

Spar, Awning or Part Awning Dk

IRON OR STEEL STEAMER.

(Received at London Office)

Date of completion of Report

Port of Glasgow

No. 12432 Survey held at Glasgow

Date, First Survey 12 May 1892

Last Survey 30 August 1892

On the Screen Steamer

Colong

Rig Schooner

TONNAGE under Tonnage Deck... 2598.87

SPAR, AWNING OR PART AWNING-DECKED VESSEL, or a Vessel having a continuous Shade Deck.

Master H. L. Allan

Year of Appointment

Total under Upper Dk. 22.8

CLASS 100 A

FEET.

Built at Glasgow

When built 1892.8 Launched 27 July 1893

By whom built London & Glasgow

Owners China Mutual Steam Nav Co

Managers

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

Residence 3 Dilliter Avenue, London E.C.

Port belonging to London

Do. of Poop 59.12

Half Breadth (moulded) 22

Depth from upper part of keel to top of Main Deck Beams 20.58

Girth of Half Midship Frame (as per Rule) 48.65

1st Number 107.23

Length 258.17

2nd Number 22750

Proportions—Breadths to Length 8.1

Depths to Length—Main Deck to top of Keel 15.7

Destined Voyage China

If Surveyed while Building, Afloat, or in Dry Dock Building & Afloat

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, top of Floors to Spar or Awn. Dk. Beams	Feet.	Inches.	Power of Engines	Horse.	No. of Decks with flat laid	No. of Tiers of Beams
358	2		44	0		26	19	26			2	3

Dimensions of Ship per Register, Length 260 breadth 44.2 depth 26.9 Spar or Awn. Dk. Moulded depth, ft. 29 ins. 9 To Main Dk. Round up of 102 ins.

FORGINGS AND CASTINGS.

KEEL, Bar or Side Plates, depth and thickness

STEM, moulding and thickness

STERN-POST for Rudder do. do.

MAIN PIECE of Rudder, diameter at head

RUDDER, how constructed

Can the Rudder be unshipped afloat?

FRAMING.

FRAME, Angles, or L Bars for 1/2 length amidships

Do. for 1/2 at each end

Do. in way of Double Bottoms

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

REVERSED FRAME Angles

FLOORS, depth and thickness of Floor Plate

Do. in way of Engines and Boilers

Do. thickness at the ends of vessel

Do. depth at 1/2 the half bath, as per Rule

Do. height extended at the Bilges

FLOORS & BRACKETS, in Cell Dble Bottoms

CENTRE GIRDER, in Double bottom, depth

Do. and thickness

SIDE GIRDERS, number and thickness

MARGIN PLATE, depth (exclusive of flange)

Do. and thickness

INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake

Do. thickness in Engine and Boiler space

Do. Remainder in Holds

BEAMS, Spar or Awning Deck, Single Angle

Do. Bulb Angle, Plate or Tee Bulb

Do. Angles on upper edge

Do. Average space

BEAMS, Main Deck, Single Angle, Bulb

Do. Angle, Plate or Tee Bulb

Do. Angles on upper edge

Do. Average space

BEAMS, Lower Deck, Single Angle, Bulb

Do. Angle, Plate or Tee Bulb

Do. Angles on upper edge

Do. Average space

BEAMS, Hold, or Orlop, Plate or Tee Bulb

Do. Angles on upper edge

Do. Average space

BEAMS, Bridge Deck, Angle, Bulb Angle

Do. Plate, or Tee Bulb

Do. Angles on upper edge

Do. Average space

BEAMS, Forecastle Deck, Angle, Bulb Angle

Do. Plate or Tee Bulb

Do. Angles on upper edge

Do. Average space

PILLARS, In 'tween Decks, Size and Spacing

Do. Hold

WEB FRAMES, In Fore Body, No. and spacing

Do. breadth and thickness

Do. No. of Side Stringers

WEB FRAMES, In After Body, No. and spacing

Do. breadth and thickness

Do. No. of Side Stringers

Size of Angles or Tee Bars to Web Frames

BRACKET PLATES to Stringers between Web Frames, depth and thickness

KEELSONS AND STRINGERS.

CENTRE LINE KEELSON, Vertical Plate above

Do. Through Plate, or Intercoastal Plate

Do. Bulb Plate to Intercoastal Keelson

Do. Horizontal Plates on Floors

Do. Angles

SIDE KEELSON, Angles

Do. Bulb or Plate above floors, for length

Do. Intercoastal Plate, for length

Do. Attached to outside Plating with Angle

BILGE KEELSON, Angles

Do. Bulb or Plate above floors, for length

Do. Intercoastal Plate, for length

Do. Attached to outside Plating with Angle

BILGE STRINGER Angles

Do. Bulb Plate, for length

Do. Intercoastal Plate, for length

Do. Attached to outside Plating with Angle

SIDE STRINGER Angles

Do. Bulb or Intercoastal Plate, for length

Do. Spar, or Awning Deck Stringer Plates, on

Do. ends of Beams, breadth and thickness

Do. Angle on ditto

Do. Tie Plates, fore and aft, outside Hatchways

Do. Diagonal Tie Plates on Bms., No. of prs.

Do. Flat of Deck, \* Iron or Steel, for whole len.

Do. Wood sheathed Material and thickness

Do. How fastened to Beams

Main Deck Stringer Plate, breadth & thickness

Do. Angles on ditto, No. two

Do. Tie Plates, outside Hatchways

Do. Diagonal Tie Plates on Bms., No. of prs.

Do. Flat of Deck, \* Iron or Steel, for whole len.

Do. Wood Material and thickness

Do. How fastened to Beams

Lower Deck Stringer Plates, br'dth & thck'n's

Do. Angles on ditto, No.

Do. Tie Plates, outside Hatchways

Do. Flat of Deck, \* Material and thickness

Do. How fastened to Beams

Hold, or Orlop Stringer Plate, br'dth & thck'n's

Do. Angles on ditto, No.

Do. Tie Plates, outside Hatchways

Do. Flat of Deck, \* Material and thickness

Do. How fastened to Beams

Poop Deck Stringer Plate, breadth & thickness

Do. Angles on ditto

Do. Tie Plates

Do. Flat of Deck, \* Material and thickness

Bridge Deck Stringer Plate, br'dth & thickness

Do. Angle on ditto

Do. Tie Plates

Do. Flat of Deck, \* Material and thickness

Forecastle Deck Stringer Plate, br'dth & th'kns

Do. Angle on ditto

Do. Tie Plates

Do. Flat of Deck, \* Material and thickness

PLATING.

FLAT PLATE KEEL, breadth and thickness

Do. Dblng or insrd thck'n's & len. appl.

PLATES in Garboard Strakes, breadth & thck'ns

Do. from Garboard to lower part of Bilges

Do. State Thickness of Plating in way of Double Bottom.

Do. Bilges, No. of Strakes and thickness

Do. Orloping Bilge, or increased thickness,

Do. and length applied

Do. from up. part of Bilge to l. edge of Sh'rstrake

Main Sheerstrake, breadth and thickness

Do. Orloping at Sh'rstr. & lng. applied

Do. from Main to Spar Dk. or Awn. Dk. Sh'rstrk

Do. Spar or Awn. Dk. Sh'rstrk, br'dth & thck'n's

Poop sides

Bridge sides

Forecastle sides

Lengths of Plating



BULKHEADS. No. in Vessel 6 to H. H. 1 to M. H. No. Reqd. by Rule 6

	Thickness	Angles	Spacing	Height up	Sngl. or Dbl. Frames
Ceiling betwixt Decks, thickness and material 2" W.P.					
" in hold do. do. 2 1/2" W.P.					
W. T. BULKHEADS	7/20	Vrtcl. 2 1/2 x 3/4 Hrztntl. 5/32 x 3/4	30 48	to upper Deck	Double
PARTITIONS		Vrtcl. Hrztntl.			
LONGITUDINAL		Vrtcl. 6 x 4 x 3/4	24	to Main Deck	

Number of Breasthooks 9  
Crutches 3

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

The FRAMES extend in one length from keel to margin, a margin to Gunwale Riveted through Plates with 7/8 in. Rivets, about 6" apart

The REVERSED ANGLE on floors and frames extend from centre line plate to margin, from No. 18 to 156 frames, Aft No. 18 and forward of No. 156

Main to Upper Deck alternately, all to Upper Deck aft of peak bulkhead and on alternate frames to fore-castle Deck

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" ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clench, double riveted; with rivets 7/8 in. diameter, averaging 2 1/4 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, treble or double riveted; treble for 1/2 length; with rivets 1" in dia., averaging 2 1/2 ins. from cr. to cr.

" " " overlapped for whole length, treble riveted for whole length; with rivets 7/8 in. dia., averaging 2 1/2 ins. from cr. to cr.

Butts of Stringer at Bilge for 1/2 length, treble riveted with Butt Straps thicker than the plates they connect.

Edges from Bilge to Main Sheerstrake, worked clench, double or single riveted; with rivets 7/8 in. diameter, averaging 2 1/4 ins. from centre to centre.

Butts from Bilge to Main Sheerstrake, worked carvel, treble or double riveted; treble for 1/2 length; with rivets 1 1/8 in. dia., averaging 2 1/2 ins. from cr. to cr.

" " Bilge to Main Sheerstrake overlapped for whole length, treble riveted for whole length; with rivets 7/8 in. dia., averaging 2 1/2 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. Spar or Awning Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for whole length amidships. Butts of Spar or Awning Sheerstrake, treble riveted length amidships.

Butts of Main Stringer Plate, treble riveted for whole length amidships. Butts of Spar or Awning Stringer Plate, treble riveted for whole length.

" " " Single or Double Straps for 1/2 length amidships. " " " Single or Double Straps for 1/2 length.

Butts of Inner Bottom Plating lapped & double riveted for whole length. Butts of Centre Girder lapped & treble riveted.

Breadth of edge laps of Shell Plating in double riveting 5 1/4. Breadth of edge laps of Shell Plating in single riveting 9 x 12.

Butt Straps of Shell Plating, breadth and thickness 1 1/2" x 1 1/2". Butts, If Lapped, breadth of laps 9 x 12.

Butt Straps of Keelsons, Stringer and Tie Plates, treble or double, riveted Keelsons & stringers treble riveted, tie plates double.

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, Thomas-Messard, Per. Francis Parkhead, Bessemer, Long Keelsons Messard.

Deck plating, Dalglish, Park & Co. Stockton, Hoare & Rylands, Messard.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed.

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 plating? a few.

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 21' 9"	21 1/2	16 1/2	17 1/2	14	1	1	Single	Double	
	Main .....	77' 6"	23	19	19	12 1/2	1	1	"	"	
	Mizen .....										

Bowsprit

Topmasts, Yards and Remainder of Spars

Rigging, Material and Size, Shrouds Steel wire 2 1/2" Stays 3 1/4" + 2 1/4"

Sails. Suit of one suit Sails and the following spare sails

EQUIPMENT No. 28196 LETTER 40 ANCHORS.

Number of Certificate.	Weight, Ex Stock.	Weight of Stock.	TEST, PER CERTIFICATE.				WEIGHT REQ. P.R. RULE.				Description of Anchor.	Makers.	Where and when tested and Superintendent.	
			Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.				qrs.
24027	1st Bower ..	40 3 15	9	3	1	26	10		40			Yostman's	Burley & Sons	18/8/93. Liverpool
24028	2nd " ..	40 3	9	3	14	26	6	1	40			"	"	"
24029	3rd " ..	24 2 18	8	2	11	22	3	3	24			"	"	19/8/93. Lewis
	4th " ..													
	Collective weight	116 1 5							114					
24052	Stream ....	12 14 3	8	11	19	2	21	12				Ordinary	Burley & Sons	18/8/93. Lewis
24056	Kedge .....	6 15 1	1	19	8	10		6				"	"	17/8/93. Liverpool
24055	2nd Kedge ..	3 20 3	3	8	5	14	1	14	3					

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.	
												Cwts.	qrs.
13946	150 3/4	2 1/2	107 1/2	328 1 21	200 2 1/2	stud link	Burley & Sons	Liphon 18/8/93. E.R. Hook	TOWLINE*	Steel wire			
13947	150	2 1/2	107 1/2	326 2 0				24/8/93.	Hawser	90	10	90	10
										90	9	90	9
										180	6		

Boats 4 in No.

Pumps, Number 10, 5 inch & 2 1/2 inch Diameter of Barrel and Tail Pipe Barrel 5" Tail 2 1/2" Barrel 4" Tail 2"

The Windlass is Black Chapman Capstan

Engine Room Skylights.—How constructed? Leak on iron coverings

What arrangements for deadlights in bad weather? Glass bulls eyes & canvas covers

Coal Bunker Openings.—How constructed? Hatchways & scuttles How are lids secured? Batteries & Bayonet fittings Height above deck? 16" above the clear of Deck & flush in B.H.

Number of Scuppers, and number and dimensions of Freeing Ports, &c. eight on each side 2' 6" x 1' 6" & seven supports on each side

Cargo Hatchways.—How formed? Plate and angles

Hatches.—If strong and efficient? Yes

State size No. 1 Hatch (Forward) 20' x 14' x 2' No. 2 Hatch 20' x 14' x 2' No. 3 Hatch 20' x 14' x 2' No. 4 Hatch 20' x 14' x 2'

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch one shifting beam & three fore & afters to each hatchway

Bulwarks, height above deck and description 4' ft. above deck of iron Main Rail, material and size 6 1/2 x 8 1/2 x 3

The above is a correct description.

Builder's Signature (here only.) (Sgd) Richd Hughes

Surveyor's Signature (Sgd) J. H. Hand

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



Order for Special Survey No. 2607  
Date 25 May 1893  
Order for Ordinary Survey No.  
Date  
No. 272 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 }  
2nd. On the plating during the process of riveting }  
3rd. When the beams were in and fastened, and before the decks were laid ..... }  
4th. When the ship was complete, and before the plating was finally coated or cemented ... }  
5th. After the ship was launched and equipped }  
Total No. of Visits 119

State dates and initials of letters respecting this case

General Remarks (State quality of workmanship, &c.) Workmanship good. This is a Steel Screw Steamer built in accordance with the approved Midship Section & Profile, forwarded to London on the 25<sup>th</sup> ult. The accompanying tracings, & in No. 9 Secretary's letter of the above date, & in conformity with the Rules. The hand pumps have been examined in accordance with Circular No. 880 & proved satisfactory, the testing of the gutter waterways has been carried out & found satisfactory.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 17 ft., R.Q.D. or Break 1 ft., Bridge Dk. 72 ft., F'castle 44 ft., (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. 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) 2 the steel 1 ft. 11.5 2 the B.  
Official No. ; Signal Letters

PARTICULARS OF WATER BALLAST—  
Double bottom, aft, length and water capacity in tons . Double bottom, forward, length and water capacity in tons  
Double bottom, under engines and boilers, length and water capacity in tons . If under Engines only, or Boilers only, state which  
Double bottom, constructed on the cellular system, length 276 and water capacity in tons 750  
Fore peak tank, water capacity in tons . After peak tank, water capacity in tons  
Midship deep tank, length 16' and water capacity in tons 280 . Other tanks, if fitted, length and water capacity in tons  
The above have been tested as required by the Rules.  
(If necessary, furnish further information by sketch.)  
How are the surfaces preserved from oxidation? Inside Portland cement & paint Outside paint

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated 25/8/93  
State if marked on Vessel's sides in accordance with Notice No. 572. Yes  
In Summer 6 ft. 6 ins.  
In Winter 6 ft. 5 ins.  
For Winter in North Atlantic 6 ft. 10 ins.  
Fresh Water above the centre of disc 52 ins.  
To top of Wood, Iron or Steel Upper, Spar, Awning, or Part Awning Deck. 13' above deck at side

The amount of Entry Fee £ 5 : : is received by me, }  
Special. £ 111 : 6 : 18 }  
Certificate\*. £ : :  
Travelling Expenses, if any £ : :  
I am of opinion this Vessel should be Classed 100 A Steel (See) H Board  
Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute 8<sup>th</sup> September 1893  
Character assigned 100 A Steel

Checked.  
R.A.W.  
19.12.05.