

3 Decks.

IRON OR STEEL STEAMER.

Received at London Office. 1894. 21 JUN 1894

Date of completion of report

17th June 1904

Port of GREENOCK

Survey held at

PORT GLASGOW.

Date, First Survey

5th May 1903

Last Survey

6th June 1904

On the STEEL SCREW STEAMER

HIGHLAND HEATHER

Rig SCHONER.

TONNAGE under

4354.50

Do. between (Tonnage Dk.)

and 1st and 4th Dk.

Total under Upper Dk. 4354.50

Do. of Poop

121.72

Do. of Bridge House Side Houses

21.17

Do. of Forecastle

68.19

Do. of Houses on Dk.

234.92

Do. of excess of Hatchways

.46

Do. above Crown of

Engine Room

4800.96

Less Crew Space

191.44

Less above Crown of

Engine Room

4609.52

MANAGE FOR FEES

1536.31

Navigation Spaces

33.90

Register Tonnage

3039.31

THREE DECKED VESSEL.

CLASS 100A.1. SHELTER DECK FEET.

Half Breadth (moulded) 26.17

Depth from upper part of Keel to top of Upper Deck Beams 30.58

(with the normal round up of beam)

Girth of Half Midship Frame (as per Rule) 52.50

deduct 7 feet 109.25

1st Number 102.25

Length on deck from after part of stem to fore part of stern post 388

2nd Number 39673

Proportions—Breadth to Length 7.41

Depth to Length—Upper Deck to top of Keel 12.68

Main Deck ditto 17.3

Destined Voyage RIVER PLATE

Master W. H. ALFORD

Year of appointment

1904

Built at PORT GLASGOW.

When built 1904

Launched 30th April 1904

By whom built RUSSELL & CO

Owners THE NELSON LINE (LIVERPOOL) LIMITED

Managers H & W. NELSON.

(Where necessary to be entered in Reg. Book.)

Residence 98 LEADEN HALL ST. LONDON.

Port belonging to LONDON

AND AND

Surveyed while Building Afloat in Dry Dock

LENGTH on Deck	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH, ACTUAL	Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid	Two
as per Rule	388	0	Moulded	52	4	Do.	Do.	26	9	No. of Tiers of Beams	Two
						Do.	Do.	18	6	Round of Upper Dk. Beam, Actual	13 ins.

Dimensions of Ship per Register, Length 390.1 breadth 52.55 depth 26.75 Moulded depth, ft. 29 ins. 6 To Upper Dk.

FRAMING.	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	FORGINGS or CASTINGS.	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship
NAME, Angles, or Bars for length amidships	6	3 1/2	11	6	3 1/2	KEEL, Bar or Side Plates, depth and thickness	11 x 3 1/2	11 x 3 1/2	11 x 3 1/2	11 x 3 1/2	11 x 3 1/2
Do. for 1/2 at each end	6	3 1/2	10	6	3 1/2	STEM, moulding and thickness	11 1/2 x 7 1/2	11 1/2 x 7 1/2	11 1/2 x 7 1/2	11 1/2 x 7 1/2	11 1/2 x 7 1/2
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	10-9	3 1/2	3 1/2	STERN-POST for Rudder do. do. CAST	11 1/2 x 7 1/2	11 1/2 x 7 1/2	11 1/2 x 7 1/2	11 1/2 x 7 1/2	11 1/2 x 7 1/2
Do. in way of Double Bottoms at intermdt. Bkts.	26	26	26	26	26	for Propeller STEEL	10	10	10	10	10
Distance of Frames from moulding edge to moulding edge, all fore and aft	8 1/2	3 1/2	11-10	8 1/2	3 1/2	MAIN PIECE of Rudder, diameter at head	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
REVERSED FRAME, Angles	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	do. at heel	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
DEEP FRAMING, depth of girder	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	RUDDER, how constructed BUILT IRON FRAME AND SINGLE PLATE					
DOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	Can the Rudder be unshipped afloat? YES.					
Do. in way of Engines and Boilers	78	78	78	78	78	KEELSONS & STRINGERS.					
thickness at the ends of vessel	46 9-8	46 9-8	46 9-8	46 9-8	46 9-8	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate					
depth at 1/2 the half breadth, as per Rule	26	26	26	26	26	Rider Plate					
height extended at the Bilges	46 12-9	46 12-9	46 12-9	46 12-9	46 12-9	Bulb Plate to Intercoastal Keelson					
DOORS & BRACKETS in Cell Dble Bottoms	4 4 10-9	4 4 10-9	4 4 10-9	4 4 10-9	4 4 10-9	Horizontal Plates on Floors					
Distance apart	4 1/2 4 1/2 12-11	4 1/2 4 1/2 12-11	4 1/2 4 1/2 12-11	4 1/2 4 1/2 12-11	4 1/2 4 1/2 12-11	Angles					
INTER GIRDERS, in Double bottom, depth and thickness	Two 9	Two 9	Two 9	Two 9	Two 9	SIDE KEELSON, Angles					
Angles, Top	39 10	39 10	39 10	39 10	39 10	Bulb or Plate above floors, for length					
Angles, Bottom	54 10-8	36 10-8	54 10-8	36 10-8	54 10-8	Intercoastal Plate, for length					
DE GIRDERS, number on each side & thickness	12 15	12 15	12 15	12 15	12 15	Attached to outside Plating with Angle					
Angles	4 4 11	4 4 11	4 4 11	4 4 11	4 4 11	BILGE KEELSON, Angles AT ENDS					
FLANGE PLATE, depth (exclusive of flange) and thickness	52	52	52	52	52	Bulb or Plate above floors, for length					
Angles to Outside Plating	38 52	38 52	38 52	38 52	38 52	Intercoastal Plate for length					
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake	38 52	38 52	38 52	38 52	38 52	Attached to outside Plating with Angle					
in Engine and Boiler space	38 52	38 52	38 52	38 52	38 52	BILGE STRINGER Angles					
Remainder in Holds	38 52	38 52	38 52	38 52	38 52	Bulb Plate for length					
MS, Upper Deck, Single Angle, Bulb	38 52	38 52	38 52	38 52	38 52	Intercoastal Plate for WHOLE length					
Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Attached to outside Plating with Angle					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	2 SIDE STRINGER Angles					
Average space	38 52	38 52	38 52	38 52	38 52	Bulb or Intercoastal Plate, for WHOLE length					
MS, Middle Deck, Single Angle, Bulb	38 52	38 52	38 52	38 52	38 52	Attached to outside plating with Angle					
Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Upper Deck Stringer Plates, br'dth & thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Average space	38 52	38 52	38 52	38 52	38 52	Tie Plates fore and aft, outside Hatchways					
MS, Lower Deck, Single Angle, Bulb	38 52	38 52	38 52	38 52	38 52	Deck * Iron or Steel, for WHOLE length					
Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Wood Deck, Material and thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Middle Deck Stringer Plate, br'dth & thickness					
Average space	38 52	38 52	38 52	38 52	38 52	Angles on ditto, No. TWO					
MS, Hold, or Orlop, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Tie Plates outside Hatchways					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Diagonal Tie Plates on Bulk, No. of pns.					
Average space	38 52	38 52	38 52	38 52	38 52	Deck * Iron or Steel, for WHOLE length					
MS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Wood Deck, Material and thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Lower Deck Stringer Plate, br'dth & thickness					
Average space	38 52	38 52	38 52	38 52	38 52	Angles on ditto, No.					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Tie Plates, outside Hatchways					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Deck * Material and thickness					
Average space	38 52	38 52	38 52	38 52	38 52	Hold, or Orlop Stringer Plate, br'dth & thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Angles on ditto, No.					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Tie Plates outside Hatchways					
Average space	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	POOP DECK STRINGER PLATE, breadth & thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Average space	38 52	38 52	38 52	38 52	38 52	Tie Plates					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
Average space	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Tie Plates					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
Average space	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Tie Plates					
Average space	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Average space	38 52	38 52	38 52	38 52	38 52	Tie Plates					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
Average space	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Tie Plates					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
Average space	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Tie Plates					
Average space	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Average space	38 52	38 52	38 52	38 52	38 52	Tie Plates					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
Average space	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Tie Plates					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
Average space	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Tie Plates					
Average space	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
Average space	38 52	38 52	38 52	38 52	38 52	Tie Plates					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52	38 52	38 52	38 52	38 52	Deck, Material and thickness					
Angles on upper edge	38 52	38 52	38 52	38 52	38 52	FORECASTLE DECK STRINGER PLATE, br'dth & thickness					
Average space	38 52	38 52	38 52	38 52	38 52	Angle on ditto					
MS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	38 52										

PLATING. RIVETING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. Includes tables for Flat Plate Keel, Garboard or A Strake, and other ship components with dimensions and riveting specifications.

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. SIEMENS MARTIN PROCESS FROM CALDER BANK, CLYDEBRIDGE, PARKHEAD, HALLSIDE, DALZELL, GLASGOW, I.Y.S.C. AND LANARKSHIRE.

FRAMES extend in one length from CENTRE LINE to MARGIN PLATE, THENCE TO GUNWALE. REVERSED FRAMES on floors and frames extend from CENTRE LINE to MARGIN PLATE, MARGIN PLATE TO UPPER DECK FOR 1/2 LENGTH, AND IN WAY OF AFTER PEAK, REMAINDER TO MIDDLE, UPPER AND FORECASTLE DECKS ALTERNATELY, DOUBLE ON FLOORS IN ENGINE AND BOILER SPACE.

MASTS, SPARS, &c. LOWER MASTS. Fore, Main, Mizzen. Material: STEEL. Total Length: 55-0, 56-3. Diameter and Thickness: 24 x 7/2, 22 x 7/2, 22 x 6/2. No. of Plates in rounds: TWO. Angles: Number, Size. Riveting: Seams, Butts.

EQUIPMENT No. 50773 LETTER Z. ANCHORS. Table with columns: Number of Certificate, Anchors, Weight, Ex. Stock, Weight of Stock, Test per Certificate, Weight Required by Table 22, Description of Anchor, Makers, Where and when tested and Superintendent.

CHAIN CABLES. HAWSERS AND WARPS. Table with columns: Number of Certificate, Fathoms, Size, Test per Certificate, Weight of Chain Cable, Fathoms and Size per Table 22, Description, Makers of Cables, When and where tested, Material, Fathoms, Size, Breaking Test of Steel Wire Towline, Fathoms and Size per Table 22.

Boats: SIX. Pumps: TEN HAND PUMPS. Diameter of Barrel: 5 1/2. State whether they are in efficient working order: YES. Windlass is of STEAM BY EMERSON WALKER AND THOMPSON BROS. Capstan: SEVEN STEAM WINCHES. Engine Room Skylights: How constructed? OF STEEL PLATES AND ANGLES. What arrangements for deadlights in bad weather? TERN SHUTTERS. Coal Bunker Openings: How constructed? OF STEEL. How are lids secured? BATTENS & CLEATS. Height above deck? 9" BULB ANGLES. Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 8 SCUPPERS ON UPPER DECK, 7 SCUPPERS ON SHELTER DECK. Ceiling in Holds, thickness and material: HOLDS INSULATED. Ceiling 'tween Decks, thickness and material: HOLDS & TWEEN DECKS INSULATED. Cargo Hatchways: How formed? OF STEEL PLATES AND ANGLES. Hatches, If strong and efficient? YES. 3" SOLID. State size No. 1 Hatch (Forward) 24-0 x 16-0 x 18. No. 2 Hatch 32-6 x 16-0 x 18. No. 3 Hatch 24-0 x 16-0 x 18. No. 4 Hatch 24-0 x 16-0 x 18. Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch: TWO WEB PLATES IN NO. 1, 1, 3 & 4 THREE WEB PLATES IN NO. 2. HATCHWAY THREE WOOD FORE AND AFTERS TO HATCHWAYS ON SHELTER DECK. No. of Breasthooks: SIX. No. of Crutches: DEER FLOORS. Bulwarks, height above deck and description: OPEN RAILS. Main Rail, material and size: HANDRAILS AND STANCHIONS. The above is a correct description. Builder's Signature: For Russell & Co. Surveyor's Signature: J. H. French. Surveyor to Lloyd's Register of British and Foreign Shipping.

