

AND DEEP FRAMING  
1st 2 Dks., R.Q.Dk.,  
2nd Pt. Awng. Dk.  
IRON OR STEEL STEAMER.

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

Date of completion of Report 26 April 1900.

Date, First Survey 28 August 1899

Port of Glasgow

Last Survey 19 April 1900

Rig Schooner

No. 17889

Received at London Office MON. 30 APR 1900

Survey held at Glasgow  
On the Steel Screw Steamer

"CAMBRIAN,"

Master Matthew

Year of appointment

(1) As master in service of  
owner of present vessel - 18  
(2) As master of this  
vessel - 18

Built at Glasgow

When built 1900 Launched 21st March

By whom built Mackie & Thomson

Owners Hawthorn Brothers & Co. (Lim)

Managers

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

Residence London

Port belonging to London

ONE OR TWO DECKED VESSEL.

CLASS 100A1. Steel. Well Deck.

Half Breadth (moulded) 15.16

Depth from upper part of Keel to top of Main Deck Bms. 15.39

Girth of Half Midship Frame (as per Rule) 28.00

1st Number 58.55

Length on deck from after part of stem to fore part of stern post 208.84

2nd Number 122.07

Proportions—Breadths to Length 6.88

Depths to Length—Main Deck to top of Keel 13.56

Destined Voyage Barcelona If Surveyed while Building, Afloat, or in Dry Dock Yes.

LENGTH on Deck as	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, ACTUAL—	Feet.	Inches.	No. of Decks with Flat laid
per Rule.....	208	10	Moulded.....	30	4	Top of Floors to top of Main Deck Beams.....	12	7 1/2	1

Dimensions of Ship per Register, Length, 210.3 breadth, 30.5 depth, 12.4. Moulded Depth, 14 ft. 9 ins. Round of Beam, Actual 7 1/2 ins.

FRAMING.						FORGINGS AND CASTINGS.								
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.			
FRAME, Angles, <u>7 x 5 Bars for 1/2 length amidships (in way of R.Q.Dk.)</u>	5	3	7	5	3	KEEL, Bar or Side Plates depth and thickness	<u>that plate</u>	<u>that</u>						
Do. for 1/2 at each end	5	3	7	5	3	STEM, moulding and thickness	<u>7 x 2 1/2</u>	<u>7 x 2 1/4</u>						
Do. in way of Double Bottoms at Solid Floors	3	3	7	3	3	STERN-POST for Rudder do. do.	<u>7 x 4 1/2</u>	<u>7 x 4 1/2</u>						
" " at intermdt. Bkts.						" for Propeller	5	5						
Distance of Frames from moulding edge to moulding edge, all fore and aft	3 1/2	3	7	3 1/2	3	MAIN PIECE of Rudder, diameter at head	<u>4 3/4 x 3 1/2</u>	<u>4 x 3 1/2</u>						
REVERSED FRAME, Angles <u>R.Q.Dk.</u>	3 1/2	3	7	3 1/2	3	do. at heel								
DEEP FRAMING, depth of girder		5 1/2			5 1/2	RUDDER, how constructed	<u>Single plate 15" x 20" forged iron frame</u>							
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships						Can the Rudder be unshipped afloat?	<u>Yes</u>							
" in way of Engines and Boilers						KEELSONS AND STRINGERS.								
" thickness at the ends of vessel						CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate								
" depth at 1/2 the half breadth, as per Rule						" Rider Plate								
" height extended at the Bilges						" Bulb Plate to Intercostal Keelson								
FLOORS & BRACKETS, in Cell Dble Bottoms	33	6	33	6		" Horizontal Plates on Floors								
" Distance apart	22		22			" Angles								
CENTRE GIRDER, in Double Bottom, depth and thickness	33	8	33	8		SIDE KEELSON, Angles <u>in way of M.D.</u>	7	3	10	7	3	10		
" Angles, Top	3 1/2	3 1/2	7	3 1/2	3 1/2	" Bulb or Plate above floors for full length	12 1/2	9	12 1/2	9				
" Bottom	4 1/2	3 1/2	7	4 1/2	3 1/2	" Attached to outside plating with Angle	3	3	7	3	3	7		
SIDE GIRDERS, number on each side & thickness	One	6	One	6		BILGE KEELSON, Angles <u>in way of M.D.</u>	4 1/2	3 1/2	7	4 1/2	3 1/2	7		
" Angles	3	3	7	3	2 1/2	" Bulb or Plate above floors for 1/2 length	7 1/2	3	10	7 1/2	3	10		
MARGIN PLATE, depth (exclusive of flange) and thickness	27	7	27	7		" Intercostal Plate for <u>DOUBLE ANGLE</u> FORWARD	4 1/2	3 1/2	7	4 1/2	3 1/2	7		
" Angles to Outside Plating	3 1/2	3 1/2	7	3 1/2	3 1/2	" Attached to outside plating with Angle	7 1/2	3	11	7 1/2	3	11		
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	50	9	50	8		BILGE STRINGER, Angles <u>in way of R.Q.Dk.</u>	7 1/2	3	11	7 1/2	3	11		
" thickness in Engine and Boiler space	10	9	10	8		" Bulb Plate for full length	13	9	13	9				
" Remainder in Holds	7	7	7	6		" Attached to outside plating with Angle	3	3	7	3	3	7		
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	3	8	5 1/2	3	SIDE STRINGER, Angles <u>in way of R.Q.Dk.</u>	7 1/2	3	11	7 1/2	3	11		
" Angles on Upper Edge						" Bulb or Intercostal Plate for full length	13	9	13	9				
" Average space	22		22			" Attached to outside plating with Angle	3	3	7	3	3	7		
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						Main and Raised Quarter Deck Stringer Plate, breadth and thickness	46	10-9	46	10-9				
" Angles on Upper Edge						" Angle on ditto	4 x 4	7	4 x 4	7				
" Average space						" Tie Plates fore & aft, outside Hatchways	Deck plating in way of large openings increased in thickness							
BEAMS, Hold, Plate or Tee Bulb						" Diagonal Tie Plates on Bms., No. of Pairs								
" Angles on Upper Edge						" Main Dk* Iron or Steel for full length	7		6					
" Average space						" R. Q. Dk* Iron or Steel for full length	7		6					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb						" Wood Deck, Material & thickness	None							
" Angles on Upper Edge						Lower Deck Stringer Plate, breadth and thickness								
" Average space						" Angles on ditto, No.								
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle, Plate or Tee Bulb	4	2 1/2	6	4	2 1/2	" Tie Plates, outside Hatchways								
" Angles on Upper Edge						" Deck* Material and thickness								
" Average Space	22		22			Hold Stringer Plate								
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	6	6	6		" Angles on ditto, No.								
" Angles on Upper Edge	2 1/2	2 1/2	5	2 1/2	2 1/2	Poop Deck Stringer Plate, breadth & thickness								
" Average space	44		44			" Angle on ditto								
PILLARS, In 'tween Decks, Size and Spacing	2 1/2	44	2 1/2	44		" Tie Plates								
" Hold	2 1/2	44	2 1/2	44		" Deck, Material and thickness	Steel	7		6				
" Quarter, 'tween Dks., "						Forecastle Deck Stringer Plate, breadth & thickness	35 1/2	8	35 1/2	7				
" in Hold	3 1/2	44	3 1/2	44		" Angle on ditto	3 x 3	6	3 x 3	6				
WEB FRAMES, In Fore Body, No. and Spacing						" Tie Plates								
" Brdth. & Thickness						" Deck, Material and thickness	P. Pine	3	1	3				
" No. of Side Stringers						BULKHEADS.								
WEB FRAMES, In E. & B. Space, No. & Spacing						Number.	In Vessel.	Per Rule.	Thickness.	Horizontal.	Vertical.	Single or Double Frames.	Height up.	
" Brdth. & Thickness						W.T. BULKHEADS	4	4	6 x 5	3 1/2 x 3 1/2	2 1/2 x 3 1/2	30	46	46
WEB FRAMES, In After Body, No. and Spacing						PARTITION	1		5	4 x 4	4 x 4	46	46	46
" Brdth. & Thickness						LONGITUDINAL								
" No. of Side Stringers														
" Size of Angles or Tee Bars to Web Frames														
BRACKET PLATES to Stringers, between Web Frames, Depth and Thickness														



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		Lower EDGES.				BUTTS.								
	AMIDSHIP.		FORWARD.		AFT.		Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.	STRAPS.		IF LAPPED.					
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.						Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.		
FLAT PLATE KEEL (If Bar Keel, state Riveting)	34	12	9	9	34	12													
GARBOARD OR A Strake	36	10	9	9	36	10	Double	5 1/2	3/8	3/8	3/8	3/8	16 1/2	14	9	7 1/2			
B "		8	7	7		8		4 1/2	3/4	3/4	3/4	2 3/8							
C "		9	8	8		9													
D "		9	7	7		9													
E "		10	8	8		10													
F "		9	7	7		9													
G "		9	8	8		9													
H "	35	10	8	8	35	10													
J "																			
K "																			
L "																			
M "																			
N "																			
O "																			
P "																			
DOUBLING OF Flat Plate Keel																			
Length and thickness of Bilges																			
Length and thickness of Sheerstrakes																			
Length and thickness of Strake below																			
POOP SIDES																			
RAISED QUARTER DECK SIDES		9		7															
BRIDGE SIDES		7																	
FORECASTLE SIDES			6																
LENGTHS OF PLATING	Eight from spaces.																		

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, outside Plating, &c. Summers process

Angles, Laminar, Dalgell  
Plates, Messing, Clydeside, Dalgell, Dalgell

Has the Steel been tested as required by the Rules Yes

Main Stringer Plate Butts, treble riveted for 1/2 length amidship.  
Straps, single, double or overlapped for full length amidship.

Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? S. & D.

Inner Bottom Plating, riveting of Edges S. & D. Butts Double

Centre Girder Butts, Double riveted. Keelson Butts, Double riveted.

Frames, riveted through Plates with 2 1/2 in. Rivets, about 5 apart.

Rivets, state whether of Iron or Steel Iron

FRAMES extend in one length from centre to tankside to and from tankside to gunwale

REVERSED FRAMES on floors and frames extend from centre to tankside and from tankside to main and round

Quarter Decks

MASTS, SPARS, &c.

LOWER MASTS...	Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
Fore	Steel	56-0	16 1/2 x 5/16	14 x 5/16	13 1/2 x 5/16		Two			Single	Double
Main		60-0	16 1/2 x 5/16	15 x 5/16	13 1/2 x 5/16						
Mizen											

Bowsprit ✓

Topmasts, Yards and Remainder of Spars Pitch pine

Rigging, Material and Size, Shrouds Salvage iron wire 2 1/2

Sails. One Suit of Sails and the following spare sails ✓

EQUIPMENT No. 13317 LETTER 2. TONNAGE FOR TRAWLERS ✓ U.D.K.

ANCHORS.

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.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Cwts.	qrs.			
37562	1st Bower	22	0	0	22	7	2	0	20	3	0	Hartshorn
37564	2nd "	19	3	0	20	10	2	14	20	3	0	"
37614	3rd "	18	1	0	19	4	1	14	18	0	0	"
	Collective weight	60	0	0				59	2	0		
37294	Stream	5	2	14	1	2	0	7	18	1	21	5
37548	Kedge	2	3	0	0	3	0	5	5	0	0	2

Certificate vouching for the mechanical etc. test on this cast steel anchor heads have been issued by C.S.P.

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Table 22.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Table 22.
			Test per Certificate.	Per Table 22.									
14902	210	1 1/2	51	34	203-3-6	210 x 1 1/2	Alfred Jones	Hartshorn & Co. W.C. 30-12-99, Welford	TOWLINE Steel	90	3	18	90 x 3
									HAWSE	90	6		90 x 6
									WARP	90	5		90 x 5

Stream Chain ✓ Steel Wire ✓

Boats Two Lifeboats and one other

Pumps, Number Four Diameter of Barrel 4" State whether they are in efficient working order Yes

Windlass is Emerson, Walker & Thomson Bros Capstan ✓

Engine Room Skylights.—How constructed? Plates and angles and Teak

What arrangements for deadlights in bad weather? Teak shutters and dulleys

Coal Bunker Openings.—How constructed? Plates and angles How are lids secured? Patented down Height above deck? 2 1/2"

Number of Scuppers, and number and dimensions of Freeing Ports, &c. On each side in well 3 Scuppers

Ceiling in Holds, thickness and material 2 1/2" Red pine Ceiling 'tween Decks, thickness and material 2" Red pine

Cargo Hatchways.—How formed? Plates and angles Hatches.—If strong and efficient? 2 1/2" Bolts

State size No. 1 Hatch (Forward) 12 x 10 x 13-0 No. 2 Hatch 23 x 10 x 16-0 No. 3 Hatch 23 x 10 x 16-0 No. 4 Hatch ✓

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch No. 1 One beam No. 2 & 3 Two web plates Three

Four and afters to each Hatch

Bulwarks, height above deck and description 4-0 7/8 steel No. of Breasthooks Six No. of Crutches Two deep floors

Main Rail, material and size Two half round 3 x 1 1/2 iron

The above is a correct description.

Builder's Signature (here only) MacKie Thomson Surveyor's Signature Allison B. Wilson

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

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case)

M. 22<sup>nd</sup> April - 99, 23<sup>rd</sup> May - 99, 10<sup>th</sup> April 1900. E. 24<sup>th</sup> August - 99

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 the plating? A few

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

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? Yes State results of tests Satisfactory

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? Yes State results of tests Satisfactory

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

This vessel has been built in accordance with the approved plans. The Secretary letters of the above dates and in general conformity to the Rules for the class contemplated.

Accompanying this Report. Plans of Midship Section, Profile and Decks. Pumping Arrangements, Amund arrangement in way of E. B. Space. Section in way of Decks. Three reports on Ships Joinings, Report on fast foot of stem (Steel casting)

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. or Break 63-0 ft., Bridge Dk. 64-2 ft., F'castle 22-5 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 The R.Q.D. is joined to the B.D.

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) 1 Dk. (Lath.) & deep framing.

Official No. ✓; Signal Letters ✓

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

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors Cell. D.B.

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Midship deep tank,		
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,	93-5	35-0			

\* The wells are not to be included in the lengths of the tanks. State whether the above have been tested as required by the Rules Yes

Order for Special Survey No. 3324

Date 20/6/99

No. 258 in builder's yard

DATES OF SURVEYS held while building

1899: Aug. 28. Sep. 1. 12. 15. 20. 21. 26. 28. 29. Oct. 2. 9. 12. 13. 17. 19. 23. 27. 30. 31. Nov. 6. 9. 20. 24. 27. Dec. 4. 7. 12. 15. 19. 22. 27. 1900: Jan. 9. 11. 17. 22. 30. Feb. 5. 16. 23. 28. Mar. 5. 7. 9. 12. 15. Apr. 4. 5. 9. 10. 13. 19.

Total No. of Visits 37

The amount of Entry Fee 4 3/4 : Fees applied for, 11/5 1900. 13/6 1900.

Special 4 40 : 3 : Received by me, 12-6-18-00

Certificate ✓ : : Travelling Expenses, if any £ : :

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed 100 A 1 "Steel" "Well Deck"

With, or without Freeboard, as condition of Class

Signature Allison B. Wilson Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Character assigned 100 A 1 (Steel)

TUES. 1 MAY 1900

Signature asb P + L.M.B. 4.00.

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