

# IRON SHIP.

No. 2186 Survey held at Stockton Date, First Survey October 24<sup>th</sup> 1894 Last Survey March 24<sup>th</sup> 1894

On the Ship "Star of the Sea" Master D. Evans

TONNAGE under Tonnage Deck 1344.34  
 Tonnage of Third, Spar, or Awning Deck. 85.40  
 Tonnage of Poop, or Raised Or. Dk. 14.83  
 Tonnage of Houses on Deck 36.98  
 Gross Tonnage 1481.55  
 Net Tonnage 1436.94  
 Tonnage of Engine Room 1436.94  
 Tonnage of Mast as cut on Beam 1436.94

ONE, OR TWO DECKED, THREE DECKED VESSEL.  
 SPAR, OR AWNING-DECKED VESSEL.

HALF BREADTH (moulded) 19.5  
 DEPTH from upper part of Keel to top of Upper Deck Beams 25.6  
 GIRTH of Half Midship Frame (as per Rule) 38.6  
 1st NUMBER 83.2  
 1st NUMBER, if THREE-DECKED VESSEL [deduct 7 feet]

LENGTH 223.5  
 2nd NUMBER 18584  
 PROPORTIONS—Breadths to Length 5 and under 6  
 Depths to Length—Upper Deck to Keel 8 and 9  
 Main Deck ditto 8 and 9

Built at Stockton  
 When built 1846-47 Launched 13<sup>th</sup> Feb 1847  
 By whom built Richardson, Duck & Co  
 Owners Walsh, Brothers  
 Port belonging to Sunderland  
 Destined Voyage Sydney  
 If Surveyed while Building, Afloat, or in Dry Dock.

LENGTH of deck as Rule 223.5 BREADTH—Moulded 38.3 DEPTH top of Floors to Upper Deck Beams 25.6 Power of Engines 1 Horse. 1 No. of Decks with flat laid two No. of Tiers of Beams two

Dimensions of Ship per Register, length, 223.5 breadth, 38.3 depth, 25.6

	Inches in Ship.	Inches per Rule.
EEL, depth and thickness	9 x 2 1/2	9 x 2 1/2
TEMP, moulding and thickness	9 x 2 1/2	9 x 2 1/2
TERN-POST for Rudder do. do.	9 x 2 1/2	9 x 2 1/2
for Propeller	9 x 2 1/2	9 x 2 1/2
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	(Class 1000)
FRAMES, Angle Iron, for 1/2 length amidships	5 3/4	5 3/4
Do. for 1/2 at each end	5 3/4	5 3/4
REVERSED FRAMES, Angle Iron	5 3/4	5 3/4
DOORS, depth and thickness of Floor Plate	2 1/2	2 1/2
mid line for half length amidships	2 1/2	2 1/2
thickness at the ends of vessel	2 1/2	2 1/2
depth at 1/2 the half-bdth, as per Rule	2 1/2	2 1/2
eight extended at the Bilges	4 1/2	4 1/2
Upper, Spar, or Awning Deck	9	9
Double Ang. Iron, Plate or Tee Bulb Iron	9	9
or double Angle Iron on Upper edge	3 1/2	3 1/2
average space	48	48
MS, Main, or Middle Deck	9	9
or double Ang. Iron, Plate or Tee Bulb Iron	9	9
or double Angle Iron, on Upper Edge	3 1/2	3 1/2
average space	48	48
MS, Lower Deck, Hold, or Orlop	9	9
Single or double Ang. Iron, Plate or Tee Bulb Iron	9	9
Single or double Angle Iron on Upper Edge	3 1/2	3 1/2
average space	48	48
ELSONS Centre line, single or double plate, box, or Intercoastal, Plates	14	14
Rider Plate	10 3/4	10 3/4
Bulb Plate to Intercoastal Keelson	5	5
Angle Irons	5	5
Double Angle Iron Side Keelson	5	5
Side Intercoastal Plate	5	5
do. Angle Irons	5	5
Attached to outside plating with angle iron	5	5
Angle Irons	5	5
do. Bulb Iron	5	5
do. Intercoastal plates riveted to plating for length	5	5
Stringer	5	5
Stringer Angle Irons	5	5
Intercoastal plates riveted to plating for length	5	5
TRINGER Angle Irons	5	5

	Inches in Ship.	16ths. In Ship.	Inches required	16ths required
Flat Keel Plates, breadth and thickness	36	11	36	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 3 Strakes	10:11			10
fm up. part of Bilge to lr. edge of Strake	1			1
Main Sheerstrake, breadth and thickness of doubling at Strake, & length applied from Mn. to Up. or Spar Dk. Strake	10			10
Up. or Spar Dk Strake, brdth & thickness	40	12	40	12
Butt Straps to outside plating, breadth & thickness	16 1/2 as plate		16 1/2 as plate	
Lengths of Plating	120		120	
Shifts of Plating, and Stringers	48		48	
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	33	10	33	10
Angle Iron on ditto	5 x 4 x 9		5 x 4 x 9	
Tie Plates fore and aft, outside Hatchways	13	10	13	10
Diagonal Tie Plates on Beams No. of Pairs	13	10	13	10
Planksheer material and scantling				
Waterways do. do.				
Flat of Upper Deck do. do.	4 3/4		4 3/4	
How fastened to Beams	h. s. n. s. 8			8
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness				
Is the Stringer Plate attached to the outside plating?				
Angle Irons on ditto, No.				
Tie Plates, outside Hatchways				
Diagonal Tie Plates on Beams, No. of pairs				
Waterways materials and scantlings				
Flat of Middle Deck do. do.				
How fastened to Beams				
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	33	9	33	9
Is the Stringer Plate attached to the outside plating?				
Angle Irons on ditto, No.	4 x 4 x 9		4 x 4 x 9	
Stringer or Tie Plates, outside Hatchways	13	9	13	9
Flat of Lower Deck do. do.				
Ceiling betwixt Decks, thickness and material in hold	2 1/2	R. P.	2 1/2	
do. do.	2 1/2	A. C.	2 1/2	
Main piece of Rudder, diameter at head do. at heel	6		6	
Can the Rudder be unshipped afloat?	3		3	
Bulkheads No. Thickness of				
Height up				
How secured to sides of ship				
Size of Vertical Angle Irons 3/4 x 3/4 and distance apart				
Are the outside Plates doubled two spaces of Frames in length?				

material. Knight-heads. Hawse Timbers. Plating & Angles  
 ass Green Heart Pall Bitt Green Heart

AMES extend in one length from Keel to gunwale Riveted through plates with 1/8 in. Rivets, about 1/2 apart.

REVERSED ANGLE IRONS on floors and frames extend across middle line to gunwale and to alternately

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

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

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

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

Butts of Three Strakes at Bilge for one-half length, treble riveted with Butt Straps 1/10 thicker than the plates they connect.

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

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

Edges of Main 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 1/2 length.

Breadth of laps of plating in double riveting 4 3/4 5 1/4 Breadth of laps of plating in single riveting

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

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

How the various Decks, how secured to the sides? Ends turned and welded No. of Breasthooks, Five Crutches, Four

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

Manufacturer's name or trade mark, Hopkins & Co & Bowditch

Below is a correct description.

Builder's Signature, Richardson, Duck & Co Surveyor's Signature, W. J. M. Munnell

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

IRON-0460



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? Solid pieces  
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? None in Butts 17990 Lm

Masts, Bowsprit, Yards, &c., are Iron 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. Good B. crossfield

State also Length and Diameter of Lower Masts and Bowsprit B. Mast 83'-6" x 30" three plates in the round, plates 5/16" x 3/8"  
angle 5/8" x 3/4" x 5/16", checks 1/2", angles 5' x 3 1/2" x 5/16" wedging 5/16", seams single, butts double & knuckle at wedging.  
M. Mast 86'-3" x 30", three plates in the round, plates 1/2" x 5/16" three angles 1 1/2" x 3 1/2" x 5/16" wedging 5/16", in other respects as B. Mast  
Min. Mast 46'-9" x 24", plates 3/8" x 5/16" three angles 1 1/2" x 3 1/2" x 5/16" checks 1/2", angles 1 1/2" x 3 1/2" x 5/16" wedging 5/16", in other respects as other M.  
Bowsprit 34' x 28" plates 3 in the round 1/2" x 5/16" three angles 1 1/2" x 3 1/2" x 5/16" in other respects as Masts.

Sails		Cables, &c.		Length & Size req'd per Rule.		Test req'd per Rule.		ANCHORS.		Weight. Ex. Stock.		Test per Certificate.		W'ght req'd per Rule.		Test req'd per Rule.	
N <sup>o</sup> .	SAILS.	Chain	Breaking strain	Feet.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.					
	Fore Sails,	Seay's Breaving House	240	1 1/2	240	63 1/4	Bowers	3	34 x 2-19	32-2-3-0	34 x 0.0	31-12-0.0					
	Fore Top Sails,	Seay's Breaving House	240	1 1/2	240	63 1/4	Bowers	3	34 x 3-23	31-12-2-0	34 x 0.0	31-12-0.0					
	Fore Topmast Stay Sails	Seay's Breaving House	240	1 1/2	240	63 1/4	Bowers	2	27 x 1-2	28-2-0-0	28 x 0.14	24-16-0.0					
	Main Sails,	Hmpn Strm Cbl	90	1	90	1	Stream	1	13 x 3-8	12-18-3-0	13-2-0						
	Main Top Sails,	Hawser ...	90	2 1/2	90		Kedges	2	6 x 3-26	1-18-2-0	6-3-0						
		Towlines ...	90	1 1/2	90				3 x 0-22	5-2-2-0	3-2-0						
		Warp ...	90	1 1/2	90												
		quality good	90	1 1/2	90												

Standing and Running Rigging Wire & Hemp sufficient in size and good in quality. She has two Life Long Boats and one custom one fig done  
The Windlass is good Capstan good and Rudder good Pumps (2) manual good  
Engine Room Skylights—How constructed? How secured in ordinary weather?

What arrangements for deadlights in bad weather? How are lids secured? Height above deck?

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? Five Scuppers and four Ports  
each side

Cargo Hatchways.—How formed? 5/16" Iron comings

State size Main Hatch 19'-6" x 10'-0" Forehatch 8' x 6' Quarterhatch 6'-4" x 5'-6" x 6' x 8' x 6'

If of extraordinary size, state how framed and secured? Web plate 24' x 3 1/2"

What arrangement for shifting beams? Web plate 24' x 3 1/2"

Hatches, If strong and efficient? Yes

Order for Special Survey No. 599 Date 13<sup>th</sup> Nov 1886  
Order for Ordinary Survey No. 230 in builder's yard. 230  
DATES of Surveys held while building as per Section 18.  
1st. On the several parts of the frame, when in place, and before the plating was wrought. Oct 24, 26, 31, Nov 2, 4, 15, 16, 17, 21, 24, 29, Dec 2, 6, 8, 13  
2nd. On the plating during the process of riveting. 26, 29, 1886. Jan: 8, 11, 15, 16, 19, 22, 24, 26, 29, 30  
3rd. When the beams were in and fastened, and before the decks were laid. Feb 1, 2, 4, 13, 15, 16, 19, 22, 24, March 1, 8, 12, 1887  
4th. When the ship was complete, and before the plating was finally coated or cemented...  
5th. After the ship was launched and equipped

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

Has a Forecastle Forecastle:—Beams 6" x 4" Buller Angles 3" x 2 1/2" x 5/16" Stringer plate on deck 2 1/2" x 5/16" angle 1 1/2" x 3 1/2" x 5/16" Six plates 9" x 5/16" Plating 5/16" Waterway 10" x 3 1/2" Beak. Deck 3' 6" S. fastened with 5/16" L. S. N. 3  
Poop rounded gunwale. Beams 6" x 3 1/2" x 5/16" Stringer plate 2 1/2" x 5/16" Six plates 9" x 5/16" Plating 5/16" Deck 3' 6" S. fastened with 5/16" L. S. N. 3

Richardson Ditch & Co

State if one, two, or three, decked vessel, or if spar, or awning decked; and the lengths of poop, forecastle, or raised quarter deck, and the length of double, or part double

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

I am of opinion this Vessel should be Classed 100A

The amount of the Entry Fee ... £ 5 : 0 : 0 is received by me, Mohammed

Special ... £ 60 : 18 : 0 18<sup>th</sup> March 1887

Certificate ... £ : : (Travelling Expenses, if any, £ : :)

Committee's Minute 20<sup>th</sup> March 1887

Character assigned 100A

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