

ar, Awning or  
rt Awning Dk.

# IRON OR STEEL STEAMER.

(Received at London Office) 29 JUN 1893

State if Report is also sent on the Machinery of the Vessel *yes*  
Date of completion of Report *28<sup>th</sup> June 1893* Port of *Leith*

7221 Survey held at *Kinghorn* Date, First Survey *9<sup>th</sup> Decr. 1892* Last Survey *16<sup>th</sup> June 1893*  
The *Awning Dk. Steel Screw Steamer "Saturnus"* Rig *Schooner - 2 masts.*

VAGE under  
Image Deck...  
Tonnage Dk.  
3rd, 4th, Spar or  
ning Dk.  
Under Upper Dk. 856.40  
Poop  
Rais d Gr.  
or Break  
Bridge House  
Houses on Deck 56.82  
excess of Hatchways  
Forecasts  
bove Crown of  
ine Room ..  
s Tonnage 913.22  
Crew Space 42.17  
bove Crown of  
ine Room ..  
AGE FOR FEES... 871.05  
Engine Room 292.23  
Navigation Spaces 12.66  
304.89  
ster Tonnage  
ut on Beam... 566.16

SPAR, AWNING OR PART AWNING-DECKED VESSEL,  
or a Vessel having a continuous Shade Deck.

CLASS *100 A1 "Awning"*

FEET.

Half Breadth (moulded) ..... 14.50  
Depth from upper part of keel to top of Main Deck Beams ..... 14.58  
Breadth of Half Midship Frame (as per Rule) ..... 26.32  
1st Number ..... 55.40  
Length ..... 196.5  
2nd Number ..... 10886.1  
Proportions—Breadths to Length ..... 6.775  
Depths to Length—Main Deck to top of Keel ..... 13.47  
Destined Voyage *Manila*

Master *M. G. Garter*

Year of Appointment (1) As Master in service of  
owner of present vessel - 1892  
(2) As Master of this  
vessel - 1893

Built at *Kinghorn*

When built *1893* Launched *14<sup>th</sup> June '93*

By whom built *J. Scott & Co*

Owners *MacLeod & Co*

Managers

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

Residence *Manila*

Port belonging to *Leith*

If Surveyed while Building, Afloat, or in Dry Dock *Building & Afloat*

TH on Deck Feet. Inches. BREADTH—Feet. Inches. DEPTH, top of Floors to Spar or Awn. Dk. Beams Feet. Inches. Power of Horse. No. of Decks with flat laid 2  
er Rule..... 196 6 Moulded. 29 0 Do. do. Main Deck Beams .... 11 10 2 Engines 250 No. of Tiers of Beams 2

Dimensions of Ship per Register, Length 198 breadth 29.25 depth 19.15 Spar or Awn. Dk. Moulded depth, ft. 21 ins. 3 3/4 To Main Dk. Beam, Main Dk. 7 ins.

## FORGINGS AND CASTINGS

L, Bar or Side Plates, depth and thickness  
I, moulding and thickness .....  
RN-POST for Rudder do. do. ....  
" for Propeller.....  
N PIECE of Rudder, diameter at head ..  
do. at heel ..  
DER, how constructed *Ordinary Way*  
he Rudder be unshipped afloat? *yes*

## FRAMING.

HE Angles, or Bars for 1/2 length amidships  
for 1/2 at each end .....  
in way of Double Bottoms .....  
ce of Frames from moulding edge to  
lding edge, all fore and aft .....  
ERSED FRAME Angles .....  
ORS, depth and thickness of Floor Plate,  
at mid-line for 1/2 length amidships .....  
in way of Engines and Boilers.....  
thickness at the ends of vessel .....  
depth at 1/2 the half-bdth. as per Rule ..  
height extended at the Bilges .....  
ORS & BRACKETS, in Cell Dble Bottoms  
Distance apart.....  
RE GIRDER, in Double bottom, depth  
and thickness .....  
Angles, Top 3 1/2 x 3 1/2 x 3 1/2 Bottom  
GIRDERS, number and thickness. *One.*  
Angles .....  
GIN PLATE, depth (exclusive of flange)  
and thickness .....  
Angles .....  
R BOTTOM PLATING, breadth and  
thickness of Middle Line Strake  
" thickness in Engine and Boiler space  
" " Remainder in Holds .....  
IS, Spar or Awning Deck, Single Angle,  
Bulb Angle, Plate or Tee Bulb.....  
Angles on upper edge .....  
Average space .....  
IS, Main Deck, Single Angle, Bulb  
Angle, Plate or Tee Bulb.....  
Angles on upper edge .....  
Average space .....  
IS, Lower Deck, Single Angle, Bulb  
Angle, Plate or Tee Bulb.....  
Angles on upper edge .....  
Average space .....  
IS, Hold, or Orlop, Plate or Tee Bulb ..  
Angles on upper edge .....  
Average space .....  
IS, Poop Deck, Angle, Bulb Angle, Plate  
or Tee Bulb .....  
Angles on upper edge .....  
Average space .....  
IS, Bridge Deck, Angle, Bulb Angle,  
Plate, or Tee Bulb.....  
Angles on upper edge .....  
Average space .....  
IS, Forecastle Deck, Angle, Bulb Angle,  
Plate or Tee Bulb .....  
Angles on upper edge .....  
Average space .....  
ARS, In 'tween Decks, Size and Spacing  
" Hold .....  
FRAMES, In Fore Body, No. and spacing  
No. of Side Stringers " "  
FRAMES, In After Body, No. and spacing  
" " " "  
No. of Side Stringers " "  
Size of Angles or Tee Bars to Web Frames  
KET PLATES to Stringers between  
Frames, depth and thickness .....

Inches in Ship.	Inches per Rule.	Inches in Ship.	Inches per Rule.	Inches in Ship.	Inches per Rule.
7 x 14	7 1/2 x 13	6 3/4 x 2	6 3/4 x 2	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 2	6 3/4 x 2	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4
6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4	6 3/4 x 1 1/4

*Dep. approved Mid Section*

## KEELSONS AND STRINGERS.

CENTRE LINE KEELSON, Vertical Plate above  
floors, Through Plate, or Intercoastal Plate  
" Rider Plate .....  
" Bulb Plate to Intercoastal Keelson .....  
" Horizontal Plates on Floors .....  
" Angles .....  
SIDE KEELSON, Angles.....  
" Bulb or Plate above floors, for length  
" Intercoastal Plate, for length  
" Attached to outside Plating with Angle...  
BILGE KEELSON, Angles.....  
" Bulb or Plate above floors, for length  
" Intercoastal Plate, for length  
" Attached to outside Plating with Angle ..  
BILGE STRINGER Angles.....  
" Bulb Plate, for length  
" Intercoastal Plate, for length  
" Attached to outside Plating with Angle ..  
SIDE STRINGER Angles.....  
" Bulb or Intercoastal Plate, for whole len.

Spar, or Awning Deck Stringer Plates, on,  
ends of Beams, breadth and thickness)  
" Angle on ditto .....  
" Tie Plates, fore and aft, outside Hatchways  
" Diagonal Tie Plates on Bms. No. of prs.  
" Flat of Deck \* Iron or Steel, for len.  
" " Wood *Teak* Material and thickness  
" How fastened to Beams *Wood screws.*  
Main Deck Stringer Plate, breadth & thickness  
" Angles on ditto, No. 2 .....  
" Tie Plates, outside Hatchways .....  
" Diagonal Tie Plates on Bms. No. of prs.  
" Flat of Deck \* Iron or Steel, for len.  
" " Wood *all forces of* Material and thickness  
" How fastened to Beams *Bolts & Nuts.*  
Lower Deck Stringer Plates, br'dth & thickn's  
" Angles on ditto, No. ....  
" Tie Plates, outside Hatchways .....  
" Flat of Deck \* Material and thickness...  
" How fastened to Beams .....

Hold, or Orlop Stringer Plate, br'dth & thckn's  
" Angles on ditto, No. ....  
" Tie Plates, outside Hatchways .....  
" Flat of Deck. Material and thickness ...  
" How fastened to Beams .....

Poop Deck Stringer Plate, breadth & thickness  
" Angles on ditto.....  
" Tie Plates .....  
" Flat of Deck. Material and thickness ...

Bridge Deck Stringer Plate, br'dth & thickness  
" Angle on ditto .....  
" Tie Plates .....  
" Flat of Deck. Material and thickness ...

Forecastle Deck Stringer Plate, br'dth & th'kns  
" Angle on ditto .....  
" Tie Plates .....  
" Flat of Deck. Material and thickness .....

## PLATING.

FLAT PLATE KEEL, breadth and thickness  
" Doubling or increased thickn's & len. appl.  
PLATES in Garboard Strakes, breadth & thickn's  
" from Garboard to lower part of Bilges ....  
" State Thickness of Plating in way of Double Bottom.  
" Bilges, No. of Strakes and thickness 2.  
" Of doubling at Bilge, or increased thickness,  
and length applied 1/2 L  
" from up. part of Bilge to l. edge of Sh'rstrake  
" Main Sheerstrake, breadth and thickness... 3 1/2  
" Of doubling at Sh'rstk. & lng. applied 3 1/2 L  
" from Main to Spar Dk. or Awn. Dk. Sh'rstk  
" Spar or Awn. Dk. Sh'rstk., br'dth & thckn's  
" Poop sides .....  
" Bridge sides .....  
" Forecastle sides .....  
Lengths of Plating *7 frame spaces.*

Inches in ship. 16ths or 20ths in Ship. Inches per Rule Or as Approved. 16ths or 20ths per Rule. Approved.

41	9	41	9
8	8	8	8
9	9	9	9
1	1	1	1
8	8	8	8
3 1/2	11	3 1/2	11
20	8	20	8
6	6	6	6
6	6	6	6

\* If Iron or Steel Deck, state if whole or part, and if wood deck to limit thereon.



BULKHEADS. No. in Vessel 4 No. Reqd. by Rule 4

Ceiling betwixt Decks, thickness and material 1 3/4 p.p.

W. T. BULKHEADS } Thickness 6 to 5 20 Angles. Vrtel. 3 1/2 x 3 x 5/8 3.0 Hrztntl. 8.0 4.8 Spacing. 3.0 Height up. 3 to string & 1 to head Double Sngl. or Dbl. Frames.

Number of Breasthooks 6 PARTITIONS .. Crutches 4 LONGITUDINAL Vrtel.

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

The FRAMES extend in one length from Margin Plate to Gunwale Riveted through Plates with 3/4 in. Rivets, about 5 1/4 apart

The REVERSED ANGLE on floors and frames extend from middle line to top of main A.R. stringer bar.

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

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

Edges of Garboards and to upper part of Bilge, worked clench, double riveted; with rivets 3/4 in. diameter, averaging 3 1/8 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, treble or double riveted; treble for 1/2 length; with rivets 3/4 in. dia., averaging 2 5/8 ins. from cr. to cr.

Butts of all Strakes at Bilge for 1/2 length, treble riveted with Butts Straps overlapped thicker than the plates they connect.

Edges from Bilge to Main Sheerstrake, worked clench, double or single riveted; with rivets 3/4 in. diameter, averaging 3 1/8 ins. from centre to centre.

Butts from Bilge to Main Sheerstrake, worked carvel, treble or double riveted; treble for whole length; with rivets 3/4 in. dia., averaging 2 5/8 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. Spar or Awning Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Spar or Awning Sheerstrake, double riveted whole length amidships.

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

Butts of Inner Bottom Plating double riveted for 2 x B. space length. Butts of Centre Girder double straps double riveted.

Breadth of edge laps of Shell Plating in double riveting 4 1/2 Breadth of edge laps of Shell Plating in single riveting 2 1/2

Butt Straps of Shell Plating, breadth and thickness 16 3/4 x 9 3/4 x 8 x 13-9-8 x 6 Butts, If Lapped, breadth of laps 7 1/2

Butt Straps of Keelsons, Stringer and Tie Plates, treble or double, riveted Treble & 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.? Consett, Lancashire, Parkhead, Glasgow, Motherwell, Newcastle on Tyne.

Siemens Martin

Workmanship. Are the butts of plating planed or otherwise fitted? Planed & overlapped from garb to strake under sheerstrake.

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 Are any rivets break into or through the seams or butts of plating? No

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

MASTS, SPARS, &c.

2 wood Pole	Fore	Main	Mizen	Material	Total length	DIAMETER AND THICKNESS				No. of Plates in round	ANGLES		RIVETING	
						At Partners	Heel	Hounds	Head		Number	Size	Seams	Butts
LOWER MASTS				P.P.	40 1/2	17								
				0	42 1/2	17								

Bowspit

Topmasts, Yards and Remainder of Spars Wood

Rigging, Material and Size, Shrouds Iron Wire Stays 0

Sails. One complete Suit of Sails and the following spare sails

EQUIPMENT No. 122468 LETTER K ANCHORS.

Number of Certificate	1st Bower	2nd	3rd	4th	Collective weight	Stream	Kedge	2nd Kedge	WEIGHT, EX STOCK				TEST, PER CERTIFICATE				WEIGHT REQ. P.R. RULE				Description of Anchor	Makers	Where and when tested and Superintendent			
									Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			lbs.	Cwts.	qrs.	lbs.
13559									15	1	0	4	0	0	16	14	1	14	15	1	0	Porters 1. S.	1. Abbot & Co.	Low Walker	28th April 93	C. L. D. Davis
13560									15	1	0	4	0	0	16	14	1	14	15	1	0	Do	Do	Do	Do	Do
13558									13	2	14	3	1	14	15	5	3	21	13	0	0	Do	Do	Do	Do	Do
13573									5	2	0	1	2	0	7	16	1	0	5	1	0	Common 1. S.	Do	Do	2nd May 93	Do
13582									2	2	0	0	2	21	5	0	0	0	2	2	0	Do	Do	Do	Do	Do
13583									1	3	7	0	2	0	4	7	0	21	1	2	0	Do	Do	Do	Do	Do

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	HAWSERS AND WARPS.	
													Fathoms	Size
6591	210	1 5/16	46 1/2 x 31	192.2.0	210 - 1 5/16	Stud Link	1. Abbot & Co. (Lim)	Low Walker 28th May 93 C. L. D. Davis	Low Walker	90	8	90 - 7		
6486	60	1 1/16	20 5/8 x 13 3/4	24.1.22	60 - 1 1/16	Do	Do	Do 28th Sept 92 Do	Do	90	5	90 - 5		
Towline*if steel wire	180	3 1/2	2 1/2		90 - 3	Steel Wire	V.B. Rope Mfg. Co.	10th June 93						

Boats 4 life Boats, 1 Cutter & 1 Gig

Pumps, Number 4 Diameter of Barrel and Tail Pipe 5 x 2 1/2 x 4 x 2

The Windlass is Harfields Iron Patent Capstan

Engine Room Skylights.—How constructed? Teak square lights in cover bolted to iron casing.

What arrangements for deadlights in bad weather? Canvas Cover

Coal Bunker Openings.—How constructed? Circular Cast Iron How are lids secured? By Stud & Check Height above deck? 18 inch

Number of Scuppers, and number and dimensions of Freeing Ports, &c. On each side 5 scuppers & open bulwarks

Cargo Hatchways.—How formed? Steel Comings Hatches.—If strong and efficient? Yes

State size No. 1 Hatch (Forward) 8' x 10' No. 2 Hatch 7' 4" x 10' 0" No. 3 Hatch No. 4 Hatch

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch 1 wood fore & after in each

Bulwarks, height above deck and description Iron Rail & Stanchions Main Rail, material and size Teak 8 1/2 x 2 1/2

The above is a correct description.

Builder's Signature (here only.) John Scott & Co. Surveyor's Signature H. Paulsen

Surveyor to Lloyd's Register of British and Foreign Shipping

Form No. 1 C.

The Surveyors are requested not to



Order for Special Survey No. **579**  
Date: **23<sup>rd</sup> Novbr. 1893**  
Order for Ordinary Survey No. \_\_\_\_\_  
Date: \_\_\_\_\_  
No. **84** in builder's yard.

DATE OF SURVEYS  
held while building  
as per Section 18.  
**1892: 13<sup>th</sup> 24<sup>th</sup> & 30<sup>th</sup> Novbr. 12<sup>th</sup> Decbr. } M.  
1893: 28<sup>th</sup> Feb. 19<sup>th</sup> May }**

1st. On the several parts of the frame, when in place, and before the plating was wrought } **Built under special survey & surveyed:-**  
2nd. On the plating during the process of riveting } **1892 - Decbr. 9. 21.**  
3rd. When the beams were in and fastened, and before the decks were laid } **1893 - Jan. 9. 18. 27. Feb. 9. 18. March 1. 10. 28.**  
4th. When the ship was complete, and before the plating was finally coated or cemented } **April 4. 12. 19. 24. May 1. 8. 15. 26. June 1. 6. 7. 16.**  
5th. After the ship was launched and equipped } **Total No. of Visits 22**

State dates and initials of letters respecting this case

General Remarks (State quality of workmanship, &c.)

*Workmanship & Material Good.*

*This vessel is built in accordance with the approved drawing of Midship Section forwarded to the Secretary on the 14<sup>th</sup> June '93, and in conformity with the Rules.*

*The running Deck gutter waterway has been flooded & made watertight.*

*An Electric light Installation has been fitted by Messrs. Holms of Newcastle.*

*The approved drawings of Profile & Pumping Arrangement and a Ship Lifting Report are sent herewith, as also a Report on the Electric light Installation.*

Particulars for Record in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. or Break ☒ ft., Bridge Dk. ☒ ft., F' castle ☒ ft., (feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated ☒

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 would appear in the Register Book) *1 BR & Awng BR*

Official No. \_\_\_\_\_; Signal Letters \_\_\_\_\_

Particulars of WATER BALLAST—

Double bottom, aft, length ☒ and water capacity in tons ☒. Double bottom, forward, length ☒ and water capacity in tons ☒

Double bottom, under engines and boilers, length ☒ and water capacity in tons ☒. If under Engines only, or Boilers only, state which ☒

Double bottom, constructed on the cellular system, length *152 ft* and water capacity in tons *158 tons*

Fore peak tank, water capacity in tons *10*. 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 *now* 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, dated *19<sup>th</sup> May 1893*—

In Summer	8 ft. 4 ins.	= 1' 4" + 7' 3" to Awng. BR. To top of Wood, Iron or Steel Upper, Spar, Awning, or Part Awning Deck.
In Winter	8 ft. 6 ins.	
For Winter in North Atlantic	8 ft. 9 ins.	
Fresh Water above the centre of disc	3 3/4 ins.	

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

marked according to Printed Instructions

Amount of Entry Fee ..... £ 3 : - : - is received by me, *30.6.1893* *1.7.93* \* Certificate to be sent to *Leith office*

Special... £ 43 : 10 : -

Certificate\*. £ - : - : -

Travelling Expenses, if any £ 7 : 18 : -

Of opinion this Vessel should be Classed *100 A1 Steel Awng. Deck?* *H. Nielsen*  
Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **FRI 30 JUN 1893**

Character assigned *100 A1 Steel*  
*Awng. dk.*  
*with freeboard 8.8 1/4*  
*1 BR & Awng. dk*

*This Vessel appears to have been built in accordance with the Rules and the approved plans and it is recommended that she appears eligible to be classed 100 A1 ("Steel") Awning Deck with freeboard. The minimum freeboard of 8' 6" from centre of disc to top of statutory deck line at awning deck, now assumed on the Vessel's side, to be classed as 100 A1 ("Steel") Awning Deck with freeboard, as shown in the accompanying certificate form to be inserted in the Certificate of Classification.*

*100 A1 ("Steel") Awning dk with freeboard*  
*1 BR & Awng. dk*  
*M.B. = CUB D.B. (particulars)*

*The Surveyor should be requested to state the moulded depth to the main deck, and also whether the requirements of Circular No. 880 have been complied with in this case.*

*29/6/93*

LT# 563-0078 (22)

Lloyd's Register Foundation