

IRON SHIP.

No. 3851 Survey held at Middlesbrough. Date, First Survey 6 April Last Survey 18 July 1877

On the Sailing Schooner "Emmie" Master D. Roberts

TONNAGE under Tonnage Deck } 119.39
 Ditto of Third, Spar, or Awning Deck } 1.28
 Ditto of Poop, or Reversed Cr. Dk. } 9.25
 Ditto of Houses on Deck } 9.25
 Ditto of Forecabin } 129.92
 Gross Tonnage } 9.61
 Less Crew Spaces } 120 3/100
 Less Engine Room } 120 3/100
 Register Tonnage as cut on Beam } 120 3/100

ONE, OR TWO DECKED, THREE DECKED VESSEL.
 SPAR, OR AWNING-DECKED VESSEL.
HALF BREADTH (moulded) 11.0 Feet.
DEPTH from upper part of Keel to top of Upper Deck Beams 9.7
GIRTH of Half Midship Frame (as per Rule) 18 3/4
1st NUMBER
1st NUMBER, if a **THREE-DECKED VESSEL**
LENGTH 87
2nd NUMBER 3393.0
PROPORTIONS—Breadths to Length 3.9
 Depths to Length—Upper Deck to Keel 8.9
 Main Deck ditto

Built at Middlesbrough
 When built 1877 Launched 16 July 1877
 By whom built Craggs & Sons
 Owners Jerveland & Clepham
 Port belonging to Middlesbrough
 Destined Voyage Baltic
 If Surveyed while Building, Afloat, or in Dry Dock. while building - also afloat.

PLANS CASE

LENGTH on deck as per Rule ... 87 Feet. 0 Inches. **BREADTH** Moulded ... 22 Feet. 0 Inches. **DEPTH** top of Floors to Upper Deck Beams ... 8 Feet. 8 1/2 Inches. Power of Engines ... 1 Horse. No. of Decks with flat laid one. No. of Tiers of Beams one.

Dimensions of Ship per Register, length, 89-4 breadth, 22.15 depth, 8.45

	Inches in Ship.		Inches per Rule.	
	In Ship.	16ths.	Inches per Rule.	16ths.
KEEL , depth and thickness	6 x 1 3/16	5/16	6 x 1 1/8	5/16
STEM , moulding and thickness	6 x 1 3/16	5/16	5 1/2 x 1 1/8	5/16
STERN-POST for Rudder do. do.	6 x 1 1/4	5/16	5 1/2 x 1 1/8	5/16
Distance of Frames from moulding edge to moulding edge, all fore and aft	20 (Class 100A.1)			
FRAMES , Angle Iron, for 2/3 length amidships	3	2 1/2	3	2 1/2
Do. for 1/3 at each end	3	2 1/2	3	2 1/2
REVERSED FRAMES , Angle Iron	2 1/2	2 1/2	2 1/2	2 1/2
FLOORS , depth and thickness of Floor Plate at mid line for half length amidships	12	5/16	12	5/16
thickness at the ends of vessel	6	5/16	6	5/16
depth at 1/2 the half-bdth. as per Rule	24	5/16	24	5/16
height extended at the Bilges	5 1/2	3	5 1/2	3
BEAMS, Upper, Spar, or Awning Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	5 1/2	3	5 1/2	3
Single or double Angle Iron on Upper edge	alternate frames alternate frames			
Average space	alternate frames alternate frames			
BEAMS, Main, or Middle Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	5 1/2	3	5 1/2	3
Single or double Angle Iron on Upper Edge	alternate frames alternate frames			
Average space	alternate frames alternate frames			
BEAMS, Lower Deck, Hold, or Orlop Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	5 1/2	3	5 1/2	3
Single or double Angle Iron on Upper Edge	alternate frames alternate frames			
Average space	alternate frames alternate frames			
KEELSONS Centre line, single or double plate, box, or Intercostal, Plates	8	6/16	7 1/2	6/16
" Rider Plate	6 1/2	6/16	6 1/2	6/16
" Bulb Plate to Intercostal Keelson	3	3	3	3
" Angle Irons	3	3	3	3
" Double Angle Iron Side Keelson	3	3	3	3
" Side Intercostal Plate	3	3	3	3
" do. Angle Irons	3	3	3	3
" Attached to outside plating with angle iron	3	3	3	3
BILGE Angle Irons	3	3	3	3
do. Bulb Iron	3	3	3	3
do. Intercostal plates riveted to plating for length	3	3	3	3
BILGE STRINGER Angle Irons	3	3	3	3
Intercostal plates riveted to plating for length	3	3	3	3
SIDE STRINGER Angle Irons	3	3	3	3
Transoms, material. Knight-heads. Hawse Timbers.	iron			
Windlass	teak			
Pall Bitt	teak			

	Inches in Ship.	16ths. in Ship.	Inches per Rule.	16ths. per Rule.
Flat Keel Plates , breadth and thickness	30	6/16	30	6/16
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilge of doubling at Bilge, or increased thickness, and length applied	5 8/16	6/16	5 8/16	6/16
fm up. part of Bilge to lr. edge of Sh'rstrake	5 8/16	6/16	5 8/16	6/16
Main Sheerstrake , breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake.	30 1/2	6/16	30	6/16
Up. or Spar Dk. Sh'rstrake , brdth & thickness	8 x 5/16	6/16	8 x 5/16	6/16
Butt Straps to outside plating, breadth & thickness	10 feet		8'-4"	
Lengths of Plating	3 1/2 feet		3'-4"	
Shifts of Plating, and Stringers	20	6/16	20	6/16
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	3 x 3 x 6/16		3 x 3 x 6/16	
Angle Iron on ditto	7 1/2 x 6/16		7 1/2 x 6/16	
Tie Plates fore and aft, outside Hatchways	7 x 7/8 (at mast)		7 x 7/8 (at mast)	
Diagonal Tie Plates on Beams No. of Pairs	teak		teak	
Planksheer material and scantling	2 1/2 x 1/2		2 1/2	
Waterways do. <u>Boundary plate</u>	3/8 nuts & screws		3/8 nuts & screws	
Flat of Upper Deck do. do.	2 1/2		2 1/2	
How fastened to Beams	3/8 nuts & screws		3/8 nuts & screws	
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	2		2	
<i>Is the Stringer Plate attached to the outside plating?</i>				
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				
<i>Is the Stringer Plate attached to the outside plating?</i>				
Angle Irons on ditto, No.				
Stringer or Tie Plates , outside Hatchways				
Flat of Lower Deck				
Ceiling betwixt Decks, thickness and material	2 pine		2 1/2	
in hold do. do.	3		2	
Main piece of Rudder , diameter at head	2 1/8		2	
do. at heel				
<i>Can the Rudder be unshipped afloat?</i>	yes			
Bulkheads No. <u>one</u> Thickness of <u>4/16</u>			one of 4/16	
Height up <u>Upper Deck</u>				
How secured to sides of ship <u>between double frames.</u>				
Size of Vertical Angle Irons <u>2 1/2 x 2 1/2 x 5/16</u> and distance apart <u>30 ins.</u>				
Are the outside Plates doubled two spaces of Frames in length? <u>yes</u>				

The **FRAMES** extend in one length from keel to gunwale Riveted through plates with 5/8 in. Rivets, about 5" apart.
 The **REVERSED ANGLE IRONS** on floors and frames extend across middle line to upper turn of bilge and to 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 7/8 in. diameter, averaging 4 1/2 ins. from centre to centre.
 Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 5/8 in. diameter, averaging 2 7/8 ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 5/8 in. diameter averaging 2 7/8 ins. from centre to centre.
Butts of one Strakes at Bilge for 1/2 length, double riveted with Butt Straps 4/16 thicker than the plates they connect.
Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 5/8 in. diameter, averaging 2 7/8 ins. from cr. to cr.
Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 5/8 in. diameter, averaging 2 7/8 ins. from cr. to cr.
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" Breadth of laps of plating in single riveting 2 1/2"
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? treble and double.

Waterway, how secured to Beams iron riveted (Explain by Sketch, if necessary.)
 Beams of the various Decks, how secured to the sides? by bracket knees No. of Breasthooks, 3 Crutches, 3
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? good.
 Manufacturer's name or trade mark, Stockton M. S. Co.
 The above is a correct description.
 Builder's Signature, Craggs & Sons Surveyor's Signature, J. A. Truscott
 Surveyor to Lloyd's Register of British and Foreign Shipping.

IRON 473-0043



