

2410 IRON SHIPS.

No. 1686 Survey held at Belfast Date 13th April 1861
 on the Iron Screw Steamer "Italian" Master _____

Tonnage Gross 1859 by Engine Room 299 Register 1560 38 Built at Belfast Launched 27th March
 When Built 1861 By whom built C. J. Harland Owners John Bibby Sons & Co

Port belonging to Liverpool Destined Voyage _____

Surveyed Afloat or in Dry Dock Specially Surveyed while Building

Length aloft	Feet. Inches.		Extreme Breadth	Feet. Inches.		Depth from top of Upper Deck		Feet. Inches.	Power of Engines	Horse No.
.....	31	3	.....	34	.....	25	.....	.....	.....	.....
Distance of Frames or Ribs from moulding } edge to moulding edge, all fore and aft }	Inches in Ship. 18		Inches required per Rule. 18		Stem, if bar iron, moulding and thickness		9	3	10	3
Floors, Size of Angle Iron, and No. 1 at bottom of Floor Plate.....	Inches in Ship. 5	Inches in Ship. 3 1/2	16ths in Ship. 14	Inches required per Rule. 5 1/2	Inches required per Rule. 3 1/2	Stern-post, if bar iron, moulding and thickness	10	6	11	3
.. depth and thickness of Floor Plate at mid line ..	25	14	25	12	12	.. if plate iron, breadth and thickness ..	13	6	.....	.....
.. depth and thickness of Floor Plate at Bilge Keelson ..	9 1/2	11	.....	.....	.....	Keel, if bar iron, depth and thickness ..	9	3 x 3 1/2	10	3
.. Size of Reversed Angle Iron, and No. 2 at top of Floor Plate ..	3 1/2	3	8	4	3 1/2	.. if plate iron, breadth and thickness ....	.....	.....	.....	.....
Frames, Size of Angle Iron, single or double ..	5	3 1/2	14	5 1/2	3 1/2	Garboard Plates, thickness ..	Description of Iron. Staffordshire			
.. Reversed Iron, N to every frame or every frame ..	3 1/2	3	8	4	3 1/2	From Garboard to upper part of Bilge ..	14	14	14	14
Beams, Deck (N° ..) double Angle Iron or Bulb Iron with double Angle Iron on top ..	3 1/4	3	6	.....	.....	From upper part of Bilge to Sheerstrakes ..	12	12	12	12
.. depth & thickness of plate amidships ..	6	14	.....	.....	.....	Sheerstrakes ..	14	14	14	14
.. double or single Angle Iron, } Bulb Iron on lower edge ..	.....	.....	.....	.....	.....	Breadth & thickness of Butt Straps to outside plating }	9	14 1/2	14 1/2	14 1/2
.. average space between ..	35	.....	.....	.....	.....	Planksheers ..	Material. Greenheart			
.. if wood (N° ..) sided & moulded ..	.....	.....	.....	.....	.....	Gunwale Plate or Stringer on ends of Up. Dk Beams }	24 3/4	12	12	12
.. Hold, or Lower Deck (N° ..) double Angle Iron or Bulb Iron with double Angle Iron on top ..	3 1/4	3	4	.....	.....	Angle Iron on ditto ..	5 1/2	4 1/2	.....	.....
.. depth & thickness of plate amidships ..	6	14	.....	.....	.....	Waterway ..	.....	.....	.....	.....
.. double or single Angle Iron, } Bulb Iron on lower edge ..	.....	.....	.....	.....	.....	Deck ..	.....	.....	.....	.....
.. average space between ..	35	.....	.....	.....	.....	Ceiling in Hold ..	2 1/2	.....	.....	.....
.. if wood (N° ..) sided & moulded ..	.....	.....	.....	.....	.....	Ceiling betwixt Decks ..	2 1/4	.....	.....	.....
.. Paddle, wood, sided and moulded } or if Iron, size of Plate ..	20	19	14	.....	.....	Beam Clamps ..	.....	.....	.....	.....
.. Engine Iron Box ..	.....	.....	.....	.....	.....	.. Shelf ..	.....	.....	.....	.....
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions }	2 1/4	12	.....	.....	.....	.. Stringer Plates on ends of Hold or Lower Dk Beams }	26	12	12	12
.. Side or Bilge ..	2 Bilge 2 Sister	.....	.....	.....	.....	Ceiling between Decks ..	.....	.....	.....	.....
.. Number ..	5	.....	.....	.....	.....	Stringer or Tie Plates outside Hatchways ..	.....	.....	.....	.....



Transoms, material Iron or, if none, in what manner compensated for. _____
 Knight-heads .. Q } are they free from defects? .. Bulkheads, N° 5 in main deck Thickness of 8 in
 Hawse Timbers .. Q } .. how secured to the sides of the ship Riveted between two frames
 .. size of vertical angle iron and their distance apart 3 1/2 x 3 1/2 30 in apart
 The Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with (1 in.) rivets, about (6) apart.
 The reverse angle irons on the floors extend in one length across the middle line from 3 1/2 to 4 feet to on each side alternately, to hold beam stringer
 on the frames from Q to Q
 Keelson, how are the various lengths of plates or angle irons connected? With butt straps
 Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (1/2 x 1 in.) diameter averaging (2 1/2 x 1/2) from centre to centre of rivet.
 .. Edges from Garboards to upper part of bilge, worked carvel with a lining piece (in.) thick, or clencher, double or single rivetted; rivets (1 in.) diameter, averaging (3 ins.) from centre to centre of rivets.
 .. Butts from Keel to turn of bilge, worked carvel with a lining piece (14 1/2) thick, double or single rivetted; rivets (1 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? alternately
 .. Edges from bilge to planksheer, worked carvel with a lining piece (in.) thick, double or single rivetted; rivets (7/8 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? alternately
 .. Butts from bilge to planksheers, worked carvel with a lining piece (12 1/2) thick, or clencher, double or single rivetted; rivets (7/8 in.) diameter averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (4 1/2) Breadth of laps in single rivetting (in.)
 Planksheer, how secured to the plating of the sides { Explain by sketch, }
 Waterway planksheer and to the Beams { if necessary. }
 Side trussing .. breadth and thickness of plates .. how secured? ..
 Deck trussing on hold beams ?
 Deck Beams, how secured to the side? Planks turned, knee plates & rivetted to frames
 Hold or Lower Deck .. The same as above, and diagonal trussing to masts & stringer plates
 Paddle
 No. of breasthooks 5 crutches 3 how are pointers compensated? By plate iron rivetted to frames
 What description of iron is used for the angle iron, and plate iron in the vessel? Staffordshire Builder's Signature _____

Builder's Signature

 Lloyd's Register
 Foundation

2410 Iron

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? Y

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? Y

Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? Filled in solid

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? Y and are the rivet holes well and sufficiently countersunk in the outer plate? Y

Are there any rivets which either break into or have been put through the seams or butts of the plating? a few

Her Masts, Yards, &c., are in _____ condition, and sufficient in size and length.

N ^o .	She has SAILS.	CABLES, &c.		ANCHORS, and their weights.	
		Fathoms.	Inches.	N ^o .	Weight.
	Fore Sails,	Chain		Bower,	
	Fore Top Sails,	Hempen Stream Cable		Stream,	
	Fore Topmast Stay Sails,	Hawser		Kedge,	
	Main Sails,	Towlines			
	Main Top Sails,	Warp			
	and	All of _____ quality.			

Her Standing and Running Rigging _____ sufficient in size and _____ in quality.

She has _____ Long Boat and _____

The present state of the Windlass is _____ Capstan _____ and Rudder _____ Pumps _____

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

- DATES of Surveys held while building, as per Section 17.
- 1st. On the several parts of the frame, when in place, and before the plating was wrought _____
 - 2nd. On the plating during the progress of rivetting _____
 - 3rd. When the beams were in and fastened, and before the decks were laid _____
 - 4th. When the ship was complete, and before the plating was finally coated _____
 - 5th. After the ship was launched _____
- Specially Surveyed while building*

This is a Sister Ship to the "Grecian" except a house on deck, which is larger. She has the extra inside strakes on each side abreast of sheerstrakes 209 feet $\frac{12}{16}$ in. Two plates 9 feet long each tapering at ends to $\frac{14}{16}$ in. One ^{double strake} on each side at Orlop beams 180 feet $\frac{12}{16}$ in. one ^{double strake} on each side at bilge 180 feet $\frac{14}{16}$ in. And one ^{double strake} at middle line over keel 209 feet $\frac{14}{16}$ in. Middle line keelson 24 $\frac{3}{4}$ inches $\frac{12}{16}$ amidships tapering to 9 inches at ends, an intercostal keelson about midway between the middle line keelson and the bilge keelson, plates $\frac{14}{16}$ in. to top of floors, with bulb iron on top 191 feet $9 \times \frac{8}{16}$ in amidships, with two angle irons $5 \frac{1}{2} \times 4 \frac{1}{2} \times \frac{14}{16}$ rivetted back to back, all fore and aft. Bilge keelson 152 feet bulb iron amidships rivetted to angle irons as above Orlop beam stringer of bulb iron $8 \times \frac{14}{16}$ in rivetted between two angle irons $5 \frac{1}{2} \times 4 \frac{1}{2} \times \frac{14}{16}$ in abreast of Engine Room, and single from thence to the ends. Main deck is formed of iron plates chequered, about 12 feet long, and $14 \frac{1}{2}$ in wide weighing about 18 lb per square foot, Carvel plated, butts double rivetted, with straps $3 \frac{1}{8}$ thick $5 \frac{1}{2}$ in wide fore and aft beams, single rivetted, with long pieces $4 \frac{1}{2}$ in wide, rivets $5 \frac{1}{8}$ and $2 \frac{1}{4}$ in Centre the recesses on top surface 2 in square and $\frac{1}{4}$ deep, are filled in with a mixture of Portland Cement and sand, prior to which all the seams are caulked.

The thin plating at each end of this vessel is the same thickness as on the "Grecian" The Iron and Workmanship are excellent, except the keel rivets, which are rather near each other, as will be seen by a sketch enclosed in my letter dated 5th June

In what manner are the surfaces preserved from oxidation? The flat of bottom to round the turn of bilge is Portland Cemented, above this together with the entire outside of hull, is coated twice with a mixture of Red & White Lead paint

I am of opinion this Vessel should be classed _____

The amount of the Fee £ 5 : : is received by me, *Wm. Dutton*

Special £ 92 : 19 : 6

Certificate (if required) £ 4 : 10 : 6

Committee's Minute 3rd May 1861

Character assigned Build of Iron for 12 Years

This Vessel appears to be built according to Mr. Barclay's arrangements with the Committee and is in my opinion eligible to be classed 12 A 1 when her stores are completed

2nd May 1861

