

# IRON SHIP.

No. 4624 Survey held at Glasgow Date, First Survey 19 March 77 Last Survey 12 March 1878

On the STEEL RATTLE STEAMER "BRIGHTON" Master R. G. White

TONNAGE under Tonnage Deck } 433.75  
 Ditto of Upper Deck } 1.68  
 Ditto of Lower Deck } 65.89  
 Ditto of Raised Or. Dk. } 29.96  
 Ditto of Houses on Deck }  
 Gross Tonnage } 531.28  
 Less Crew Space } 8.91  
 Less Engine Room } 196.72  
 Register Tonnage } 315.80  
 as cut on Beam }  
 ONE, ~~OR TWO~~ DECKED, ~~THREE DECKED~~ VESSEL.  
~~SPACED, OR OPENING DECKED, VESSEL.~~  
 HALF BREADTH (moulded) ... 13.7  
 DEPTH from upper part of Keel to top of Upper Deck Beams ... 12.2  
 GIRTH of Half Midship Frame (as per Rule) ... 23.0  
 1st NUMBER ... 48.9  
 LENGTH ... 218.  
 2nd NUMBER ... 10.660.  
 PROPORTIONS—Breadths to Length ... 7.95  
 Depths to Length—Upper Deck to Keel ... 17.8  
 Main Deck to Keel ...

Built at Glasgow  
 When built 1878 Launched 2. January  
 By whom built John Elder & Co.  
 Owners London Brighton & South Coast  
London Bridge & Dock Co.  
 Port belonging to Newhaven  
 Destined Voyage Newhaven & Liverpool  
 If Surveyed while Building, Afloat, or in Dry Dock.  
 & under special survey

LENGTH on deck as per Rule ... 218 Feet. Inches. BREADTH Moulded ... 27 Feet. Inches. DEPTH top of Floors to Upper Deck Beams ... 11 Feet. Inches. Power of Engines ... 300 Horse. N° of Decks with flat laid ONE N° of Tiers of Beams over

Dimensions of Ship per Register, length, 221.3 breadth, 27.7 depth, 10.65  
 TEM, moulding and thickness ... 6 x 1 1/2  
 TERN-POST for Rudder do. do. ... 6 x 2  
 Distance of Frames from moulding edge to moulding edge, all fore and aft ... 22 in.  
 FRAMES, Angle Iron, for length amidships ... 3 x 2 1/2  
 Do. for at each end ... 3 x 2 1/2  
 REVERSED FRAMES, Angle Iron ... 2 1/4 x 2 1/4  
 FLOORS, depth and thickness of Floor Plate at mid line ... 13 x 5/16  
 thickness at the ends of vessel ... 4 x 4/16  
 depth at 1/4 the half-bdth. as per Rule ... 20 per approved section  
 height extended at the Bilges ...  
 BEAMS, Upper, Spaced or Awning Deck Single or double Ang. Iron, Plate or Tee Bar Iron Single or double Ang. Iron or Upper edge Average space ... 44 in.  
 BEAMS, Main or Double Deck Single or double Ang. Iron, Plate or Tee Bar Iron Single or double Ang. Iron or Upper edge Average space ... 44 in.

Single or double Ang. Iron or Upper Edge Angle Iron or Upper Edge  
 KEELSONS Centre line, single or double plate, see or Intercoastal, Plates ... 5/16 x 4/16  
 Bulb Plate to Intercoastal Keelson ... 8 x 4/16  
 Angles Irons ... 3 1/2 x 3 x 5/16 x 4/16  
 Double Angle Iron Side Keelson ...  
 Side Intercoastal Plate ... 4 x 4/16  
 do. Angle Irons ... 3 1/2 x 3 x 5/16  
 Attached to outside plating with angle iron ... 2 1/4 x 2 1/4 x 4/16  
 BILGE Angle Irons ...  
 do. Plate Iron ...  
 do. Intercoastal plate riveted to plating for length ...  
 BILGE STRINGER Angle Irons ... 3 1/2 x 3 x 5/16  
 Intercoastal plate riveted to plating for length ...  
 SIDE STRINGER Angle Irons ...  
 Transoms, material. Knight-heads. Hawse Timbers. E. & S. Oak.  
 Windlass Barfield's Patent. Pall Bitt

The FRAMES extend in one length from Keel to Gunwale & Rail Riveted through plates with 7/8 in. Rivets, about 5 apart.  
 The REVERSED ANGLE IRONS on floors and frames extend from middle line to top of Bilge 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 3/4 in. diameter, averaging 3 1/4 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 1/4 ins. from centre to centre.  
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/4 ins. from centre to centre.  
 Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.  
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.  
 Edges of Main Sheerstrake, double or single riveted.  
 Butts of Main Sheerstrake, treble riveted for 100% length amidships.  
 Butts of Main Stringer Plate, treble riveted for 100% length amidships.  
 Breadth of laps of plating in double riveting 4 1/2 Breadth of laps of plating in single riveting 2 1/4  
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Double and Treble  
 Waterway, how secured to Beams Gutter Waterways (Explain by Sketch, if necessary.)  
 Beams of the various Decks, how secured to the sides? Beam knees Riveted to Frames No. of Breasthooks, 3 Crutches,  
 What description of Steel is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Steel—made of Scotland  
 Manufacturer's name or trade mark, Scotland. at New Town near Glasgow.

The above is a correct description.  
 Builder's Signature, John Elder & Co. Surveyor's Signature, James Purdie  
 Surveyor to Lloyd's Register of British and Foreign Shipping



Workmanship. Are the joints of plating planed otherwise fitted? *Planned where practicable*  
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* 20398 Iron  
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 and in butts only.*

Masts, Bowsprit, Yards, &c., are in *good* condition, and sufficient in size and length. If of Iron or Steel give  
Scanlings 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 *Pitch Red pine*

*The masts of these three anchors Masts packed given in pencil on the first mast  
of masted Cal. Iron - three others of masted Iron are finished and will be sent to the  
to replace the masted Cal. Iron Masts of the masted Iron Masts.*

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd pr Rule.	Test req'd per Rule.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
N <sup>o</sup> .	SAILS.	CABLES, &c.					Bowers					
		Chain	210	1 1/4	28 1/2	210 14/16			13.317	15 10/20	13 1/2	15 3/20
	Fore Sails,								13.316	15 10/20	13 1/2	15 3/20
	Fore Top Sails,								11.3.26	13 7/20	11.1.25	13 1/2
	Fore Topmast Stay Sails											
	Main Sails,											
	Main Top Sails,											
	Warp											
	quality											