

# IRON SHIP.

Survey held at *Bergen*

Date, First Survey *9 March*

Last Survey *15 December 1881*

Master *J. J. Münster*

*155*  
 Tonnage under Deck *383.30*  
 of Third, Spar, or Awning Deck }  
 of Poop, or raised Qr. Dk. } *135.80*  
 of Houses on Deck } *2.70*  
 of Forecastle } *28.41*  
 Crew Space } *550.21*  
 Engine Room } *40.75*  
 Tonnage out on Beam } *509.46*  
 Tonnage on Deck } *106.40*  
 Tonnage out on Beam } *403.06*

ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.

HALF BREADTH (moulded) *12.00*  
 DEPTH from upper part of Keel to top of Upper Deck Beams *14.975*  
 GIRTH of Half Midship Frame (as per Rule) *22.875*  
 1st NUMBER *49.25*  
 1st NUMBER, if a 3-DECKED VESSEL, deduct 7 feet *~*  
 LENGTH *168.75*  
 2nd NUMBER *8311*  
 PROPORTIONS—Breadths to Length *7.03*  
 Depths to Length—Upper Deck to Keel *~*  
 Main Deck ditto *11.75*

Built at *Bergen*  
 When built *1881* Launched *Nov. 19<sup>th</sup> 1881*  
 By whom built *Bergens mtt. Verksted*  
 Owners *M. Aug. Schjelderup & Sønner (S. G. Gade & others)*  
 Port belonging to *Bergen*  
 Destined Voyage *Foreign*  
 If Surveyed while Building, Afloat, or in Dry Dock. *in all cases*

Length of Ship per Register, length, *169'11"* breadth, *24'2"* depth, *13'0"*  
 Breadth Moulded... *24 0*  
 DEPTH top of Floors to Upper Deck Beams... *13 2 1/2*  
 Do. do. Main Deck Beams... *13 2 1/2*  
 Power of Engines... *60 nom*  
 N<sup>o</sup>. of Decks with flat laid *1*  
 N<sup>o</sup>. of Tiers of Beams *2*

Item	Inches in Ship	Inches per Rule						
Flat Keel Plates, breadth and thickness	30	8/16	30	8/16	30	8/16	30	8/16
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	4 1/2	7/16	6 1/2	7/16	4 1/2	7/16	6 1/2	7/16
" of doubling at Bilge, or increased thickness, and length applied <i>one skate to</i>	4 1/2	7/16	6 1/2	7/16	4 1/2	7/16	6 1/2	7/16
" fm up. part of Bilge to tr. edge of Sh'rstrake.	4 1/2	7/16	6 1/2	7/16	4 1/2	7/16	6 1/2	7/16
" Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake.	33	10/16	33	9/16	33	10/16	33	9/16
" Up. or Spar Dk Sh'rstrake, brdth & thickness	~	~	~	~	~	~	~	~
Butt Straps to outside plating, breadth & thickness	~	~	~	~	~	~	~	~
Lengths of Plating	~	~	~	~	~	~	~	~
Shifts of Plating, and Stringers	~	~	~	~	~	~	~	~
Gunwale Plate on ends of Awning, Spar, or Upper 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 Upper Deck do. do.	~	~	~	~	~	~	~	~
How fastened to Beams	~	~	~	~	~	~	~	~
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	38	7/16	32	7/16	38	7/16	32	7/16
Is the Stringer Plate attached to the outside plating?	yes	~	yes	~	yes	~	yes	~
Angle Irons on ditto, No. <i>one, two in way of poop &amp; fore-castle</i>	8	7/16	8	7/16	8	7/16	8	7/16
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 <i>Lower Deck, Hold</i>	12	7/16	19	9/16	12	7/16	19	9/16
Is the Stringer Plate attached to the outside plating?	no	~	no	~	no	~	no	~
Angle Irons on ditto, No. <i>one</i>	3 1/2 x 3	4/16						
Stringer or Tie Plates, outside Hatchways	~	~	~	~	~	~	~	~
Flat of Lower Deck	~	~	~	~	~	~	~	~
Ceiling betwixt Decks, thickness and material	~	~	~	~	~	~	~	~
" in hold do. do.	2 1/2	pine						
Main piece of Rudder, diameter at head	4 1/4	~	4 1/4	~	4 1/4	~	4 1/4	~
do. at heel	3	~	3	~	3	~	3	~
Can the Rudder be unshipped afloat?	yes	~	yes	~	yes	~	yes	~
Bulkheads No. <i>5</i> Thickness of <i>the aftermost &amp; bow bulkhead</i>	7/16	~	7/16	~	7/16	~	7/16	~
" Height up <i>the aftermost to hold beams, the remainder to main deck</i>	~	~	~	~	~	~	~	~
" How secured to sides of ship <i>between double frames</i>	~	~	~	~	~	~	~	~
" Size of Vertical Angle Irons <i>2 1/2 x 2 1/2 x 7/16</i> and distance apart <i>30 ins.</i>	~	~	~	~	~	~	~	~
" Are the outside Plates doubled two spaces of Frames in length? <i>yes</i>	~	~	~	~	~	~	~	~
FRAMES extend in one length from <i>middle line</i> to <i>main deck &amp; to poop</i>	~	~	~	~	~	~	~	~
REVERSED ANGLE IRONS on floors and frames extend <i>from middle line to top of half beams stringers</i> and to <i>main deck</i> alternately	~	~	~	~	~	~	~	~
ELSONS. Are the various lengths of Plates and Angle Irons properly connected? <i>yes</i> And butts properly shifted? <i>yes</i>	~	~	~	~	~	~	~	~
STRINGING. Garboard, double riveted to Keel, with rivets <i>1</i> in. diameter, averaging <i>5</i> ins. from centre to centre.	~	~	~	~	~	~	~	~
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets <i>3/4</i> in. diameter, averaging <i>3</i> ins. from centre to centre.	~	~	~	~	~	~	~	~
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets <i>7/8 x 3/4</i> in. diameter averaging <i>2 1/2 x 3</i> ins. from centre to centre.	~	~	~	~	~	~	~	~
Butts of <i>1</i> Strake at Bilge for <i>1/2</i> length, <i>double</i> riveted with Butt Straps <i>7/16</i> thicker than the plates they connect.	~	~	~	~	~	~	~	~
Edge from bilge to Main Sheerstrake, worked clencher, <i>double</i> or single riveted; with rivets <i>3/4</i> in. diameter, averaging <i>3</i> ins. from cr. to cr.	~	~	~	~	~	~	~	~
Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets <i>7/8 x 3/4</i> in. diameter, averaging <i>2 1/2 x 3</i> ins. from cr. to cr.	~	~	~	~	~	~	~	~
Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.	~	~	~	~	~	~	~	~
Butts of Main Sheerstrake, treble riveted for <i>~</i> length amidships. Butts of Upper or Spar Sheerstrake, treble riveted <i>~</i> length amidships.	~	~	~	~	~	~	~	~
Butts of Main Stringer Plate, treble riveted for <i>~</i> length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for <i>~</i> length.	~	~	~	~	~	~	~	~
Breadth of laps of plating in double riveting <i>5 1/2 x 3 3/4</i> Breadth of laps of plating in single riveting <i>2 7/8</i>	~	~	~	~	~	~	~	~
Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? <i>Center keelson treble, stringer &amp; tie plates double riveted</i>	~	~	~	~	~	~	~	~
How secured to Beams <i>in the ordinary way</i> (Explain by Sketch, if necessary.)	~	~	~	~	~	~	~	~
How the various Decks, how secured to the sides? <i>with bracket plates</i>	~	~	~	~	~	~	~	~
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? <i>Crown</i>	~	~	~	~	~	~	~	~
Manufacturer's name or trade mark, <i>Plates J. B. &amp; Co Angles &amp; Bulbs Dorman Lang &amp; Co Middlesbrough</i>	~	~	~	~	~	~	~	~
The above is a correct description.	~	~	~	~	~	~	~	~
Owner's Signature, <i>Bergens mekaniske Verksted</i>	~	~	~	~	~	~	~	~
Surveyor's Signature, <i>B. Coucherons</i>	~	~	~	~	~	~	~	~
Surveyor to Lloyd's Register of British and Foreign Shipping.	~	~	~	~	~	~	~	~

Dimensions of Ship per Register, length, *169'11"* breadth, *24'2"* depth, *13'0"*  
 Class of approved construction *Iron*  
 Pall Bitt *Iron*  
 Knight heads. *Iron*  
 Hawse Timbers. *Iron*  
 Surveyor's Signature, *B. Coucherons*  
 Surveyor to Lloyd's Register of British and Foreign Shipping.

