

IRON SHIPS.

Rev 6/5/10

No. 1949 Survey held at Belfast Date, first Survey 3rd Dec^r 1879 - Last Survey 19th April 1870
 on the Iron Screw Steam Barge Marion Master Walter Lomas

Tonnage under Tonnage Deck	106.50	ONE, OR TWO DECKED VESSELS.	THREE DECKED VESSELS.
Depth of Spar Deck, or Awning Deck		Half moulded breadth	Half Moulded Breadth
Ditto of Poop, or Raised Qr. Dk.		Depth from upper part of Keel to top of Upper Deck Beams	Total Depth if three or more Decks
Ditto of Houses on Deck		Girth of Half Midship Frame	Total Girth of Half Midship Frame
Ditto of Forecastle		1st Number	3rd Number
Gross Tonnage		Length	Length
Space, as per Rule			
Register Tonnage, out on Beam		2nd Number	4th Number
Engine Room	57.19	Depths to Length	Breadths to Length
Register Tonnage, as a Steamer, cut on the Beam	49.31		

Built at Belfast
 When built 1870 Launched 15th April 1870
 By whom built W. Swanwick and Lewis
 Owners Otto Pohl
 Port belonging to Liverpool
 Destined Voyage fasting
 Surveyed while Building Afloat, or in Dry Dock

Length on deck per Rule, 84 Feet. 8 Inches. Moulded Breadth, 20 Feet. 7 Inches. Depth from top of Keel to Deck Beam, as per Rule, 10 Feet. 7 Inches. Power of Engines, 30 Horse. N^o. of Decks, One. N^o. of Tiers of Beams, Two.

Dimensions of Ship per Register, length, 85ft breadth 20.5ft depth, 9.3ft

	Inches in Ship.			Inches required per Rule.		
	Inches.	16ths.	Inches.	Inches.	16ths.	Inches.
Keel, if bar iron, depth and thickness						
Do. if centre through plate, depth and thickness						
Stem, if bar iron, moulding and thickness	5	2	6	1/2		
Stern-post do. do. do.	6	3	6	3		
Distance of Frames from moulding edge to moulding edge, all fore and aft	21		21			
Frames, size of Angle Iron, for 2/3 length amidships	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Do. for 1/3 at each end	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Reversed Frames, size of Angle Iron	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
Keelsons, depth and thickness of Floor Plate at mid line for half the length amidships	12	6	12	5	6	5
Do. at the ends	12	6	12	5	6	5
Do. do. do. at Bilge Keelson	11	6	11	5	6	5
Do. height extended at the Bilges	24		24			
Beams, Three Decked, Spar, or Awning Decked (No.) single or double Angle Iron, Plate or Tee Bulb Iron						
Single or double Angle Iron on Upper edge						
Average space						
Beams, Upper or Middle Deck (No.) single, or double Angle Iron, Plate or Tee Bulb Iron	5	3	5	3	7	5
Single, or double Angle Iron, on Upper Edge						
Average space	42		42			
Beams, Lower Deck or Orlop (No.) single or double Angle Iron, Plate or Tee Bulb Iron						
Single or double Angle Iron on Upper Edge						
Average space						
Keelson Centre line, single or double plate, or Intercostal, size of Plates	20	7	20	7		
Do. Bulb Plate to Intercostal Keelson						
Do. Size of Angle Irons	3	3	3	3	7	3
Do. Side Intercostal Keelson, size of Plates	2 1/2	2 1/2	2 1/2	2 1/2	6	2 1/2
Do. Angle Irons on tops of Floors						
Do. Bilge Keelson, Bulb Iron						
Do. Side Intercostal Angle Irons	3	3	3	3	6	3
Do. Side Stringers (No.) size of	3	3	3	3	6	3
Double Angle Irons						

	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths. required per Rule.
Flat Keel Plates, breadth and thickness	36	9	24	7 1/2
Plates in Garboard Strakes, breadth and thickness				
Do. from Garboard to upper part of Bilges		6		6
Do. of doubling at Bilge, or increased thickness, and length applied				
Do. from upper part of Bilge to lower edge of Sheerstrake		5		5
Do. Sheerstrake, breadth and thickness	39	6	24	6
Do. of doubling at Sheerstrake, and length applied				
Butt Straps to outside plating, breadth and thickness	8	3	6	6
Lengths of Plating	10	6	8	9
Shifts of Plating, and Stringers	42		42	
Gunwale Plate on ends of Awning, or Spar 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.				
Flat of Deck do. do.				
How fastened to Beams				
Stringer Plate on ends of Upper or Middle Deck Beams, breadth and thickness	18	5	18	5
Angle Irons on ditto (No.)	3	3	3	3
Tie Plates, outside Hatchways	13	5	7	5
Diagonal Tie Plates on Beams (No. of pairs,)				
Waterways materials and scantlings				
Flat of Deck do. do.				
How fastened to Beams				
Stringer Plates on ends of Lower Deck or Orlop Beams				
Angle Irons on ditto (No.)				
Stringer or Tie Plates, outside Hatchways				
Flat of Deck				
Ceiling betwixt Decks, thickness and material				
Do. in hold	2			
Clamps or Spirketting				
Main piece of Rudder, diameter at head	3		3	
Do. do. at heel	2		2	
(Can the Rudder be unshipped afloat?)				
Bulkheads No. 5 Thickness of		4	4	
Do. Height up four bilge keels and one to keelson				
Do. How secured to the sides of the ship				
Do. Size of Vertical Angle Irons and their distance apart				
Do. Are the outside Plates doubled two spaces of Frames in length?				Yes

Transoms, material Iron or, if none, in what manner compensated for.
 Knight-heads Iron Hawse Timbers Iron and Wood Chocks
 Windlass Iron Pall Bitt None required

The Frames extend in one length from Steel to Gunwale Riveted through plates with (3/8 in.) Rivets, about 5 in. apart.
 Reverse Angle Irons on the floors extend across the middle line to the upper part of the Bilges.

On all the Frames and in one length to the said heights.

Keelsons. Are the various lengths of Plates and Angle Irons properly connected? Yes. And are their butts properly shifted? Yes.
 Plates, Steel, double or Bottom Plating Riveted to Keel, double or at upper edge, with Rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre.
 Do. Edges from Garboard to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/8 in.) diameter, averaging (2 1/2 ins.) from centre to centre.
 Do. Butts from Keel to turn of Bilge, worked carvel with butt straps 3/16 thick, double or single Riveted; with Rivets (3/8 in.) diameter averaging (3 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? No!
 Edges of Sheerstrake, double or single Riveted. At upper edge single through angle iron and At lower edge Double.
 Butts from Bilge to Planksheer, worked Carvel with Butt Straps 3/16 thick, double or single Riveted; with Rivets (3/8 in.) diameter, averaging (2 1/2 ins.) from centre to centre. Breadth of laps in double Riveting (3 1/2 ins.) Breadth of laps in single Riveting (2 1/4)
 Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? All double riveted

Planksheer, how secured to the plating of the sides, { Explain by Sketch, } Cutter Waterway and Iron Bulwarks.
 Waterway " " planksheer and to the Beams, { if necessary. }
 Beams of the various Decks, how secured to the sides? By bracket Plates well riveted No. of Breasthooks, Three Crutches, Two.
 What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Any iron of the Blocharius brand
 Manufacturer's name or trade mark, Blochairs

We certify that the above is a correct description of the several particulars therein given.
 Builder's Signature, Wm. Swanwick & Lewis Surveyor's Signature, Wm. Swanwick & Lewis

1120 N 46 - 015



