

IRON OR STEEL SHIP.

(Received at London Office, 9415)

No. 9415 Survey held at Glasgow Date of writing Report 5th Oct 1889 Port of Glasgow Date, First Survey Dec 4th 1888 East Survey 4th Sept 1889 On the S.S. "Mangara" Rig Schooner

Tonnage under Tonnage Deck	1270.23
Do. between Tonnage Dk. and 3rd, 4th, Spar or Awning Dk.	
Total under Upper Dk.	
Do. of Poop	66.63
Do. of Raised Qr. Dk. or Break	42.24
Do. of Bridge House	335.16
Do. of Houses on Deck	18.57
Do. of excess of Hatchways	12.43
Do. of Forecastle	39.15
Gross Tonnage	1784.41
Less Crew Space	56.79
	1727.62
Less Engine Room Register Tonnage as cut on Beam	571.01
	1156.61

ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING DECKED VESSEL.	
Half Breadth (moulded)	18.29
Depth from upper part of Keel to top of Upper Deck Beams	19.87
Girth of Half Midship Frame (as per Rule)	33.84
1st Number	72.00
2nd Number	18617
Length	258.58
2nd Number	18617
Proportions Breadths to Length	7.06
Depths to Length—Upper Deck to Keel	13.01
Main Deck ditto	double bottom

Master A. Albrechtson
 Year of appointment (1) As master in service of owner of present vessel: 1886 (2) As master of this vessel: 1889
 Built at Glasgow
 When built 1889 Launched 24th Sept.
 By whom built A. Stephen & Sons
 Owners (Murray & Mac Intyre)
 Managers S.S. Mangara Co. Ltd.
 Residence Glasgow
 Port belonging to Glasgow
 Destined Voyage Peshorn
 If Surveyed while Building, Afloat, or in Dry Dock.
 Built under Special Survey

LENGTH on deck as per Rule	258 7	BREADTH Moulded	36 7	DEPTH top of Plates to Upper Deck Beams	16 8 1/2	Power of Engines	170	No. of Decks with flat laid	One	No. of Tiers of Beams	One
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Dimensions of Ship per Register, length, 260.0 breadth, 36.8 depth, 16.6 Moulded depth 19-2

KEEL, depth and thickness	Inches in Ship.	Inches per Rule.	PLATES in Garboard Strakes, br'dth & thickness	Inches in Ship.	Inches per Rule.
STEM, moulding and thickness	8 1/2 x 2 1/2	8 1/2 x 2 1/2	From Garboard to upper part of Bilges	51	11 - 51
STERN-POST for Rudder do. do.	8 1/2 x 5	8 1/2 x 5	Of d'bling at Bilge, or increased thickness, and length applied	10	10
" " for Propeller	8 1/2 x 5 1/2 x 12 x 5	8 1/2 x 5	From up. prt of Bilge to lr. edge of Sh'rstrake	10	10
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	24	Main Sheerstrake, breadth and thickness	52	15 - 52
Frames in double bottom, at bilgeheads, and abaft after bulkhead 4 1/2 x 3 x 2 1/2			Of d'bling at Sh'stk. & lng. applied 18 ft. at each end of 13 bridge	10	10
FRAMES, Angle Iron, for 2/3 length amidships	7 3 8	7 3 8	From M'n. to Upr. or Spar Dk. Sh'rstrake	21.9 3/4	17.8
Do. for 1/3 at each end	7 3 7	7 3 7	Up. or Spar Dk. Sh'rstrake, br'dth & thick'ness	21.9 3/4	17.8
REVERSED FRAMES, Angle Iron	3 3 7	3 3 7	Butt Straps to outside plating, breadth & thickness	192	120
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	Double bottom as per section		Lengths of Plating	48	48
" thickness at the ends of vessel			Shifts of Plating, and Stringers	52	10 - 52
" depth at 2/3 the half-bdth. as per Rule			Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	4 x 4 x 9	4 x 4 x 9
" height extended at the Bilges			Angle Iron on ditto	4 x 4 x 9	4 x 4 x 9
BEAMS, Upper, Spar, or Awning Deck	7 3 10	7 3 10	Tie Plates fore and aft, outside Hatchways		
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron			Diagonal Tie Plates on Beams No. of Pairs		
Single or double Angle Iron on Upper edge			Flat of Up., Spar, or Awning Dk.*	Steel 6	6
Average space	24	24	How fastened to Beams	By rivets	
BEAMS, Main, or Middle Deck			Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness		
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron			Is the Stringer Plate attached to the outside plating?		
Single or double Angle Iron on Upper Edge			Angle Irons on ditto, No.		
Average space			Tie Plates, outside Hatchways		
BEAMS, Lower Deck			Diagonal Tie Plates on Beams, No. of pairs		
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron			Flat of Middle Deck* do. do.		
Single or double Angle Iron on Upper Edge			How fastened to Beams		
Average space			Stringer Plates on ends of Lower Deck, Hold or Orlop Beams		
BEAMS, Hold, or Orlop			Is the Stringer Plate attached to the outside plating?		
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron			Angle Irons on ditto, No.		
Single or double Angle Iron on Upper Edge			Stringer or Tie Plates, outside Hatchways		
Average space			Flat of Lower Deck*		
KEELSONS Centre line, single or double plate, box, or Intercostal, Plates			Ceiling betwixt Decks, thickness and material	6 x 2 Sparring	
" Rider Plate			" in hold do. do.	2 1/2 x 1/2 Pine 2 1/2	
" Bulb Plate to Intercostal Keelson			Main piece of Rudder, diameter at head	6 3/4	
" Angle Irons			do. at heel	3 1/2	
" Double Angle Iron Side Keelson			Can the Rudder be unshipped afloat?	Yes	
" Side Intercostal Plate			Bulkheads No. 4 No. per Rule 4		
" do. Angle Irons			" Thickness of plates	9/16	
" Attached to outside plating with angle iron			" Height up	Upper deck	
BILGE Angle Irons			" How secured to sides of ship	By double frames	
" do. Bulb Iron			" Size of Vertical Angle Irons	4 1/2 x 3 x 3/4 and distance apart 30 ins.	
" do. Intercostal plates riveted to plating for length			" Are the outside Plates doubled two spaces of Frames in length?	Yes	
BILGE STRINGER Angle Irons	4 5/4 4 4 9 5/4 4 4 9	4 4 9 5/4 4 4 9	Riveted through plates with 7/8 in. Rivets, about 7 apart.		
Intercostal plates riveted to plating for whole length	16	8 x 16	The REVERSED ANGLE IRONS on floors and frames extend from middle line to upper side stringers and to upper deck alternately		
SIDE STRINGER Angle Irons	4 5/4 4 4 9 5/4 4 4 9	4 4 9 5/4 4 4 9	KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes		
" Intercostal plates	16	8 x 16	PLATING. Garboard, double riveted to Keel, with rivets 1 in. diameter, averaging 4 ins. from centre to centre.		
The FRAMES extend in one length from bilge to bilge thence to upper deck			" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from centre to centre.		
The REVERSED ANGLE IRONS on floors and frames extend from middle line to upper side stringers and to upper deck alternately			" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.		
KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes			" Butts of all Strakes at Bilge for half length, treble riveted with Butt Straps 3/20 thicker than the plates they connect.		
PLATING. Garboard, double riveted to Keel, with rivets 1 in. diameter, averaging 4 ins. from centre to centre.			" Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.		
" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from centre to centre.			" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.		
" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.			" Edges of Main Sheerstrake, double or single riveted.		
" Butts of all Strakes at Bilge for half length, treble riveted with Butt Straps 3/20 thicker than the plates they connect.			" Butts of Main Sheerstrake, treble riveted for whole length amidships.		
" Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.			" Butts of Main Stringer Plate, treble riveted for half length amidships.		
" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.			" Breadth of laps of plating in double riveting 6 1/2		
" Edges of Main Sheerstrake, double or single riveted.			" Breadth of laps of plating in single riveting		
" Butts of Main Sheerstrake, treble riveted for whole length amidships.			Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Treble & double No. of Breasthooks, Seven Crutches, Three		
" Butts of Main Stringer Plate, treble riveted for half length amidships.			What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Siemens Steel		
" Breadth of laps of plating in double riveting 6 1/2			Manufacturer's name or trade mark, Hallside, Mossend, and Dalzell.		
" Breadth of laps of plating in single riveting			The above is a correct description.		
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Treble & double No. of Breasthooks, Seven Crutches, Three			Builder's Signature, Alex. Stephen & Sons. Surveyor's Signature, J. Thomson		
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Siemens Steel			Surveyor to Lloyd's Register of British and Foreign Shipping.		

State clearly where plating is of alternate thickness—as distinguished from diminished thickness at ends of vessel. * If Iron Deck, state if whole or part, and if wood deck.

Form No. 1 for Iron or Steel Ships—1000—2/4/89—Transfer Ink.

