

# IRON SHIP.

1937  
Rec'd 29/10/79

No. 12440 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 Rigger Screw Steamer Petrarch Master Richard John

**TONNAGE** under } 1444.18  
Tonnage Deck }  
Ditto of Third, Spar, }  
on Awning Deck }  
Ditto of Poop, } 237.39  
Raised Quarter Deck }  
Ditto of Houses } 6.70  
on Deck }  
Ditto of Fore-castle } Hatches 4.65  
Gross Tonnage } 1692.92  
Less Crew Space } 58.72  
Less Engine Room } 337.4  
Register Tonnage } 1296.80  
as cut on Beam }

**ONE, OR TWO DECKED, THREE DECKED VESSEL.**  
**SPAR, OR AWNING DECKED VESSEL.**  
**HALF BREADTH** (moulded)... .. Feet. 16.10 1/2  
**DEPTH** from upper part of Keel to top of Upper Deck Beams 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 8<sup>th</sup> Sept/77  
By whom built J. Broadhead & Co.  
Owners M<sup>r</sup> & Andrew Ho-  
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.	Inches.	<b>BREADTH</b> — Moulded... ..	Feet.	Inches.	<b>DEPTH</b> top of Floors to Upper Deck Beams .....	Feet.	Inches.	Power of Engines ... ..	Horse.	N <sup>o</sup> . of Decks with flat laid <u>2</u> N <sup>o</sup> . of Tiers of Beams <u>3</u>
	<u>258</u>	<u>6</u>		<u>33</u>	<u>9</u>		<u>23</u>	<u>0</u>			

Dimensions of Ship per Register, length, 276 breadth, 34.2 depth, 22.6

	Inches in Ship.			Inches per Rule.		
	Inches. In Ship.	Inches. In Ship.	16ths. In Ship.	Inches per Rule	Inches per Rule	16ths per Rule
<b>KEE</b> depth and thickness ... ..	<u>9</u>	<u>2 1/2</u>		<u>9</u>	<u>2 1/2</u>	
<b>STEM</b> moulding and thickness... ..	<u>8 1/2</u>	<u>2 1/2</u>		<u>8 1/2</u>	<u>2 1/2</u>	
<b>STERN-POST</b> for Rudder do. do. ... ..	<u>10</u>	<u>4 1/2</u>		<u>8 1/2</u>	<u>5</u>	
for Propeller ... ..	<u>24</u>			<u>24</u>		
Distance of Frames from moulding edge to moulding edge, all fore and aft ... ..				(Class <u>1005A</u> )		
<b>FRAMES</b> , Angle Iron, for 3/4 length amidships ... ..	<u>4 1/2</u>	<u>3</u>	<u>8</u>	<u>4 1/2</u>	<u>3</u>	<u>8</u>
Do. for 1/2 at each end ... ..	<u>4 1/2</u>	<u>3</u>	<u>7</u>	<u>4 1/2</u>	<u>3</u>	<u>7</u>
<b>REVERSED FRAMES</b> , Angle Iron ... ..	<u>3</u>	<u>3</u>	<u>7</u>	<u>3</u>	<u>3</u>	<u>7</u>
<b>FLOORS</b> , depth and thickness of Floor Plate } at mid line for half length amidships ... ..	<u>22 1/2</u>	<u>x</u>	<u>9</u>	<u>22 1/2</u>	<u>x</u>	<u>9</u>
thickness at the ends of vessel ... ..			<u>7</u>			<u>7</u>
depth at 3/4 the half-bdth. as per Rule ... ..	<u>11 1/2</u>			<u>11 1/2</u>		
height extended at the Bilges... ..	<u>45</u>			<u>45</u>		
<b>BEAMS, Upper, Spar, or Awning Deck</b> } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }	<u>7</u>	<u>x</u>	<u>7</u>	<u>7</u>	<u>x</u>	<u>7</u>
Single or double Angle Iron on Upper edge ... ..	<u>3</u>	<u>3</u>	<u>6</u>	<u>3</u>	<u>3</u>	<u>6</u>
Average space... ..	<u>48</u>			<u>48</u>		
<b>BEAMS, Main, or Middle Deck</b> ... ..	<u>8</u>	<u>x</u>	<u>8</u>	<u>8</u>	<u>x</u>	<u>8</u>
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }	<u>3</u>	<u>3</u>	<u>6</u>	<u>3</u>	<u>3</u>	<u>6</u>
Single, or double Angle Iron, on Upper Edge ... ..	<u>48</u>			<u>48</u>		

	Inches. In Ship.	16ths. In Ship.	Inches. per Rule	16ths per Rule
<b>Flat Keel Plates, breadth and thickness</b> ... ..	<u>36</u>	<u>11</u>	<u>36</u>	<u>11</u>
<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 ... ..		<u>10</u>		<u>10</u>
fm up. part of Bilge to lr. edge of Sh'rstrake		<u>10</u>		<u>10</u>
<b>Main Sheerstrake, breadth and thickness</b> of d'bling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake.		<u>10</u>		<u>10</u>
Up. or Spar Dk Sh'rstrake, brdth & thickness	<u>40</u>	<u>12</u>	<u>40</u>	<u>12</u>
Butt Straps to outside plating, breadth & thickness	<u>11 1/2</u>	<u>16</u>	<u>11 1/2</u>	<u>16</u>
Lengths of Plating ... ..	<u>10 feet</u>		<u>10 feet</u>	
Shifts of Plating, and Stringers... ..	<u>4 feet</u>		<u>4 feet</u>	
Gunwale Plate on ends of Awning Spar, or Upper Deck Beams, breadth and thickness... ..	<u>54</u>	<u>9</u>	<u>54</u>	<u>9</u>
Angle Iron on ditto ... ..	<u>4 x 4</u>	<u>x 9</u>	<u>4 x 4</u>	<u>x 9</u>
Tie Plates fore and aft, outside Hatchways	<u>13</u>	<u>9</u>	<u>13</u>	<u>9</u>
Diagonal Tie Plates on Beams No. of Pairs,				
Plankshoer material and scantling ... ..				
Waterways do. do. ... ..				
Flat of Upper Deck do. do. ... ..	<u>4</u>		<u>4</u>	
How fastened to Beams ... ..				
Stringer Plate on ends of Main or Middle Deck	<u>54</u>	<u>10</u>	<u>54</u>	<u>10</u>
Beams, breadth and thickness				

Lloyd's Register  
Foundation

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 20 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, Edges double riveted, and butts double and treble riveted. Makers of Iron Skerme Iron works.*

NUMBER for EQUIPMENT <i>22491</i>		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			Bowers	1	30.2.1	29.0.3.21	30.0.0	28 12/20
	Fore Sails,	<i>270</i>	<i>1 1/2</i>	<i>5 5/8</i>	<i>270-1 1/2</i>	<i>5 5/8</i>		1	28.2.4	27.1.1.21	30.0.0	28 12/20
	Fore Top Sails,	<i>to breaking strain 77 1/2</i>				<i>77 1/2</i>		1	27.0.8	26.9.1.14	25.2.0	25 15/20
	Fore Topmast Stay Sails	<i>S. J. P. H. R. Durrell. Supt.</i>						<i>Date of certificates 26.7.77.</i>				
	Main Sails,	<i>90</i>	<i>1 1/2</i>		<i>90-1 1/2</i>		Stream	...	1	12.1.6		12.0.0
	Main Top Sails,	<i>30</i>	<i>11</i>		<i>90-11</i>		Kedges	...	1	6.0.0		6.0.0
	and Rigging Wire	<i>120</i>	<i>6</i>		<i>90-7</i>			...	1	3.1.7		3.0.0
	Standing and Running Rigging	<i>30</i>	<i>4</i>									
		<i>30</i>	<i>3 1/2</i>									

The Windlass is *Good* Capstan *Good* and Rudder *Good* Pumps *Good* She has *Two Long Boats and three others.*

Engine Room Skylights.—How constructed? *Iron Cornings wood tops and sides slanted* 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 mooring pipes*

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

State size Main Hatch *26 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, built in after Hatchway & wood fore afters in each Hatchway*

Hatches, If strong and efficient? *Yes.*

Order for Special Survey No. *1155* Date *6 Feb 1907* Surveys building section 18: 1st. On the several parts of the frame, when in place, and before the plating was wrought) *1877 April 17, 20, 25, 28, May 1, 8, 11, 19, 25, 31.* 2nd. On the plating during the process of riveting, *June 4, 7, 11, 14, 18, 23, July 25, 9, 12, 13, 20, 22.* 3rd. When the beams were in and fastened, *28, Aug 1, 3, 10, 15, 24, 31.*

Order for Ordinary Survey No. *1155* Date *6 Feb 1907* Surveys building section 18: 1st. On the several parts of the frame, when in place, and before the plating was wrought) *1877 April 17, 20, 25, 28, May 1, 8, 11, 19, 25, 31.* 2nd. On the plating during the process of riveting, *June 4, 7, 11, 14, 18, 23, July 25, 9, 12, 13, 20, 22.* 3rd. When the beams were in and fastened, *28, Aug 1, 3, 10, 15, 24, 31.*