

## IRON SHIP.

FRIDAY 3 JULY 1885

No 8934

Survey held at Port Glasgow Date, First Survey 17<sup>th</sup> Octr/84Last Survey 30<sup>th</sup> June 1885

1885

On the

Barque Ruthwell

Box 304 K

TONNAGE under

Tonnage Deck

Ditto of Third, Spar,

or Awning Deck.

Ditto of Poop, or

Raised Or. Dk.

Ditto of Houses

on Deck

Ditto of Fore-castle

Gross Tonnage

Less Crew Space

Less Engine Room

Register Tonnage

as out on Beam

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

Half Breadth (moulded) ... .. 17.97

Depth from upper part of Keel to top of Upper Deck Beams ... .. 23.708

Girth of Half Midship Frame (as per Rule) ... .. 37.04

1st Number ... .. 78.665

1st Number, if a 3-Decked Vessel .. deduct 7 feet

Length ... .. 225.58

2nd Number ... .. 17981

Proportions— Breadths to Length .. .. 6.37

Depths to Length—Upper Deck to Keel .. .. 9.64

Main Deck ditto .. ..

Master

Built at

When built

By whom built

Owners

Residence

Port belonging to

Destined Voyage

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

Whilst building under J. S.

LENGTH on deck as per Rule ... 228 7 BREADTH—Moulded ... 35 0 DEPTH top of Floors to Upper Deck Beams ... 21 8 1/2 Power of Engines ... 4 Horse. N° of Decks with flat laid ... 1 N° of Tiers of Beams ... 2

Dimensions of Ship per Register, length 239.5 breadth, 36.2 depth, 74.5 Moulded depth = 32.11 1/2

KEEL, depth and thickness ... 9 x 3 1/2 9 x 2 1/2 PLATES in Garboard Strakes, br'dth &amp; thickness ... 41 11 36 11

STEM, moulding and thickness ... 8 1/2 x 2 1/2 8 1/2 x 2 1/2 " From Garboard to upper part of Bilges ... 10 10 10

STERN-POST for Rudder do. do. ... 8 1/2 x 2 1/2 8 1/2 x 2 1/2 " Of d'bling at Bilge, or increased thickness, and length applied 3 Strakes ... 11 11 11

" " for Propeller ... 24 24 " From up. prt of Bilge to lr. edge of Sh'rstrake ... 10 10 10

Distance of Frames from moulding edge to moulding edge, all fore and aft ... 24 24 " Main Sheerstrake, breadth and thickness ... 40 12 40 12

FRAMES, Angle Iron, for 1/2 length amidships ... 5 3 8 5 3 8 " Of d'bling at Sh'stk. &amp; lng. applied ... 10 10 10

Do. for 1/2 at each end ... 5 3 7 5 3 7 " From M'n. to Up. or Spar Dk. Sh'rstrake ... 10 10 10

REVERSED FRAMES, Angle Iron ... 3 1/2 3 7 3 1/2 3 7 " Up. or Spar Dk Sh'rstrake, br'dth &amp; thickn' ss ... 10 10 10

FLOORS, depth and thickness of Floor Plate at mid line for half length amidships ... 24 10 24 10 Butt Straps to outside plating, breadth &amp; thickness ... 16 1/4 11 16 1/4 11

" thickness at the ends of vessel ... 8 8 Lengths of Plating ... 2 3 1/4 2 3 1/4

" depth at 1/2 the half-bdth. as per Rule ... 12 12 Shifts of Plating, and Stringers ... 2 3 1/4 2 3 1/4

" height extended at the Bilges ... 48 48 Gunwale Plate on ends of ... 44 10 44 10

BEAMS, Upper, Spar, or Awning Deck ... 8 1/2 8 8 1/2 8 8 Upper Deck Beams, breadth and thickness ... 5 x 4 x 9 5 x 4 x 9

Single or double Angle Iron, Plate or Tee Bulb Iron ... 3 3 7 3 3 7 Tie Plates fore and aft, outside Hatchways ... 13 10 13 10

Single or double Angle Iron on Upper edge ... 48 48 Diagonal Tie Plates on Beams No. of Pairs ... 13 10 13 10

Average space ... 48 48 Flat of Up., Spar, or Awning Dk. ... 4 4 4 4

BEAMS, Main, or Middle Deck ... 8 1/2 8 8 1/2 8 8 How fastened to Beams ... 10 10 10 10

Single or d'ble Ang. Iron, Plate or Tee Bulb Iron ... 3 3 7 3 3 7 Stringer Plate on ends of Main or Middle Deck ... 32 9 32 9

Single or double Angle Iron on Upper Edge ... 48 48 Beams, breadth and thickness ... 32 9 32 9

Average space ... 48 48 Is the Stringer Plate attached to the outside plating? ... 32 9 32 9

BEAMS, Lower Deck ... 8 1/2 8 8 1/2 8 8 Angle Irons on ditto, No. ... 4 x 4 x 9 4 x 4 x 9

Single or d'ble Ang. Iron, Plate or Tee Bulb Iron ... 3 3 7 3 3 7 Tie Plates, outside Hatchways ... 4 x 4 x 9 4 x 4 x 9

Single or double Angle Iron on Upper Edge ... 48 48 Diagonal Tie Plates on Beams, No. of pairs ... 13 10 13 10

Average space ... 48 48 Flat of Middle Deck do. do. ... 4 4 4 4

BEAMS, Hold, or Orlop ... 8 1/2 8 8 1/2 8 8 How fastened to Beams ... 10 10 10 10

Single or d'ble Ang. Iron, Plate or Tee Bulb Iron ... 3 3 7 3 3 7 Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ... 32 9 32 9

Single or double Angle Iron on Upper Edge ... 48 48 Is the Stringer Plate attached to the outside plating? ... 32 9 32 9

Average space ... 48 48 Angle Irons on ditto, No. ... 4 x 4 x 9 4 x 4 x 9

KEELSONS Centre line, single or double plate ... 17 12 17 12 Stringer or Tie Plates, outside Hatchways ... 13 9 13 9

Box, or Intercoastal, Plates on Floor ... 10 3/4 12 10 3/4 12 Flat of Lower Deck ... 3 9 3 9

" Rider Plate ... 10 3/4 12 10 3/4 12 Ceiling betwixt Decks, thickness and material ... 2 2 2 2

" Bulb Plate to Intercoastal Keelson ... 5 4 9 5 4 9 " in hold do. do. ... 2 1/2 2 1/2 2 1/2

" Angle Irons ... 5 4 9 5 4 9 Main piece of Rudder, diameter at head ... 6 1/4 6 1/4 6 1/4

" Double Angle Iron Side Keelson ... 5 4 9 5 4 9 do. at heel ... 6 1/4 6 1/4 6 1/4

" Side Intercoastal Plate ... 5 4 9 5 4 9 Can the Rudder be unshipped afloat? ... 3 1/4 3 1/4 3 1/4

" do. Angle Irons ... 5 4 9 5 4 9 Bulkheads No. One No. per Rule One

" Attached to outside plating with angle iron ... 3 3 7 3 3 7 " Thickness of ... 6 1/4 6 1/4 6 1/4

BILGE Angle Irons ... 5 4 9 5 4 9 " Height up ... 6 1/4 6 1/4 6 1/4

" do. Bulb Iron ... 5 4 9 5 4 9 " How secured to sides of ship ... Double frames

" do. Intercoastal plates riveted to plating for length ... 5 4 9 5 4 9 " Size of Vertical Angle Irons ... 5 x 3 x 8 1/2 and distance apart 30 ins.

BILGE STRINGER Angle Irons ... 5 4 9 5 4 9 " Are the outside Plates doubled two spaces of Frames in length? ... Yes.

Intercoastal plates riveted to plating for length ... 5 4 9 5 4 9

SIDE STRINGER Angle Irons ... 5 4 9 5 4 9

The FRAMES extend in one length from Keel to funnel

The REVERSED ANGLE IRONS on floors and frames extend from middle line to upper stringer plate

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

PLATING. Garboard, double riveted to Keel, with rivets 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.

" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 3/4 ins. from centre to centre.

" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.

" Butts of four Strakes at Bilge for half length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.

" Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 7/8 in. diameter, averaging 3 3/4 ins. from cr. to cr.

" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.

" Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.

" Butts of Main Sheerstrake, treble riveted for length amidships. Butts of Upper or Spar Sheerstrake, treble riveted half length amidships.

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

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

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

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &amp;c.? ... Mild

Manufacturer's name or trade mark, ... Norman's

The above is a correct description.

Builder's Signature, ... Surveyor's Signature, ...

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

ROBERT J. DUNN TAYLOR &amp; SON Commercial and General Steam Printers, 10, Old Street, Goswell Road, E.C., London.

GRA 304-0142



Workmanship. Are the butts of plating planed or otherwise fitted?

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

Are the fillings between the ribs and plates solid single pieces?

Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other?

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces?

Do any rivets break into or through the seams or butts of the plating?

Masts, Bowsprit, Yards, &c., are of *steel* 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.

State also Length and Diameter of Lower Masts and Bowsprit. *The steel plates & angles in these masts & bowsprits manufactured by the Messrs. L. & Co., all properly tested as req'd by the Bureau as cylinders and one of the dimensions & scantlings shown on the opposite sketch.*

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Supplied.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	Wt. req'd per Rule.	Machine where Tested & Supplied.
SAILS.		CABLES, &c.										
N <sup>o</sup> .		Chain	135	1 1/2	57	13	Bower Anchors	8609	32-7-0	30-6-1-0	32-0-0	
Fore Sails,		Iron Steam Chain	135	1 1/2	57	13	8610	31-3-0	29-18-3-0	31-3-0		
Fore Top Sails,		or Steel Wire	90	1	18	27	8612	27-2-8	26-6-1-0	27-2-0		
Fore Topmast Stay Sails,		or Hempen Strm Cable					Total	91-2-8	Total	91-1-0		
Main Sails,		Towline, Hemp.	90	11	90	11	Stream Anchor	8613	10-2-2	12-9-1-0	10-2-0	
Main Top Sails, and others		or Steel Wire	90	9 1/2	90	9 1/2	Kedge	8614	5-1-14	7-14-0	7-5-1-0	
		Hawser	90	6	90	6	2nd Kedge	8615	2-2-1	5-2-0-0	2-2-0	
		Warp										

Standing and Running Riggings *Good* efficient in size and *good* in quality. She has *Four* Long Boat *and* all *good*.

The Windlass is *good* Capstan *good* and Rudder *good* Pumps *good*

Engine Room Skylights. How constructed? *✓* How secured in ordinary weather? *✓*

What arrangements for deadlights in bad weather? *✓*

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? *Four scuppers & six ports*

Cargo Hatchways. How formed? *Each side* *Coming plates 20" above deck*

State size Main Hatch *16ft x 14ft* Forehatch *7ft x 6ft* Quarterhatch *7ft x 6ft*

If of extraordinary size, state how framed and secured? *Ordinary size*

What arrangement for shifting beams? *A deep web plate & 3 fore rafters in the main hatchway*

Hatches, If strong and efficient? *Yes this thick*

Order for Special Survey No. 2321

Date *5th Sept 1884*

Order for Ordinary Survey No. *217*

Date *21st June 1885*

No. *217* in builder's yard.

State, dates of letters respecting this case

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
- 2nd. On the plating during the process of riveting
- 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 or cemented...
- 5th. After the ship was launched and equipped

1884: Oct. 17: Nov. 7. 12. 18. 21. 27. 28: Dec. 2. 5. 9. 10. 11. 12. 26:  
1885: Jan. 16. 19. 21. 26: Feb. 3. 6. 10. 11. 14. 16. 18. 26:  
Mar. 6. 10. 13. 16. 27. 31: Apr. 2. 8. 16. 22. 27:  
May 5. 6. 8. 12. 18. 22. 25:  
June 5. 8. 13. 15. 17. 18. 20. 25. 30

General Remarks (State quality of workmanship, &c.)

*Quality of workmanship good.*  
*This vessel has been built in accordance with the approved sketches and in all other respects: it the rules, she being a sister vessel to the B<sup>th</sup> "Murmuring" freeword April 1884.*  
*A Freeboard of 4ft 5ins & 4-0ft has been marked on this vessel's side as approved by the Committee for the Sister Vessel "Murmuring" see letter 18th & 20th June '85.*

Poop - 26ft.

Forecastle (open, excepting at sides) 2ft 9ins

State if two, or three decked vessel, or if spar, or sailing 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*

The amount of the Entry Fee .....£ 4 : 0 : 0 is received by me, *JW*

Special .....£ 57 : 8 : 0 29th June 1885

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

(Travelling Expenses, if any, £ *✓*).

Committee's Minute

Character assigned *100 A 1*

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

*It is submitted that the vessel appears eligible to be classed 100 A 1 as recommended.*

*100 A 1 & 2nd Class*  
*Freeboard in salt water 4.5*  
*" " " " 4.5*  
*" " " " 4.5*