

## Sailing Vessel. IRON OR STEEL SAILING SHIP.

T. URS. 26 MAY 1892  
(Received at London Office)Date of completion of Report 25<sup>th</sup> May, 1892. Port of LeithNo. 6922 Survey held at Grangemouth Date of First Survey 10<sup>th</sup> Nov. 1891 Last Survey 24<sup>th</sup> May 1892.  
On the Steel Bk. "Marco Polo" Rig 3 m. BR.TONNAGE under  
Tonnage Deck 1503.29

ONE OR TWO DECKED VESSEL.

CLASS 100 A1 Steel

Master P. Schönhardt

Year of Appointment (1) As master in service of  
owner of present vessel: 1892  
(2) As master of this  
vessel: 1892.Do. of Poop 84.72  
Do. of raised Or. (Dk. Break) 16.56

Do. of Bridge House 43.96

Do. of Houses on Deck 1.23

Do. of excess of Hatchways

Do. of Forecastle

Gross Tonnage 1645.76

Less Crew Space 49.11

TONNAGE FOR FEES.. 1596.65

Less Navigation spaces

Register Tonnage 1596.65  
as cut on Beam....

Half Breadth (moulded) 19.00

Depth from upper part of Keel to top of Upper Deck Beams 24.50

Girth of Half Midship Frame (as per Rule) 39.00

1st Number 82.50

Length 238.5

2nd Number 19676.25

Proportions—Breadths to Length 6.27

Depths to Length—Upper Deck to top of Keel 9.73

Destined Voyage Monte Video If Surveyed while Building, Afloat, or in Dry Dock While building afloat.

Built at Grangemouth

When built 1891 & 92 Launched 29<sup>th</sup> March, 1892.

By whom built Emth. Skypd. Comp.

Owners C. H. Matzen

Managers

(Where necessary to be entered in Reg. Book.)

Residence Hamburg

Port belonging to Hamburg

LENGTH on deck Feet. 238 Inches. 6 BREADTH—Feet. 38 Inches. 0 DEPTH—Feet. 22 Inches. 3  
as per rule Moulded..... Top of Floors to Upper Deck Beams.. No. of Decks with Flat laid 2  
No. of Tiers of Beams 2

Dimensions of Ship per Register, Length 248.2 breadth 38.45 depth 22.05. Moulded depth, ft. 23 in. 9. Round up of Beam 7 ins.

## FORGINGS AND CASTINGS.

KEEL, Bar or Side Plates, depth and thickness 9 1/2 x 2 1/2  
STEM, moulding and thickness 9 x 2 1/2  
STERN-POST, do. 9 x 2 1/2  
MAIN-PIECE OF RUDDER, diameter at head 6 1/4  
" " at heel 3 1/4  
RUDDER, how constructed Ordinary Way  
Can the Rudder be unshipped afloat? yes

## FRAMING.

FRAME, Angles, or 1 Bars, for 2/3 length amids. 5 3 1/2 8 5 3 1/2 8  
Do. for 1/3 at each end 5 3 1/2 7 5 3 1/2 7  
Do. in way of Double Bottoms 24 24  
Distance of Frames from moulding edge to moulding edge, all fore and aft 24 24  
REVERSED FRAME, Angles 3 1/2 3 1/2 8 3 1/2 3 1/2 8  
FLOORS, depth and thickness of Floor Plate at mid line for 2/3 length amids. 25 10 24 10  
" thickness at the ends of vessel 9 x 8 9 x 8  
" depth at 2/3 the half breadth, as per Rule 12 1/4 12 1/4  
" height extended at the Bilges 49 49  
FLOORS & BRACKETS, in Cell Dble Bottoms  
" distance apart  
CENTRE GIRDER, in Dbl. Btm., dpth & thcknss  
" Angles, Top Bottom  
SIDE GIRDERS, number and thickness  
" Angles  
MARGIN PLATE, depth (exclusive of flange) and thickness  
" Angles  
INNER BOTTOM PLATING, br'dth & thckn's of Middle Line Strake  
" RemainderBEAMS, in Deck, Single Angle, Bulb Angle, Plate or Tee Bulb 9 9 9 9  
Angles on Upper Edge 3 1/2 3 7 3 1/2 3 7  
Average space 4.8 4.8  
LOWER DECK, Plate or Tee Bulb 9 9 9 9  
Angles on Upper Edge 3 1/2 3 7 3 1/2 3 7  
Average space 4.8 4.8  
BEAMS, Hold, Plate or Tee Bulb  
Angles on Upper Edge 7 1/2 3 9 7 3 8  
Average space 4.8 4.8  
POOP or BRIDGE DECK, Single Angle, Bulb Angle, Plate or Tee Bulb 7 1/2 3 10 7 3 10  
Angles on Upper Edge 4.8 4.8  
Average space 4.8 4.8  
BEAMS, Forecastle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb 7 1/2 3 10 7 3 10  
Angles on Upper Edge 4.8 4.8  
Average space 4.8 4.8  
PILLARS, In 'tween Decks, at Centre line. Size 2 3/4 2 3/4  
" " " Spacing 4.8 4.8  
" " " Quarter Size 3 5/8 3 5/8  
" " " Spacing 4.8 4.8  
" " " Quarter Size 4.8 4.8  
" " " SpacingWEB-FRAMES, Breadth and thickness  
" Number and Spacing  
Number of Side Stringers, breadth and thickness  
Size of Angles or Tee Bars to Web-Frames

## KEELSONS AND STRINGERS.

CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate 18 13 18 13  
Rider Plate 11 3/4 13 11 3/4 13  
Bulb Plate to Intercoastal Keelson  
Horizontal Plates above floors  
Angles 5 1/2 4 9 5 1/2 4 9SIDE KEELSON, Angles 5 1/2 4 9 5 1/2 4 9  
Bulb Plate for length  
Intercoastal Plate for length  
Attached to outside Plating with Angle 3 3 7 3 3 7BILGE KEELSON, Angle 5 1/2 4 9 5 1/2 4 9  
Bulb Plate for length  
Intercoastal Plates for len.  
Attached to outside Plating with AngleBILGE STRINGER, Angles Bulb Angles 9 3 1/2 10 9 3 1/2 10  
Bulb Plate for length  
Intercoastal Plates for len.  
Attached to outside Plating with AngleSIDE STRINGER, Angles Bulb Angles 9 3 1/2 10 9 3 1/2 10  
Bulb Plate for length  
Intercoastal Plate for len.  
Attached to outside Plating with AngleMain Deck Stringer Plate, on end of Beams, breadth and thickness 4.8 10 4.8 10  
Angle on ditto 4 1/2 x 4 1/2 9 4 1/2 x 4 1/2 9  
Tie Plates fore and aft, outside Hatchways 13 10 13 10  
Diagonal Tie Plates on Bms., No. of Prs. 5 13 10 13 10  
Flat of Deck\*, material and thickness P.P. 4 4Iron or Steel for length  
How fastened to Beams screw bolts & nuts  
Lower Deck Stringer Plate, on ends of Beams, breadth and thickness 3.4 9 3.4 9  
Is the Stringer Plate attached to the Outside Plating? yesAngles on ditto, No. 2 4 x 4 x 9 4 x 4 x 9  
Tie Plates, outside Hatchways 13 9 13 9  
Diagonal Tie Plates on Bms., No. of prs.  
Flat of Deck, material and thickness White Pine 2 1/2 2 1/2  
How fastened to Beams screw bolts & nutsHold Stringer Plate, on end of Beams  
Is the Stringer Plate attached to the Outside Plating?  
Angles on ditto, No.  
Tie Plate outside Hatchways  
Flat of Deck, material and thicknessPoop or Bridge Deck Stringer Plate, breadth and thickness 3.2 7 3.2 7  
Angle 3 x 3 x 7 3 x 3 x 7  
Tie Plates on Beams 10 7 10 7  
Flat of Deck, material and thickness 4. P. 3 3Forecastle Deck Stringer Plate, b'dth & thcknss 3.0 7 3.0 7  
Angle 3 1/2 x 3 x 7 3 1/2 x 3 x 7  
Tie Plates on Beams 10 7 10 7  
Flat of Deck, material and thickness P.P. 3 3

## PLATING.

FLAT PLATE KEEL, breadth and thickness 4 3/2 12 4 3/2 12  
PLATES in Garboard Strakes, br'dth & thckn's 11 x 10 11 x 10  
from Garboard to lower part of Bilges  
State Thickness of Plating in way of Double Bottom  
Bilges, number of Strakes, and thickness 3 11 12 x 11 11 12 x 11  
Of doubling at Bilge, or increased thickness, and length applied all fore & aft 1 1from up. part of Bilge to Ir. edge of Sh'rstrake 10 10  
Strake in way of Lower Deck Beams 52 13 52 13  
Sheerstrake, breadth and thickness 7 7  
Poop or Bridge Sides 7 7  
Forecastle Sides 7 7

Lengths of Plating 8 frame spaces



**BULKHEADS.** No. in Vessel *One* Reqd. by Rule *One*

Thickness.	Angles.	Spacing.	Height up.	Singl. or Dbl. Frames.
W. T. BULKHEADS... <i>20</i>	Vrtcl. <i>5 1/2 x 3/8</i>	<i>30</i>	<i>10</i>	<i>Double</i>
	Hrztcl. <i>5 1/2 x 3/8</i>	<i>14 1/2</i>		
	Vrtcl. <i>6 1/2 x 3/8</i>			
	Hrztcl. <i>6 1/2 x 3/8</i>			

Number of Breasthooks *6*

Crutches *5*

LONGITUDINAL... Vrtcl

Are the outside Plates doubled two spaces of Frames in length? *Yes*

The **FRAMES** extend in one length from *Keel* to *Forecastle* Riveted through Plates with *7* in. Rivets, about *6 1/2* apart

The **REVERSED ANGLES** on floors and frames extend from *middle line* to *Upper Deck* and to *Forecastle* alternately.

**RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c.**

**Carboard**, double riveted to Bar Keel or Flat Plate, with rivets *1 1/2* in. diameter, averaging *5 1/2* ins. from centre to centre.

**Edges of Carboards** and to upper part of Bilge, worked clench, double riveted; with rivets *7/8* in. diameter, averaging *3 1/2* ins. from centre to centre.

**Butts from Keel to turn of Bilge**, worked clench, treble or double riveted; treble for *whole* length, with rivets *7/8* in. dia., averaging *3 1/2* ins. from cr. to cr.

**Butts of all** Strakes at *Bilge* for *whole* length, treble riveted with Butts *overlapped* thicker than the plates they connect, 4 butts of 1 stroke quadruple.

**Edges from Bilge to Sheerstrake**, worked clench, double or single riveted; with rivets *7/8* in. diameter, averaging *3 1/2* ins. from centre to centre.

**Butts from Bilge to Sheerstrake**, worked clench, treble or double riveted; treble for *whole* length, with rivets *7/8* in. dia., averaging *3 1/2* ins. from cr. to cr.

**Edges of Sheerstrake**, double or single riveted.

**Butts of Main Stringer Plate**, treble riveted for *whole* length, with rivets *7/8* in. dia., averaging *3 1/2* ins. from cr. to cr.

**Butts of Inner Bottom Plating**, riveted for *length* amidships.

**Breadth of edge laps of Shell Plating** in double riveting *5 1/4*

**Butt Straps of Shell Plating**, breadth and thickness *16 1/2 x 1 1/2*

**Butt Straps of Keelsons, Stringer and Tie Plates**, treble or double riveted? *Double*

Manufacturer's name or trade mark of the *Iron or Steel* (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c. *W. T. Bulhead, Dalgell, Consett, Middlesbrough, Siemens, Martin, Bloch, Hain, Hall, Hildesheim, Hambro, &c.*

**Workmanship.** Are the butts of plating planed or otherwise fitted? *Planed & overlapped*

Is the riveted work properly closed? *Yes*

Are the liners between the frames 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, except a few of garb. butts.*

Are the butts of Plating, Stringers, &c., properly shifted and strapped or lapped? *Yes*

**MASTS AND SPARS.** As per approved drawings.

	Material.	Total length.	DIAMETER AND THICKNESS.				Number of Plates in Round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS.....	Fore ....	Steel	83' 11"	27 x 10/20	21 x 8/20	22 1/2 x 9/20	18 x 8/20	2	2 1/2 x 3/8	Double	Treble & Double
	Main ....	Do	86' 10"	22 1/2 x 7/20	17 1/2 x 6/20	18 1/2 x 6/20	15 1/2 x 6/20	2	2 1/2 x 3/8	Do	Do
	Mizen ....	Do	86' 10"	22 1/2 x 7/20	17 1/2 x 6/20	18 1/2 x 6/20	15 1/2 x 6/20	2	2 1/2 x 3/8	Do	Do
BOWSPRIT .....	Fore ....	Steel	21' 11"	25 1/2 x 9/20	21 x 8/20	22 1/2 x 9/20	18 x 8/20	2	2 1/2 x 3/8	Do	Do
	Main ....	Do	21' 11"	25 1/2 x 9/20	21 x 8/20	22 1/2 x 9/20	18 x 8/20	2	2 1/2 x 3/8	Do	Do
	Mizen ....	Do	21' 11"	25 1/2 x 9/20	21 x 8/20	22 1/2 x 9/20	18 x 8/20	2	2 1/2 x 3/8	Do	Do
TOPMASTS .....	Fore ....	Steel	51' 11"	22 1/2 x 9/20	18 x 8/20	18 1/2 x 6/20	15 1/2 x 6/20	2	2 1/2 x 3/8	Single	Treble
	Main ....	Do	51' 11"	22 1/2 x 9/20	18 x 8/20	18 1/2 x 6/20	15 1/2 x 6/20	2	2 1/2 x 3/8	Single	Treble
	Mizen ....	Wood	51' 11"	22 1/2 x 9/20	18 x 8/20	18 1/2 x 6/20	15 1/2 x 6/20	2	2 1/2 x 3/8	Single	Treble
YARDS.....	Fore ....	Steel	83' 11"	"	20 x 3/16	"	10 x 3/16	2	2 1/2 x 3/8	Do	Do
	Main ....	Do	83' 11"	"	20 x 3/16	"	10 x 3/16	2	2 1/2 x 3/8	Do	Do
	Grossjack ..	Do	83' 11"	"	20 x 3/16	"	10 x 3/16	2	2 1/2 x 3/8	Do	Do
FORE TOPMATE YARDS	Lower ....	Do	75' 11"	"	18 x 3/16	"	9 x 3/16	2	2 1/2 x 3/8	Do	Do
	Upper ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
	Lower ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
MAIN .....	Lower ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
	Upper ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
	Lower ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
MIZEN .....	Lower ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
	Upper ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
	Lower ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
JIGGER .....	Lower ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
	Upper ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do
	Lower ....	Do	67' 0"	"	16 x 3/16	"	8 x 3/16	2	2 1/2 x 3/8	Do	Do

Remainder of Spars *Wood*

**Rigging.** Material and Size, *Shrouds 4 x 1/4 steel wire* *Stays 4 x 1/4 steel wire* *Quality Good*

**Sails.** *Suits of all principal* Sails, and the following Spare Sails *Do*

EQUIPMENT No. 204881

LETTER t

ANCHORS.

Number of Certificate.		WEIGHT, EX STOCK		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.				WEIGHT REG. PER RULE		Description of Anchor.	Makers.	Where and when tested and Superintendent.			
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts	qrs.	lbs.				Cwts.	qrs.	lbs.
14415	1st Bower...	34	1	19	8	2	11	32	0	0	0	34	0	0	Rodgers Patent	H. Griffin	14th March 92, E.R. Silt
14416	2nd „ ...	32	1	16	8	2	4	30	10	0	0	32	0	0	Do	Do	do 16th do do
14417	3rd „ ...	30	1	4	7	1	24	28	18	0	14	30	0	0	Do	Do	do do do do
	4th „ ...																
	Collective weight	97	0	11								97	0	0			
14411	Stream .....	10	3	0	2	2	16	12	13	0	14	10	3	0	Ordinary	Do	do 14th do do
14410	Kedge .....	5	2	0	1	1	22	7	16	1	0	5	2	0	Do	Do	do do do do
14409	2nd Kedge ..	2	2	6	0	2	26	5	2	2	0	2	2	0	Do	Do	do do do do

If Patent state Name of Patentee.

ANCHORS AND HARDS

**CHAIN CABLES.**

Number of Certificate.	Fathoms	Size.	Test per Certificate. Tons.	Weight of Chain Cable.	Fathoms & Size. Per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Fathoms	Size.	Fathoms & Size. Per Rule.
12817	135-3 1/2	1 1/2	63 1/4	238.2.27	178	Link	Do	Do	Do	90	7 1/2	90-6
Iron Stream Chain or Steel-Wire	75-3 1/2	1	27 x 18	38.2.16	75-1 1/2	Do	Do	Do	Do	90	7 1/2	90-6
Towline* if steel wire	90	3 1/2	36		90-3 1/2	Steel Wire	New River & Co. Glasgow					

Boats *2 life boats, 1 big & 1 dingy*

Pumps, Number *2* Main *1* in *forepeak*

Windlass *Immerson's* *Hall's* *Patent*

Number of Scuppers, and number and dimensions of **Freeing Ports** *4 scuppers & 5 ports on each side, namely 3 ports of 3' x 2' 6" & 2 ports of 2' 0" x 2' 0"*

**Cargo Hatchways.** How formed? *Iron Comings*

State size **No. 1 Hatch** (Forward) *8 1/2 x 7 1/2*

Number of **Web Plates, Shifting Beams, and Fore and Afters** to each hatch *No. 1 Hatch 16 ft x 12 ft. No. 2 Hatch 16 ft x 12 ft. No. 3 Hatch 8 ft x 7 ft.*

**Bulwarks.** Height above deck and description *4' 9" of 1/2" steel*

The above is a correct description.

Builder's Signature (here only) *H. Miller*

Surveyor's Signature *H. Paulsen*

Surveyor to Lloyd's Register of British and Foreign Shipping.

Order for Special Survey No. *539*

Date *25th Sept. 1891*

Order for Ordinary Survey No. *162*

Date *16th* in builder's yard

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the process of riveting

3rd. When the beams were in and fastened, and before the decks were laid

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

5th. After the ship was launched and equipped

State dates and initials of letters respecting this case *1891: Nov. 10. 16. 23. 20; Dec. 5. 8. 14. 21. 28. 1892: Jan. 8. 15. 18. 25; Feb. 1. 8. 15. 22. 29; March 7. 14. 21. 28. April 5. 12. 19. 25; May 2. 9. 16. 24.*

General Remarks (State quality of workmanship, &c.) *Material & Workmanship Good.*

This vessel is built in accordance with the approved drawing of Midship Section forwarded to the Secretary on the 5th May '92, and in conformity with the Rules.

The approved Profile Drawing, Plan of Masts & Spars, Rigging Plan, Plan of Plying Arrangement, & 2 Stowing Reports are sent herewith.

**PARTICULARS FOR RECORD IN THE REGISTER BOOK.**

Length of Poop *53* ft., R.Q.D. or Break *At*, Bridge Dk. *At*, Forecastle *26* ft. (in feet and tenths).

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book *2 Sts.*

Official No. *2 Sts.*

**PARTICULARS OF WATER BALLAST.** *Not any.*

Double bottom, aft, length *and water capacity in tons*

Double bottom, forward, length *and water capacity in tons*

Double bottom, constructed on the cellular system, length *and water capacity in tons*

Fore peak tank, water capacity in tons *After peak tank, water capacity in tons*

Midship deep tank, length *and water capacity in tons*

Other tanks, if fitted, length *and water capacity in tons*

The above have been tested as required by the Rules.

(If necessary, furnish further information by sketch.)

How are the surfaces preserved from oxidation? Inside *Portland Cement & Paint* Outside *Paint*

**FREEBOARD** assigned by the Committee, as per Secretary's Letter, *11/6/92*

dated *11/6/92*

State if marked on Vessel's sides in accordance with Notice No. 572 *Yes*

The amount of Entry Fee *£ 4 : 0 : 0* is received by me, *H. Paulsen*

Special... *£ 64 : 18 : 0*

Certificate\* *£ 4 : 16 : 0*

Travelling Expenses, if any *£ 4 : 16 : 0*

I am of opinion this Vessel should be Classed *100 A1 Steel*

Surveyor to Lloyd's Register of British & Foreign Shipping.

**Committee's Minute** *FRI 27 MAY 1892*

Character assigned *100 A1 Steel*

*2 arc 25 lbs.*

*This vessel appears to have been built in accordance with the Rules and the approved plans, and it is submitted that she is eligible to be classed 100 A1 (Steel) as recommended.*

*100 A1 (Steel)*

*2 Sts.*

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