

IRON SHIPS.

Per 4/8/72

No. 344 Survey held at Glasgow

Date, First Survey 23rd June 1871 Last Survey 20th Feb'y 1872

On the S. S. Parnassus

Master A. G. Froud

Tonnage under Tonnage Deck } 1633.96	ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.	THREE DECKED VESSELS.	Built at Glasgow
Ditto of Third Spar, or Awning Deck } ✓	Half moulded breadth ... 16.9	Half Moulded Breadth ... 16.9	When built 1871 Launched 23 rd Dec 1871
Ditto of Poop, or Raised Or. Dh. } ✓	Depth from upper part of Keel to top of Upper Deck Beams ... 19.0	Total Depth if three or more Decks ... 26.0	By whom built London & Glasgow Co. Limited
Ditto of Houses on Deck ... 12.88	Girth of Half Midship Frame (as per Rule) ... 31.2	Total Girth of Half Midship Frame ... 38.2	Owners C. Williamson
Ditto of Forecastle } ✓	1st Number ... 67.1	3rd Number ... 81.1	Port belonging to Leith
Gross Tonnage 1636.84	Length ... 278.5	Length ... 278.5	Destined Voyage China
Crew Space, as per Rule } 44.79	2nd Number ... 18687	4th Number ... 22885	If Surveyed while Building, Afloat, or in Dry Dock.
Register Tonnage, as a Steamship, out on Beam } 533.49	Depths to Length. 11.6 x 16.3	Breadths to Length ... 8.3	

Length on deck as per Rule, 278 5	Moulded Breadth, 33 6	Depths from top of Floors to Upper and Main Deck Beams, as per Rule ... 24 3	Power of Engines, 200	N ^o . of Decks with flat laid Two	N ^o . of Tiers of Beams Three
Dimensions of Ship per Register, length, 281.3 breadth, 34 depth, 23.8					

	Inches in Ship.	Inches required per Rule.		Inches in Ship.	Inches required per Rule.
Keel, if bar iron, depth and thickness	9 1/2 x 2 1/2	9 1/2 x 2 1/2	Flat Keel Plates, breadth and thickness	38	36
Do. if centre through plate, depth and thickness	9 1/2 x 2 1/2	8 1/2 x 2 1/2	Plates in Garboard Strakes, breadth and thickness	38	36
Stem, if bar iron, moulding and thickness	9 x 5	8 1/2 x 5	Do. from Garboard to upper part of Bilges	37	36
Stern-post for Rudder do. do.	24	24	Do. of doubling at Bilge, or increased thickness, and length applied	37	36
Stern-post for Propeller	24	24	Do. of doubling at Bilge to l. edge of Sh'rstrake	37	36
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	24	Do. Main Sheerstrake, breadth and thickness	37	36
Frames, size of Angle Iron, for 2/3 length amidships	4 x 3 7/16	4 x 3 7/16	Do. of d'bling at Sh'rstrake, & length applied	30	29
Do. for 1/3 at each end	4 x 3 7/16	4 x 3 7/16	Do. from Mn. to Up. or Spar Dk. Sh'rstrake	30	29
Reversed Frames, size of Angle Iron	3 x 3 7/16	3 x 3 7/16	Do. Up. or Spar Dk Sh'rstrake, brdth & thickness	16 3/4 to 10 x 14 1/2	14 1/2
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	24 x 10 1/16	23 3/4 x 10 1/16	Butt Straps to outside plating, breadth & thickness	12 feet	10 feet
Do. at the ends	9 1/16 x 8 1/16	9 1/16 x 8 1/16	Lengths of Plating	6 feet	5 feet
Do. do. do. at Bilge Keelson	9 1/16 x 8 1/16	10 1/16 x 9 1/16	Shifts of Plating, and Stringers	6 feet	5 feet
Do. height extended at the Bilges	Twice	Twice	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	46	46
Beams, Upper, Spar, or Awning Deck (No.)	6 1/2 x 6 1/6	6 1/2 x 6 1/6	Angle Iron on ditto	3 1/2 x 3 1/2 x 7 1/16	3 1/2 x 3 1/2 x 7 1/16
single or double Angle Iron, Plate or Tee Bulb Iron	2 1/4 x 2 1/4 x 5 1/16	2 1/4 x 2 1/4 x 5 1/16	Tie Plates (fore and aft), outside Hatchways	15	15
Single or double Angle Iron on Upper edge	48 ins	48 ins	Diagonal Tie Plates on Beams (No. of Pairs, 5)	15	15
Average space	8 x 8 1/16	8 x 8 1/16	Planksheer material and scantling	Gutter Waterway	
Beams, Main or Middle Deck (No.)	8 x 8 1/16	8 x 8 1/16	Waterways do. do.	4	4
single or double Angle Iron, Plate or Tee Bulb Iron	3 x 3 6 1/16	3 x 3 6 1/16	Flat of Upper Deck do. do.	4	4
Single or double Angle Iron, on Upper Edge	as approved by Committee	as per section approved about 16 feet apart	How fastened to Beams	Rivets and Screws	
Average space	about 16 ft	16 feet apart	Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	40	40
Keelson Centre line, single or double plate, box, or Intercoastal, size of Plates	17 x 13 1/16	17 x 13 1/16	(Is the Stringer Plate attached to the outside plating?)	Yes	Yes
Do. Bulb Plate to Intercoastal Keelson	6 x 4 9 1/16	6 x 4 9 1/16	Angle Irons on ditto (No. 2)	4 x 4 x 9 1/16	4 x 4 x 9 1/16
Do. Size of Angle Irons	6 x 4 9 1/16	6 x 4 9 1/16	Tie Plates, outside Hatchways	Iron Deck	Iron Deck
Do. Side Intercoastal Keelson, size of Plates	6 x 4 9 1/16	6 x 4 9 1/16	Diagonal Tie Plates on Beams (No. of pairs,)	6 1/16 thick	Iron Deck
Do. Angle Irons on tops of Floors	5 x 4 9 1/16	5 x 4 9 1/16	Waterways materials and scantlings	Iron 6 1/16	Iron 6 1/16
Do. Bilge Keelson, Bulb Iron	8 x 8 1/16	8 x 8 1/16	Flat of Middle Deck do. do.	Riveted	Riveted
Do. do. Intercoastal plates riveted to plating for length	5 x 4 9 1/16	5 x 4 9 1/16	How fastened to Beams	Riveted	Riveted
Do. do. Angle Irons	5 x 4 9 1/16	5 x 4 9 1/16	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	34	34
Side Stringers (No. 1) size of Angle Irons	5 x 4 9 1/16	5 x 4 9 1/16	(Is the Stringer Plate attached to the outside plating?)	Yes	Yes
Do. Intercoastal plates riveted to plating for length	5 x 4 9 1/16	5 x 4 9 1/16	Angle Irons on ditto (No. 2)	4 x 4 x 9 1/16	4 x 4 x 9 1/16

Transoms, material Iron or, if none, in what manner compensated for.

Knight-heads Iron Hawse Timbers Iron

Windlass Napier's Patent Pall Bitt

The Frames extend in one length from Centre Line to Upper Deck Riveted through plates with (3/4 in.) Rivets, about 6 apart.

The Reverse Angle Irons on the floors and frames extend from the middle line to Main and to Upper Deck alternately

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

Plates, Garboard, double Riveted to Keel, double at upper edge, with Rivets (7/8 in.) diameter, averaging (4 ins.) from centre to centre.

Do. Edges from Garboards to upper part of Bilge, worked Clencher, double Riveted; with Rivets (7/8 in.) diameter, averaging (4 ins.) from centre to centre.

Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (14 5/16) thick, double Riveted; with Rivets (7/8 in.) diameter averaging (4 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? No

Do. of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 thicker than their plates.

Do. Edges from bilge to Main Sheerstrake, worked carvel with a clencher () clencher, double Riveted; with rivets (7/8 in.) diameter, averaging (4 ins.) from centre to centre.

Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge Double At lower edge Double

Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (10 1/16) thick, double Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.

Do. Butts of Main Sheerstrake, double Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double and treble Riveted for 1/2 length amidships. Breadth of laps of plating in double Riveting (6 times) Breadth of laps of plating in single Riveting (3 1/2 times)

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Treble and Double

Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? Knees riveted to Frames No. of Breasthooks, Five Crutches, Five

What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? B. Boiler

Manufacturer's name or trade mark, Plates - Fox Head & Co. - Angles Govan Iron Works - Bulbs Clifton Iron Works

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature, J. Kelly

Surveyor's Signature, J. Kelly

120450-0307

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
 Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? One Piece
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes and are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes
 Are there any rivets which either break into or have been put through the seams or butts of the plating? A Few

Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. If they are of Iron or Steel give the 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 Schooner Rigged Iron Masts, diam at Partners 25 ins

9859 Iron

Tested at Newcastle
 4th Octr 1871 by Rott, Bunnell

Tested at Newcastle 4th June 19. 1872
 by Rott Bunnell

N ^o .	Number for equipment	Fathoms.	Inches.	Test as per Certificate	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	Wight req'd per Rule.	Test req'd per Rule.
	22585	150	1 1/16	57.4	1 1/16	5 1/4		10137	28.3.16	27.16.0.7	27 3/4	26.9/10
		150	1 1/16	51.4			Bowers	10138	28.2.24	27.13.1.14	27 3/4	26.9/10
								10139	24.1.1	24.1.3.14	23.2.10	23 1/20
		90	1 1/16		1 1/16 or 11		Stream	10140	10.3.22	10.18.3.0	11	
		90	10 1/2		10 1/2				5.1.4		5 1/2	
		90	6 1/2		6 1/2				2.2.20		2 3/4	
		60	4 1/2				Kedges					

Her Standing and Running Rigging Wool & Hemp sufficient in size and good in quality. She has Three ~~Boats~~ Boats and Two fitted as Life ~~Boats~~ Boats

The present state of the Windlass is Good Capstan Good and Rudder Good Pumps Good and Efficient

Engine Room Skylights.—How constructed? of Iron, side lights of glass How secured in ordinary weather? By Bars inside

What arrangements are there for deadlights in such for bad weather? Carpanulings

Coal Bunker Openings.—How constructed? Iron Castings How are lids secured? Locking Pins How high above deck? 5 ins

Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? Flush Deck

Cargo Hatchways.—How formed? Plate and Angle Irons State size Fore 20x8 feet

If of extraordinary size, state how framed and secured? after 9x8 and 20x9 feet

What arrangement for shifting beams? In fore hatch one shifting beam and through bulkhead

Hatches, themselves, whether strong and efficient? Yes. Main Hatchways.—State size 24x10

Order for Special Survey No. 465 DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought Under Special
 Date June 5th 1871 Surveys held 2nd. On the plating during the progress of riveting Survey from 23rd June 1871 to
 Order for Ordinary Survey No. 158 while building 3rd. When the beams were in and fastened, and before the decks were laid 20th Feb 1872
 Date June 5th 1871 as per 4th. When the ship was complete, and before the plating was finally coated or cemented
 No. 158 in builder's yard. Section 18. 5th. After the ship was launched and equipped

General Remarks,

This vessel has been built in accordance with the Rules and appended approved Sketch of Midship Section with a view to be classed 100 A.

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, forecabin or raised quarter deck, or of double or part double bottom.

In what manner are the surfaces preserved from oxidation? Inside Cement and Paint Outside Paint

I am of opinion this Vessel should be Classed *100 A 1 - 3 decks.

The amount of the Entry Fee£ 5 is received by me,
 Special£ 65.12.
 Certificate 100 A 1

Sam. Lathorn

(Travelling Expenses) (if any) £

Committee's Minute 5th March 1872

Character assigned 100 A 1

T. W. Mc 3 decks

