

IRON SHIPS.

Rec 30/6/70

Survey held at Glasgow Date 29th Dec^r 1869 to 29th June 1870
 the S. S. Ocean Master Cumming
 Image under tonnage deck 688.46
 Length of quarter deck 4.01
 Length of poop, foremast, or other erections on upper deck 420.37
 Length of spar deck 235.46
 Length of engine room 1071.91
 Gross tonnage, less new space 836.45
 Register tonnage, less on beam 40.93
 Built at Glasgow When built 1870 Launched 28th May
 By whom built London & Glasgow C^o Owners C. Williamson
 Port belonging to Leith Destined Voyage Mediterranean
 If Surveyed while Building, Afloat, or in Dry Dock Whilst Building & Afloat

Feet.	Inches.	Feet.	Inches.	Feet.	Inches.	Horse.	No. of Decks
Length aloft	230 0	Extreme Breadth	31 2	Depth from top of Upper Deck Beam to top of Floor	22 0	Power of Engines	130
Dimensions of Ship per Register, length 231.2 breadth 31.2 depth 21.85							
Keel, if bar iron, depth and thickness	8 1/2 x 3	Inches required per Rule.	8 1/2 x 3	Plates in Garboard Strakes, breadth and thickness	33	Inches required per Rule.	30 11/16
„ if plate iron, breadth and thickness	8 1/2 x 3	Inches required per Rule.	8 1/2 x 3	Ditto from Garboard to upper part of Bilges	10 1/16	Inches required per Rule.	10 1/16
Stem, if bar iron, moulding and thickness	8 1/2 x 3	Inches required per Rule.	8 1/2 x 3	„ from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold	9 1/16	Inches required per Rule.	9 1/16
„ if plate iron, breadth and thickness	7 1/2 x 5 1/2	Inches required per Rule.	7 x 5 1/2	„ from 3/4ths depth of Hold to lower edge of Sheerstrake	9 1/16	Inches required per Rule.	9 1/16
Stern-post, if bar iron, moulding and thickness	24	Inches required per Rule.	24	„ Sheerstrake, breadth and thickness	36	Inches required per Rule.	36 14/16 as Section
„ if plate iron, breadth and thickness	4 1/2 x 3	Inches required per Rule.	4 x 3	Butt Straps to outside plating, breadth and thickness	9 1/4	Inches required per Rule.	9 1/4 from 4/16 to 9/16
Distance of Frames from moulding edge to moulding edge, all fore and aft	3 2 3/4	Inches required per Rule.	3 2 3/4	Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	33	Inches required per Rule.	33 12/16 as per Section
Frames, Size of Angle Iron, single or double	21 1/2	Inches required per Rule.	22	Angle Iron on ditto	5	Inches required per Rule.	5 3 1/2 8/16
„ Reversed Iron, if to every frame or every frame	10 1/16	Inches required per Rule.	8 1/16	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	Now deck 7/16 plates	Inches required per Rule.	7/16 plates
Floors, depth and thickness of Floor Plate at mid line	3	Inches required per Rule.	3 2 3/4	Diagonal Tie Plates on ditto	edges single	Inches required per Rule.	edges single
Ditto ditto at Bilge Keelson	3 2 3/4	Inches required per Rule.	3 2 3/4	Planksheer, materials and scantlings	double riveted	Inches required per Rule.	double riveted
Size of Reversed Angle Iron, and No. one at top of Floor Plate	7 1/2	Inches required per Rule.	7 1/2	Waterway ditto ditto	5	Inches required per Rule.	5
Beams, Deck (No.) double Angle Iron, Plate, Tee, or Bulb Iron	2 3/4	Inches required per Rule.	2 3/4	Flat of Upper Deck, thickness and material	3	Inches required per Rule.	3 Yellow pine
„ double or single Angle Iron, on upper edge	48	Inches required per Rule.	48	„ how fastened to Beams	galv ^d nut & screw bolts	Inches required per Rule.	galv ^d nut & screw bolts
„ average space between	16 ft apart	Inches required per Rule.	16 ft apart	Ceiling between Decks and in Hold, thickness and material	3	Inches required per Rule.	3 R. pine & d. Elm
Hold, or Lower Deck (No.) double Angle, Tee, Plate, or Bulb Iron	15 1/2	Inches required per Rule.	15	Clamps or Spirketting ditto	20	Inches required per Rule.	20 13/16 as Section
„ double or single Angle Iron on edge	5 4 1/2	Inches required per Rule.	5 4 1/2	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	5 3/4	Inches required per Rule.	5 3/4
„ average space between	5 4 1/2	Inches required per Rule.	5 4 1/2	Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	5 4 1/2	Inches required per Rule.	5 4 1/2
Paddle, sided and moulded, thickness of Plate size of Angle Iron	5 4 1/2	Inches required per Rule.	5 4 1/2	Stringers in Hold	5 4 1/2	Inches required per Rule.	5 4 1/2
Engine	5 4 1/2	Inches required per Rule.	5 4 1/2	Flat of Lower Deck, thickness and material	5 3/4	Inches required per Rule.	5 3/4
Keelson, single or double plate, box or intercostal	5 4 1/2	Inches required per Rule.	5 4 1/2	Main piece of Rudder, diameter at head	3	Inches required per Rule.	3
Size of Plates	5 4 1/2	Inches required per Rule.	5 4 1/2	„ „ „ at heel	3	Inches required per Rule.	3
Size of Angle Irons	5 4 1/2	Inches required per Rule.	5 4 1/2	(Can the Rudder be unshipped afloat)	Yes	Inches required per Rule.	Yes
Side, single or double, plate, box or intercostal	5 4 1/2	Inches required per Rule.	5 4 1/2	Bulkheads, No. 5 Thickness of	7/16	Inches required per Rule.	7/16
Bilge (No. one) single or double, plate, box or intercostal	5 4 1/2	Inches required per Rule.	5 4 1/2	„ Height up To Deck	30	Inches required per Rule.	30
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	„ how secured to the sides of the ship	riveted to the frames	Inches required per Rule.	riveted to the frames
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	„ size of vertical angle irons	4 1/2 x 3	Inches required per Rule.	4 1/2 x 3
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	„ rivetted through plates with	(7/8 in.) rivets, about (6) apart.	Inches required per Rule.	(7/8 in.) rivets, about (6) apart.
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	reverse angle irons on the floors extend in one length	across the middle line from	Inches required per Rule.	across the middle line from
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	„ „ „ on the frames	„ „ „ from	Inches required per Rule.	„ „ „ from
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	on, how are the various lengths of plates or angle irons connected?	By Butt Straps & overlapping	Inches required per Rule.	By Butt Straps & overlapping
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Garboard, double or rivetted to keel, double or rivetted at upper edge, with rivets	(7/8 ins.) diameter, averaging (3 1/4 ins.) apart.	Inches required per Rule.	(7/8 ins.) diameter, averaging (3 1/4 ins.) apart.
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Edges from Garboards to upper part of bilge, worked clench, double or single rivetted; with rivets	(7/8 in.) diameter, averaging (3 1/4 ins.) apart.	Inches required per Rule.	(7/8 in.) diameter, averaging (3 1/4 ins.) apart.
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Butts from Keel to turn of bilge, worked carvel with butt straps	(11/16, 10/16) thick, double or single rivetted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart.	Inches required per Rule.	(11/16, 10/16) thick, double or single rivetted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart.
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Do the butt straps lap over and rivet through the lands of the strake below?	No	Inches required per Rule.	No
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clench, double or single rivetted; with rivets	(7/8 in.) diameter, averaging (3 1/4 in.) apart.	Inches required per Rule.	(7/8 in.) diameter, averaging (3 1/4 in.) apart.
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Do the butt straps lap over and rivet through the lands of the strake below?	No	Inches required per Rule.	No
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Edges of Sheerstrake, double or single rivetted? At upper edge	Single	Inches required per Rule.	Single
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	„ „ „ At lower edge	double	Inches required per Rule.	double
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Butts from bilge to planksheers, worked carvel with butt straps	(14/16, 9/16, 8/16) thick, double or single rivetted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart.	Inches required per Rule.	(14/16, 9/16, 8/16) thick, double or single rivetted; with rivets (7/8 in.) diameter, averaging (3 1/4 ins.) apart.
Intercostal between bilge & midline plate	5 4 1/2	Inches required per Rule.	5 4 1/2	Breadth of laps in double rivetting	(5 1/2 times)	Inches required per Rule.	Breadth of laps in single rivetting (3 1/4 times)

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?
 Planksheer, how secured to the plating of the sides { Explain by sketch } as per midship section
 Waterway „ „ planksheer and to the Beams { if necessary. }
 Deck Beams, how secured to the side? By welded knees riveted to the frame
 Old or Lower Deck ditto Do Do
 No. of breasthooks 5 crutches 5
 What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? B. Boiler
 Manufacturer's name or trade mark Glasgow Best
 We certify that the above is a correct description of the several particulars therein given.
 Builder's Signature J. Brown Surveyor's Signature J. M. Moverly
 1869-0317

8073 Iron
Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivets in double rivetted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? 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

Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? in one piece

Do the holes for rivetting 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 outer plate? Yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? a few in corner of 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 rivetting, quality of Materials, and if stamped with Maker's name.)

Schooner Rigged. — Iron masts. —

Tested at Newcastle upon Tyne by R. Burrell 7th March 1870. Tested at Newcastle upon Tyne by R. Burrell 7th March 1870.

N ^o .	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
	Fore Sails,	Chain	150	1 9/16	44.0.0	300	44	8576	1	23.2.13	23.11.3 1/2	23 1/2	23 5/10
	Fore Top Sails,		150	1 9/16	44.0.0	300	44	8578	1	23.2.10	23.11.3 1/2	23 1/2	23 5/10
	Fore Topmast Stay Sails	chain	60	1 5/16	✓	14/16	✓	8577	1	20.3.3	21.10.17	19.3.25	20 14/20
	Main Sails,	Hempen Stream Cable	90	1 9/16	✓	8	✓	8579	1	8.1.3	10.8.3	10.0.0	✓
	Main Top Sails,	Hawser	90	1 9/16	✓	8	✓	Stream	1	8.1.3	10.8.3	10.0.0	✓
		Towlines	90	5 1/2	✓	5	✓	8520	1	4.0.2	6.11.1	5.0.0	✓
		Warp	60	4	✓	5	✓	Kedges	1	2.0.0	4.10.0	2.1.0	✓
		All of <u>Good</u> quality.	60	3	✓	✓	✓	8521	1	2.0.0	4.10.0	2.1.0	✓

Her Standing and Running Rigging Galv'd Wire & Hemp sufficient in size and Good

She has One Long Boat and three others

The present state of the Windlass is New Capstan New and Rudder New Pumps Efficient, 2 Main, 2 In and Engine

Order for Special Survey No. 657 DATES of Surveys held while building 1st. On the several parts of the frame, when in place, and before the plating was wrought Under Special Survey from 29th Dec 1869 to 29th June 1870.
2nd. On the plating during the progress of rivetting
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
5th. After the ship was launched
Order for Ordinary Survey No. ✓ as per Section 18. 35 (visit)

State if she has a Spar Deck Yes Poop No or Forecastle No

General Remarks,

Fore, and Main masts of Iron plates 7/16 & 6/16 thick
Lands double, and Butts double, and treble riveted, Fore
mast 74 ft long by 24 1/2 dia^{rs}, Main mast 71 1/2 ft long
by 24 1/2 dia^{rs}. — The main deck of this vessel all fore
and aft is of Iron, plates 7/16 thick, Lands single. Butts
double riveted, and the Lower deck for 36 feet from forward
is of Iron plates 6/16th thick, and Watertight. — abaft this the
hold beams are joined as shown in Section spaced from
14 to 16 ft apart. —

In what manner are the surfaces preserved from oxidation? Inside Cement & oil paint
Ditto ditto Outside oil paint

I am of opinion this Vessel should be Classed A1

The amount of the Fee£ 5 : : is received by me,

Special£ 53 : 12 :
Certificate (if required)£ butts

Committee's Minute 1st July 1870

Character assigned A1

Jm Moverly

I am of opinion
this vessel is
fit for the class
and is
Decided