

IRON SHIP.

No. 1367 Survey held at Glasgow Date, First Survey 28th Jan 1876 Last Survey 5th Jan 1877 1877

On the S. S. Loudoun Castle

Master A. Marshall

Built at Glasgow

When built 1876 Launched 28th Oct 1876

By whom built S & G. Thomson

Owners Thos. Skinner & Co. of 81 Gordon St Glasgow

Port belonging to Glasgow

Destined Voyage China via London

Surveyed while Building, Afloat, or in the Dock ✓

TONNAGE under Tonnage Deck 2307.84
 Ditto of Poop, or Raised Or. Dk. 87.57
 Ditto of Houses on Deck 37.53
 Ditto of Forecastle 39.28
 Gross Tonnage 2472.22
 Less Crew Space 65.25
 Less Engine Room 791.11
 Register Tonnage as cut on Beam 1615.86

ONE, OR TWO DECKED, THREE DECKED VESSEL.
 SPAR, OR AWNING DECKED VESSEL.
 HALF BREADTH (moulded)... 18.3 Feet.
 DEPTH from upper part of Keel to top of Upper Deck Beams 27.8
 GIRTH of Half Midship Frame (as per Rule) 86.7
 1st NUMBER 86.7
 1st NUMBER, if a THREE-DECKED VESSEL [deduct 7 feet] 79.7
 LENGTH 340
 2nd NUMBER 270980
 PROPORTIONS—Breadths to Length 9.3
 Depths to Length—Upper Deck to Keel 12.2
 Main Deck ditto 16.9

LENGTH on deck as per Rule 340 Feet. Inches. 0
 BREADTH—Moulded... 36.8 Feet. Inches. 0
 DEPTH top of Floors to Upper Deck Beams 25.9 Feet. Inches. 10
 Do. do. Main Deck Beams 17.9 Feet. Inches. 10
 Power of Engines 400 Horse.
 N^o. of Decks with flat laid Two
 N^o. of Tiers of Beams Three

Dimensions of Ship per Register, length, 350.7 breadth, 36.8 depth, 25.75

	Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	11 x 23/4	11 x 23/4	PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	40	12 3/6 12
STEM, moulding and thickness	11 x 23/4	11 x 23/4	of doubling at Bilge, or increased thickness, and length applied	—	—
STERN-POST for Rudder do. do.	11 x 5 1/2	11 x 5 1/2	fm up. part of Bilge to Ir. edge of Sh'rstrake	12-11	12-11
for Propeller	11 x 5 1/2	11 x 5 1/2	Main Sheerstrake, breadth and thickness	40	15 40 15
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	(Class 100A)	of doubling at Sh'rstrake, & length applied from Mn to Tip, or Spar Dk. Sh'rstrake	—	—
FRAMES, Angle Iron, for 1/2 length amidships	5 3 8	5 3 8	Up or Spar Dk. Sh'rstrake, breadth & thickness	—	—
Do. for 1/2 at each end	5 3 7	5 3 7	Butt Straps to outside plating, breadth & thickness	19-16 1/4	19-16 1/4
REVERSED FRAMES, Angle Iron	3 1/2 3 8	3 1/2 3 8	Lengths of Plating	11 1/4	10 5/8
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	24 x 10	24 x 10	Shifts of Plating, and Stringers	Two spaces	Two spaces
thickness at the ends of vessel	—	—	Gunwale Plate, on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	83	9 72 9
depth at 1/2 the half-bdth. as per Rule	12	12	Angle Iron on ditto	6 1/2 x 4 x 9	6 1/2 x 4 x 9
height extended at the Bilges	Twice	Twice	Tie Plates fore and aft, outside Hatchways	16	9 16 9
BEAMS, Upper, Spar, or Awning Deck Single or double Angle Iron, Plate or Tee Bulb Iron	7 1/2 x 7	7 1/2 x 7	Diagonal Tie Plates on Beams No. of Pairs	none	none
Single or double Angle Iron on Upper edge	3 3 6	3 3 6	Planksheer material and scantling	14 x 6	12 x 6
Average space	48	48	Waterways do. do. } Seal	3 1/2	33/8
BEAMS, Main, or Middle Deck Single or double Angle Iron, Plate or Tee Bulb Iron	9 x 9	9 x 9	Flat of Upper Deck do. do. } Seal	—	—
Single or double Angle Iron, on Upper Edge	3 1/2 3 7	3 1/2 3 7	How fastened to Beams	Nuts and Screws	Nuts and Screws
Average space	48	48	Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	49	10 49 10
BEAMS, Lower Deck, Hold, or Orlop Single or double Angle Iron, Plate or Tee Bulb Iron	10 1/2 x 10	10 1/2 x 10	Is the Stringer Plate attached to the outside plating?	Yes	Yes
Single or double Angle Iron on Upper Edge	4 1/2 4 9	4 1/2 4 9	Angle Irons on ditto, No. 2	4 x 4 x 9	4 x 4 x 9
Average space as sketch, about every 10" frame	as sketch	as sketch	Tie Plates, outside Hatchways	Cont. shovels	Cont. shovels
KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates	26 x 14	26 x 14	Diagonal Tie Plates on Beams, No. of pairs	Deck 7/16	Deck 7/16
Rider Plate	14 x 14	14 x 14	Waterways materials and scantlings	6 1/2 for a few	6 1/2
Bulb Plate to Intercoastal Keelson	—	—	Flat of Middle Deck do. do.	Flat at ends	Flat at ends
Angle Irons	6 1/2 4 9	6 1/2 4 9	How fastened to Beams	Riveted	Riveted
Double Angle Iron Side Keelson	6 1/2 4 9	6 1/2 4 9	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	42	9 42 9
Side Intercoastal Plate	—	—	Is the Stringer Plate attached to the outside plating?	Yes	Yes
do. Angle Irons	3 1/2 3 1/2 8	3 1/2 3 1/2 8	Angle Irons on ditto, No. 3	2 x 4 x 9	2 x 4 x 9
Attached to outside plating with angle iron	3 1/2 3 1/2 8	3 1/2 3 1/2 8	Stringer or Tie Plates, outside Hatchways	Strong Beams	Strong Beams
BILGE Angle Irons	6 1/2 4 9	6 1/2 4 9	Flat of Lower Deck	—	—
do. Bulb Iron	9 x 9	9 x 9	Ceiling betwixt Decks, thickness and material in hold	2 1/2	2 1/2
do. Intercoastal plates riveted to plating for 1/2 length	—	—	Main piece of Rudder, diameter at head	8	8
BILGE STRINGER Angle Irons	6 1/2 4 9	6 1/2 4 9	do. at heel	4	4
Intercoastal plates riveted to plating for 3/5 length	—	—	Can the Rudder be unshipped afloat?	Yes	Yes
SIDE STRINGER Angle Irons	—	—	Bulkheads No. 6 Thickness of	7-6	7-6

Transoms, material. Knight-heads. Hawse Timbers. Iron

Windlass Emerson's Patent

The FRAMES extend in one length from Keel to Gunwale Riveted through plates with 3/4 in. Rivets, about 6 apart.

The REVERSED ANGLE IRONS on floors and frames extend from middle line to middle deck and to upper deck alternately

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes

PLATING. Garboard, double riveted to Keel, with rivets 1 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.

Butts of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/6 thicker than the plates they connect.

Edges from bilge to Main Sheerstrake, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.

Edges of Main Sheerstrake, double riveted. Upper Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted

Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/2 length.

Breadth of laps of plating in double riveting 5 1/2 Breadth of laps of plating in single riveting —

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

Waterway, how secured to Beams Nuts & Screws (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? By Ribs turned down, also No. of Breasthooks, Six Crutches, Five and

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Best

Manufacturer's name or trade mark, Angus and Bulbs "Mossend" Plates "Mossend" Boilers

The above is a correct description.

Builder's Signature, James & Co. Thomson Surveyor's Signature, Saml. Laphorn

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

IRON 469-0475

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *Yes*
Are the fillings between the ribs 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*

Masts, Bowsprit, Yards, &c., are *all* in *good* condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit *Three Masts—Fore and Aft Schooner Rig*

Bowsprit of Pitch Pine 47.6" x 26" at Bed

Iron of Mast Plate Fore Mast *extreme 128* } Pitch Pine Pole 41.5" } Lower part of Mast of Iron 17.6" in
Main Mast " 130 } do " 34" } Fore Mast 6.5" in
Mizen Mast " 108 } do " } Triple riveted Bulbs Fore & Main 28 at
joints, Mizzen 24 at joints.

NUMBER for EQUIPMENT 32425		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd pr Rule.	Test req'd per Rule.	ANCHORS.	N°.	Weight. Ex. Stock.	Test per Certificate.	Weight req'd per Rule.	Test req'd per Rule.
N°.	SAILS.	CABLES, &c.	300	1 15	67 20	300-1 15	Bowers	1	36.2.12	33.10.1	36 1/2	33 2/3
One	Fore Sails,	Chain	Three 1/2 inch	94 10	94 10	94 10	stuck	1	7.0.18	33.2.3	35	32 5/10
Sail	Fore Top Sails,	to a breaking	show of	94 10	94 10	94 10	stuck	1	36.0.2	33.2.3	35	32 5/10
	Fore Topmast Stay Sails	Hmpn Strm Cbl	90	1 1/2 Iron	90-1 1/2 Iron	90-1 1/2 Iron	stuck	1	7.0.0	30.17.2	32 1/2	30 2/20
	Main Sails,	Hawser ...	90	11	90-12 in	90-12 in			33.0.0	30.17.2	32 1/2	30 2/20
	Towlines ...	Towlines ...	90	9	90-12 in	90-12 in	Stream	1	6.0.4		14	
	Main Top Sails,	Warp ...	180	2 1/2	90-8 in	90-8 in	Kedges	1	7.0.4		7	
and	4 spare	quality new	180	2 1/2					3.2.23		3 1/2	

Standing and Running Rigging *Wire & Hemp* sufficient in size and *good* in quality. She has *Six* Boats *and* 2 *fitters* with buoyancy

The Windlass is *Good* Capstan *Good* and Rudder *Good* Pumps *Good* and efficient

Engine Room Skylights.—How constructed? *Leak fitting fitted on top of an Iron House* How secured in ordinary weather? *Iron bars*

What arrangements for deadlights in bad weather? *Strong Leak covering with Bulls eyes*

Coal Bunker Openings.—How constructed? *Circular casting* How are lids secured? *Screwed* Height above deck? *about 4 ins*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *3 Cargo Ports, 6 Scuppers, 6 water ports 2 mooring pipes each side*

Cargo Hatchways.—How formed? *Plate and angle iron*

State size Main Hatch *20 x 12* Forehatch *8 x 7* Quarterhatch *14 x 10"*

If of extraordinary size, state how framed and secured? *Increased width of Pies and Stringers and strong portable beams*

Hatches, If strong and efficient? *Yes*

Order for Special Survey No. <i>118</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought	1876—Janv. 28, Feb. 4, 9, 17, 23, March 1, 3, 9
Date <i>Janv. 21/76</i>	2nd. On the plating during the process of riveting	March 15, 17, 23 April 3, 5, 7, 13, 18, 21, 28
Order for Ordinary Survey No. <i>1</i>	3rd. When the beams were in and fastened, and before the decks were laid....	May 3, 8, 12, 17, 23, 26, June 2, 7, 15
Date <i>✓</i>	4th. When the ship was complete, and before the plating was finally coated or cemented..	June 16, 20, 28, 30, July 3, 7, 11, 28 Augt 4
No. <i>146</i> in builder's yard.	5th. After the ship was launched and equipped	Augt 8, 19, 30 Sept. 9, 13, 15, 21, 25, 28
		Oct. 4, 12, 16, 19, 27 Nov. 4, 16, 29
		Dec. 7, 8, 18, 27; 1877 Janv 5

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

The Workmanship is of good quality—
Built in accordance with the Sketches of Midship and
Longitudinal Sections and of those marked A & B herewith
approved per Committee's Letters of 20th Decr 1875, 31st Janv.
and 12th April 1876 and in general conformity with the
Rules with a view to the grade contemplated.

Fitted with Poop 40 feet long and Forecastle 47 ft long. Iron house
over Engine Hatch 20 x 12 having sky-light on top, Galley and Funnel casing
of Iron 34 x 12. Cabins under Bridge amidships for Officers & Engineers
24 x 12. Wings under Bridge at sides 24 x 7. Wheel Covering on Bridge 11 x 10

State if one, two, or three, decked vessel, or if open, or mening decked, and the lengths of poop, forecastle, or raised quarter deck, and the length of double, or part double bottom.

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

I am of opinion this Vessel should be Classed *100A1*

The amount of the Entry Fee ... £ 5 : : : is received by me, *£5. 6th Janv. 1877*

Special ... £ 85 : 3 : 6 *Janv. 1877*

Certificate ... *British*

(Travelling Expenses, if any, £ 8. 8.)

Committee's Minute *9th Janv. 1877*

Character assigned

Lloyd's Register

100A1

2 Dps

Iron Deck

Lloyd's Register
Foundation