

NWC781-0050

## IRON SHIP.

Date, First Survey 5<sup>th</sup> July 1881 Last Survey 14<sup>th</sup> April 1882

1882

Survey held at Blyth

S.S. "Ealing" (Burgantine regd.)

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

Master J. W. Salmon

Built at Blyth

When built 1882 Launched 2<sup>nd</sup> Feb 1882

By whom built Messrs Hodgson &amp; Sons

Owners Messrs Watt, Ward &amp; Co

Residence 85 Grace Church St London

Port belonging to London

Destined Voyage Mediterranean

If Surveyed while Building, Afloat, or in Dry Dock.

While building

H  
ck as  
ule ...

BREADTH

Feet. Inches.

DEPTH top of Floors to Upper  
Deck Beams ...  
Do. do. Main Deck Beams ...

Feet. Inches.

Power of  
Engines ...

Horse.

No. of Decks with flat laid

No. of Tiers of Beams

Inches.

16ths.

Inches.

16ths.

Dimensions of Ship per Register, length, 205.0 breadth, 36.0 depth, 24.0

depth and thickness ...  
moulding and thickness...  
N-POST for Rudder do. do. ...  
" for Propeller ...  
ce of Frames from moulding edge to ...  
lding edge, all fore and aft ...

ES, Angle Iron, for  $\frac{3}{4}$  length amidships ...  
for  $\frac{1}{2}$  at each end ...  
RSED FRAMES, Angle Iron ...  
RS, depth and thickness of Floor Plate ...  
mid line for half length amidships ...  
thickness at the ends of vessel ...  
depth at  $\frac{3}{4}$  the half-bdth. as per Rule ...  
height extended at the Bilges...

IS, Upper, Spar, or Awning Deck ...  
or d'ble Ang. Iron, Plate or Tee Bulb Iron ...  
or double Angle Iron on Upper edge ...  
age space...  
IS, Main, or Middle Deck ...  
or d'ble Ang. Iron, Plate or Tee Bulb Iron ...  
e, or double Angle Iron, on Upper Edge ...  
age space...

MS, Lower Deck ...  
e or d'ble Ang. Iron, Plate or Tee Bulb Iron ...  
e or double Angle Iron on Upper Edge ...  
age space...  
MS, Hold, or Orlop ...  
e or d'ble Ang. Iron, Plate or Tee Bulb Iron ...  
e or double Angle Iron on Upper Edge ...  
age space...

ELSONS Centre line, single or double plate, ...  
box, or Intercoastal, Plates ...  
Rider Plate ...  
Bulb Plate to Intercoastal Keelson ...  
Angle Irons ...  
Double Angle Iron Side Keelson ...  
Side Intercoastal Plate ...  
do. Angle Irons ...  
Attached to outside plating with angle iron ...

GE Angle Irons ...  
do. Bulb Iron...  
do. Intercoastal plates riveted to ...  
plating for  $\frac{1}{2}$  length ...  
GE STRINGER Angle Irons ...  
Intercoastal plates riveted to plating for ...  
length ...  
E STRINGER Angle Irons ...

FRAMES extend in one length from ... to ...  
middle line to ... and to ...

REVERSED ANGLE IRONS on floors and frames extend ...  
Are the various lengths of Plates and Angle Irons properly connected? ...

ATING. Garboard, double riveted to Keel, with rivets ... in. diameter, averaging ... ins. from centre to centre.

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

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

Butts of ... Strakes at Bilge for ... length, treble riveted with Butt Straps ... in. diameter averaging ... ins. from cr. to cr.

Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets ... in. diameter, averaging ... ins. from cr. to cr.

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

Edges of Main Sheerstrake, double or single riveted. Butts of Upper or Spar Sheerstrake, treble riveted ... length amidships.

Butts of Main Sheerstrake, treble riveted for ... length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for ... length.

Butts of Main Stringer Plate, treble riveted for ... length amidships. Breadth of laps of plating in single riveting ...

Flat Keel Plates, breadth and thickness ...  
PLATES in Garboard Strakes, br'dth & thickness ...  
" From Garboard to upper part of Bilges...  
" Of d'bling at Bilge, or increased thickness, ...  
and length applied ...  
" From up. prt of Bilge to l. edge of Sh'rstrake...  
" Main Sheerstrake, breadth and thickness...  
" Of d'bling at Sh'stk. & lng. applied ...  
" From M'n. to Up. or Spar Dk. Sh'rstrake...  
" Up. or Spar Dk Sh'rstrake, br'dth & thicken'ss...  
Butt Straps to outside plating, breadth & thickness ...  
Lengths of Plating ...  
Shifts of Plating, and Stringers ...

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 ...  
Flat of Up., Spar, or Awning Dk. ...  
How fastened to Beams ...  
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 ...  
Flat of Middle Deck\* do. do. ...  
How fastened to Beams ...  
Stringer Plates on ends of Lower Deck, Hold or ...  
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 ...  
" in hold do. do. ...  
Main piece of Rudder, diameter at head ...  
do. at heel ...  
Can the Rudder be unshipped afloat? ...

Bulkheads No. ... No. per Rule ...  
" Thickness of ...  
" Height up ...  
" How secured to sides of ship ...  
" Size of Vertical Angle Irons ... and distance apart ... ins.

" Are the outside Plates doubled two spaces of Frames in length? ...  
Riveted through plates with ... in. Rivets, about ... apart.

And butts properly shifted? ...

Are the various lengths of Plates and Angle Irons properly connected? ...

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

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

Butts of ... Strakes at Bilge for ... length, treble riveted with Butt Straps ... in. diameter averaging ... ins. from cr. to cr.

Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets ... in. diameter, averaging ... ins. from cr. to cr.

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

Edges of Main Sheerstrake, double or single riveted. Butts of Upper or Spar Sheerstrake, treble riveted ... length amidships.

Butts of Main Sheerstrake, treble riveted for ... length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for ... length.

Butts of Main Stringer Plate, treble riveted for ... length amidships. Breadth of laps of plating in single riveting ...

State clearly where plating is of alternate thicknesses as distinguished from diminished thickness at ends of vessel.

\* If Iron Deck, state if whole or part, and if wood deck is laid thereon.

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*

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 *good of 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, State also Length and Diameter of Lower Masts and Bowsprit *Length of Mainmast 78' 6" dia 24 1/2 plates 6 1/2*

*Three plates in the round butts tubed & edges double riveted & doubled in way of wedging. Built by Messrs J. Blum & Co. at Sunderland. Makers of Iron Clissett Iron Company.*

NUMBER for EQUIPMENT 25828		Fathoms.	Inches.	Test per Certificate	Inches per Rule	Machine where Tested & Suprtdt.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate	W'ght req'd per Rule.	Machine where Tested & Suprtdt.
SAILES.							Bower Anchors					
N <sup>o</sup> .	CABLES, &c.						(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)					
Fore Sails,	Chain .....	270	1 1/2	59 1/2	1 1/2		1	33.0.12	30.19.1.14	32.0.0		
Fore Top Sails,	Iron Stream Chain	95	1 1/2	22 1/2	1 1/2		1	31.2.14	29.16.3.14	32.0.0		
Fore Topmast Stay Sails,	or Steel Wire ..						1	27.1.0	26.11.1.0	27.1.0		
	or Hempen Strm Cable .....											
Main Sails,	Towline, Hemp.	90	4	Maker	4							
	or Steel Wire ..											
Main Top Sails,	Hawsen	90	3	Latest head	9 1/2		Stream Anchor	1	10.3.0	12.13.0.14	10.2.0	
and Main Sails	Warp .....	120	7	Tested on	7 1/2		Kedge	1	5.0.10	7.11.3.14	5.1.0	
	quality good	90	5	on rule	7 1/2		2nd Kedge	1	2.1.21	5.0.0.0	2.2.0	

Standing and Running Rigging *Hemp* sufficient in size and *good* quality. She has 2 Long Boats and 2 others.

The Windlass is *Patent P. Good* Capstan *Good* and Rudder *efficient* Pumps *in each compartment*

Engine Room Skylights.—How constructed? *Iron & wood coverings* How secured in ordinary weather? *Leak covered with eyes*

What arrangements for deadlights in bad weather? *—*

Coal Bunker Openings.—How constructed? *Iron coverings* How are lids secured? *Iron bars* Height above deck? *3 feet*

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

Cargo Hatchways.—How formed? *Iron coverings*

State size *Main Hatch 24 x 12* Fore hatch *20 x 12* Quarter hatch *20 x 12*

If of extraordinary size, state how framed and secured? *Deep web plates with feet & stiff solid hatches*

What arrangement for shifting beams? *—*

Hatches, If strong and efficient? *Yes*

Order for Special Survey No. *1528*

Date *24<sup>th</sup> March 1881*

Order for Ordinary Survey No. *✓*

Date *✓*

No. *35* in builder's yard.

1st. On the several parts of the frame, when in place, and before the plating was wrought *July 5. 8. 13. 26. 29 Aug 5. 9. 15. 18. 22. 26.*

2nd. On the plating during the process of riveting *Sept 1. 6. 13. 15. 19. 21. 23. 27. 29 Oct 4. 11. 18. 25. 28.*

3rd. When the beams were in and fastened, and before the decks were laid... *Nov 2. 8. 12. 15. 21. 23. 25. 29 Dec 2. 9. 12. 15. 20. 23. 29*

4th. When the ship was complete, and before the plating was finally coated or cemented... *Jan 5. 10. 19 Feb 3. 9. 10. 22 March 7. 17. 25*

5th. After the ship was launched and equipped *28. 31. April 1. 3. 4. 5. 8. 11. 14.*

General Remarks (State quality of workmanship, &c.) *This Vessel has been built under Special Survey, in conformity with the Rules & Machinery Section & longitudinal plans herewith appended.*

*The workmanship & materials are of good quality.*

*The pumping arrangements are fitted as approved by the Committee*

*The double bottom has been tested in conformity with the Rules.*

*See form attached*

State if one, two, or three decked vessel, or if span, or awning decked; and the lengths of poop, bridge, fore-castle, or raised quarter deck. (If double bottom, state particulars on separate form.)

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

I am of opinion this Vessel should be Classed *100 A 1. Three decked with two tiers of beams one iron & one part steel.*

The amount of the Entry Fee... £ 5 : - : - is received by me, *HMB*

Special ... £ 45 : 2 : 6 *6<sup>th</sup> May 1882*

Certificate *Gratis* (to be sent as per margin).

(Travelling Expenses, if any, £ 1. 5. 0).

Committee's Minute

Character assigned *100 A 1*

*Friday 12<sup>th</sup> May 1882.*

*This vessel appears to be eligible to be classed 100 A 1 as recommended*

*2d<sup>th</sup> (1st<sup>st</sup>) 3<sup>rd</sup> (1st<sup>st</sup>)*

*11/5/82*

*Lloyd's Register*

*Foundation*