

# IRON SHIP.

No. 11258 Survey held at Sunderland Date, First Survey April 6<sup>th</sup> Last Survey November 6<sup>th</sup> 1875  
 On the Ship "Castle Holme" Tonnage 83 Master W. Robinson

TONNAGE under Tonnage Deck 983.21 ONE, OR TWO DECKED, THREE DECKED VESSEL.  
 Ditto of Third, Spar, or Awaiting Deck. ✓ SPAR, OR AWNING DECKED VESSEL.  
 Ditto of 44.53 HALF BREADTH (moulded)... 17.25 Feet.  
 Raised Or. Dk. 14.27 DEPTH from upper part of Keel to top of Upper Deck Beams 22.95  
 Ditto of Houses on Deck 14.27 GIRTH of Half Midship Frame (as per Rule) 35.10  
 Ditto of Forecastle ✓ 1st NUMBER 75.3  
 Gross Tonnage 1042.01 1st NUMBER, if a THREE-DECKED VESSEL (deduct 7 feet)  
 Less Crew Space 46.17 LENGTH 204.5  
 Less Engine Room 15.398 2nd NUMBER 15.398  
 Register Tonnage 995.84 PROPORTIONS—Breadths to Length Under 6 1/2  
 as out on Beam 995.84 Depths to Length—Upper Deck to Keel Under 9 1/2  
 Main Deck ditto 11

Built at Sunderland  
 When built 1875 Launched 16<sup>th</sup> Sep<sup>r</sup>  
 By whom built Bartram & Russell  
 Owners Three Brs. of Maryport  
 Port belonging to Maryport  
 Destined Voyage Melbourne  
 Surveyed while Building Afloat, or in Dry Dock.

LENGTH on deck as per Rule 204 6 BREADTH—Moulded... 34 3 DEPTH top of Floors to Upper Deck Beams 22 8 Power of Engines — Horse — No. of Decks with flat laid one No. of Tiers of Beams —

Dimensions of Ship per Register, length, 213.9 breadth, 34.5 depth, 20.4

	Inches in Ship	Inches per Rule	Inches in Ship	Inches per Rule	Inches in Ship	Inches per Rule
KEEL, depth and thickness	8 x 2 3/8	8 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8
STEM, moulding and thickness	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8
STERN-POST for Rudder do. do.	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8	7 1/2 x 2 3/8
for Propeller	23	23	23	23	23	23
Distance of Frames from moulding edge to moulding edge, all fore and aft	23	23	23	23	23	23
FRAMES, Angle Iron, for 1/2 length amidships	5 3	5 3	5 3	5 3	5 3	5 3
Do. for 1/2 at each end	5 3	5 3	5 3	5 3	5 3	5 3
REVERSED FRAMES, Angle Iron	3 3	3 3	3 3	3 3	3 3	3 3
FLOORS, depth and thickness of Floor Plate at mid line, for half length amidships	24	24	24	24	24	24
thickness at the ends of vessel	7	7	7	7	7	7
depth at 1/2 the half-bdth. as per Rule	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
height extended at the Bilges	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
AMS, Upper, Spar, or Awaiting Deck	8 8	8 8	8 8	8 8	8 8	8 8
Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron	3 3	3 3	3 3	3 3	3 3	3 3
Angle or double Angle Iron on Upper edge	3 3	3 3	3 3	3 3	3 3	3 3
Average space	alternate	alternate	alternate	alternate	alternate	alternate
AMS, Main, or Middle Deck	8 8	8 8	8 8	8 8	8 8	8 8
Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron	3 3	3 3	3 3	3 3	3 3	3 3
Angle or double Angle Iron, on Upper Edge	3 3	3 3	3 3	3 3	3 3	3 3
Average space	alternate	alternate	alternate	alternate	alternate	alternate
AMS, Lower Deck, Hold, or Outboard	8 8	8 8	8 8	8 8	8 8	8 8
Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron	3 3	3 3	3 3	3 3	3 3	3 3
Angle or double Angle Iron on Upper Edge	3 3	3 3	3 3	3 3	3 3	3 3
Average space	alternate	alternate	alternate	alternate	alternate	alternate
KEELSONS Centre line, single or double plate, 1/2 or Intercoastal, Plates	15 11	15 11	15 11	15 11	15 11	15 11
Rider Plate	10 11	10 11	10 11	10 11	10 11	10 11
Bulb Plate to Intercoastal Keelson	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
Angle Irons	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
Double Angle Iron Side Keelson	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
Side Intercoastal Plate	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
do. Angle Irons	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
attached to outside plating with angle iron	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
Angle Irons	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
Bulb Iron	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
Intercoastal plates riveted to plating for length	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
STRINGER Angle Irons	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
Intercoastal plates riveted to plating for length	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2
RINGER Angle Irons	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2	5 3 1/2

Flat Keel Plates, breadth and thickness 39 11 34 11  
 PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied 9.10  
 fin up. part of Bilge to l.r. edge of Sh'rstrake 9.10  
 Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake. 38 11 36 11  
 Up. or Spar Dk Sh'rstrake, brdth & thickness 10 1/2 8.12 9 1/2 8.12  
 Butts Straps to outside plating, breadth & thickness Five spaces of frames  
 Lengths of Plating Five spaces of frames  
 Shifts of Plating, and Stringers Five spaces of frames  
 Gunwale Plate on ends of Gunwale  
 Upper Deck Beams, breadth and thickness 42 9 42 9  
 Angle Iron on ditto 5.3 1/2 8 5.3 1/2 8  
 Tie Plates fore and aft, outside Hatchways 12 9 12 9  
 Diagonal Tie Plates on Beams No. of Pairs, Butter Gunwale  
 Planksheer material and scantling do. do.  
 Waterways do. do.  
 Flat of Upper Deck do. do.  
 How fastened to Beams Iron nuts and Sec. bolts  
 Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness 30 8 30 8  
 Is the Stringer Plate attached to the outside plating? yes  
 Angle Irons on ditto, No. 3 1/2 3 1/2 8 3 1/2 3 1/2 8  
 Tie Plates, outside Hatchways 3 1/2 3 1/2 8 3 1/2 3 1/2 8  
 Diagonal Tie Plates on Beams, No. of pairs 2 1/2  
 Waterways materials and scantlings 2 1/2  
 Flat of Middle Deck do. do.  
 How fastened to Beams do. do.  
 Stringer Plates on ends of Lower Deck, Hold or Outboard Beams 30 8 30 8  
 Is the Stringer Plate attached to the outside plating? yes  
 Angle Irons on ditto, No. 3 1/2 3 1/2 8 3 1/2 3 1/2 8  
 Stringer or Tie Plates, outside Hatchways 3 1/2 3 1/2 8 3 1/2 3 1/2 8  
 Flat of Lower Deck part laid  
 Ceiling betwixt Decks, thickness and material 2 1/2 holding 3/4 lining between  
 in hold do. do.  
 Main piece of Rudder, diameter at head 5 1/4  
 do. at heel 3  
 Can the Rudder be unshipped afloat? yes  
 Bulkheads No. 1 Thickness of 5.6  
 Height up Upper Deck  
 How secured to sides of ship between double frames  
 Size of Vertical Angle Irons 3.3 1/4 and distance apart 30 ins.  
 Are the outside Plates doubled two spaces of Frames in length? yes

material. Knight-heads. Hawse Timbers. Iron  
 Iron on S. Walker, P. & B. Secured to Plates by Iron Patent  
 ES extend in one length from Keel to Gunwale Riveted through plates with 3/4 in. Rivets, about 6 apart.  
 REVERSED ANGLE IRONS on floors and frames extend from middle line to Gunwale on all frames alternately  
 VS. Are the various lengths of Plates and Angle Irons properly connected? yes And butts properly shifted? yes  
 G. Garboard, double riveted to Keel, with rivets 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 3/4 in. diameter, averaging 3 1/2 ins. from centre to centre.  
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/2 ins. from centre to centre.  
 Butts of Three Strakes at Bilge for half length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.  
 Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.  
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.  
 Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.  
 Butts of Main Sheerstrake, treble riveted for length amidships Butts of Upper or Spar Sheerstrake, treble riveted 1/2 length amidships.  
 Butts of Main Stringer Plate, treble riveted for length amidships Butts of Upper or Spar Stringer Plate, treble riveted for half length.  
 Breadth of laps of plating in double riveting 5 1/4 4 1/2 Breadth of laps of plating in single riveting 4 1/2  
 At Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Double and treble  
 Waterway, how secured to Beams Gutter Gunwale. (Explain by Sketch, if necessary.) frames  
 Beams of the various Decks, how secured to the sides? Ends turned down & riveted to No. of Breasthooks, four Crutches, three  
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Bulls and all angles from Hopkins, Filkins and Co. of Middleburgh; Frames and Stringer Plates from H. & S. of Melb.  
 Manufacturer's name or trade mark. Iron Co. and Sherwin, I. & Co. of Boston; I. Co. of Melb.; Shell plates from H. & S. of Melb. I. Co. and from Sherwin I. Co.  
 The above is a correct description.  
 Builder's Signature, Bartram & Russell Surveyor's Signature, Joseph B. Keen.  
 Surveyor to Lloyd's Register of British and Foreign Shipping.



Workmanship. Are the butts of plating planed or otherwise fitted? planed 15351 James  
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? in a few cases only

Masts, Bowsprit, Yards, &c., are Iron & Steel as Sketch 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 please see Sketch.

NUMBER for EQUIPMENT <u>16.424</u>		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
SAILS.							Bowers	1	30.0.0	28.14.114	30.0.0	28 1/20
Fore Sails,		270	1 1/16	55/8	270-1 1/16	55/8	1	29.2.0	28.5.0.0	30.0.0	28 1/20	
Fore Top Sails,		77 1/8					1	26.1.0	25.16.1.0	25.2.0	25 4/20	
Fore Topmast Stay Sails,												
Main Sails,		60	1 1/16				Stream	1	12.0.4		12.0.0	
Main Top Sails,		90	"				Kedges	1	6.1.7		6.0.0	
Warp		90	6 1/2						2.3.16		3.0.0	
quality <u>good</u>		120	5									

Standing and Running Rigging Iron & Hemp sufficient in size and good in quality. She has 1 Long Boat and 2 others = 4 ST<sup>rs</sup>  
The Windlass is Lucas & Walker's Capstan 2 Rudder good Pumps 2 Main and 2 Bilge

Engine Room Skylights. How constructed? How secured in ordinary weather?  
What arrangements for deadlights in bad weather? How are lids secured? Height above deck? Scuppers and Ports in Bulwarks  
Coal Bunker Openings. How constructed? How are lids secured? Height above deck? Scuppers and Ports in Bulwarks  
Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? Scuppers and Ports in Bulwarks

Cargo Hatchways. How formed? Iron plates strengthened by angles and Rubbing beams  
State size Main Hatch 15 1/4 ft x 7 1/2 ft 10 in Fore hatch 7 1/2 x 5 ft 8 in Quarter hatch 7 1/6 ft x 7 1/2 in  
If of extraordinary size, state how framed and secured? Main hatch has deep Webb plate, portion of Hatch, ten  
What arrangement for shifting beams? porarily fitted with deck and Caulked, also another shifting beam  
Hatches, If strong and efficient? Solid, efficient

Order for Special Survey No. 2560 1st. On the several parts of the frame, when in place, and before the plating was wrought Built under S.I. and surveyed 1875 April 16. 1522 26 30 P.M.  
Date 24th March 1875 2nd. On the plating during the process of riveting 3.5.10.12.20.24.31 June 12. 4.8.10.14.18.22.26 July 6.12.15.19.20.21.23.28.30 August 4.5.  
Order for Ordinary Survey No. 1317 3rd. When the beams were in and fastened, and before the decks were laid... 13.17.20.26.30 Sep. 17. 2.13.14.22.27.29 October 2.18. 2.32.9 Nov. 2.46.  
Date 1875 4th. When the ship was complete, and before the plating was finally coated or cemented...  
No. 83 in builder's yard. 5th. After the ship was launched and equipped

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

This Vessel has a Raised Quarter Deck 4 1/2 feet long: Deck House 21 ft x 12 1/2 feet, a Small Monkey Forecastle 25 ft long. She has been built under Special Survey and is in all respects in conformity to the Rules.

State if one, two, three decked vessel, or if open, or covering-decked; and the lengths of main, forecastle, or raised quarter deck, and the length of double, or part double  
How are the surfaces preserved from oxidation? Inside Painted to Bilges, painted above Outside Lead & Tallow.  
I am of opinion this Vessel should be Classed 100. A. 1 Bottom, painted also

The amount of the Entry Fee ... £ 5 : 0 : 0 is received by me, M.  
Special ... £ 49 : 16 : 0 5th Nov 1875  
Certificate ... AM

(Travelling Expenses, if any, £ —.)  
Committee's Minute 9th November 1875

Character assigned 100 A. 1  
TRW

