

## IRON SHIPS.

No. 3961 Survey held at Stockholm Date, First Survey 28<sup>th</sup> August 1871 Last Survey 16<sup>th</sup> April 1872  
On the Steamer "Albatross" Master Hustav Meyer (Meyer)  
Tonnage under Tonnage Deck 1041.04 ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS. Half Moulded Breadth 14.0 Built at Stockholm  
Ditto of Third Spar, or Awning Deck 334.16 Total Depth if three or more Decks 18.8 1/2 When built 1872 Launched 1<sup>st</sup> Feb 1872  
Ditto of Poop, or Raised Or. Dk. 18.8 1/2 Total Girth of Half Midship Frame 29.3 By whom built Bearse & Co  
Ditto of Houses on Deck 18.8 1/2 3rd Number 138916 Owners De. German Lloyd  
Ditto of Forecastle 18.8 1/2 Length 221 Port belonging to Bremen  
Gross Tonnage 1044.83 1st Number 138916 4th Number 138916 Destined Voyage Bremen  
Crew Space, as per Rule 138916 Depths to Length over 11 Breadths to Length 1.1 If Surveyed while Building, Afloat, or in Dry Dock.  
Register Tonnage, out of Beam 334.34  
Engine Room 110.49 Register Tonnage, as a Steamer, on Beam 110.49

Length on deck as per Rule, Feet. Inches.	Moulded Breadth, Feet. Inches.	Depths from top of Floors to Upper and Main Deck Beams, as per Rule, Feet. Inches.	Power of Engines, Horse.	N <sup>o</sup> . of Decks with flat laid Timber	N <sup>o</sup> . of Tiers of Beams																																																																																																																																																																																																																																																																																																																																										
221	28	24.05	120	3	3																																																																																																																																																																																																																																																																																																																																										
Dimensions of Ship per Register, length, 221 breadth, 28 depth, 24.05																																																																																																																																																																																																																																																																																																																																															
<table border="1"><thead><tr><th></th><th>Inches in Ship.</th><th>Inches required per Rule.</th><th></th><th>Inches in Ship.</th><th>Inches required per Rule.</th></tr></thead><tbody><tr><td>Keel, if bar iron, depth and thickness</td><td>8 x 2 3/8</td><td>8 x 2 3/8</td><td>Flat Keel Plates, breadth and thickness</td><td>31 1/2</td><td>9 1/2 x 10 3/4</td></tr><tr><td>Do. if centre through plate, depth and thickness</td><td>1 1/4 x 2 3/8</td><td>1 1/4 x 2 3/8</td><td>Plates in Garboard Strakes, breadth and thickness</td><td>31 1/2</td><td>9 1/2 x 10 3/4</td></tr><tr><td>Stem, if bar iron, moulding and thickness</td><td>8 x 1 1/4</td><td>8 x 1 1/4</td><td>Do. from Garboard to upper part of Bilges</td><td>31 1/2</td><td>9 1/2 x 10 3/4</td></tr><tr><td>Stern-post for Rudder do. do.</td><td>8 x 1 1/4</td><td>8 x 1 1/4</td><td>Do. of doubling at Bilge, or increased thickness, and length applied</td><td>31 1/2</td><td>9 1/2 x 10 3/4</td></tr><tr><td>Stern-post for Propeller</td><td>8 x 1 1/4</td><td>8 x 1 1/4</td><td>Do. fm up. part of Bilge to edge of Sh'rstrake</td><td>31 1/2</td><td>9 1/2 x 10 3/4</td></tr><tr><td>Distance of Frames from moulding edge to moulding edge, all fore and aft</td><td>23</td><td>(Class 1041)</td><td>Do. Main Sheerstrake, breadth and thickness</td><td>30</td><td>12 1/2 x 30</td></tr><tr><td>Frames, size of Angle Iron, for 1/2 length amidships</td><td>4 x 3</td><td>4 x 3</td><td>Do. of doubling at Sh'rstrake, &amp; length applied</td><td>30</td><td>12 1/2 x 30</td></tr><tr><td>Do. for 1/2 at each end</td><td>4 x 3</td><td>4 x 3</td><td>Do. from Mn. to Up. or Spar Dk. Sh'rstrake</td><td>30</td><td>12 1/2 x 30</td></tr><tr><td>Reversed Frames, size of Angle Iron</td><td>4 x 3</td><td>4 x 3</td><td>Do. Up. or Spar Dk Sh'rstrake, brdth &amp; thickness</td><td>30</td><td>12 1/2 x 30</td></tr><tr><td>Floors, depth and thickness of Floor Plate at mid line for half the length amidships</td><td>1 1/2 x 10 1/2</td><td>1 1/2 x 10 1/2</td><td>Butt Straps to outside plating, breadth &amp; thickness</td><td>14 1/2 x 9 1/2</td><td>14 1/2 x 9 1/2</td></tr><tr><td>Do. at the ends</td><td>1 1/2 x 10 1/2</td><td>1 1/2 x 10 1/2</td><td>Lengths of Plating</td><td>125</td><td>125</td></tr><tr><td>Do. do. do. at Bilge Keelson</td><td>1 1/2 x 10 1/2</td><td>1 1/2 x 10 1/2</td><td>Shifts of Plating, and Stringers</td><td>110</td><td>110</td></tr><tr><td>Do. height extended at the Bilges</td><td>35</td><td>35</td><td>Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness</td><td>31 1/2</td><td>12 1/2 x 31 1/2</td></tr><tr><td>Beams, Upper, Spar, or Awning Deck (No. 59) single or double Angle Iron, Plate or Tee Bulb Iron</td><td>4 x 3</td><td>4 x 3</td><td>Angle Iron on ditto</td><td>3 1/2 x 3 x 4 1/2</td><td>3 1/2 x 3 x 4 1/2</td></tr><tr><td>Single or double Angle Iron on Upper edge</td><td>4 x 3</td><td>4 x 3</td><td>Tie Plates (fore and aft), outside Hatchways</td><td>9</td><td>9 1/2 x 8 1/2</td></tr><tr><td>Average space</td><td>110</td><td>110</td><td>Diagonal Tie Plates on Beams (No. of Pairs, 2)</td><td>10 1/2</td><td>10 1/2 x 10 1/2</td></tr><tr><td>Beams, Main or Middle Deck (No. 58) single or double Angle Iron, Plate or Tee Bulb Iron</td><td>4 x 3</td><td>4 x 3</td><td>Planksheer material and scantling</td><td>3</td><td>3</td></tr><tr><td>Single or double Angle Iron on Upper Edge</td><td>4 x 3</td><td>4 x 3</td><td>Waterways do. do.</td><td>3</td><td>3</td></tr><tr><td>Average space</td><td>110</td><td>110</td><td>Flat of Upper Deck do. do.</td><td>3</td><td>3</td></tr><tr><td>Beams, Lower Deck, Hold or Orlop (No. 48) single or double Ang. Iron, Plate or Tee Bulb Iron</td><td>4 x 3</td><td>4 x 3</td><td>How fastened to Beams</td><td>3</td><td>3</td></tr><tr><td>Single or double Angle Iron on Upper Edge</td><td>4 x 3</td><td>4 x 3</td><td>Stringer Plate on ends of Main or Middle Deck</td><td>30 1/2 x 9 1/2</td><td>30 1/2 x 9 1/2</td></tr><tr><td>Average space</td><td>110</td><td>110</td><td>Beams, breadth and thickness</td><td>30 1/2 x 9 1/2</td><td>30 1/2 x 9 1/2</td></tr><tr><td>Keelson Centre line, single or double plate, box, or intercostal, size of Plates</td><td>13 1/2 x 2 1/4</td><td>13 1/2 x 2 1/4</td><td>(Is the Stringer Plate attached to the outside plating?)</td><td>Yes</td><td>Yes</td></tr><tr><td>Do. Bulb Plate to Intercostal Keelson</td><td>13 1/2 x 2 1/4</td><td>13 1/2 x 2 1/4</td><td>Angle Irons on ditto (No. 2)</td><td>5 x 3 1/2 x 4 1/2</td><td>5 x 3 1/2 x 4 1/2</td></tr><tr><td>Do. Size of Angle Irons</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Tie Plates, outside Hatchways</td><td>10 1/2</td><td>10 1/2 x 10 1/2</td></tr><tr><td>Do. Side Intercostal Keelson, size of Plates</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Diagonal Tie Plates on Beams (No. of pairs, 1)</td><td>10 1/2</td><td>10 1/2 x 10 1/2</td></tr><tr><td>Do. Angle Irons on tops of Floors</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Waterways materials and scantlings</td><td>3 1/2</td><td>3 1/2</td></tr><tr><td>Do. Bilge Keelson, Bulb Iron</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Flat of Middle Deck do. do.</td><td>3 1/2</td><td>3 1/2</td></tr><tr><td>Do. do. Intercostal plates riveted to plating for length</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>How fastened to Beams</td><td>3 1/2</td><td>3 1/2</td></tr><tr><td>Do. do. Angle Irons</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Stringer Plates on ends of Lower Deck, Hold or Orlop Beams</td><td>28 1/2 x 8 1/2</td><td>28 1/2 x 8 1/2</td></tr><tr><td>Side Stringers (No. 36) size of Angle Irons</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>(Is the Stringer Plate attached to the outside plating?)</td><td>Yes</td><td>Yes</td></tr><tr><td>Do. Intercostal plates riveted to plating for length</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Angle Irons on ditto (No. 2)</td><td>3 1/2 x 3 1/2 x 4 1/2</td><td>3 1/2 x 3 1/2 x 4 1/2</td></tr><tr><td>Transoms, material <u>Plating</u> or, if none, in what manner compensated for.</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Stringer or Tie Plates, outside Hatchways</td><td>10 1/2</td><td>10 1/2 x 10 1/2</td></tr><tr><td>Knight-heads <u>and</u> Hawse Timbers <u>Angles &amp; Plating</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Flat of Lower Deck</td><td>3</td><td>3</td></tr><tr><td>Windlass <u>Patent</u> Pull Butt</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Ceiling betwixt Decks, thickness and material</td><td>3</td><td>3</td></tr><tr><td>The Frames extend in one length from <u>Keel</u> to <u>gunwale</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Do. in hold do. do.</td><td>3 1/2</td><td>3 1/2</td></tr><tr><td>The Reverse Angle Irons on the floors and frames extend <u>across</u> the middle line</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Main piece of Rudder, diameter at head</td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Keelsons. Are the various lengths of Plates and Angle Irons properly connected? <u>Yes</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Do. do. at heel</td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Plates, Garboard, double or Riveted to Keel, double or at upper edge, with Rivets (3/4 in.) diameter, averaging (1 1/2 ins.) from centre to centre.</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>(Can the Rudder be unshipped afloat? <u>Yes</u>)</td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (1 1/2 ins.) from centre to centre.</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Bulkheads No. <u>1</u> Thickness of <u>6 1/2</u></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (9/16 x 1/2) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3/4 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? <u>No</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Do. Height up <u>Main Dk.</u> fore &amp; aft <u>plated over</u></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Do. of <u>10</u> Strakes at Bilge for <u>1/2</u> length, treble riveted with Butt Straps <u>1/10</u> thicker than their plates.</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Do. How secured to the sides of the ship <u>double frames</u></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre.</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Do. Size of Vertical Angle Irons, <u>3 x 3 1/2</u>, and their distance apart, <u>30</u></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge <u>single</u> At lower edge <u>double</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td>Do. Are the outside Plates doubled two spaces of Frames in length? <u>Yes</u></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (8/16) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre.</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of <u>Main</u> or <u>Spar</u> Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for <u>1/2</u> length amidships. Breadth of laps of plating in double Riveting (1 1/4) Breadth of laps of plating in single Riveting (2 1/4)</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? <u>treble &amp; double</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.) <u>Gutter</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Beams of the various Decks, how secured to the sides? <u>Main Ends turned &amp; welded</u> No. of Breasthooks, <u>low</u> Crutches, <u>three</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &amp;c.? <u>good</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Manufacturer's name or trade mark, <u>Stockholm &amp; Harperspool Malabar bar</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>I certify that the above is a correct description of the several particulars therein given.</td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Builder's Signature, <u>M. Barse</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr><tr><td>Surveyor's Signature, <u>W. J. M. M. M.</u></td><td>5 x 3 1/2</td><td>5 x 3 1/2</td><td></td><td>5 1/4</td><td>5 1/4</td></tr></tbody></table>							Inches in Ship.	Inches required per Rule.		Inches in Ship.	Inches required per Rule.	Keel, if bar iron, depth and thickness	8 x 2 3/8	8 x 2 3/8	Flat Keel Plates, breadth and thickness	31 1/2	9 1/2 x 10 3/4	Do. if centre through plate, depth and thickness	1 1/4 x 2 3/8	1 1/4 x 2 3/8	Plates in Garboard Strakes, breadth and thickness	31 1/2	9 1/2 x 10 3/4	Stem, if bar iron, moulding and thickness	8 x 1 1/4	8 x 1 1/4	Do. from Garboard to upper part of Bilges	31 1/2	9 1/2 x 10 3/4	Stern-post for Rudder do. do.	8 x 1 1/4	8 x 1 1/4	Do. of doubling at Bilge, or increased thickness, and length applied	31 1/2	9 1/2 x 10 3/4	Stern-post for Propeller	8 x 1 1/4	8 x 1 1/4	Do. fm up. part of Bilge to edge of Sh'rstrake	31 1/2	9 1/2 x 10 3/4	Distance of Frames from moulding edge to moulding edge, all fore and aft	23	(Class 1041)	Do. Main Sheerstrake, breadth and thickness	30	12 1/2 x 30	Frames, size of Angle Iron, for 1/2 length amidships	4 x 3	4 x 3	Do. of doubling at Sh'rstrake, & length applied	30	12 1/2 x 30	Do. for 1/2 at each end	4 x 3	4 x 3	Do. from Mn. to Up. or Spar Dk. Sh'rstrake	30	12 1/2 x 30	Reversed Frames, size of Angle Iron	4 x 3	4 x 3	Do. Up. or Spar Dk Sh'rstrake, brdth & thickness	30	12 1/2 x 30	Floors, depth and thickness of Floor Plate at mid line for half the length amidships	1 1/2 x 10 1/2	1 1/2 x 10 1/2	Butt Straps to outside plating, breadth & thickness	14 1/2 x 9 1/2	14 1/2 x 9 1/2	Do. at the ends	1 1/2 x 10 1/2	1 1/2 x 10 1/2	Lengths of Plating	125	125	Do. do. do. at Bilge Keelson	1 1/2 x 10 1/2	1 1/2 x 10 1/2	Shifts of Plating, and Stringers	110	110	Do. height extended at the Bilges	35	35	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	31 1/2	12 1/2 x 31 1/2	Beams, Upper, Spar, or Awning Deck (No. 59) single or double Angle Iron, Plate or Tee Bulb Iron	4 x 3	4 x 3	Angle Iron on ditto	3 1/2 x 3 x 4 1/2	3 1/2 x 3 x 4 1/2	Single or double Angle Iron on Upper edge	4 x 3	4 x 3	Tie Plates (fore and aft), outside Hatchways	9	9 1/2 x 8 1/2	Average space	110	110	Diagonal Tie Plates on Beams (No. of Pairs, 2)	10 1/2	10 1/2 x 10 1/2	Beams, Main or Middle Deck (No. 58) single or double Angle Iron, Plate or Tee Bulb Iron	4 x 3	4 x 3	Planksheer material and scantling	3	3	Single or double Angle Iron on Upper Edge	4 x 3	4 x 3	Waterways do. do.	3	3	Average space	110	110	Flat of Upper Deck do. do.	3	3	Beams, Lower Deck, Hold or Orlop (No. 48) single or double Ang. Iron, Plate or Tee Bulb Iron	4 x 3	4 x 3	How fastened to Beams	3	3	Single or double Angle Iron on Upper Edge	4 x 3	4 x 3	Stringer Plate on ends of Main or Middle Deck	30 1/2 x 9 1/2	30 1/2 x 9 1/2	Average space	110	110	Beams, breadth and thickness	30 1/2 x 9 1/2	30 1/2 x 9 1/2	Keelson Centre line, single or double plate, box, or intercostal, size of Plates	13 1/2 x 2 1/4	13 1/2 x 2 1/4	(Is the Stringer Plate attached to the outside plating?)	Yes	Yes	Do. Bulb Plate to Intercostal Keelson	13 1/2 x 2 1/4	13 1/2 x 2 1/4	Angle Irons on ditto (No. 2)	5 x 3 1/2 x 4 1/2	5 x 3 1/2 x 4 1/2	Do. Size of Angle Irons	5 x 3 1/2	5 x 3 1/2	Tie Plates, outside Hatchways	10 1/2	10 1/2 x 10 1/2	Do. Side Intercostal Keelson, size of Plates	5 x 3 1/2	5 x 3 1/2	Diagonal Tie Plates on Beams (No. of pairs, 1)	10 1/2	10 1/2 x 10 1/2	Do. Angle Irons on tops of Floors	5 x 3 1/2	5 x 3 1/2	Waterways materials and scantlings	3 1/2	3 1/2	Do. Bilge Keelson, Bulb Iron	5 x 3 1/2	5 x 3 1/2	Flat of Middle Deck do. do.	3 1/2	3 1/2	Do. do. Intercostal plates riveted to plating for length	5 x 3 1/2	5 x 3 1/2	How fastened to Beams	3 1/2	3 1/2	Do. do. Angle Irons	5 x 3 1/2	5 x 3 1/2	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	28 1/2 x 8 1/2	28 1/2 x 8 1/2	Side Stringers (No. 36) size of Angle Irons	5 x 3 1/2	5 x 3 1/2	(Is the Stringer Plate attached to the outside plating?)	Yes	Yes	Do. Intercostal plates riveted to plating for length	5 x 3 1/2	5 x 3 1/2	Angle Irons on ditto (No. 2)	3 1/2 x 3 1/2 x 4 1/2	3 1/2 x 3 1/2 x 4 1/2	Transoms, material <u>Plating</u> or, if none, in what manner compensated for.	5 x 3 1/2	5 x 3 1/2	Stringer or Tie Plates, outside Hatchways	10 1/2	10 1/2 x 10 1/2	Knight-heads <u>and</u> Hawse Timbers <u>Angles &amp; Plating</u>	5 x 3 1/2	5 x 3 1/2	Flat of Lower Deck	3	3	Windlass <u>Patent</u> Pull Butt	5 x 3 1/2	5 x 3 1/2	Ceiling betwixt Decks, thickness and material	3	3	The Frames extend in one length from <u>Keel</u> to <u>gunwale</u>	5 x 3 1/2	5 x 3 1/2	Do. in hold do. do.	3 1/2	3 1/2	The Reverse Angle Irons on the floors and frames extend <u>across</u> the middle line	5 x 3 1/2	5 x 3 1/2	Main piece of Rudder, diameter at head	5 1/4	5 1/4	Keelsons. Are the various lengths of Plates and Angle Irons properly connected? <u>Yes</u>	5 x 3 1/2	5 x 3 1/2	Do. do. at heel	5 1/4	5 1/4	Plates, Garboard, double or Riveted to Keel, double or at upper edge, with Rivets (3/4 in.) diameter, averaging (1 1/2 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2	(Can the Rudder be unshipped afloat? <u>Yes</u> )	5 1/4	5 1/4	Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (1 1/2 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2	Bulkheads No. <u>1</u> Thickness of <u>6 1/2</u>	5 1/4	5 1/4	Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (9/16 x 1/2) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3/4 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? <u>No</u>	5 x 3 1/2	5 x 3 1/2	Do. Height up <u>Main Dk.</u> fore & aft <u>plated over</u>	5 1/4	5 1/4	Do. of <u>10</u> Strakes at Bilge for <u>1/2</u> length, treble riveted with Butt Straps <u>1/10</u> thicker than their plates.	5 x 3 1/2	5 x 3 1/2	Do. How secured to the sides of the ship <u>double frames</u>	5 1/4	5 1/4	Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2	Do. Size of Vertical Angle Irons, <u>3 x 3 1/2</u> , and their distance apart, <u>30</u>	5 1/4	5 1/4	Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge <u>single</u> At lower edge <u>double</u>	5 x 3 1/2	5 x 3 1/2	Do. Are the outside Plates doubled two spaces of Frames in length? <u>Yes</u>	5 1/4	5 1/4	Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (8/16) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of <u>Main</u> or <u>Spar</u> Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for <u>1/2</u> length amidships. Breadth of laps of plating in double Riveting (1 1/4) Breadth of laps of plating in single Riveting (2 1/4)	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? <u>treble &amp; double</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.) <u>Gutter</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	Beams of the various Decks, how secured to the sides? <u>Main Ends turned &amp; welded</u> No. of Breasthooks, <u>low</u> Crutches, <u>three</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? <u>good</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	Manufacturer's name or trade mark, <u>Stockholm &amp; Harperspool Malabar bar</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	I certify that the above is a correct description of the several particulars therein given.	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	Builder's Signature, <u>M. Barse</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4	Surveyor's Signature, <u>W. J. M. M. M.</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4
	Inches in Ship.	Inches required per Rule.		Inches in Ship.	Inches required per Rule.																																																																																																																																																																																																																																																																																																																																										
Keel, if bar iron, depth and thickness	8 x 2 3/8	8 x 2 3/8	Flat Keel Plates, breadth and thickness	31 1/2	9 1/2 x 10 3/4																																																																																																																																																																																																																																																																																																																																										
Do. if centre through plate, depth and thickness	1 1/4 x 2 3/8	1 1/4 x 2 3/8	Plates in Garboard Strakes, breadth and thickness	31 1/2	9 1/2 x 10 3/4																																																																																																																																																																																																																																																																																																																																										
Stem, if bar iron, moulding and thickness	8 x 1 1/4	8 x 1 1/4	Do. from Garboard to upper part of Bilges	31 1/2	9 1/2 x 10 3/4																																																																																																																																																																																																																																																																																																																																										
Stern-post for Rudder do. do.	8 x 1 1/4	8 x 1 1/4	Do. of doubling at Bilge, or increased thickness, and length applied	31 1/2	9 1/2 x 10 3/4																																																																																																																																																																																																																																																																																																																																										
Stern-post for Propeller	8 x 1 1/4	8 x 1 1/4	Do. fm up. part of Bilge to edge of Sh'rstrake	31 1/2	9 1/2 x 10 3/4																																																																																																																																																																																																																																																																																																																																										
Distance of Frames from moulding edge to moulding edge, all fore and aft	23	(Class 1041)	Do. Main Sheerstrake, breadth and thickness	30	12 1/2 x 30																																																																																																																																																																																																																																																																																																																																										
Frames, size of Angle Iron, for 1/2 length amidships	4 x 3	4 x 3	Do. of doubling at Sh'rstrake, & length applied	30	12 1/2 x 30																																																																																																																																																																																																																																																																																																																																										
Do. for 1/2 at each end	4 x 3	4 x 3	Do. from Mn. to Up. or Spar Dk. Sh'rstrake	30	12 1/2 x 30																																																																																																																																																																																																																																																																																																																																										
Reversed Frames, size of Angle Iron	4 x 3	4 x 3	Do. Up. or Spar Dk Sh'rstrake, brdth & thickness	30	12 1/2 x 30																																																																																																																																																																																																																																																																																																																																										
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	1 1/2 x 10 1/2	1 1/2 x 10 1/2	Butt Straps to outside plating, breadth & thickness	14 1/2 x 9 1/2	14 1/2 x 9 1/2																																																																																																																																																																																																																																																																																																																																										
Do. at the ends	1 1/2 x 10 1/2	1 1/2 x 10 1/2	Lengths of Plating	125	125																																																																																																																																																																																																																																																																																																																																										
Do. do. do. at Bilge Keelson	1 1/2 x 10 1/2	1 1/2 x 10 1/2	Shifts of Plating, and Stringers	110	110																																																																																																																																																																																																																																																																																																																																										
Do. height extended at the Bilges	35	35	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	31 1/2	12 1/2 x 31 1/2																																																																																																																																																																																																																																																																																																																																										
Beams, Upper, Spar, or Awning Deck (No. 59) single or double Angle Iron, Plate or Tee Bulb Iron	4 x 3	4 x 3	Angle Iron on ditto	3 1/2 x 3 x 4 1/2	3 1/2 x 3 x 4 1/2																																																																																																																																																																																																																																																																																																																																										
Single or double Angle Iron on Upper edge	4 x 3	4 x 3	Tie Plates (fore and aft), outside Hatchways	9	9 1/2 x 8 1/2																																																																																																																																																																																																																																																																																																																																										
Average space	110	110	Diagonal Tie Plates on Beams (No. of Pairs, 2)	10 1/2	10 1/2 x 10 1/2																																																																																																																																																																																																																																																																																																																																										
Beams, Main or Middle Deck (No. 58) single or double Angle Iron, Plate or Tee Bulb Iron	4 x 3	4 x 3	Planksheer material and scantling	3	3																																																																																																																																																																																																																																																																																																																																										
Single or double Angle Iron on Upper Edge	4 x 3	4 x 3	Waterways do. do.	3	3																																																																																																																																																																																																																																																																																																																																										
Average space	110	110	Flat of Upper Deck do. do.	3	3																																																																																																																																																																																																																																																																																																																																										
Beams, Lower Deck, Hold or Orlop (No. 48) single or double Ang. Iron, Plate or Tee Bulb Iron	4 x 3	4 x 3	How fastened to Beams	3	3																																																																																																																																																																																																																																																																																																																																										
Single or double Angle Iron on Upper Edge	4 x 3	4 x 3	Stringer Plate on ends of Main or Middle Deck	30 1/2 x 9 1/2	30 1/2 x 9 1/2																																																																																																																																																																																																																																																																																																																																										
Average space	110	110	Beams, breadth and thickness	30 1/2 x 9 1/2	30 1/2 x 9 1/2																																																																																																																																																																																																																																																																																																																																										
Keelson Centre line, single or double plate, box, or intercostal, size of Plates	13 1/2 x 2 1/4	13 1/2 x 2 1/4	(Is the Stringer Plate attached to the outside plating?)	Yes	Yes																																																																																																																																																																																																																																																																																																																																										
Do. Bulb Plate to Intercostal Keelson	13 1/2 x 2 1/4	13 1/2 x 2 1/4	Angle Irons on ditto (No. 2)	5 x 3 1/2 x 4 1/2	5 x 3 1/2 x 4 1/2																																																																																																																																																																																																																																																																																																																																										
Do. Size of Angle Irons	5 x 3 1/2	5 x 3 1/2	Tie Plates, outside Hatchways	10 1/2	10 1/2 x 10 1/2																																																																																																																																																																																																																																																																																																																																										
Do. Side Intercostal Keelson, size of Plates	5 x 3 1/2	5 x 3 1/2	Diagonal Tie Plates on Beams (No. of pairs, 1)	10 1/2	10 1/2 x 10 1/2																																																																																																																																																																																																																																																																																																																																										
Do. Angle Irons on tops of Floors	5 x 3 1/2	5 x 3 1/2	Waterways materials and scantlings	3 1/2	3 1/2																																																																																																																																																																																																																																																																																																																																										
Do. Bilge Keelson, Bulb Iron	5 x 3 1/2	5 x 3 1/2	Flat of Middle Deck do. do.	3 1/2	3 1/2																																																																																																																																																																																																																																																																																																																																										
Do. do. Intercostal plates riveted to plating for length	5 x 3 1/2	5 x 3 1/2	How fastened to Beams	3 1/2	3 1/2																																																																																																																																																																																																																																																																																																																																										
Do. do. Angle Irons	5 x 3 1/2	5 x 3 1/2	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	28 1/2 x 8 1/2	28 1/2 x 8 1/2																																																																																																																																																																																																																																																																																																																																										
Side Stringers (No. 36) size of Angle Irons	5 x 3 1/2	5 x 3 1/2	(Is the Stringer Plate attached to the outside plating?)	Yes	Yes																																																																																																																																																																																																																																																																																																																																										
Do. Intercostal plates riveted to plating for length	5 x 3 1/2	5 x 3 1/2	Angle Irons on ditto (No. 2)	3 1/2 x 3 1/2 x 4 1/2	3 1/2 x 3 1/2 x 4 1/2																																																																																																																																																																																																																																																																																																																																										
Transoms, material <u>Plating</u> or, if none, in what manner compensated for.	5 x 3 1/2	5 x 3 1/2	Stringer or Tie Plates, outside Hatchways	10 1/2	10 1/2 x 10 1/2																																																																																																																																																																																																																																																																																																																																										
Knight-heads <u>and</u> Hawse Timbers <u>Angles &amp; Plating</u>	5 x 3 1/2	5 x 3 1/2	Flat of Lower Deck	3	3																																																																																																																																																																																																																																																																																																																																										
Windlass <u>Patent</u> Pull Butt	5 x 3 1/2	5 x 3 1/2	Ceiling betwixt Decks, thickness and material	3	3																																																																																																																																																																																																																																																																																																																																										
The Frames extend in one length from <u>Keel</u> to <u>gunwale</u>	5 x 3 1/2	5 x 3 1/2	Do. in hold do. do.	3 1/2	3 1/2																																																																																																																																																																																																																																																																																																																																										
The Reverse Angle Irons on the floors and frames extend <u>across</u> the middle line	5 x 3 1/2	5 x 3 1/2	Main piece of Rudder, diameter at head	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Keelsons. Are the various lengths of Plates and Angle Irons properly connected? <u>Yes</u>	5 x 3 1/2	5 x 3 1/2	Do. do. at heel	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Plates, Garboard, double or Riveted to Keel, double or at upper edge, with Rivets (3/4 in.) diameter, averaging (1 1/2 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2	(Can the Rudder be unshipped afloat? <u>Yes</u> )	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (1 1/2 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2	Bulkheads No. <u>1</u> Thickness of <u>6 1/2</u>	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (9/16 x 1/2) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3/4 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? <u>No</u>	5 x 3 1/2	5 x 3 1/2	Do. Height up <u>Main Dk.</u> fore & aft <u>plated over</u>	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Do. of <u>10</u> Strakes at Bilge for <u>1/2</u> length, treble riveted with Butt Straps <u>1/10</u> thicker than their plates.	5 x 3 1/2	5 x 3 1/2	Do. How secured to the sides of the ship <u>double frames</u>	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2	Do. Size of Vertical Angle Irons, <u>3 x 3 1/2</u> , and their distance apart, <u>30</u>	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge <u>single</u> At lower edge <u>double</u>	5 x 3 1/2	5 x 3 1/2	Do. Are the outside Plates doubled two spaces of Frames in length? <u>Yes</u>	5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (8/16) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre.	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of <u>Main</u> or <u>Spar</u> Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for <u>1/2</u> length amidships. Breadth of laps of plating in double Riveting (1 1/4) Breadth of laps of plating in single Riveting (2 1/4)	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? <u>treble &amp; double</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.) <u>Gutter</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Beams of the various Decks, how secured to the sides? <u>Main Ends turned &amp; welded</u> No. of Breasthooks, <u>low</u> Crutches, <u>three</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? <u>good</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Manufacturer's name or trade mark, <u>Stockholm &amp; Harperspool Malabar bar</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
I certify that the above is a correct description of the several particulars therein given.	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Builder's Signature, <u>M. Barse</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										
Surveyor's Signature, <u>W. J. M. M. M.</u>	5 x 3 1/2	5 x 3 1/2		5 1/4	5 1/4																																																																																																																																																																																																																																																																																																																																										

100450-0183



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  
Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Solid pieces  
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes and are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes  
Are there any rivets which either break into or have been put through the seams or butts of the plating? Some in butts

Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. If they are of Iron or Steel give the 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 Main Mast 62'-9" x 18 1/2", Fore Mast 43'-9" x 18 1/2" C. Pine

1871 Rules

10009 Irons

Number for equipment		Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N <sup>o</sup> .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
N <sup>o</sup> . Mc Sails	SAILS.	16188										
	CABLES, &c.											
	Chain .....	240	1 1/2	80-10	240 1 1/2	80-10	Bowers ....	2	21-0-0	21-12-2-0	21	21 12 2-0
	Fore Sails, (State Machine where Tested, and name of Superintendent).	Same as Anchors		5-18-18 1/2	5-18-18 1/2	5-18-18 1/2		2	21-0-0	21-12-2-0	21	21 12 2-0
	Fore Top Sails, Hempen Stream	90	1 1/2					1	18-2-0	19-8-3-0	18	18 8 3-0
	Stay Sails, Cable	90	1 1/2									
	Main Sails, Hawser .....	90	1 1/2				Stream ....	1	21-0-0	21-12-2-0	21	21 12 2-0
and	Main Top Sails, Towlines ....	90	1 1/2									
	Warp .....	90	1 1/2				Kedges .....	2	21-0-0	21-12-2-0	21	21 12 2-0
	All of good quality.	90	1 1/2									

Her Standing and Running Rigging Wire sufficient in size and good in quality. She has two Long Boats and two others

The present state of the Windlass is good Capstan Wheels and Rudder and Pumps 2 of Metal good

Engine Room Skylights. How constructed? 2 in casing from Main Deck How secured in ordinary weather? thick glass lights

What arrangements are there for deadlights in such for bad weather? thick glass lights

Coal Bunker Openings. How constructed? Bunker caps How are lids secured? Bars How high above deck? 8 in

Scuppers, &c. What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? 3 1/2" Scuppers & three ports

Cargo Hatchways. How formed? Iron comings 1/16" 12" above 2" State size 10' x 10' x 10' & 6' x 9'

If of extraordinary size, state how framed and secured?

What arrangement for shifting beams? Bulk Beams 8" x 8" and double angles 3" x 3" x 1/16"

Hatches, themselves, whether strong and efficient? Yes Main Hatchways. State size 22' x 10'

Order for Special Survey No. 295 DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought

Date Sept 1st 1891 Surveys held 2nd. On the plating during the progress of riveting

Order for Ordinary Survey No. while building 3rd. When the beams were in and fastened, and before the decks were laid

Date as per 4th. When the ship was complete, and before the plating was finally coated or cemented

No. 111 in builder's yard. Section 18. 5th. After the ship was launched and equipped

General Remarks,

Has Water Ballast Tanks in Fore & After Holds.  
Plange plate 1/16" angle iron 3 1/2" x 3 1/2" x 1/16" fender plates 5/16" angle iron 2 1/2" x 2 1/2" x 1/16" knees 1/16" top of tanks 1/16".  
The battle Ports in the sides of the Vessel do not cause the upper part of the Sheen strakes to be cut, and the Ports are sufficiently strengthened

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.

In what manner are the surfaces preserved from oxidation? Inside Paint Outside Paint

I am of opinion this Vessel should be Classed Awning deck and part double bottom

The amount of the Entry Fee .....£50 : - : - is received by me,

Special .....£51 : 2 : -

Certificate ....

(Travelling Expenses)

(if any) £

Committee's Minute 19th April 1892

Character assigned GOAL

I concur in the opinion that this vessel should be classed 20491.  
Lloyd's Register  
19th April 1892