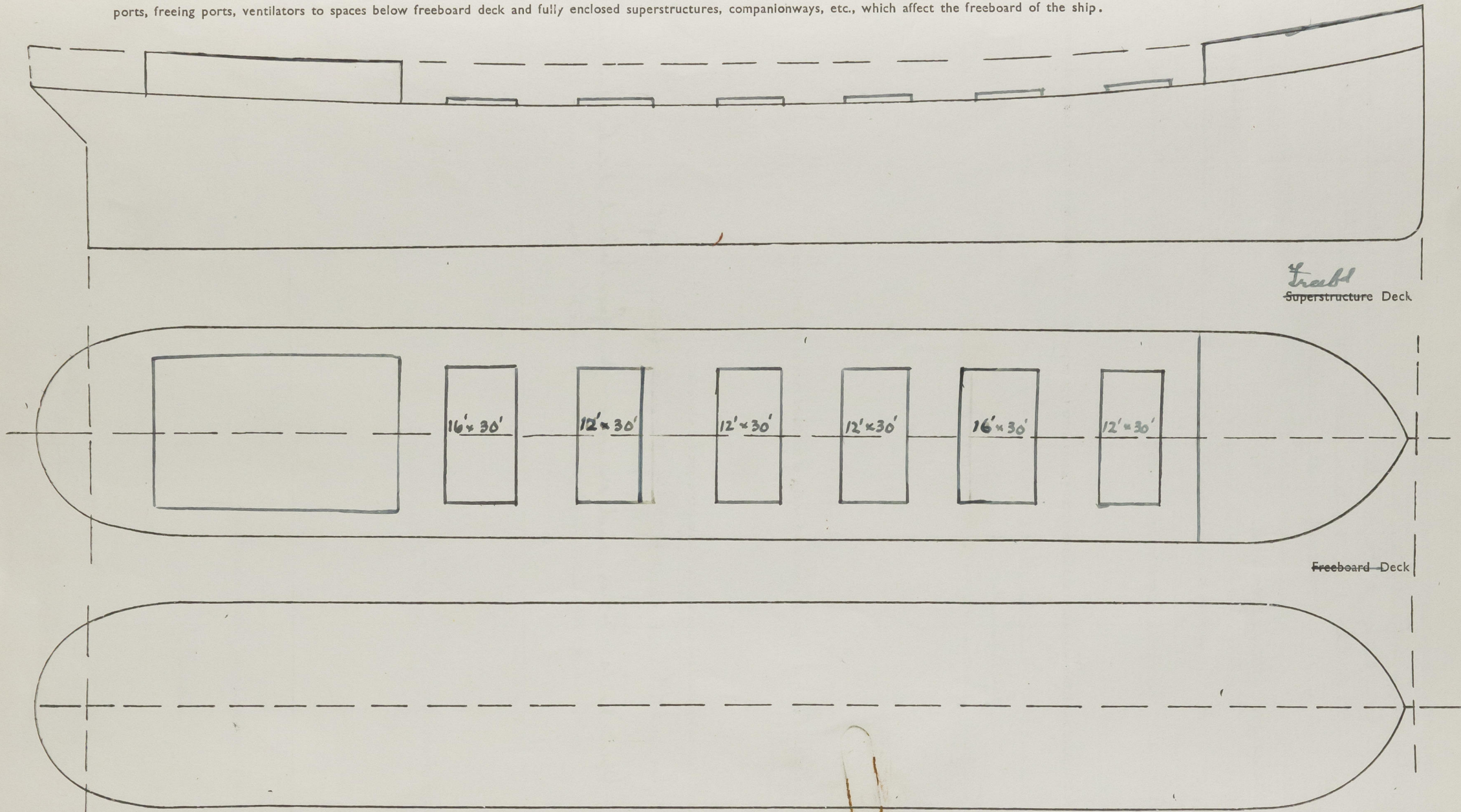
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Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators 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		← on upper deck →									
Dimensions of Hatchway		1, 3, 4 & 5	2 & 6								
COAMINGS	Height above steel deck	24" sides 27" Centre	As 1								
	Thickness { sides ends	7/16	"								
	Stiffeners	None	"								
	Brackets or Stays	One on fore coaming 3 on thwart coaming	As 1								
HATCH BEAMS	Number	One	One								
	Spacing	6'	8'								
	Scantling and Sketch	6" x 6" wood	6" x 6" wood								
FORE AND AFTERS	Bearing Surface and thickness of carriers or sockets	2" C.I. shoes	As 1.								
	Number	3.	3								
	Spacing	7' 6"	7' 6"								
	Unsupported lengths	8' x 8" wood	8' x 8" wood								
HATCH COVERS	Scantling and Sketch	8" x 8" wood	8" x 8" wood								
	Bearing Surface and thickness of carriers or sockets	2" C.I. shoes	2 C.I. shoes								
	Material	Wood	As 1								
	Thickness	2 3/4"	"								
HATCH COVERS	How Fitted	F. & A.	"								
	Bearing Surface	3"	"								
	Spacing of Cleats	24"	"								
	Number of Tarpaulins	Two	"								

Scuttle hatches on freeboard deck - 2 @ 42" x 30" with 24" plate coamings, hinged steel covers - rubber jointed; screw fasteners.

Scuttle hatch to foretail - 30" x 24" - 15" coaming; wood cover; 2 1/2" rest bars; cleats &c in order.

new beams required

Securing bars - 3 x 7/8" flats - 2 athwartship 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~~ *beams* steel shod at all bearing surfaces? *Yes.*

Are battens and wedges efficient and in good condition? *Yes.*



Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casings tops and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

*Fiddley - 3" coamings, hinged steel covers.*

*Funnel - riveted to plating - (no coaming)*

*Low B vents have high coamings*

*Engine room skylight - steel.*

*Bunker hatch - abaft funnel - 9" RA coaming; 2 3/4" wood covers 4 ft long.  
2 1/2" rest bars; cleats @ 24"; no securing bar.*

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)

*Forecastle deck - 6" SDM. Vents - 30" coamings.*

*Freeboard deck - aft end - 6" Low Vent - 30" coaming; rivs @ 3"; wood plug & cover provided*

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

*Forecastle deck - 27" SM. Airpipes.*

*Freeboard deck - 19" SM. amidships.*

*27" " aft - in way of bulwark.*

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 valve on each outlet*

*In No 1 hold - 1 WC & 1 drain port; 1 drain starboard - all outlets fitted with clapper valves.*

*Discharges aft - (from deckhouse)*

*In Eng. Room - 2 drains port - storm valves on outlets.*

*In Bunkers - 1 WC & 1 drain each side - storm valves on outlets.*

*Ashtray - hinged 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 side scuttles - have hinged metal covers.*

*" bulkhead - 15" airports have no covers.*

*Engine Room - no side scuttles.*

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)

*Forecastle deck - 42" bulwark full length.*

*Open rails - 2-tier rod or wire - on freeboard deck - forward of bulwark around aft end - portable rails in way of hatches.*

Gangways and Lifelines

*Lifelines to be provided.*

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



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