

IRON SHIPS.

4350

No. 9759 Survey held at Newcastle Date 12th July to 4th November 1865
 in the "Berrington" Master J R Bradley
 Tonnage under tonnage deck 614.50 Built at Newcastle When built 1865 Launched 3rd September
 Ditto of poop or spar deck 14.04
 Ditto of engine room 140.92 By whom built Palmer & Co Owners H. S. Morton
 Total Register tonnage 487.70
 Gross Tonnage 620.62 Port belonging to Sunderland Destined Voyage London
 Surveyed while Building, Afloat, or in Dry Dock While building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.	N ^o . of Decks
100.7			20			17.03			90		1
(Dimensions of Ship per Register, length 100.7 breadth 20 depth 17.03)											
Keel, if bar iron, depth and thickness.....	Inches in Ship.		Inches required per Rule.		Inches in Ship.		Inches required per Rule.		Plates in Garboard Strakes, breadth and thickness.....		
„ if plate iron, breadth and thickness....	7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		36 9/16 30 9/16		
Stem, if bar iron, moulding and thickness....	7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		Ditto from Garboard to upper part of Bilges..		
„ if plate iron, breadth and thickness....	7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		8/16 8/16		
Stern-post, if bar iron, moulding and thickness	9 x 4 1/2		7 x 5 1/2		7 x 5 1/2		7 x 5 1/2		„ from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold.....		
„ if plate iron, breadth and thickness	9 x 4 1/2		7 x 5 1/2		7 x 5 1/2		7 x 5 1/2		7/16 7/16		
Distance of Frames from moulding edge to moulding edge, all fore and aft.....	21		21		21		21		„ from 3/4ths depth of Hold to lower edge of Sheerstrake.....		
Frames, Size of Angle Iron, single or double..	4 3 7/16		4 3 7/16		4 3 7/16		4 3 7/16		42 7/16 30 7/16		
„ „ Reversed Iron, to every frame or every frame.....	3 3 6/16		3 2 3/4 6/16		3 2 3/4 6/16		3 2 3/4 6/16		„ Sheerstrake, breadth and thickness....		
Floors, depth and thickness of Floor Plate at mid line.....	18 7/16		18 7/16		18 7/16		18 7/16		9 x 9/16 to 7/16		
„ Ditto ditto at Bilge Keelson	6		6		6		6		Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness..		
„ Size of Reversed Angle Iron, and No. 1 at top of Floor Plate	3 3 6/16		3 2 3/4 6/16		3 2 3/4 6/16		3 2 3/4 6/16		21 7/16 25 1/2 8/16		
Beams, Deck (N ^o . 42) double Angle Iron, Plate, Tee, or Bulb Iron.....	7 7/16		7 7/16		7 7/16		7 7/16		Angle Iron on ditto.....		
„ „ double or single Angle Iron, on top edge.....	2 1/2 2 1/2 6/16		2 1/2 2 1/2 5/16		2 1/2 2 1/2 5/16		2 1/2 2 1/2 5/16		4 1/2 x 3 1/2 x 7/16 4 1/2 x 3 1/2 x 7/16		
„ „ average space between.....	3 feet 6 inches		3 feet 6 inches		3 feet 6 inches		3 feet 6 inches		Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways..		
„ Hold, or Lower Deck (N ^o . 33) double Angle, Tee, Plate, or Bulb Iron	7 7/16		7 7/16		7 7/16		7 7/16		12 7/16 10 1/2 8/16		
„ „ double or single Angle Iron, on top edge.....	2 1/2 2 1/2 6/16		2 1/2 2 1/2 5/16		2 1/2 2 1/2 5/16		2 1/2 2 1/2 5/16		Diagonal Tie Plates on ditto.....		
„ „ average space between.....	2 1/2 x 4 1/2 frame		2 1/2 x 4 1/2 frame		2 1/2 x 4 1/2 frame		2 1/2 x 4 1/2 frame		12 7/16 10 1/2 8/16		
„ Paddle, sided and moulded, thickness of Plate size of Angle Iron	24 7/16		23 7/16		23 7/16		23 7/16		Planksheer, materials and scantlings.....		
„ Engine „ „ „ „	14 7/16		14 7/16		14 7/16		14 7/16		Waterway ditto ditto.....		
Keelson, single or double plate, box, or intercostal	4 3 3/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		12 x 8 x 6 Red Pine		
„ Size of Plates top of floor	4 3 3/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		Flat of Upper Deck, thickness and material..		
„ Size of Angle Irons.....	4 3 3/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		3 1/2 Yellow Pine		
„ Side, single or double, plate, box, or intercostal	4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		„ „ how fastened to Beams..		
„ Bilge (No. 2) at each Bilge, single, or double, plate, or box.....	4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		Must be crew bolts		

Transoms, material Plate or, if none, in what manner compensated for.
 Knight-heads, and Hawse Timbers See h. blocks
 The Frames extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (5 1/2) apart
 The reverse angle irons on the floors extend in one length across the middle line from at double bottom to bilges, and
 „ „ „ on the frames „ from thence to hold beam stringer & alternate frames to deck,

Keelson, how are the various lengths of plates or angle irons connected? by Butt Straps
 Plates, Garboard, double or rivetted to keel, double or and at upper edge, with rivets (1 x 3/4 ins.) diameter, averaging (3 1/2 ins.) apart.
 „ Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.
 „ Butts from Keel to turn of bilge, worked carvel with butt straps (9/16 to 7/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. Do the butt straps lap over and rivet through the lands of the strake below? No
 „ Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? No
 „ Edges of Sheerstrake, double or single rivetted? At upper edge single At lower edge double
 „ Butts from bilge to planksheers, worked carvel with butt straps (9/16 x 7/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. Breadth of laps in double rivetting (4/4) Breadth of laps in single rivetting (2 3/4)
 Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? double rivetted
 Planksheer, how secured to the plating of the sides { Explain by sketch } Bolted to stringer & outside plating
 Waterway „ „ planksheer and to the Beams { if necessary. }
 Deck Beams, how secured to the side? Bracket ends rivetted to frames
 Hold or Lower Deck ditto do
 Paddle „ „ „ „ No. of breasthooks 5 crutches 4
 What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? Plate & angle iron marked Palmer's Best
 Manufacturer's name or trade mark Palmer's Best
 We certify that the above is a correct description of the several particulars therein given.
 Builder's Signature For Palmer's Limited Surveyor's Signature W. C. Celand

IRON 438-0511

