

IRON SHIP.

No. 5256 Survey held at Glasgow
On the S.S. Sika

Date, First Survey 6th April

Last Survey 21st December 1880

Master Johnson

TONNAGE under
Tonnage Deck } 2179.36
Ditto of Third, Span }
or Lower Deck. }
Ditto of Boop, or }
Rival Cr. Ho. }
Ditto of Houses }
on Deck } 91.85
Ditto of Forecastle } 36.75
Gross Tonnage } 2308.16
Less Crew Space } 59.40
2248.76
Less Engine Room } 738.61
Register Tonnage }
as out on Beam } 1510.15

ONE, OR TWO DECKED, THREE DECKED VESSEL.
SPAR, OR ANNING-DECKED VESSEL.
Feet.
HALF BREADTH (moulded) ... 17.65
DEPTH from upper part of Keel to top of Upper Deck Beams 27.9
GIRTH of Half Midship Frame (as per Rule) ... 40.75
1st NUMBER ... 86.30
1st NUMBER, if a 3-DECKED VESSEL, deduct 7 feet 7
LENGTH ... 313.0
2nd NUMBER ... 24821
PROPORTIONS—Breadths to Length ... 8.8
Depths to Length—Upper Deck to Keel ... 11.2
Main Deck ditto ... 14.9

Built at Whiteinch Glasgow
When built 1880 Launched 6 November
By whom built Aitken & Mansel
Owners Gallath & Son, South Africa
Port belonging to Glasgow
Destined Voyage Sydney via London
If Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on deck as per Rule ... 313.0 Feet. Breadth Moulded ... 35.0 Feet. DEPTH top of Floors to Upper Deck Beams ... 25.9 Feet. Power of Engines ... 300 Horse. No. of Decks with flat laid ... 2 No. of Tiers of Beams ... 2

Dimensions of Ship per Register, length, 313.0 breadth, 35.9 depth, 25.7

	Inches in Ship.	Inches per Rule.	Inches in Ship.	Inches per Rule.	Inches in Ship.	Inches per Rule.
KEEL, depth and thickness ...	9 1/4 x 3	9 1/4 x 3				
STEM, moulding and thickness ...	9 1/4 x 3	9 1/4 x 3				
STERN-POST for Rudder do. do. ...	10 x 5 1/2	10 x 5 1/2				
" for Propeller ...	10 x 5 1/2	10 x 5 1/2				
Distance of Frames from moulding edge to moulding edge, all fore and aft ...	24	24				
FRAMES, Angle Iron, for 1/2 length amidships ...	5 3 8	5 3 8				
Do. for 1/2 at each end ...	7	7				
REVERSED FRAMES, Angle Iron ...	3 1/2 3 8	3 1/2 3 8				
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships ...	24	24				
" thickness at the ends of vessel ...	8	8				
" depth at 1/2 the half-bdth. as per Rule ...	12	12				
" height extended at the Bilges ...	4 1/2	4 1/2				
BEAMS, Upper, Spar, or Anning Deck ...	7 1/2	7 1/2				
Single or double Angle Iron on Upper edge ...	3 3 6	3 3 6				
Average space ...	4 1/2	4 1/2				
BEAMS, Main, or Middle Deck ...	6 3 8	6 3 8				
Single or double Angle Iron, Plate or Tee Bulb Iron ...	8 1/2	8 1/2				
Single or double Angle Iron, on Upper Edge ...	3 3 7	3 3 7				
Average space ...	2 1/4	2 1/4				
BEAMS, Lower Deck, Hold, or Bottom ...	9 1/2	9 1/2				
Single or double Angle Iron, Plate or Tee Bulb Iron ...	9	9				
Single or double Angle Iron on Upper Edge ...	4 4 8	4 4 8				
Average space ...	8	8				
KEELSONS Centre line, single or double plate, ...	19	13 19				
" Rider Plate ...	13	13 13				
" Bulb Plate to Intercoastal Keelson ...	6 4 9	6 4 9				
" Angle Irons ...	6 4 9	6 4 9				
" Double Angle Iron Side Keelson ...	6 4 9	6 4 9				
" Side Intercoastal Plate ...	6 4 9	6 4 9				
" do. Angle Irons ...	6 4 9	6 4 9				
" Attached to outside plating with angle iron ...	3 1/2 3 1/2 8	3 1/2 3 1/2 8				
BILGE Angle Irons ...	6 4 9	6 4 9				
" do. Bulb Iron ...	8 1/2	8 1/2				
" do. Intercoastal plates riveted to plating for ...	6 4 9	6 4 9				
BILGE STRINGER Angle Irons ...	6 4 9	6 4 9				
Intercoastal plates riveted to plating for ...	9	9				
LONG STRINGER Angle Irons ...	6 4 9	6 4 9				

	Inches in Ship.	16ths in Ship.	Inches per Rule.	16ths per Rule.
Plat Keel Plates, breadth and thickness ...	36	12	36	12
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges ...	11	11	11	11
" of doubling at Bilge, or increased thickness, and length applied ...	1/4	3	12	12
" fm up. part of Bilge to l. edge of Sh'rstrake. ...	11	11	11	11
" Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied ...	40	14	40	14
" from M. to Upr. or Spar Pl. Sheerstrake. ...	14	14	14	14
" Upr. or Spar Pl. Sheerstrake, breadth & thickness ...	19 1/2	15 1/2	19 1/2	15 1/2
Butt Straps to outside plating, breadth & thickness ...	5	5	5	5
Lengths of Plating ...	5	5	5	5
Shifts of Plating, and Stringers ...	5	5	5	5
Gunwale Plate on ends of ...	6 1/2	9	6 1/2	9
Upper Deck Beams, breadth and thickness ...	4	4	4	4
Angle Iron on ditto ...	15	9	15	9
Tie Plates fore and aft, outside Hatchways ...	15	9	15	9
Diagonal Tie Plates on Frames No. 6 ...	15	9	15	9
Phosphor material and ...	15	9	15	9
Waterways do. do. ...	3 1/2	6 1/2	3 1/2	6 1/2
Flat of Upper Deck do. do. ...	4 1/2	10	4 1/2	10
How fastened to Beams ...	4 1/2	10	4 1/2	10
Stringer Plate on ends of Main or Middle Deck ...	4 1/2	10	4 1/2	10
Beams, breadth and thickness ...	4 1/2	10	4 1/2	10
Is the Stringer Plate attached to the outside plating? ...	Yes			
Angle Irons on ditto, No. 2 ...	4 1/2	9 1/2	4 1/2	9 1/2
Tie Plates, outside Hatchways ...	4 1/2	9 1/2	4 1/2	9 1/2
Diagonal Tie Plates on Frames No. 6 ...	4 1/2	9 1/2	4 1/2	9 1/2
Waterways material and ...	4 1/2	9 1/2	4 1/2	9 1/2
Flat of Middle Deck do. do. ...	4 1/2	9 1/2	4 1/2	9 1/2
How fastened to Beams ...	4 1/2	9 1/2	4 1/2	9 1/2
Stringer Plates on ends of Lower Deck, Hold ...	4 1/2	9 1/2	4 1/2	9 1/2
Beams ...	4 1/2	9 1/2	4 1/2	9 1/2
Is the Stringer Plate attached to the outside plating? ...	Yes			
Angle Irons on ditto, No. 3 ...	4 1/2	9 1/2	4 1/2	9 1/2
Stringer or Tie Plates, outside Hatchways ...	4 1/2	9 1/2	4 1/2	9 1/2
Flat of Lower Deck ...	4 1/2	9 1/2	4 1/2	9 1/2
Ceiling betwixt Decks, thickness and material ...	2 1/2	2 1/2	2 1/2	2 1/2
" in hold do. do. do. ...	2 1/2	2 1/2	2 1/2	2 1/2
Main piece of Rudder, diameter at head ...	3 1/2	3 1/2	3 1/2	3 1/2
" do. at heel ...	3 1/2	3 1/2	3 1/2	3 1/2
Can the Rudder be unshipped afloat? ...	Yes			
Bulkheads No. 6 Thickness of ...	7 1/2	7 1/2	7 1/2	7 1/2
" Height up Main deck. ...	7 1/2	7 1/2	7 1/2	7 1/2
" How secured to sides of ship ...	Double frames			
" Size of Vertical Angle Irons ...	3 1/2 x 3 1/2			
" Are the outside Plates doubled two spaces of Frames in length? ...	Yes			

Transoms, material. Knight-heads. Hawse Timbers. Plate & 1/2 in
Windlass Harfield's Patent Pall Bitt Not required

The FRAMES extend in one length from Keel to gunwale Riveted through plates with 7/8 in. Rivets, about 7 apart.

The REVERSED ANGLE IRONS on floors and frames extend from middle line to upper deck and to Main deck 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 1 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.

" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 3/4 ins. from centre to centre.
" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 3/4 ins. from centre to centre.
" Butts of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/4 thicker than the plates they connect.
" Edges from bilge to Main Sheerstrake, worked clencher, double single riveted; with rivets 7/8 in. diameter, averaging 3 3/4 ins. from cr. to cr.
" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 3/4 ins. from cr. to cr.
" Edges of Main Sheerstrake, double 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 length amidships.
" Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/2 length.
" Breadth of laps of plating in double riveting 5 1/2 Breadth of laps of plating in single riveting 5

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double single Riveted 8

Waterway, how secured to Beams (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? How welded to Beams No. of Breasthooks, 5 Crutches, 4

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

Manufacturer's name or trade mark, James Napier & Co., Glasgow

The above is a correct description.

Builder's Signature, Aitken & Mansel Surveyor's Signature, J. Lawrence

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

IRON 447-0452

Planned

Yes?

Yes

Yes

Yes

In corners of butts only

Now

wspritt

3 Plates in round, doubled at welding
Plates hot & cold tested.

Pole Masts. Brigantine rigging

[illegible]

sufficient in size and good in quality. She has 2 Life ~~Long~~ Boats and 4 Others

Capstan & 5 Winches and Rudder *Good* Pumps *Good as above*

kg on Iron Casing 7 feet How secured in ordinary weather? Bolts

both deck. 811
Sarpauline covers

How are lids secured? *Latches self locking* Height above deck? *6 inches*

? 6 Scaffs and open rail bulwarks
amidships.

Iron Cummings

Forehatch 11.11 x 8.1

Quarterhatch No. 15' 4" x 12' 0" No. 4 12' 0" x 8' 3"

Usual Size

Web plate in Main Hatchway

Yes - Solid -

Order for Special Survey No. <u>1480</u>	DATES of Surveys held while building was per Section 18:	1st. On the several parts of the frame, when in place, and before the plating was wrought	<u>1880 April 6. 13. 21. 27 May 6. 12. 15. 18. 20. 28. 31</u>
Date <u>9 March 1880</u>		2nd. On the plating during the process of riveting	<u>June 8. 17. 22. 29. July 6. 14. 27. 30 August 2. 6. 24. 26</u>
Order for Ordinary Survey No. <u>1481</u>		3rd. When the beams were in and fastened, and before the decks were laid....	<u>30. 31 September 3. 6. 13. 15. 17. 21. 24. 28. Oct. 1. 5. 13. 22. 28</u>
<u>Done</u>		4th. When the ship was complete, and before the plating was finally coated or cemented..	<u>Nov. 1. 5. 6. 12. 15. 17. 23. 24. Dec. 2. 6. 9. 10. 14. 16. 17. 20. 31</u>
No. <u>104</u> in builder's yard.		5th. After the ship was launched and equipped	

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

The workmanship is good. She is constructed in accordance with the approved tracing attached.

Turtle back Sawcastle 45' 0" Bridge deck 21' 6" Wharf house on bridge 13' 6" x 13' 6" Deck House
Aft 45' 0" x 20' 0"

State if one, two, or three decked vessel, or if open, or sailing vessel; and the lengths of poop, fore-castle, ^{upper} main quarter deck, and the length of hull, or part deck between

Cement & Sand

* 100A \ *Three Deck Rule*

is received by me,

Special £ 81 : 4 : 6 187

Certificate . . . : :

(Travelling Expenses, if any, £ 4. 4. 0).

Committee's Minute

Character assigned

Friday, December 31st, 1880

Character assigned *100A 1* *2 Gps 3 1/2 Bury* *100A 1 as mentioned*
Lovey *100A 1* *Lovey etc P* *Lovey etc P* *one from deck*
2/1/18 *2/1/18* *2/1/18* *2/1/18* *2/1/18*