

# IRONSHIP.

Rev 3/6/73

No. 127 Survey held at South Shields Date, First Survey 30<sup>th</sup> Sept 72 Last Survey 16<sup>th</sup> May 1873

On the S.S. "Alcayar" See Memo annexed Yard Number 93 Master O. Robinson

TONNAGE under }  
Tonnage Deck } 468.21  
Ditto of Third, Spar, }  
or Awning Deck. }  
Ditto of Poop, or }  
Raised Or. Dk. }  
Ditto of Houses }  
on Deck. } 2.86  
Ditto of Forecastle }  
Gross Tonnage } 471.07  
Less Crew Space } 24.71  
Less Engine Room } 150.76  
Register Tonnage }  
as cut on Beam } 295.62

ONE, OR TWO DECKED, THREE DECKED VESSEL.  
SPAR, OR AWNING-DECKED VESSEL.  
HALF BREADTH (moulded)... 12.6  
DEPTH from upper part of Keel to top of Upper Deck Beams 16.4  
GIRTH of Half Midship Frame (as per Rule) 25.6  
1st NUMBER 54.3  
1st NUMBER, if a THREE DECKED VESSEL  
deduct 7 feet 173.25  
LENGTH 240.7  
2nd NUMBER 240.7  
PROPORTIONS—Breadths to Length 6.9  
Depths to Length—Upper Deck to Keel 10.6  
Main Deck ditto

Built at South Shields  
When built 1872/73 Launched 21<sup>st</sup> April 73.  
By whom built J. Headhead & Co.  
Owners O. Robinson  
Port belonging to London  
Destined Voyage Dublin  
If Surveyed while Building, Afloat, or in Dry Dock.  
While building and afloat.

LENGTH on deck as per Rule 173 3 BREADTH—Moulded 25 0 DEPTH top of Floors to Upper Deck Beams 15 0 2 Power of Engines 65 No. of Decks with flat laid One No. of Tiers of Beams One

Dimensions of Ship per Register, length, 175 breadth, 24.8 depth, 14.9

KEI	depth and thickness	Inches in Ship.	Inches per Rule.
STE	moulding and thickness...	7 1/2 x 2 1/2	7 1/2 x 2 1/2
S	POST for Rudder do. do.	7 1/2 x 2	6 3/4 x 2 1/2
	for Propeller	7 1/2 x 4 1/2	6 3/4 x 4 1/2
	of Frames from moulding edge to edge, all fore and aft	22 1/2	22 1/2
	Angle Iron, for 1/2 length amidships at each end	3 1/2 x 3	3 1/2 x 3
	FRAMES, Angle Iron	3 1/2 x 3	3 1/2 x 3
	depth and thickness of Floor Plate	2 1/2 x 2 1/2	2 1/2 x 2 1/2
	line for half length amidships	15 1/2 x 6	15 1/2 x 6
	thickness at the ends of vessel	5	5
	both at 1/4 the half-bdth. as per Rule	2	7 1/2
	light extended at the Bilges...	31	31
	per, Spar, or Awning Deck	6 x 7	6 x 6
	Ang. Iron, Plate or Tee Bulb Iron	3 1/2 x 3 1/2	3 1/2 x 3 1/2
	able Angle Iron on Upper edge	4 1/2 x 5	4 1/2 x 5
	ce...	4 1/2	4 1/2
	or Middle Deck		
	Ang. Iron, Plate or Tee Bulb Iron		
	Angle Iron, on Upper Edge		
	BEAMS, Lower Deck, Hold or Orlop		
	Single or double Ang. Iron, Plate or Tee Bulb Iron		
	Single or double Angle Iron on Upper Edge		
	Average space...	4 1/2	4 1/2
	KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates	12 1/2 x 9	11 1/2 x 9
	" Rider Plate	7 x 7	7 x 7
	" Bulb Plate to Intercoastal Keelson	4 x 3	4 x 3
	" Angle Irons	4 x 3	4 x 3
	" Double Angle Iron Side Keelson		
	" Side Intercoastal Plate		
	" do. Angle Irons		
	" Attached to outside plating with angle iron		
	BILGE Angle Irons	4 x 3	4 x 3
	" do. Bulb Iron	6 x 6	
	" do. Intercoastal plates riveted to plating for length		
	BILGE STRINGER Angle Irons	4 x 3	4 x 3
	Intercoastal plates riveted to plating for length		
	SIDE STRINGER Angle Irons		

Flat Keel Plates, breadth and thickness ...  
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied ...  
fm up. part of Bilge to Ir. 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  
Butt Straps to outside plating, breadth & thickness  
Lengths of Plating ...  
Shifts of Plating, and Stringers...  
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness...  
Angle Iron on ditto ...  
Tie Plates fore and aft, outside Hatchways  
Diagonal Tie Plates on Beams No. of Pairs,  
Planksheer material and scantling ...  
Waterways do. do. Iron Cutter  
Flat of Upper Deck do. do. Yellow Pine...  
How fastened to Beams ...  
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness ...  
Is the Stringer Plate attached to the outside plating?  
Angle Irons on ditto, No. ...  
Tie Plates, outside Hatchways ...  
Diagonal Tie Plates on Beams, No. of pairs  
Waterways materials and scantlings ...  
Flat of Middle Deck do. do. ...  
How fastened to Beams ...  
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ...  
Is the Stringer Plate attached to the outside plating? Yes  
Angle Irons on ditto, No. 2 ...  
Stringer or Tie Plates, outside Hatchways ...  
Flat of Lower Deck ...  
Ceiling between Decks, thickness and material ...  
in hold do. B. Pine do. ...  
Main piece of Rudder, diameter at head ...  
do. at heel ...  
Can the Rudder be unshipped afloat? Yes  
Bulkheads No. 4 Thickness of 5  
Height up 3 1/2 upper deck after one to Cabin sole with iron deck  
How secured to sides of ship By double frames & brackets  
Size of Vertical Angle Irons 3 x 2 1/2 x 5/16 and distance apart 30 ins.  
Are the outside Plates doubled two spaces of Frames in length? Yes

Transoms, material. Knight-heads. Hawse Timbers. Iron

Windlass Harfield's Patent Pall Bitt

The FRAMES extend in one length from Keel to Gunwale Riveted through plates with 3/4 in. Rivets, about 6" apart.

The REVERSED ANGLE IRONS on floors and frames extend across from middle line to Upper turn 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 1 in. diameter, averaging 5 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 1/2 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/2 ins. from centre to centre.

Butts of one 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 3/4 in. diameter, averaging 3 1/2 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 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 whole length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships.

Butts of Main Stringer Plate, treble riveted for length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for the whole length.

Breadth of laps of plating in double riveting 4 1/2 Breadth of laps of plating in single riveting 2 1/2

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

Waterway, how secured to Beams Iron Cutter (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? Welded knees riveted to frames No. of Breasthooks, 4 Crutches, 4

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

Manufacturer's name or trade mark, Tyack's Ironworks, South Shields. Floors Vaughan Bishop & Co. and Shell

The above is a correct description.

Builder's Signature, J. H. Cook Surveyor's Signature, J. H. Cook



Workmanship. Are the butts of plating planed or otherwise fitted? Planed  
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? Solid single pieces  
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 of wood 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

11407 Ln

date of contract 19 Feb 1872  
see letters attached 4/6/72

NUMBER for EQUIPMENT <u>2467</u>		Fathoms.	Inches.	Test per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	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.	210		1 1/2	22.15.0.0	1 1/2	22 1/2					
	Fore Sails,	Lloyd's Type		P. H. H. Burrell		Supt						
	Fore Top Sails,	Date 11 Decr. 1872.										
	Fore Topmast Stay Sails	Hempen Stream										
	Main Sails,	Cable		60		1 3/4						
	Main Top Sails,	Hawser		60		9						
and	Shipping Wire	Towlines		90		4 1/2						
	Standing and Running Rigging	Warp		180		3 1/2						
		quality <u>good</u>										

Standing and Running Rigging Hemp sufficient in size and good in quality. She has 1 Life Long Boat and One Minace

The Windlass is Good Capstan — and Rudder Good Pumps Good

Engine Room Skylights.—How constructed? Iron Comings & Wood Tops How secured in ordinary weather? Bolted to Angles

What arrangements for deadlights in bad weather? Solid shutters and bulls eyes

Coal Bunker Openings.—How constructed? Wood Comings How are lids secured? By clasp bars Height above deck? 11 inches

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

Cargo Hatchways.—How formed? Iron Comings and half beams.

State size Main Hatch 18 feet 6" x 8 feet Forehatch 7 ft 6" x 6 feet Quarterhatch 14 ft 8" x 8 feet.

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

What arrangement for shifting beams? Iron shifting beams & wood fore & afters.

Hatches, If strong and efficient? Yes.

Order for Special Survey No. <u>226</u> DATES of	1st. On the several parts of the frame, when in place, and before the plating was wrought	Built under Special Survey
Date <u>20 Sep 1872</u> Surveys held	2nd. On the plating during the progress of riveting	
Order for Ordinary Survey No. <u>—</u> while building	3rd. When the beams were in and fastened, and before the decks were laid	
Date <u>—</u> as per	4th. When the ship was complete, and before the plating was finally coated or cemented	
No. <u>93</u> in builder's yard. Section 18.	5th. After the ship was launched and equipped	

#### General Remarks,

This is a two decked vessel built in accordance with midship section herewith attached. She is fitted with water ballast tanks before and abaft the Engine Room of the united lengths of 84 ft 6" top plates 5/16 and flange plates 3/16 thick.

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.

How are the surfaces preserved from oxidation? Inside Cement and Paint Outside Paint

I am of opinion this Vessel should be Classed GOAL

The amount of the Entry Fee ... £ 5: 0: is received by me,

Special ... £ 22: 6: Certificate ...

(Travelling Expenses)  
(if any) £ —

Committee's Minute 10 June 1872

Character assigned GOA — GOA

J. H. Cooke  
Surveyor  
10 June 1872

This vessel appears to be slightly over classed GOA — but having been constructed prior to June 72, the change is not apparent to have been classed in accordance with the new regulations for the year 1872.

Lloyd's Register  
Foundation