

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

1596

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILED : KIN MOUNT WITH TIMBER DECK CARGO
 WITHOUT

Nationality British Builders' Name and No. of Ship Collingwood S.S. Co. Ltd
No 72

Port of Registry Montreal ✓ Owners Canada S.S. Lines Ltd, Montreal.

Official Number 138184 ✓ Date of Build 5/1923

Gross Tonnage 1411 ✓ Port and Date of Survey Kingston, Ont; April 18th 1938.

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

Type of Superstructures Forecasts - full height Names of Sister Ships

Trade of Ship

Service Endorsement if any

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

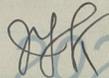
| | | |
|---|-------------|-------------------------|
| SUMMER TIMBER FREEBOARD recommended amidships from top of deck line | | |
| TROPICAL FRESH WATER Timber line above L.S. | | Corresponding Freeboard |
| FRESH WATER | " " " " | " " |
| TROPICAL | " " " " | " " |
| WINTER | " " below " | " " |
| WINTER NORTH ATLANTIC | " " " " | " " |

Number of years recommended for load line certificate

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

19 SEP 1938


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

 Chief Surveyor

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

on the 3rd 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 Tons

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 $\frac{\Delta}{40T} =$ inches

Stringer Plate .593 .049 Round of Beam Correction

Sheathing on exposed deck T $(\frac{L-S}{L})$ - Ships Round of Beam 11.0 inches

Rise of floor (in sailers) - Standard Round of Beam $\frac{B \times 12}{50} = 10.32$

Depth for Freeboard (D) 19.132 Difference .68

Table Depth $\frac{75}{130} = 16.8$ Restricted to

Depth Correction $\frac{75}{130} \times 2.332 = 2.332$ Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = .17 \times .8611$

If restricted by superstructures 4.52" ON = .1464" OFF

Table with columns: Enclosed Length, Length of Overhang, Height, Mean Covered Length (S), Height Correction, Effective Length (E). Rows include Poop, Raised Quarter Deck, Bridge, Forecastle, Trunk Aft, Forward, Tonnage Opening Aft, Forward, Totals.

Standard Height of Superstructure 6.02
Percentage covered S/L = 13.89
E/L = 13.89
from Table line A, B, (corrected for absence of fore-castle if required) 6.945
Percentage from Table by interpolation for Bridge less than .2L if required =
Deduction = 31.2 x .06945 = 2.167
Percentage from Table for Tankers (or Timber ships) =
Deduction =

Table with columns: Station, Actual Sheer, Standard Sheer, Effective Sheer, S.M., Product. Rows include A.P., L from A.P., Amidships, L from F.P., F.P., Effective Mean Sheer, Standard, Difference.

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 X $(.75 - \frac{S}{2L}) = 5.49 \times .68055 = 3.736$ 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 = 30.28

Correction for co-efficient = 1.509 / 1.36 = 33.60 DRAUGHTS AND SEASONAL CORRECTIONS

Table with columns: +, -, Sailer, Tanker, Steamer, Timber. Rows include Depth correction, Deduction for superstructures, Sheer correction, Round of Beam correction, Correction for thickness of deck amidships, Other corrections, Summer Freeboard in inches, Additional allowance for superstructures on Timber carrying ships, Summer Timber Freeboard in inches.

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

Table with columns: Coaming, Plating, Stiffeners, Spacing, End Attachments, No. and size of Openings, Height of Sills, Height of Casings. Rows include Poop Bulkhead, R.Q.D., Bridge Aft Bulkhead, Fore-castle Bulkhead, Trunk, Aft, 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, Deckhouses on flush-deck ships aft.

As originally fitted

7/16 x 1/4 8 x 3/2 x 1/2 C 30 front overlaps
3/2 x 3 x 3/8 L 37 sides
7'0"

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

Table with columns: Poop Bulkhead, R.Q.D., Bridge Aft Bulkhead, Fore-castle Bulkhead, Exposed Machinery Casings on Freeboard or R.Q. decks, Exposed Machinery Casings on superstructure decks, Closing Appliances, Deck houses on Flush Deck ships. Includes handwritten notes about shutters and doors.

Strong shutters to be provided for after deckhouse windows.

2 doors - 61 x 24 x 1 7/8 solid oak - 13" sills
Bug, casing - inside house - 1/4 plating; 3/2 x 2 1/2 x 7/16 stiffens @ 36"
Stokehold ent. P. 98 - 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
Bug. 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.
fitted w/ steel cover over stairway or 1/8 plates on 4 doors.

PARTICULARS OF FREEING ARRANGEMENTS

Table with columns: Length of Bulwark, Height of Bulwark, No. and size of Freeing Ports each side, Area each side, Rule Area. Rows include After-Well, Forward Well, State fore and aft position and height above deck to bottom of port, for each port, State whether freeing ports are fitted with shutters, bars or rails, and give particulars, Give particulars of freeing port area, etc., on superstructure decks.

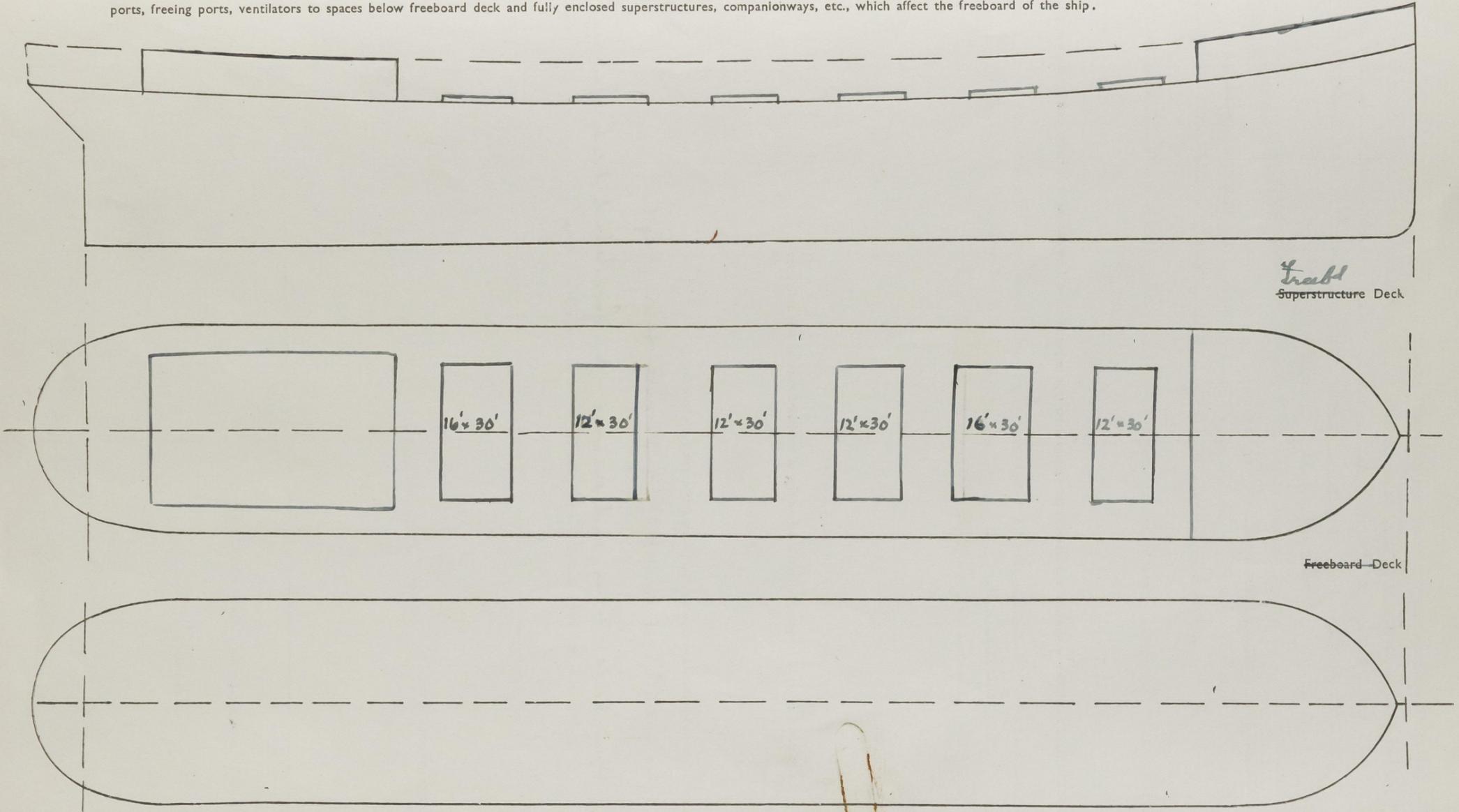
41" bulwark around aft end, in way of deckhouse - no washports - open rails elsewhere on freeboard decks



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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

| | | ← on upper deck → | |
|--|-------------------------------------|---|---------------|
| Number and description of Hatchway from forward | | 1, 3, 4 & 5 | 2 & 6 |
| Dimensions of Hatchway | | 12' x 30' | 16' x 30' |
| COAMINGS | Height above steel deck / wood 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 | |
| HATCH BEAMS | Number | One | One |
| | Spacing | 6' | 8' |
| | Scantling and Sketch | 6" x 6" wood | 6" x 6" wood |
| Bearing Surface and thickness of carriers or sockets | | 2" C.I. shoes | As 1. |
| FORE AND AFTERS | Number | 3 | 3 |
| | Spacing | 7'6" | 7'6" |
| | Unsupported lengths | | |
| | 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 |
| HATCH COVERS | Material | Wood | As 1 |
| | Thickness | 2 3/4" | " |
| | 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 fantail - 30" x 24" - 15" coaming; wood cover; 2 1/2" rest bars; cleats etc 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 ^{beams} fore and afters steel shod at all bearing surfaces? *Yes*
 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 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)

on deckhouse
Fiddleys - 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" PA 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" coaming.
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 fore-castle)
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 drain 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 - 4 1/2" bulwark full length.
Open rails - 2-tier rod or wire - on freeboard decks - 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