

3 Decks.

## IRON OR STEEL STEAMER.

(Received at London Office)

State if Report is also sent on the Machinery of the Vessel

Date of completion of report 27 December 1894 Port of Glasgow

No. 13398 Survey held at Glasgow Date, First Survey 16 March 1894 Last Survey 26 December 1894

On the "Arundel Castle" Rig Schooner 4 masts

TONNAGE under 2015.48

THREE DECKED VESSEL.

Master Not known

Year of appointment

(1) As Master in service of owner of present vessel.—18  
(2) As Master of this vessel.—18

Tonnage Deck 1168.44

CLASS 100 A 1

FEET.

Built at Glasgow

When built 1894 Launched 26 Oct 1894

By whom built Fairfield Shipbuilding &amp; Engineering Co. Ltd.

Owners Castle Mail Packet Co. Ltd.

Managers Donald Currie &amp; Co.

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

Residence 3 &amp; 4 Fenchurch St. London E.C.

Port belonging to London

Do. of Po. 168.62

Half Breadth (moulded) 22.75

Do. of Bridge House 343.03

Depth from upper part of Keel to top of Upper Deck Beams 31.91

Do. of H. on Dk. 31.49

Girth of Half Midship Frame (as per Rule) 49.00

Do. of excess of Hatchways 60.53

deduct 7 feet 7.00

Do. of Forecastle 60.53

1st Number 96.66

Gross Tonnage 4588.22

Length 413.16

Less Crew Space 207.13

2nd Number 39936

Less above Crown of Engine Room 60.53

Proportions—Breadth to Length 7.08

Tonnage for Fees 4320.56

Depth to Length—Upper Deck to top of Keel 12.94

Less Engine Room 1468.23

Main Deck ditto 14.12

Less Navigation Spaces 33.89

Destined Voyage Cape Verde

Register Tonnage 2878.94

Surveyed while Building, Afloat, or in Dry Dock

Length on Deck	Feet	Inches	Breadth	Feet	Inches	Depth	Feet	Inches	Power of Engines	Horse	No. of Decks with flat laid	No. of Tiers of Beams
per Rule	413	2	Moulded	45	6	top of Floor to Upper Deck Beams	28	3	550	3	3	3
						Do. do. Main Deck Beams	20	3				

ons of Ship per Register, Length 415.0 breadth 45.4 depth 20.20 Moulded depth, ft. 31 ins. 0 To Upper Dk. Beam, Upper Dk. 11 ins.

## FORGINGS or CASTINGS.

Inches in Ship.

Inches per Rule. Or as Approved.

## KEELSONS &amp; STRINGERS.

Inches in Ship. 20ths in Ship. Inches per Rule. Or as Approved.

1. moulding and thickness 11 x 3 1/2 11 x 3 1/2

2. N-POST for Rudder do. 11 x 8 11 x 4 1/2

3. for Propeller 11 x 8 11 x 4 1/2

MAIN-PIECE of Rudder, diameter at head 11 10

do. at heel 5 1/2 5

RUDDER, how constructed Forged Saddle plate rudder

Can the Rudder be unshipped afloat? Yes

## FRAMING.

Inches in Ship.

Inches in Ship.

20ths in Ship.

Inches per Rule. Or as Approved.

Inches per Rule. Or as Approved.

Inches per Rule. Or as Approved.

FRAME, Angles, 7 x 7 for 1/2 length amidships

for 1/2 at each end 6 3/2 10 6 3/2 10

in way of Double Bottoms 6 3/2 9 6 3/2 9

Distance of Frames from moulding edge to moulding edge, all fore and aft 30 30

RESERVED FRAME Angles 4 3/2 9 4 3/2 9

FLOORS, depth and thickness of Floor Plate

at mid-line for 1/2 length amidships 10 10

in way of Engines and Boilers 11 11

thickness at the ends of vessel 11 11

depth at 1/2 the half breadth, as per Rule 12 12

height extended at the Bilges 12 12

BR & BRACKETS in Cell Dble Bottoms

Distance apart 30 30

TH GIRDER, in Dbl Btm. depth & thickness 46 11 46 11

Angles, Top 4 x 4 1/2 Bottom 6 1/2 4 1/2 10 6 1/2 4 1/2 10

DE GIRDERS, number and thickness 8 8

Angles 3 1/2 3 1/2 9 3 1/2 3 1/2 9

MARGIN PLATE, dpth (excl. of flange) & thickness 32 10 32 10

Angles 4 4 10 4 4 10

ER BOTTOM PLATING, breadth and thickness of Middle Line Strake 36 10 36 10

in Engine and Boiler space 11 11

Remainder in Holds 12 9 12 9

BEAMS, Upper Deck, Single Angle, Bulb 10 12 10 12

Angle, Plate or Tee Bulb 10 12 10 12

Average space 60 60

BEAMS, Middle Deck, Single Angle, Bulb 11 12 11 12

Angle, Plate or Tee Bulb 11 12 11 12

Angles on upper edge 60 60

Average space 60 60

BEAMS, Lower Deck, Single Angle, Bulb 11 12 11 12

Angle, Plate or Tee Bulb 11 12 11 12

Angles on upper edge 60 60

Average space 60 60

MS, Hold, or Orlop, Plate or Tee Bulb

Angles on upper edge 60 60

Average space 60 60

MS, Poop and Bridge Deck, Angle, Bulb 18 10 18 10

Angle, Plate or Tee Bulb 18 10 18 10

Angles on upper edge 60 60

Average space 60 60

S, Forecastle Deck, Angle, Bulb Angle 9 10 9 10

Plate or Tee Bulb 9 10 9 10

Angles on upper edge 60 60

Average space 60 60

3, In 'tween Decks, Size and Spacing 2 1/2 60 2 1/2 60

Hold 3 1/4 60 3 1/4 60

RAMES, In Fore Body, No. and spacing 10 4 to 8 spaces apart

Brth. & Thickness 18 10 18 10

No. of Side Stringers 2

WEB FRAMES, In After Body, No. and spacing 9 4 to 10 spaces apart

Brth. & Thickness 18 10 18 10

No. of Side Stringers 2

Size of Angles or Tee Bars to Web Frames 4 3 1/2 9 4 3 1/2 9

Web Frames, In Fore Body, No. and spacing 9 4 to 10 spaces apart

Brth. & Thickness 18 10 18 10

No. of Side Stringers 2

Size of Angles or Tee Bars to Web Frames 4 3 1/2 9 4 3 1/2 9

CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate

Rider Plate

Bulb Plate to Intercoastal Keelson

Horizontal Plates on Floors

Angles

SIDE KEELSON, Angles

Bulb or Plate above floors, for length

Intercoastal Plate, for length

Attached to outside Plating with Angle

BILGE KEELSON, Angles

Bulb or Plate above floors, for length

Intercoastal Plate for length

Attached to outside Plating with Angle

BILGE STRINGER Angles 6 1/2 4 1/2 10 6 1/2 4 1/2 10

Bulb Plate for length

Intercoastal Plate for 3/5 length

Attached to outside Plating with Angle 3 1/2 3 1/2 10 3 1/2 3 1/2 10

SIDE STRINGER Angles 6 1/2 4 1/2 10 6 1/2 4 1/2 10

Bulb or Intercoastal Plate for whole lng.

Attached to outside Plating with Angle 3 1/2 3 1/2 10 3 1/2 3 1/2 10

Upper Deck Stringer Plate, on ends of Beams, breadth and thickness 61 12 61 12

Angle on ditto Double 5 x 5 x 11 5 x 5 x 11

Tie Plates fore and aft, outside Hatchways

Flat of Dk. \* Iron or Steel, for whole lng.

Wood Teak Material & thickness 3 1/2 3 1/2

How fastened to Beams Galv. nuts & screws 61 10 61 10

Middle Deck Stringer Plate, br'dth & thickness 4 x 4 x 9 4 x 4 x 9

Angles on ditto, No. 2 4 x 4 x 9 4 x 4 x 9

Tie Plates outside Hatchways

Diagonal Tie Plates on Beams, No. of p's

Flat of Dk. \* Iron or Steel, for whole lng.

Wood Y.P. Material & thickness 3 8 3 8

How fastened to Beams Nuts & screws

Lower Deck Stringer Plate, br'dth & thickness 52 9 52 9

Angles on ditto, No. 2 4 x 4 x 9 4 x 4 x 9

Tie Plates, outside Hatchways 21 9 21 9

Flat of Deck, \* Material and thickness W.P. 3 3

How fastened to Beams Nuts & screws

Hold or Orlop Stringer Plate, br'dth & thickness

Is the Stringer Plate attached to the outside Plating?

Angles on ditto No.

Tie Plates outside Hatchways

Flat of Deck, \* Material and thickness 40 9 40 9

How fastened to Beams 2 1/4 2 1/4

Poop Deck Stringer Plate, breadth & thickness 40 9 40 9

Angle on ditto 6 x 3 x 9 6 x 3 x 9

Tie Plates 16 8 16 8

Flat of Deck, Material and thickness Teak 2 1/4 2 1/4

40 9 40 9

Bridge Deck Stringer Plate, breadth & thickness 40 9 40 9

Angle on ditto 6 x 3 x 9 6 x 3 x 9

Tie Plates 16 8 16 8

Flat of Deck, Material and thickness Teak 2 1/4 2 1/4

40 9 40 9

Forecastle Deck Stringer Plate, br'dth & thickness 40 9 40 9

Angle on ditto 6 x 3 x 9 6 x 3 x 9

Tie Plates 16 8 16 8

Flat of Deck, Material and thickness Teak 2 1/4 2 1/4

40 9 40 9

## PLATING.

Inches in Ship. 20ths in Ship. Inches per Rule. Or as Approved.

FLAT PLATE KEEL, breadth and thickness 36 18 36 18

D'bling or inc. thickness & len. appl'd 24 14 24 14

PLATES in Garboard Strakes, br'dth & thickness 58 14 58 14

from Garboard to lower part of Bilges 13 14 15 13 14 15

State Thickness of Plating in way of Double Bottom.

Bilges, number of Strakes and thickness 13 14 15 13 14 15

Double Bilge, increased thickness, and length applied 3 Strakes 13 14 15 13 14 15

from up. prt. of Bilge to Ir. edge of Sh'strake

Sheerstrake, breadth and thickness 44 18 44 18

Of d'bling at Sh'strake & length appl. 20 ft 44 18 44 18

Poop Sides 11 9 11 9

Bridge do. 11 9 11 9

Forecastle do. 11 9 11 9

Lengths of Plating 20 ft



13398 86

**BULKHEADS.** No. in Vessel 8 No. Req'd. by Rule 6

	Thickness	Angles	Spacing	Height up	Single or Double Frames
Ceiling between Decks, thickness and material <u>R.P. 2</u>					
" in hold do. do. <u>R.P. 2 1/2</u>					
W.T. BULKHEADS	<u>6.7</u>	Vrtcl. <u>Special arrangement to upper deck</u>			
	<u>20</u>	Hzntl. <u>See approved plan attached</u>			
Number of Breasthooks <u>4</u>		Vrtcl. <u>4 x 3 x 9/16 30</u>			
" Crutches <u>deep floors</u>		Hzntl. <u>5 x 3 x 9/16</u>			
LONGITUDINAL		Vrtcl. <u>✓</u>			

Are the outside Plates doubled two spaces of Frames in length? Yes

The **FRAMES** extend in one length from Keel to gunwale Riveted through plates with 7/8 in. Rivets, about 6 1/2 apart.

The **REVERSED ANGLE** on floors and frames from middle line to upper deck on every frame for 1/2 length amidships and abaft after peak bulkhead to upper and main deck all elsewhere - 1/2 fore castle deck on all frames

**RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c.**

**Garboard**, double riveted to Bar Keel or Flat Plate Keel, with rivets 1 in. diameter, averaging 4 1/2 ins. from centre to centre.

**Edges of Garboards**, and to upper part of Bilge, worked clencher, double riveted; with rivets 1 in. diameter, averaging 4 1/2 ins. from centre to centre.

**Butts from Keel to turn of Bilge**, worked clencher, double riveted; with rivets 1 in. diameter, averaging 4 1/2 ins. from centre to centre.

**Butts of** Strake at Bilge for length, double riveted with Butt Straps thicker than the plates they connect

**Edges from Bilge to Sheerstrake**, worked clencher, double riveted; with rivets 1 in. diameter, averaging 4 1/2 ins. from centre to centre.

**Butts from Bilge to Sheerstrake**, worked clencher, double riveted; with rivets 1 in. diameter, averaging 4 1/2 ins. from centre to centre.

**Edges of Sheerstrake**, double riveted.

**Butts of Middle Deck Stringer Plate**, treble riveted for whole length amidships. **Butts of Upper Deck Stringer Plate**, treble riveted for whole length.

**Butts of Inner Bottom Plating** Lapped and double riveted for whole length. **Butts of Centre Girder** double strapped & 3/4 in. riveted.

**Breadth of edge laps of Shell Plating** in double riveting 6 **Breadth of edge laps of Shell Plating** in single riveting ✓

**Butt Straps of Shell Plating**, breadth and thickness 19 x 14 1/2 **Butts if Lapped**, breadth of laps 13 1/2, 11 1/2, 9

**Butt Straps of Keelsons, Stringer and Tie Plates**, treble double riveted

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c. Siemens Martin Steel Shell Keelsons & Floors. Clydeside. Frames. Reverses. Hallside. Gyders. Keelsons. Stringers. Hallside. Laminated. Decks. Portland. Clydeside. Butts & Girders & Moulds. Workmanship. Are the butts of plating planed or otherwise fitted? Planed Beams. Bourmanbury. Dalzell. Larnach.

Is the riveted work properly closed? Yes

Are the liners between the frames and plates solid single pieces? Yes Do the holes for riveting plate to frames, butt straps, or plate to plate, &c, conform well to each other? Yes Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes Do any rivets break into or through the seams or butts of the plating? No

Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

MASTS, SPARS, &c.											
	Material.	Total Length	DIAMETER AND THICKNESS.				No. of plates in round	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS....	Fore .....	Steel	104.0	30 x 7/16	22 x 7/16	24 x 7/16	22 1/2 x 7/16	3	3	4 x 22 x 7/16	Single 7/16 double 7/16
	Main .....	"	110	29 x 10/16	27 x 7/16	22 1/2 x 7/16	22 x 7/16	3	✓	✓	✓
	Mizzen .....	"	110	29 x 10/16	27 x 7/16	23 1/4 x 7/16	22 x 7/16	3	✓	✓	✓
Bowsprit	Jigger	"	96	25 x 7/16	25 x 7/16	21 1/4 x 7/16	20 x 7/16	3	✓	✓	✓

Topmasts, Yards and Remainder of Spars ✓

**Rigging, Material and Size, Shrouds** 4 1/2, 3 1/4 Galv. steel wire Stays 4 1/2, 3 1/2 Galv. steel wire

**Sails.** 1 Suit of Sails, and the following spare sails 8

**EQUIPMENT No. 43460 LETTER cc ANCHORS.**

Number of Certificate.	WRIGHT, EX-STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.		WEIGHT REQ. PR RULE.		Description of Anchor.	Makers.	Where and when tested, and Superintendent.
			Tons.	Cwts.	Cwts.	lbs.			
35529	1st Bower	54 0 4	44	16	2	51	3 0	Hall's Stockless	M. Hingley, W. M. Robertson 21/1/04
35528	2nd "	53 3 14	44	13	3	57	3 0	do	do 28/4/04
16444	3rd "	43 0 9	37	19	1	44	3 0	Rodgers	H. P. Parkes, G. Tipton 12/1/04
16450	4th "	37 0 13	33	18	3	35	1 0	do	do 12/1/04
	Collective weight	188 0 15				180	1 0		
16287	Stream	14 1 21	16	1	1	0	3 0	Ordinary	H. P. Parkes do 16/6/04
16441	Kedge	7 0 2	9	7	0	26	6 0	do	do 12/1/04
16438	2nd Kedge	3 2 9	6	0	3	21		do	do 12/1/04

CHAIN CABLES.												
Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	Weight of Chain Cable.	Fathoms & size. Per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Fathoms	Size.	Fathoms & size. Per Rule.
14540	150	2 1/4	17 1/2	385.2	18720	25 Steel twist	H. P. Parkes	G. Tipton 26/1/04	Towline	120	4	222.3 1/2
14541	150	2 1/4	17 1/2	385.2	18720	25 Steel twist	do	do	Hawser	20	120	3
14438	120	1 1/4	14 1/2	265.0	10800	20 Steel twist	do	do	do	10	120	90
Iron chain cable of Steel Wire.	120	1 1/4	14 1/2	265.0	10800	20 Steel twist	do	do	do	2	120	9
Towline of steel wire	120	1 1/4	14 1/2	265.0	10800	20 Steel twist	Webster & Co	Sund. 13/1/04	do	2	100	7

Boats 10

**Pumps, Number** 12 and engine sections as applicable Diameter of Barrel and Tail Pipe 6 in barrels - 3 pipes

The Windlass is Capstan

**Engine Room Skylights.**—How constructed? Steel casing. Teak over

What arrangements for deadlights in bad weather? Brass guard rods and tarpaulins

**Coal Bunker Openings.**—How constructed? Shoots under Bridge How are lids secured? hinged doors Height above deck? about 12 in

Number of Scuppers, and number and dimensions of **Freeing Ports, &c.** 4 ports on each side each 36 x 16 also 6 scuppers on each side

**Cargo Hatchways.**—How formed? 20 x 32 x 10 Steel casing

State size No. 1 Hatch (Forward) 7.6 x 10.0 No. 2 Hatch 12.6 x 10.0 No. 3 Hatch 25.0 x 14.0 No. 4 Hatch 15.0 x 12.0

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch 2 webs in No. 3. 1 shifting beam in No. 2 and 4

**Bulwarks**, height above deck and description 3 fore and afters to No. 3 - 1 in each of others

The above is a correct description.

Builder's Signature (here only) W. Maclean

Surveyor's Signature, L. Shearman

Secretary, L. Shearman

Surveyor to Lloyd's Register of British and Foreign Shipping.



13398 Gls

Order of Special Survey No. *3465*  
Date *21 Feb 1895*  
Order for Ordinary Survey No. *377*  
Date *21 Feb 1895*  
No. *377* in builder's yard  
DATES OF SURVEYS held while building as per Section 18.  
1st. On the several parts of the frame, when in place, and before the plating was wrought } *1894 Mar 16. 20. 28. 30. April 3. 6. 9. 11. 16. 19. 23. 24. 26*  
2nd. On the plating during the process of riveting. } *May 7. 10. 21. 28. June 4. 7. 11. 15. 20. 28. July 2. 10*  
3rd. When the beams were in and fastened and before the decks were laid ..... } *11. 12. 26. 30. 31. Aug 1. 3. 7. 9. 10. 14. 20. 22. 27*  
4th. When the ship was complete, and before the plating was finally coated or cemented ... } *Sept 6. 7. 10. 11. 12. 14. 25. Oct 7. 11. 22. 29. Jan 2. 8. 9.*  
5th. After the ship was launched and equipped *15. 26. Dec 12. 14. 26*  
Total No. of Visits *58*

State dates and initials of letters respecting this case *20/2/94 6/3/94 27/3/94 2/4/94 2/4/94 9/4/94 2/5/94 1/5/94 22/5/94 7/9/94*

General Remarks (State quality of workmanship, &c.)

This is a steel screw schooner, with four masts, having poop, bridge house and forecabin; built under the 3 deck Rule, in strict accordance with the approved plans attached hereto and with the Rules generally. The gutter watercourses and pumps have been duly tested. Also the compartment of double bottom have been tested with water pressure. The materials and workmanship are good.

An installation of Electric lighting has been fitted at the Survey. Report attached hereto.

A freeboard was assigned to the vessel by Secy. letter of 5/12/94. It is understood that the disc will be placed at the Winter line and that the same will be accepted and verified by the Board of Trade as a transfer line.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *60* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *132* ft., F'castle *49* ft. (in feet and tenths) where the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *3 dks. (2 stl - wd) - 11 dk. Teak*  
Official No. ; Signal Letters

PARTICULARS OF WATER BALLAST.—

Double bottom, aft, length *97½* and water capacity in tons *165*. Double bottom, forward, length *97½* and water capacity in tons *265*.  
Double bottom, under engines and boilers, length *35* and water capacity in tons *96*. Under engine only, or boilers only, state which *32½*.  
Double bottom, constructed on the cellular system, length *340 ft* and water capacity in tons *723*.  
Fore peak tank, water capacity in tons *✓*. After peak tank, water capacity in tons *✓*.  
Midship deep tank, length *✓* and water capacity in tons *✓*. Other tanks, if fitted, length *✓* and water capacity in tons *✓*.

The above have *all* been tested as required by the Rules.  
(If necessary, furnish further information by sketch.)

How are the surfaces preserved from oxidation? Inside *Paint Portland Cement* Outside *Paint*

FREEBOARD assigned by the Committee, as per Secretary's

Letter dated *5/12/94*

State if marked on Vessel's sides in accordance with Notice No. 572 *no*

In Summer *7 ft. 1½ ins.* *Stateline at 2" above*  
In Winter *7 ft. 7 ins.* *To top of Wood, Iron or Steel Upper Deck.*  
For Winter in North Atlantic *8 ft. 0½ ins.*  
Fresh Water above the centre of disc *6 ins.*

The amount of Entry Fee ..... £ *5* : 4 : is received by me, *MC 10*  
Special ..... £ *133* : 4 : *9. 1. 1895*  
Certificate \* £ : : :  
Travelling Expenses, if any £ : :  
I am of opinion this Vessel should be Classed *\* 100 A 1 Steel*

\* Certificate to be sent to

*L. Shearler*  
Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Character assigned

TUES. 3 JAN 1895

*100 A 1 Steel*

This vessel appears to have been built in accordance with the Rules and the approved plans, and it is submitted she is eligible to be classed 100 A 1 (Steel) as recommended.

*Latop*  
*+ 2 Mc 12, 94*

*3 dks (2 stl - Teak 3 + 1 stl - wd)*

*+ 100 A 1 (Steel)*

*3 dks (2 stl - Teak 3 + 1 stl - wd)*

*N.B. = 100 A 1 98' x 28' 6" E & B 68' x 175' 723*

*FK Cam*

GLS171-0150 (212)

Lloyd's Register Foundation