

IRON SHIP.

16073

No. 6935 Survey held at Greenock Date, First Survey 10th Nov/75 Last Survey 4 March 1876
On the SS "Verulam" Master E. Evans

REGISTRY TONNAGE under Tonnage Act of 1864	303.34	ONE, OR TWO DECKED, THREE DECKED VESSEL.	Built at <u>Greenock</u>
of the Ship	1.05	SPAR, OR AWNING DECKED VESSEL.	When built <u>10/5/66</u> Launched <u>21 Feb/76</u>
of the Deck	33.74	HALF BREADTH (moulded)	By whom built <u>J. E. Scott</u>
of Forecastle	8.63	DEPTH from upper part of Keel to top of Upper Deck Beams	Owners <u>Bullard King & Co</u>
Tonnage	346.49	GIRTH of Half Midship Frame (as per Rule)	Port belonging to <u>London</u>
Crew Space	12.40	1st NUMBER	Destined Voyage <u>Port Natal</u>
Engine Room	3.34.31	1st NUMBER, if a THREE-DECKED VESSEL	Surveyed while Building, <u>Afloat, or in Dry Dock.</u>
Register Tonnage (as cut on Beam)		LENGTH [deduct 7 feet]	
		2nd NUMBER	
		PROPORTIONS—Breadths to Length	
		Depths to Length—Upper Deck to Keel	
		Main Deck ditto	

LENGTH on deck as per Rule	Feet. 132.3	BREADTH Moulded	Feet. 26.40	DEPTH top of Floors to Upper Deck Beams	Feet. 13.64	Power of Engines	Horse. <input checked="" type="checkbox"/>	Nº. of Decks with flat laid	<u>one</u>
Dimensions of Ship per Register, length,	<u>139.5</u>	breadth,	<u>24.</u>	depth,	<u>13.5</u>			Nº. of Tiers of Beams	<u>one</u>

	Inches in Ship.		Inches per Rule.		
	In Ship.	In Ship.	Inches required per Rule	Inches required per Rule	16ths required per Rule
KEEL, depth and thickness	4x15/16	4x15/16	4x15/16	4x15/16	4x15/16
STEM, moulding and thickness	6 1/2 x 15/16	6 1/2 x 15/16	6 1/2 x 15/16	6 1/2 x 15/16	6 1/2 x 15/16
STERN-POST for Rudder do. do.	6 1/2 x 15/16	6 1/2 x 15/16	6 1/2 x 15/16	6 1/2 x 15/16	6 1/2 x 15/16
Distance of Frames from moulding edge to moulding edge, all fore and aft	21 (Class <u>100A</u>)				
FRAMES, Angle Iron, for 1/2 length amidships	3	3	3	3	3
Do. for 1/4 at each end	3	3	3	3	3
REVERSED FRAMES, Angle Iron	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2
thickness at the ends of vessel	5	5	5	5	5
depth at 3/4 the half-bdth. as per Rule	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
height extended at the Bilges	23/4	23/4	23/4	23/4	23/4
BEAMS, Upper, Spar, or Awning Deck } Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Angle or double Angle Iron on Upper edge	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Average space	42	42	42	42	42
BEAMS, Main, or Middle Deck } Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Angle or double Angle Iron, on Upper Edge	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Average space	42	42	42	42	42
BEAMS, Lower Deck, Hold, or Orlop } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
Single or double Angle Iron on Upper Edge	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Average space	42	42	42	42	42
KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates	10	10	10	10	10
" Rider Plate	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
" Bulb Plate to Intercoastal Keelson	3	3	3	3	3
" Angle Irons	3	3	3	3	3
" Double Angle Iron Side Keelson	3	3	3	3	3
" Side Intercoastal Plate	4 1/8	4 1/8	4 1/8	4 1/8	4 1/8
" do. Angle Irons	3	3	3	3	3
" Attached to outside plating with angle iron	3	3	3	3	3
BILGE Angle Irons	3	3	3	3	3
" do. Bulb Iron	3	3	3	3	3
" do. Intercoastal plates riveted to plating for length	12	12	12	12	12
BILGE STRINGER Angle Irons	3	3	3	3	3
Intercoastal plates riveted to plating for length	12	12	12	12	12
WIDE STRINGER Angle Irons	3	3	3	3	3

	Inches. In Ship.	16ths. In Ship.	Inches. required	16ths. required
Flat Keel Plates, breadth and thickness	33	8	30	8
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	26	7	24	7
of doubling at Bilge, or increased thickness, and length applied	26	7	24	7
fm up. part of Bilge to lr. edge of Sh'rstrake	26	7	24	7
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake.	33	8	30	8
Up. or Spar Dk Sh'rstrake, brdth & thickness	33	8	30	8
Butt Straps to outside plating, breadth & thickness	8x6/16	9x4/16	8x6/16	9x4/16
Lengths of Plating	40 spaces	5 spaces	40 spaces	5 spaces
Shifts of Plating, and Stringers	2x3	2	2	2
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	—	—	—	—
Angle Iron on ditto	—	—	—	—
Tie Plates fore and aft, outside Hatchways	—	—	—	—
Diagonal Tie Plates on Beams No. of Pairs,	—	—	—	—
Planksheer material and scantling	—	—	—	—
Waterways do. do.	—	—	—	—
Flat of Upper Deck do. do.	—	—	—	—
How fastened to Beams	—	—	—	—
Stringer Plate on ends of Main or Middle Deck } Beams, breadth and thickness	21	6	21	6
Is the Stringer Plate attached to the outside plating?	yes	—	—	—
Angle Irons on ditto, No. 1	3x3x6	3x3x6	3x3x6	3x3x6
Tie Plates, outside Hatchways	4	4	4	4
Diagonal Tie Plates on Beams, No. of pairs	4	4	4	4
Waterways materials and scantlings	—	—	—	—
Flat of Middle Deck do. do.	3	3	3	3
How fastened to Beams	crew bolts into	—	—	—
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	—	—	—	—
Is the Stringer Plate attached to the outside plating?	—	—	—	—
Angle Irons on ditto, No.	—	—	—	—
Stringer or Tie Plates, outside Hatchways	—	—	—	—
Flat of Lower Deck	—	—	—	—
Ceiling betwixt Decks, thickness and material	lathings	—	—	—
in hold do. do.	2	2	2	2
Main piece of Rudder, diameter at head	3 1/2	3 1/2	3 1/2	3 1/2
do. at heel	2	2	2	2
Can the Rudder be unshipped afloat?	yes	—	—	—
Bulkheads No. <u>one</u> , Thickness of <u>4/16</u>	—	—	—	—
Height up <u>to main deck</u>	—	—	—	—
How secured to sides of ship <u>double frames</u>	—	—	—	—
Size of Vertical Angle Irons <u>2 1/2 x 2 1/2 x 5</u> and distance apart <u>30</u> ins.	—	—	—	—
Are the outside Plates doubled two spaces of Frames in length?	yes	—	—	—

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

Windlass Greenheart Pall Bitt Iron Bark

FRAMES 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 across middle line to above hold stringer and to gunwale 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 in. diameter, averaging 5 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 one Strake at Bilge for half length, double 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 1/2 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/2 ins. from cr. to cr.

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

Butts of Main Sheerstrake, double riveted for whole length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 1 length amidships.

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

Breadth of laps of plating in double riveting 4 1/2" Breadth of laps of plating in single riveting 3"

Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? 1

How secured to Beams lathings (Explain by Sketch, if necessary.)

How secured to the sides? welded knee plates No. of Breasthooks, 4 Crutches, 3

Description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Massend frames

Manufacturer's name or trade mark, Beams & Plates

Is the above a correct description. yes

Signature, James E. Scott Surveyor's Signature, Edmund Couchman

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

16073-0329

Workmanship. Are the butts of plating planed or otherwise fitted? planed 16015
 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? very few

Masts, Bowsprit, Yards, &c., are of wood 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 Fore & Main Mast 42 ft long by 18" diam
Mizen 39 ft long 16" diam Bowsprit 24 ft 18"

6800

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS.	No.	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
No.	SAILS.	CABLES, &c.		100	1 3/4	26.4.2.0	Bowers	2703	12.0.0	13.17.2.0	12.0.0	13.27.0
		Chain	106.13	1 1/2	26.4.2.0	19.5	25.8.2.0	2448	12.0.5	13.19.2.0	10.0.28	12.4.0
2	Fore Sails,	Ketherton		90	1 1/2	11.16	2911/2	10.2.12	12.10.3.0			
2	Fore Top Sails,	D & Lewis pro Superintendent		90	1 1/2	5.2						
1	Fore Topmast Stay Sails	Hmpn Strm Cbl		90	1 1/2	5.2						
1	Main Sails,	Hawser ...		90	1 1/2	5.2	Stream	1	5.0.7		5.0.0	
2	Main Top Sails,	Towlines ...		90	1 1/2	5.2	Kedges	1	2.2.0		2.2.0	
		Warp ...		90	1 1/2	5.2		1	1.1.0		1.1.0	

and the same quality good
 Standing and Running Rigging for 5000 ft sufficient in size and good in quality. She has one Long Boat and two others
 The Windlass is efficient Capstan 2 DW and Rudder and 2 Pumps efficient

Engine Room Skylights.—How constructed? ✓ How secured in ordinary weather? ✓

What arrangements for deadlights in bad weather? ✓

Coal Bunker Openings.—How constructed? ✓ How are lids secured? ✓ Height above deck? ✓

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? Slide Ports & Scuppers

Cargo Hatchways.—How formed? Iron

State size **Main Hatch** 12' x 10' Forehatch 4' x 4' Quarterhatch 4' x 5'

If of extraordinary size, state how framed and secured? ✓

What arrangement for shifting beams? one shifting beam in main hatch

Hatches, If strong and efficient? yes

Order for Special Survey No. 439 **DATES of Surveys held while building as per Section 18.**
 Date 14th Sept 1875 1st. On the several parts of the frame, when in place, and before the plating was wrought } Built under SS & Surveyed 1875
 Order for Ordinary Survey No. ✓ 2nd. On the plating during the process of riveting } Nov 10. 12. 16. 20. 26. Dec 1. 3. 9. 14. 17. 21. 28. 31
 Date ✓ 3rd. When the beams were in and fastened, and before the decks were laid... } 1875 - Jan 1. 10. 18. 21. 27. Feb 1. 8. 12. 16. 18. 24. 29
 No. 7 in builder's yard. 4th. When the ship was complete, and before the plating was finally coated or cemented... } March. 2. 4
 5th. After the ship was launched and equipped

General Remarks (State quality of workmanship, &c.) This vessel has been built in conformity with the Rules and Machinery Section herewith appended. The workmanship & materials are very good

State if one, two, or three, decked vessel, or if spar, or a wing decked; and the lengths of poop, forecabin, or raised quarter deck, and the length of double, or part double bottom. Break at after end 30 ft long with a deck house 19 ft

How are the surfaces preserved from oxidation? Inside 3 Coats of Red Lead & Paint Outside 3 Coats of Red Lead & Paint 1 Coats of Grease

I am of opinion this Vessel should be Classed 100 A

The amount of the Entry Fee ... £ 4: 0: 0 is received by me, Edwin Pleuchman
 Special ... £ 16: 14: 0 3 March 1876
 Certificate ... £ 0: 0: 0
 (Travelling Expenses, if any, £ ...) £ 20: 14: 0

Committee's Minute 4th March 1876

Character assigned 100 A
PREP

