

IRON SHIP.

No. 11494 Survey held at Sunderland Date, First Survey October 11th 1875 Last Survey 26th Sep^r

On the Iron Ship "Dawn" pro tem

Master ✓

TONNAGE under }
including } 504.47
Deck }
Breadth of Keel, }
Awning Deck }
Ditto of Poop, or }
Raised Qr. Dk. }
Ditto of Houses } 17.62
on Deck }
Ditto of Forecastle }
Gross Tonnage } 522.09
Less Crew Space } 26.57
Less Engine Room } 193.64
Register Tonnage } 328.45
as cut in Beam }

ONE, OR TWO DECKED, THREE DECKED VESSEL.
SPAR, OR AWNING-DECKED VESSEL.
Feet.
HALF BREADTH (moulded)... .. 11.91
DEPTH from upper part of Keel to top of Upper Deck Beams 13.50
GIRTH of Half Midship Frame (as per Rule) 23.08
1st NUMBER 48.49
1st NUMBER, if a THREE-DECKED VESSEL
[deduct 7 feet]
LENGTH 148.0
2nd NUMBER 7176
PROPORTIONS—Breadths to Length under 652
Depths to Length—Upper Deck to Keel under
Main Deck ditto under 1182

Built at Sunderland
When built 1876. Launched May
By whom built Wm. Pile and Co.
Owners Pile & Co. 34 St. Thomas St. London
Port belonging to London
Destined Voyage China trade
and
* Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on deck as per Rule ... 148 0 Breadth—Moulded... .. 23 11 DEPTH top of Floors to Upper Deck Beams 18 5 Power of Engines 75 H.P. No. of Decks with flat laid Two No. of Tiers of Beams Two
Dimensions of Ship per Register, length, 156.0 breadth, 24.0 depth, 18.4

KEEL, depth and thickness 7 x 1 1/2
STEM, moulding and thickness... .. 6 1/2 x 1 1/2
STERN-POST for Rudder do. do. 6 1/4 x 3 1/4
for Propeller 6 1/4 x 3 1/4
Distance of Frames from moulding edge to moulding edge, all fore and aft 21
FRAMES, Angle Iron, for 1/2 length amidships 3 3 6
Do. for 1/2 at each end 3 3 5
EVERSED FRAMES, Angle Iron 2 1/2 2 1/2 5
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships 13 1/2 7.6
thickness at the ends of vessel 5
depth at 1/2 the half-bdth. as per Rule 6 3/4
height extended at the Bilges... .. twice amidship depth minus 1 1/2
BEAMS, Upper, Spar, or Awning Deck }
Single or double Ang. Iron, Plate or Tee Bulb Iron } 4 3 6
Angle or double Angle Iron on Upper edge alternate frames
Average space... .. 6 3 1/2 8
BEAMS, Main, or Middle Deck }
Single or double Ang. Iron, Plate or Tee Bulb Iron } 6 3 1/2 8
Angle, or double Angle Iron, on Upper Edge alternate frames
Average space... .. 6 3 1/2 8
BEAMS, Lower Deck, Hold, or Orlop }
Single or double Ang. Iron, Plate or Tee Bulb Iron } 3 3 6
Average space... .. 5 1/2 5
KEELSONS Centre line, single or double plate, box, or intercostal, Plates 10 8
Rider Plate 7 8
Bulb Plate to Intercostal Keelson 3 3 6
Angle Irons 3 3 6
Double Angle Iron Side Keelson 3 3 6
Side Intercostal Plate 3 3 6
do. Angle Irons 3 3 6
Attached to outside plating with angle iron 3 3 6
BILGE Angle Irons 3 3 6
do. Bulb Iron... .. 5 1/2 5
do. Intercostal plates riveted to plating for length... .. Nil
BILGE STRINGER Angle Irons 3 3 6
Intercostal plates riveted to plating for length... .. 3 3 6
SIDE STRINGER Angle Irons 3 3 6
Bulb Iron for 1/5 length 5 1/2 5
Transoms, material. Knight-heads. Hawse Timbers. ass "Harfield's" Patent P.M. & Co. Secured to Iron plates

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 l. edge of Sh'rstrake
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upper or Spar Dk. Sh'rstrake.
Up. or Spar Dk Sh'rstrake, brdth & thickns
Butt Straps to outside plating, breadth & thickness 9 1/4 10.5 8.9 1/4 10.5
Lengths of Plating Six spaces of frames
Shifts of Plating, and Stringers... .. four spaces of frames
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness... .. 20 6 20 6
Angle Iron on ditto 3.3.6 3.3.6
Tie Plates fore and aft, outside Hatchways 8 6 8 6
Diagonal Tie Plates on Beams No. of Pairs, Planksheer material and scantling 9 x 6 1/2
Waterways do. do. 2 1/2 7.6 2 1/2
Flat of Upper Deck do. do. Iron nut & Screw Bolts
How fastened to Beams 32 7 32 7
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness yes
Is the Stringer Plate attached to the outside plating?
Angle Irons on ditto, No. Two 3.3.6 3.3.
Tie Plates, outside Hatchways 8 7 8
Diagonal Tie Plates on Beams, No. of pairs Waterways materials and scantlings 3 7.6 3
Flat of Middle Deck do. do. Iron nut and Screw Bolts
How fastened to Beams 32 7 32 7
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams Is the Stringer Plate attached to the outside plating?
Angle Irons on ditto, No. 3 7.6 3
Stringer or Tie Plates, outside Hatchways 2 1/2 7.6 2 1/2
Flat of Lower Deck 3 7.6 3
Ceiling betwixt Decks, thickness and material in hold do. do. 2 1/2 7.6 2 1/2
Main piece of Rudder, diameter at head 3 3/4
do. at heel 2 1/4
Can the Rudder be unshipped afloat? yes
Bulkheads No. 4 Thickness of 4 1/2
Height up Main Deck
How secured to sides of ship between double frames
Size of Vertical Angle Irons 2 1/2 2 1/2 5 1/2 and distance apart 30 ins.
Are the outside Plates doubled two spaces of Frames in length? yes

FRAMES extend in one length from Keel to Awning Deck Riveted through plates with 3/4 in. Rivets, about 6 apart.
The REVERSED ANGLE IRONS on floors and frames extend from middle line to Main Dk and Awning Dk from 1/2 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 1/4 ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 1/4 ins. from centre to centre.
Butts of one Strakes at Bilge for half length, double 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 1/4 ins. from cr. to
Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to
Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.
Butts of Main Sheerstrake, double riveted for whole length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships
Butts of Main Stringer Plate, double riveted for whole length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 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 and treble
Awning Deck }
Waterway, how secured to Beams } vertical nut & Screw Bolt Explain by Sketch, if necessary.)
Beams of the various Decks, how secured to the sides? Brackets, Treble, riveted to Dk. & P. No. of Breasthooks, 4
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? all plates from J. Langham and Co
Manufacturer's name or trade mark, all angles and Bulbs Stockton Mall
The above is a correct description.
Builder's Signature, J. Pile Rev Surveyor's Signature, J. Pile Rev
Surveyor to Lloyd's Register

October 18th 1846
 20A
 480P
 size Dk & evening Dk