

# IRON SHIP.

10th JULY 82

508

No. 508

Survey held at

Elbing

Date, First Survey Feb 4 57

Last Survey

20th June

1882

On the Screw Steamer

"Malvinas"

Master

H. Meyer

TONNAGE under Tonnage Deck	254.02
Ditto of Third, Spar, or Awning Deck	
Ditto of Poop, or Raised Or. Dk.	38.44
Ditto of Houses on Deck	14.26
Ditto of Forecastle	17.65
Gross Tonnage	324.37
Less Crew Space	16.20
Less Engine Room	88.96
Register Tonnage as out on Beam	219.21

ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.	
HALF BREADTH (moulded)	11.5
DEPTH from upper part of Keel to top of Upper Deck Beams	12.0
GIRTH of Half Midship Frame (as per Rule)	21.3
1st NUMBER	44.8
1st NUMBER, if a 3-DECKED VESSEL, deduct 7 feet	
LENGTH	142.72
2nd NUMBER	639.4
PROPORTIONS—Breadths to Length	6.2
Depths to Length—Upper Deck to Keel	9.2
Main Deck ditto	11.9

Built at Elbing  
 When built 1882 Launched May 13th  
 By whom built J. Schichau  
 Deutsche Dampfschiffahrt Gesellschaft  
 Owners "Nasmos"-Line  
 Port belonging to Hamburg  
 Destined Voyage Ocean (Falkland Islands)  
 If Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on deck as per Rule	BREADTH Moulded	DEPTH top of Floors to Upper Deck Beams	DEPTH Do. do. Main Deck Beams	Power of Engines	No. of Decks with flat laid	No. of Tiers of Beams
142.8	23	9.6 1/2	9.6 1/2	75	one	one

Dimensions of Ship per Register, length, breadth, depth,	Inches in Ship	Inches per Rule	Flat Keel Plates, breadth and thickness	Inches in Ship	16ths in Ship	Inches per Rule	16ths per Rule
KEEL, depth and thickness two plates	7 x 9/16	7 x 2 1/4	PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	30	5	38	8
STEM, moulding and thickness	7 x 1 5/8	7 x 1 5/8	of doubling at Bilge, or increased thickness, and length applied	7 x 6		7 x 6	
STERN-POST for Rudder do. do.	7 x 2 1/2	6 1/4 x 3 1/4	in up part of Bilge to l. edge of Sh'rstrake.	6 x 5		6 x 5	
" for Propeller	6 1/4 x 3 1/4		Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake.	30	8 x 7	30	8 x 7
Distance of Frames from moulding edge to moulding edge, all fore and aft	21	21	Up. or Spar Dk Sh'rstrake, brdth & thckns	7.8 x 10			
FRAMES, Angle Iron, for 2/3 length amidships	3 3/8	3 2 1/2	Butt Straps to outside plating, breadth & thickness	12 6			
Do. for 1/3 at each end	3 3/8	3 2 1/2	Lengths of Plating	42 x 63			
REVERSED FRAMES, Angle Iron	2 1/2	2 1/2	Shifts of Plating, and Stringers	3 1/8 x 19 6 x 5		3 1/8 x 19 6 x 5	
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	2 9/16	5 12 1/2	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	3 x 3	6		
" thickness at the ends of vessel			Angle Iron on ditto				
" depth at 2/3 the half-bdth. as per Rule			Tie Plates fore and aft, outside Hatchways				
" height extended at the Bilges. Raised quarter			Diagonal Tie Plates on Beams No. of Pairs				
BEAMS, Upper, Spar, or Awning Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	4 2 1/2	6 4 2 1/2	Plank-sheer material and scantling				
Single or double Angle Iron on Upper edge	21	21	Waterways do. do.		5		
Average space			Flat of Upper Deck do. iron				
BEAMS, Main, or Middle Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	4 2 1/2	6 4 2 1/2	How fastened to Beams				
Single or double Angle Iron, on Upper Edge	21	21	Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	3 1/8 x 19 6 x 5			
Average space			Is the Stringer Plate attached to the outside plating?	yes			
BEAMS, Lower Deck, Hold, or Orlop Single or d'ble Ang. Iron, Plate or Tee Bulb Iron			Angle Irons on ditto, No. one	3 x 3	6		
Single or double Angle Iron on Upper Edge			Tie Plates, outside Hatchways				
Average space			Diagonal Tie Plates on Beams, No. of pairs				
KEELSONS Centre line, single or double plate, box, or intercostal, Plates	3 6 1/2	8	Waterways materials and scantlings		5		
" Rider Plate	4 2	7	Flat of Middle Deck do. iron				
" one longitudinal Keelson	2 8	5	How fastened to Beams				
" Angle Irons	3	3	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	12	7		
" Double Angle Iron Side Keelson	3	3	Is the Stringer Plate attached to the outside plating?	yes			
" Side Intercostal Plate			Angle Irons on ditto, No. 4. 3 x 3		6		
" Attached to outside plating with angle iron			Stringer or Tie Plates, outside Hatchways				
BILGE Angle Irons			Flat of Lower Deck				
" do. Bulb Iron			Ceiling betwixt Decks, thickness and material	2 1/2		2 1/2	
" do. Intercostal plates riveted to plating for length			" in hold do. do.	2 1/2		2 1/2	
BILGE STRINGER Angle Irons			Main piece of Rudder, diameter at head	3 3/4		3 3/4	
Intercostal plates riveted to plating for length			do. at heel	2 1/4		2 1/4	
SIDE STRINGER Angle Irons	3	3	Can the Rudder be unshipped afloat?	yes			
Transoms, material. Knight-heads. Hawse Timbers.			Bulkheads No. 4 Thickness of 4/16				
Windlass Emerson & Walker Pall Bitt			" Height up Raised quarter tillain deck				
			" How secured to sides of ship by two angle irons				
			" Size of Vertical Angle Irons 2 1/2 x 2 1/2 x 5/16 and distance apart 2.6" ins.				
			" Are the outside Plates doubled two spaces of Frames in length?	yes			

The FRAMES extend in one length from under line of Keel to raised quarter & Main Deck. Riveted through plates with 5/8 in. Rivets, about 5 apart.

The REVERSED ANGLE IRONS on floors and frames extend from middle line to Raised quarter deck and to upper part of bilge 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 3/4 in. diameter, averaging 3 1/4 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from centre to centre.

Butts of one Strake at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 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 3/4 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked clencher, double riveted; with rivets 5/8 in. diameter, averaging 2 3/4 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 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted whole length amidships.

Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for whole length.

Breadth of laps of plating in double riveting 4 1/2 Breadth of laps of plating in single riveting 2 7/8

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?

Waterway, how secured to Beams by iron (Explain by Sketch, if necessary.) No. of Breasthooks, Crutches,

How the various Decks, how secured to the sides? By knee plates

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.?

Manufacturer's name or trade mark, Schichau & Co. Vereinigten Konigen u. Lausabietle 70 Baschleien und Mecke von der Redonhutte, ebendasselort.

The above is a correct description.

Builder's Signature, J. Schichau, Elbing Surveyor's Signature, Emil Paddisat

Esingensperci, Maschinen- & Locomotivfabrik, Schiffswerft. Surveyor to Lloyd's Register of British and Foreign Shipping.

Am 116 0015

**Workmanship.** Are the butts of plating planed or otherwise fitted? *Carefully fitted planed. yes.*  
 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.*  
 Are the fillings between the ribs and plates solid single pieces? *yes.*  
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes.*  
 Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *yes.*  
 Do any rivets break into or through the seams or butts of the plating? *No*

Masts, Bowsprit, Yards, &c., are *of pine* in *good* condition, and sufficient in size and length. If of Iron or Steel give Scandlings 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

NUMBER for EQUIPMENT 7033		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprntd.	ANCHORS.	No.	Weight. Ex. Stock.	Test per Certificate	W'ght req'd per Rule.	Machine where Tested & Suprntd.
No.	SAILS.											
	CABLES, &c.											
	Chain	164.6	1"	27.0.0.0	165 x 1"		Bower Anchors					
	Fore Sails,	<i>May 9<sup>th</sup> 82 Netherton D. E. Lewis</i>										
	Fore Top Sails,	45	1 1/16	12.16.0.0	45 x 1 1/16			1	8.0.10	10.5.0.0	} 7 1/2	
	Fore Topmast Stay Sails,			8.10.0.0				1	7.2.23	9.18.0.14		
	Main Sails,	75	7 1/2		75 x 7 1/2		Stream	1	2.1.20	5.0.0.0	2 1/2	
	Main Top Sails, and	90	5 1/2		90 x 5 1/2		Kedge	1	1.0.10	3.10.1.7	1	
							Ditto					

Standing and Running Rigging *wire & hemp* sufficient in size and *good* in quality. She has *2* Long Boat and *16 x 17 feet*  
 The Windlass is *in good condition* Capstan and Rudder Pumps

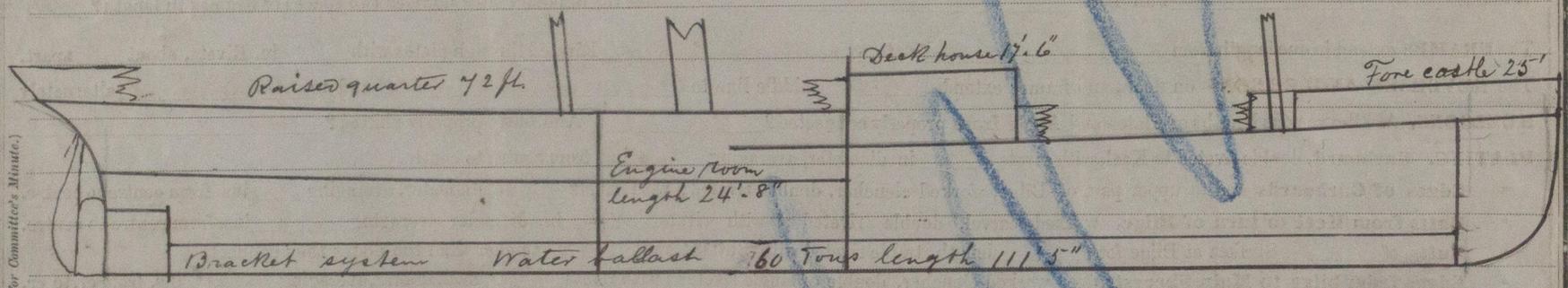
Engine Room Skylights.—How constructed? *Iron coaming & teak skylight* How secured in ordinary weather? *good*  
 What arrangements for deadlights in bad weather? *Strong teak with dead eyes*  
 Coal Bunker Openings.—How constructed? *of iron* How are lids secured? *hatches* Height above deck? *9 inches*  
 Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea?

Cargo Hatchways.—How formed?  
 State size Main Hatch Forehatch *15.9 x 6'* Quarterhatch *8.9 x 6'*

If of extraordinary size, state how framed and secured?  
 What arrangement for shifting beams? *one shifting beam Main hatch*  
 Hatches, If strong and efficient? *18 inches above deck*

Order for Special Survey No.	DATES of Surveys held while building as per Section 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought	Special survey
Date		2nd. On the plating during the process of riveting	
Order for Ordinary Survey No.		3rd. When the beams were in and fastened, and before the decks were laid....	
Date		4th. When the ship was complete, and before the plating was finally coated or cemented..	
No. in builder's yard.		5th. After the ship was launched and equipped	

General Remarks (State quality of workmanship, &c.) *The vessel is constructed after the Bracket system, the entire plate 3/8 x 5/16 has double butt straps. The double bottom has been carefully tested; she has one longitudinal girder on each side, with a solid frame every 42 inches and under the engine & boiler every 20 inches. The iron of which she has been built is of the very best German quality and the workmanship & equipments are very good*



State if *one, two, or three* decked vessel, or if *spur, or* awning decked; and the lengths of *poop, forecastle, or* raised quarter deck, and the length of double, or *part* double bottom. *111.5"*  
 How are the surfaces preserved from oxidation? Inside *2 coats of red lead & one other coat bottom cemented* Outside *2 red lead coats & 2 others bottom patent paint*

I am of opinion this Vessel should be Classed  
 The amount of the Entry Fee ... £ 5 : 0 : 0 is received by me,  
 Special ... £ 16 : 5 : 0 187  
 Certificate ... 0 : 5 : 0

*Comit J. Federat*  
 Surveyor to Lloyd's Register of British and Foreign Shipping.

(Travelling Expenses, if any, £ 24.0.0.)  
 Committee's Minute Tuesday, 1<sup>st</sup> July, 18 82.

Character assigned  
*W. Lloyd*  
 Lloyd's Register  
 100 A I Foundation