

# IRON SHIP.

Recd 29/10/79

No. 12740 Survey held at South Shields Date, First Survey 17<sup>th</sup> April Last Survey 23<sup>rd</sup> Oct 1877

On the Iron Schooner Rigged Screw Steamer Petrarch Master Richard John

**TONNAGE** under Tonnage Deck } 1444.18  
 Ditto of Third, Spar, or Awning Deck }  
 Ditto of Poop, or Raised Quarter Deck } 237.39  
 Ditto of Houses on Deck } 6.70  
 Ditto of Hatchways } 4.65  
 Gross Tonnage 1692.92  
 Less Crew Space 58.72  
1634.20  
 Less Engine Room 337.4  
 Register Tonnage as out on Beam } 1296.80

**ONE, OR TWO DECKED, THREE DECKED VESSEL.**  
**SPAR, OR AWNING DECKED VESSEL.**  
**HALF BREADTH** (moulded) .. .. . 16.10 1/2 Feet.  
**DEPTH** from upper part of Keel to top of Upper Deck Beam: 24.10 1/2  
**GIRTH** of Half Midship Frame (as per Rule) .. .. 37.4 1/2  
**1st NUMBER** .. .. .  
**1st NUMBER**, if a **THREE-DECKED VESSEL** 79.1  
 [deduct 7 feet 72.1]  
**LENGTH** .. .. . 258.5  
**2nd NUMBER** .. .. . 18637  
**PROPORTIONS**—Breadths to Length .. .. . 7.6  
 Depths to Length—Upper Deck to Keel .. .. . 10.3  
 Main Deck ditto .. .. . 15.2

Built at South Shields  
 When built 1877 Launched 25 Sept/77  
 By whom built J. Readhead & Co  
 Owners M<sup>r</sup> & Andrew & Co  
 Port belonging to London  
 Destined Voyage Barcelona  
 If Surveyed while Building, Afloat, or in Dry Dock. While building

Official Number 74025

<b>LENGTH</b> on deck as per Rule ...	Feet. 258	Inches. 6	<b>BREADTH—</b> Moulded...	Feet. 33	Inches. 9	<b>DEPTH</b> top of Floors to Upper Deck Beams ..... Do. do, Main Deck Beams.....	Feet. 23 15	Inches. 0 0	Power of Engines ...	Horse. 140	Nº. of Decks with flat laid Nº. of Tiers of Beams	2 3
Dimensions of Ship per Register, length, 276 breadth, 34.2 depth, 22.6												
<b>KEE</b> Depth and thickness ...	Inches in Ship.		Inches per Rule.									
	9 x 2½		9 x 2½									
<b>STEM</b> Moulding and thickness...	8½ x 2½		8½ x 2½									
<b>STERN-POST</b> for Rudder do. do. ...	10 x 4½		8½ x 5									
for Propeller ...	24		24									
Distance of Frames from moulding edge to } moulding edge, all fore and aft ...	24		24									
	Inches. In Ship.	Inches. In Ship.	16ths. In Ship.	Inches. per Rule	Inches. per Rule	16ths. per Rule						
<b>FRAMES</b> , Angle Iron, for ¾ length amidships ...	4½	3	8	4½	3	8						
Do. for ½ at each end ...	4½	3	7	4½	3	7						
<b>REVERSED FRAMES</b> , Angle Iron ...	3	3	7	3	3	7						
<b>FLOORS</b> , depth and thickness of Floor Plate } at mid line for half length amidships ...	22½		x	9	22½		x	9				
thickness at the ends of vessel ...			7				7					
depth at ¾ the half-bdth. as per Rule ...	11½				11½							
height extended at the Bilges... ..	45				45							
<b>BEAMS</b> , Upper, Spar, or Awning Deck } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }	7	x	7	7	x	7						
Single or double Angle Iron on Upper edge ...	3	3	6	3	3	6						
Average space... ..	48			48								
<b>BEAMS</b> , Main, or Middle Deck ...	8		x	8	8		x	8				
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }	8		x	8	8		x	8				
Single, or double Angle Iron, on Upper Edge ...	3	3	6	3	3	6						
Average space... ..	48			48								
Flat Keel Plates, breadth and thickness ... 36 11 36 11												
<b>PLATES</b> in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied ... 10 10 10 10												
from up. part of Bilge to lr. edge of Sh'rstrake Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake. Up. or Spar Dk Sh'rstrake, brdth & thickness 40 12 40 12												
Butt Straps to outside plating, breadth & thickness 10 16 10 16 11 16 11 16												
Lengths of Plating ... 10 feet 10 feet												
Shifts of Plating, and Stringers... 4 feet 4 feet												
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness... 54 9 54 9												
Angle Iron on ditto ... 4 x 4 x 9 4 x 4 x 9												
Tie Plates fore and aft, outside Hatchways ... 13 9 13 9												
Diagonal Tie Plates on Beams No. of Pairs, Plank-sheer material and scantling ... Lloyd's Register												
Waterways do. do. ... Iron Gullies												
Flat of Upper Deck do. do. ... 4 4												
How fastened to Beams ... Screw bolts & nuts.												
Stringer Plate on ends of Main or Middle Deck } Beams, breadth and thickness 54 10 54 10												

IRON 474-0327



# Workmanship.

Are the butts of plating planed or otherwise fitted?

*Planed*

*19517 Iron*

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 *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, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit *Fore & main masts of Iron. Fore mast length extreme 80 feet, main mast 78 1/2 feet, diameter of each mast at the partners 25". Masts formed with three plates in the round 7/16 to 6/16 in thickness, ledges double riveted, and butts double and treble riveted. Makers of Iron Skerme Iron works.*

NUMBER for EQUIPMENT 22491		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	W'ght req'd per Rule.	Test req'd per Rule.	
N <sup>o</sup> .	SAILS.	CABLES, &c.		Chain	270 1 1/2 55 1/2 270-1 1/2 55 1/2 77 1/2	55 1/2 77 1/2	Bowers	1	30.2.1	29.0.3.21	30.0.0	28 1/2 20	
	Fore Sails,	Fore Top Sails,											
N <sup>o</sup> .	Fore Topmast Stay Sails	Main Sails,		Main Top Sails,	90 1 1/2 90-1 1/2 90-11 90-7	90-1 1/2 90-11 90-7	Stream	...	1	12.1.6	12.0.0	6.0.0	
	Fore Topmast Stay Sails	Main Sails,											
N <sup>o</sup> .	Main Sails,	Main Top Sails,		Main Top Sails,	90 1 1/2 90-1 1/2 90-11 90-7	90-1 1/2 90-11 90-7	Kedges	...	1	6.0.0	3.0.0	3.0.0	
	Main Sails,	Main Top Sails,											
and		quality Good.		quality Good.		quality Good.		quality Good.		quality Good.		quality Good.	

Standing and Running Rigging *Stays* sufficient in size and *Good* in quality. She has *Two* Long Boats and *Three* others.

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

Engine Room Skylights.—How constructed? *Iron Cornings wood tops and...* How secured in ordinary weather? *Bolted to angles.*

What arrangements for deadlights in bad weather? *Iron gratings and canvass covers.*

Coal Bunker Openings.—How constructed? *Iron Cornings* How are lids secured? *Hatch bars* Height above deck? *10 inches*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *Four ports each side besides mowing pipes*

Cargo Hatchways.—How formed? *Iron cornings and leaded ladders riveted together.*

State size Main Hatch *24 ft. x 14 ft.* Forehatch *12 ft. x 10 ft.* Quarterhatch *8 ft. x 6 ft. and 16 ft. x 11 ft.*

If of extraordinary size, state how framed and secured? *Ordinary size. Beams plated with Cornings & stringer with 7/16 plates.*

What arrangement for shifting beams? *Deep web plate in main hatchway, bulk in after hatchway & wood fore & afters in each hatchway*

Hatches, If strong and efficient? *Yes.*

Order for Special Survey No. <i>1165</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought	<i>1877 April 17. 20. 25. 28. May 1. 8. 11. 19. 25. 27.</i>
Date <i>6 Feb/1877</i>	2nd. On the plating during the process of riveting.	<i>June 4. 7. 11. 14. 18. 23. July 2. 5. 9. 12. 14. 18. 23.</i>
Order for Ordinary Survey No. <i>1166</i>	3rd. When the beams were in and fastened,	<i>28. Aug 1. 3. 10. 15. 24. 31.</i>