

IRON SHIPS.

Rev 25/3/71

No. 10057 Survey held at Sunderland Date, First Survey July 5th 1870 Last Survey Feb. 21st 1871

On the Steam Ship "Galatea" for Rye Master James

Tonnage under Tonnage Deck	1348.89	ONE OR TWO DECKED, SPAR OR AWNING DECKED VESSELS.	Half Moulded Breadth	14.5	Built at	Sunderland			
Depth of Spar Deck, or Lower Deck	101.48	Half moulded breadth	14.5	Total Depth if three or more Decks	28.08	When built	1840/41	Launched	1840/41
Ditto of Poop, or Raised Or. Dk.	1950.35	Depth from upper part of Keel to top of upper Deck Beams	20.9	Total Girth of Half Midship Frame	40.45	By whom built	Wells, Park & Co		
Ditto of Houses on Deck	50.95	Girth of Half Midship Frame (as per Rule)	23.64	3rd Number	56.33	Owners	James & Co		
Ditto of Forecastle		1st Number	42.08	Length	288	Port belonging to	Sunderland		
Gross Tonnage	2001.33	2nd Number	24.59	4th Number	24.863	Destined Voyage	Sunderland		
Crew Space, as per Rule	58.23	Depths to	100 1/2	Breadths to Length	under plates	Surveyed while Building, Afloat, or in Dry Dock			
Registered Tonnage, as on Beam	1400.45								
Registered Tonnage, as a Steamship cut on Beam	1302.57								

PLANS CASE

Length on deck as per Rule	255	Feet. Inches.	Moulded Breadth	35	Feet. Inches.	Depths from top of Floors to Upper and Main Deck Beams, as per Rule	26	Feet. Inches.	Power of Engines	18 10	Horse.	No. of Decks	3	No. of Tiers of Beams	3
Dimensions of Ship per Register, length, breadth, depth															
Keel, if bar iron, depth and thickness	9 x 2 1/2	Inches in Ship.	10 x 2 1/2	Inches required per Rule.					Flat Keel Plates, breadth and thickness	36	12	36	12		
Do. if centre through plate, depth and thickness	9 x 2 1/2		9 x 2 1/2						Plates in Garboard Strakes, breadth and thickness	11.10.9	11.10.9	11.10.9	11.10.9		
Stem, if bar iron, moulding and thickness	9 x 2 1/2		9 x 2 1/2						Do. from Garboard to upper part of Bilges	10.9.5	10.9.5	10.9.5	10.9.5		
Stern-post for Rudder do. do.	9 x 2 1/2		9 x 2 1/2						Do. of doubling at Bilge, or increased thickness, and length applied	10.9.5	10.9.5	10.9.5	10.9.5		
Stern-post for Propeller	9 x 2 1/2		9 x 2 1/2						Do. fm up. part of Bilge to lr. edge of Sh'rstrake	13.12.11	13.12.11	13.12.11	13.12.11		
Distance of Frames from moulding edge to moulding edge, all fore and aft	24		24						Do. Main Sheerstrake, breadth and thickness	13.12.11	13.12.11	13.12.11	13.12.11		
Frames, size of Angle Iron, for 1/2 length amidships	4 1/2 x 3	Inches in Ship.	4 1/2 x 3	Inches required per Rule.					Do. of d'bling at Sh'rstrake, & length applied	13.12.11	13.12.11	13.12.11	13.12.11		
Do. for 1/4 at each end	4 1/2 x 3		4 1/2 x 3						Do. from Mn. to Up. or Sp. Dk. Sh'rstrake	13.12.11	13.12.11	13.12.11	13.12.11		
Reversed Frames, size of Angle Iron	4 1/2 x 3		4 1/2 x 3						Do. Up. or Sp. Dk Sh'rstrake, brdth & thickness	13.12.11	13.12.11	13.12.11	13.12.11		
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	10 x 1 1/2		10 x 1 1/2						Butt Straps to outside plating, breadth & thickness	13.12.11	13.12.11	13.12.11	13.12.11		
Do. at the ends	10 x 1 1/2		10 x 1 1/2						Lengths of Plating	13.12.11	13.12.11	13.12.11	13.12.11		
Do. do. do. at Bilge Keelson	10 x 1 1/2		10 x 1 1/2						Shifts of Plating, and Stringers	13.12.11	13.12.11	13.12.11	13.12.11		
Do. height extended at the Bilges	10 x 1 1/2		10 x 1 1/2						Gunwale Plate on ends of Awaiting Spar, or Upper Deck Beams, breadth and thickness	13.12.11	13.12.11	13.12.11	13.12.11		
Beams, Upper, Spar, or Awaiting Deck (No. 43)	10 x 1 1/2		10 x 1 1/2						Angle Iron on ditto	13.12.11	13.12.11	13.12.11	13.12.11		
single or double Angle Iron, Plate or Tee Bulb Iron	10 x 1 1/2		10 x 1 1/2						Tie Plates (fore and aft), outside Hatchways	13.12.11	13.12.11	13.12.11	13.12.11		
single or double Angle Iron on Upper edge	10 x 1 1/2		10 x 1 1/2						Diagonal Tie Plates on Beams (No. of Pairs)	13.12.11	13.12.11	13.12.11	13.12.11		
Average space	10 x 1 1/2		10 x 1 1/2						Planksheer material and scantling	13.12.11	13.12.11	13.12.11	13.12.11		
Beams, Main or Middle Deck (No. 44)	10 x 1 1/2		10 x 1 1/2						Waterways do. do.	13.12.11	13.12.11	13.12.11	13.12.11		
single or double Angle Iron, Plate or Tee Bulb Iron	10 x 1 1/2		10 x 1 1/2						Flat of Deck do. do.	13.12.11	13.12.11	13.12.11	13.12.11		
single or double Angle Iron on Upper Edge	10 x 1 1/2		10 x 1 1/2						How fastened to Beams	13.12.11	13.12.11	13.12.11	13.12.11		
Average space	10 x 1 1/2		10 x 1 1/2						Stringer Plate on ends of Main or Middle Deck	13.12.11	13.12.11	13.12.11	13.12.11		
Beams, Lower Deck, Hold or Orlop (No. 45)	10 x 1 1/2		10 x 1 1/2						Beams, breadth and thickness	13.12.11	13.12.11	13.12.11	13.12.11		
single or double Angle Iron, Plate or Tee Bulb Iron	10 x 1 1/2		10 x 1 1/2						(Is the Stringer Plate attached to the outside plating?)	13.12.11	13.12.11	13.12.11	13.12.11		
single or double Angle Iron on Upper Edge	10 x 1 1/2		10 x 1 1/2						Angle Irons on ditto (No. 46)	13.12.11	13.12.11	13.12.11	13.12.11		
Average space	10 x 1 1/2		10 x 1 1/2						Tie Plates, outside Hatchways	13.12.11	13.12.11	13.12.11	13.12.11		
Keelson Centre line single or double plate, box, or intercostal, size of Plates	10 x 1 1/2		10 x 1 1/2						Diagonal Tie Plates on Beams (No. of pairs)	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Bulb Plate to Intercostal Keelson	10 x 1 1/2		10 x 1 1/2						Waterways materials and scantlings	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Size of Angle Irons	10 x 1 1/2		10 x 1 1/2						Flat of Deck do. do.	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Side Intercostal Keelson, size of Plates	10 x 1 1/2		10 x 1 1/2						How fastened to Beams	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Angle Irons on tops of Floors	10 x 1 1/2		10 x 1 1/2						Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Bilge Keelson, Bulb Iron	10 x 1 1/2		10 x 1 1/2						(Is the Stringer Plate attached to the outside plating?)	13.12.11	13.12.11	13.12.11	13.12.11		
Do. do. Intercostal plates riveted to plating for length	10 x 1 1/2		10 x 1 1/2						Angle Irons on ditto (No. 47)	13.12.11	13.12.11	13.12.11	13.12.11		
Do. do. Angle Irons	10 x 1 1/2		10 x 1 1/2						Stringer or Tie Plates, outside Hatchways	13.12.11	13.12.11	13.12.11	13.12.11		
Side Stringers (No. 48) size of Angle Irons	10 x 1 1/2		10 x 1 1/2						Flat of Deck	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Intercostal plates riveted to plating for length	10 x 1 1/2		10 x 1 1/2						Ceiling betwixt Decks, thickness and material	13.12.11	13.12.11	13.12.11	13.12.11		
Transoms, material Plate or, if none, in what manner compensated for.	10 x 1 1/2		10 x 1 1/2						Do. in hold do. do.	13.12.11	13.12.11	13.12.11	13.12.11		
Knight-heads Angle & de Hawse Timbers	10 x 1 1/2		10 x 1 1/2						Main piece of Rudder, diameter at head	13.12.11	13.12.11	13.12.11	13.12.11		
Windlass	10 x 1 1/2		10 x 1 1/2						Do. do. at heel	13.12.11	13.12.11	13.12.11	13.12.11		
Pall Bitt	10 x 1 1/2		10 x 1 1/2						(Can the Rudder be unshipped afloat?)	13.12.11	13.12.11	13.12.11	13.12.11		
The Frames extend in one length from	10 x 1 1/2		10 x 1 1/2						Bulkheads No. 1 Thickness of	13.12.11	13.12.11	13.12.11	13.12.11		
The Reverse Angle Irons on the floors and frames extend	10 x 1 1/2		10 x 1 1/2						Do. Height up	13.12.11	13.12.11	13.12.11	13.12.11		
Keelsons. Are the various lengths of Plates and Angle Irons properly connected?	10 x 1 1/2		10 x 1 1/2						Do. How secured to the sides of the ship	13.12.11	13.12.11	13.12.11	13.12.11		
Plates, Garboard, double	10 x 1 1/2		10 x 1 1/2						Do. Size of Vertical Angle Irons	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Edges from Garboards to upper part of Bilge, worked Clencher, double	10 x 1 1/2		10 x 1 1/2						Do. Are the outside Plates doubled two spaces of Frames in length?	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes	10 x 1 1/2		10 x 1 1/2						Riveted through plates with (3/4 in.) Rivets, about 6 apart.	13.12.11	13.12.11	13.12.11	13.12.11		
Do. diameter averaging	10 x 1 1/2		10 x 1 1/2						to main deck and to upper Dk alternately	13.12.11	13.12.11	13.12.11	13.12.11		
Do. of Strakes at Bilge for length, treble riveted with Butt Straps	10 x 1 1/2		10 x 1 1/2						And are their butts properly shifted?	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece	10 x 1 1/2		10 x 1 1/2						Riveted to Keel, double or at upper edge, with Rivets (1/2 in.) diameter, averaging (1/2 in.) from centre to centre.	13.12.11	13.12.11	13.12.11	13.12.11		
Do. diameter averaging	10 x 1 1/2		10 x 1 1/2						Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (1/2 in.) diameter, averaging (1/2 in.) from centre to centre.	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge	10 x 1 1/2		10 x 1 1/2						Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (1/2 in.) thick, double or single Riveted; with Rivets (1/2 in.) diameter averaging (1/2 in.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below?	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps	10 x 1 1/2		10 x 1 1/2						Do. of Strakes at Bilge for length, treble riveted with Butt Straps	13.12.11	13.12.11	13.12.11	13.12.11		
Do. averaging	10 x 1 1/2		10 x 1 1/2						Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece	13.12.11	13.12.11	13.12.11	13.12.11		
Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double or treble	10 x 1 1/2		10 x 1 1/2						Do. diameter averaging	13.12.11	13.12.11	13.12.11	13.12.11		
for length amidships. Breadth of laps of plating in single Riveting	10 x 1 1/2		10 x 1 1/2						Do. of Strakes at Bilge for length, treble riveted with Butt Straps	13.12.11	13.12.11	13.12.11	13.12.11		
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted	10 x 1 1/2		10 x 1 1/2						Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece	13.12.11	13.12.11	13.12.11	13.12.11		
Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.)	10 x 1 1/2		10 x 1 1/2						Do. diameter averaging	13.12.11	13.12.11	13.12.11	13.12.11		
Beams of the various Decks, how secured to the sides?	10 x 1 1/2		10 x 1 1/2						Do. of Strakes at Bilge for length, treble riveted with Butt Straps	13.12.11	13.12.11	13.12.11	13.12.11		
What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.?	10 x 1 1/2		10 x 1 1/2						Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece	13.12.11	13.12.11	13.12.11	13.12.11		
Manufacturer's name or Trademark	10 x 1 1/2		10 x 1 1/2						Do. diameter averaging	13.12.11	13.12.11	13.12.11	13.12.11		
We certify that the above is a correct description of the several particulars therein given.	10 x 1 1/2		10 x 1 1/2						Do. of Strakes at Bilge for length, treble riveted with Butt Straps	13.12.11	13.12.11	13.12.11	13.12.11		
Builder's Signature, <u>W. H. H. H.</u>	10 x 1 1/2		10 x 1 1/2						Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece	13.12.11	13.12.11	13.12.11	13.12.11		
Surveyor's Signature, <u>W. H. H. H.</u>	10 x 1 1/2		10 x 1 1/2						Do. diameter averaging	13.12.11	13.12.11	13.12.11	13.12.11		

100448-0194

Lloyd's Register Foundation

Workmanship. Are the butts of plating planed or otherwise fitted? Yes
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
Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Long lengths
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes and are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes
Are there any rivets which either break into or have been put through the seams or butts of the plating? a few 8842 Iron

Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. If they are of Iron or Steel give the 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 Lower masts of Iron & Bowsprit - Iron

Iron masts made at Stockholm see tracing of the same attached together with Mr Gladstones note

No.	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight.	Test as per Certificate.	Wt req'd per Rule.	Test req'd per Rule.
	Fore Sails,	Chain	300	1 1/2	60	1 1/4	55	Bowers	2	32.3.0	30.13.3.0	30	28 1/2
	Fore Top Sails,	(State Machine where Tested, and name of Superintendent).											
	Fore Topmast Stay Sails	Hempen Stream											
	Main Sails,	Cable	45	1 1/4				Stream		13.0.14		12.00	
	Main Top Sails,	Hawser	150	2				Kedges		6.2.11		6.00	
	and	Towlines	90	1 1/2						3.0.9		3.00	
		Warp	90	5/8									
		All of quality.											

Her Standing and Running Rigging Complete sufficient in size and good in quality. She has 3 Long Boats and 4 other boats.
The present state of the Windlass is Complete Capstan Complete and Rudder Complete Pumps Complete

Engine Room Skylights. How constructed? Teak on edge frame How secured in ordinary weather? With fastenings & bolts

What arrangements are there for deadlights in such for bad weather? None

Coal Bunker Openings. How constructed? Plate angles How are lids secured? With bolts How high above deck? 14 ft

Scuppers, &c. What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? Scuppers and 10 ports of a side

Cargo Hatchways. How formed? Plate angles State size After one 12 ft. One on by 14 ft

If of extraordinary size, state how framed and secured? As above

What arrangement for shifting beams? As above

Hatches, themselves, whether strong and efficient? Yes Main Hatchways. State size 10 ft x 10 ft - 10 ft high

Order for Special Survey No. 2275 DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought Built under

Date 27 July 1870 Surveys held 2nd. On the plating during the progress of riveting S.S. & Surv. 1870 July 5, 6, 7

Order for Ordinary Survey No. whi building 3rd. When the beams were in and fastened, and before the decks were laid 11.15.18.19.21.26.28. Aug. 1, 2, 5, 9, 11, 15, 18, 22

Date as per 4th. When the ship was complete, and before the plating was finally coated or cemented 25.29.31. Sep. 2, 5, 12, 14, 16, 21, 26

No. 190 in builder's yard. Section 18. 5th. After the ship was launched and equipped 28.30. Oct. 3, 5, 6, 7, 10, 11, 13, 17, 19, 21, 24, 26, 31. Nov. 3, 5, 12, 16, 18, 21, 30. Dec. 6, 10, 19. 7/1 Jan. 10, 12, 16, 17, 18, 24, 26, Feb. 6, 13, 16, 21

General Remarks, This vessel is built in accordance with the approved midship section herewith enclosed per Secretary's letter of the 30 May last. The anticorodal plates referred to in this letter have been made 9/16 thick. The bulk iron at bilge keelson 8 x 1/2 full. The main deck and upper deck side stringer and the plates have been equal to the sectional area required by Rule

There are bilge pieces fitted 10 1/2 and ships of bulk 10 x 3/16 and two angles 4 x 4 x 9/16

She has a Double bottom in the after hold from after engine room 60 feet x 3 feet deep. Top plating 5/16 and flange plates 7/16. From the aftermost bulkhead aft on main deck there is a water tight deck fitted round of plate iron. She is efficiently fitted in hold and tank deck

In what manner are the surfaces preserved from oxidation? Inside Portland Cement Outside Red lead

am of opinion this Vessel should be Classed 100 A.S. "Three deck Vessel"

Amount of the Entry Fee£ 5 : : : is received by me, Special

Special£ 73 : 11 : 6 Certificate

Committee's Minute 24 March 1871

Character assigned 100 A 1 A & C P

3 Decks

3 Decks

3 Decks

3 Decks