9615

IRON SHIPS.

Rec'd 10/7/71

No. 3387 Survey held at Renfrew Date, First Survey 7th Dec 1870 Last Survey 4th Oct 1871.

On the S. S. "Gorm" Master H. Carl

Tonnage under Tonnage Deck	889.81
~~Ditto of Third Spar, or Awning Deck.~~	✓
~~Ditto~~ of Poop, ~~or Raised Qr. Dk.~~	261.79
Ditto of Houses on Deck	2.99
Ditto of Forecastle	33.36
Gross Tonnage Int. fees	1133.02
Crew Space, as per Rule	54.87
Register Tonnage, cut on Beam	✓
Engine Room	380.14
Register Tonnage, as a Steamer, cut on Beam	752.94

~~ONE, OR~~ TWO DECKED, ~~SPAR, OR AWNING DECKED~~ VESSELS.

Half moulded breadth	15.00
Depth from upper part of Keel to top of Upper Deck Beams	18.0
Girth of Half Midship Frame (as per Rule)	29.50
1st Number	62.50
Length	228.66
2nd Number	14.291
Depths to Length.	13.93

PLANS CAGE

THREE DECKED VESSELS.

Half Moulded Breadth	✓
Total Depth if three or more Decks	✓
Girth of Half Midship Frame	✓
3rd Number	
Length	✓
4th Number	✓
Breadths to Length	7.62

Built at Renfrew

When built 1871 Launched 2nd Sept 71

By whom built Henderson, Coulborn & Co

Owners Capt Carl and others

Port belonging to Copenhagen

Destined Voyage Clyde to Copenhagen

If Surveyed while Building, and Afloat, ~~or in Dry Dock.~~

Length on deck as per Rule, Feet. 228 Inches. 8 | Moulded Breadth, Feet. 30 Inches. 0 | Depths from top of Floors to Upper and Main Deck Beams, as per Rule ..... Feet. 16 Inches. 5 | Power of Engines, Horse. 150 | N°. of Decks with flat laid One | N°. of Tiers of Beams Two

Dimensions of Ship per Register, length, 231.2 breadth, 30.2 depth, 16.15

	Inches in Ship.	Inches required per Rule.
Keel, if bar iron, depth and thickness	8 × 2 3/8	8 × 2 3/8
Do. if centre through plate, depth and thickness	7 1/2 × 2 3/8	7 1/4 × 2 3/8
Stem, if bar iron, moulding and thickness	8 × 4 3/4	7 1/4 × 4 3/4
Stern-post for Rudder do. do.		23
Stern-post for Propeller	23	(Class 90 A)
Distance of Frames from moulding edge to moulding edge, all fore and aft		

	Inches. In Ship.	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	Inches. required per Rule.	16ths required per Rule.
Frames, size of Angle Iron, for 3/5 length amidships	4	3	7/16	4	3	7/16
Do. for 1/5 at each end	4	3	6/16	4	3	6/16
Reversed Frames, size of Angle Iron	3	3	7/16	3	3	7/16
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	19		8/16	19		8/16
Do. at the ends		7/16			7/16	
Do. do. do. at Bilge Keelson		6/16	7/16	8/16		7/16
Do. height extended at the Bilges	Twice			Twice		
Beams, Upper, ~~Spar, or~~ Awning Deck (No. ✓) single ~~or double~~ Angle Iron, ~~Plate or Tee Bulb Iron~~	5	3 1/2	7/16	5	3 1/2	7/16
Single or double Angle Iron on Upper edge	✓	✓	✓	✓	✓	✓
Average space		4 6			4 6	
Beams, Main or Middle Deck (No. ✓) ~~single, or double Angle Iron, Plate or~~ Tee Bulb Iron	7	5	8/16	7	5	8/16
Single, or double Angle Iron, on Upper Edge	✓	✓	✓	✓	✓	✓
Average space		4 6			4 6	
Beams, Lower Deck, Hold or Orlop (No. ✓) ~~single or d'ble Ang. Iron, Plate or~~ Tee Bulb Iron	7	5	8/16	7	5	8/16
Single or double Angle Iron on Upper Edge	✓	✓	✓	✓	✓	✓
Average space	2nds & 4ths			2nds & 4		
Keelson Centre line, single ~~or double~~ plate, ~~box, or Intercostal,~~ size of Plates	13 1/2		11/16	13 1/2		11/16
Do. Bulb Plate to Intercostal Keelson	7 3/4		8/16	7 3/4		8/16
Do. Size of Angle Irons	5	3 1/2	7/16	5	3 1/2	7/16
Do. Side Intercostal Keelson, size of Plates	✓	✓	✓	✓	✓	✓
Do. Angle Irons on tops of Floors	5	3 1/2	7/16	5	3 1/2	7/16
Do. Bilge Keelson, Bulb Iron	7 1/2		7/16	7 1/2		7/16
Do. do. Intercostal plates riveted to plating for ✓ length	✓	✓	✓	✓	✓	✓
Do. do. Angle Irons	5	3 1/2	7/16	5	3 1/2	7/16
Side Stringers (No. one) size of Angle Irons	5	3 1/2	7/16	5	3 1/2	7/16
Do. Intercostal plates riveted to plating for length.	✓	✓	✓	✓	✓	✓

	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths required per Rule.
Flat Keel Plates, breadth and thickness	38	10/16	36	10/16
Plates in Garboard Strakes, breadth and thickness	9/16		9/16	
Do. from Garboard to upper part of Bilges	Two Strakes	11/16	Two Strakes 11/16	
Do. of doubling at Bilge, or increased thickness, and length applied	8/16		8/16	
Do. fm up. part of Bilge to lr. edge of Sh'rstrake	3/8	13/16	36	13/16
Do. Main Sheerstrake, breadth and thickness				
Do. of d'bling at Sh'rstrake, & length applied	6/16	5/16	5/16	
Do. from Mn. to ~~Upr. or Spar Dk.~~ part lower Sh'rstrake.				
Do. Up. or Spar Dk Sh'rstrake, brdth & thickns	16 3/4	× 10	× 12/16	5 8/16
Butt Straps to outside plating, breadth & thickness	11-6		1-3	
Lengths of Plating	5-9		5-9	
Shifts of Plating, and Stringers	20	6/16	20	6/16
Gunwale Plate on ends of ~~Awning, Spar, or Upper~~ Deck Beams, breadth and thickness	3.3.	6/16	3.3.	6/16
Angle Iron on ditto	9	6/16	9	6/16
Tie Plates (fore and aft), outside Hatchways				
Diagonal Tie Plates on Beams (No. of Pairs, ✓)	3 1/2	Teak		
Planksheer material and scantling	3"	T. Pine		
Waterways do. do.	nut & Screw Bolts			
Flat of Upper Deck do. do.	33	11/16	32 1/2	11/16
How fastened to Beams	Yes		Yes	
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	5. 3 1/2.	7/16	5. 3 1/2.	7/16
(*Is the Stringer Plate attached to the outside plating?*)	11	9/16	11	9/16
Angle Irons on ditto (No. 2)	11	9/16	11	9/16
Tie Plates, outside Hatchways	Gutter	waterway		
Diagonal Tie Plates on Beams (No. of pairs, 5)	3 3/4		3 3/4	
Waterways materials and scantlings	nut & Screw	Bolts		
Flat of Middle Deck do. do.	29	8/16	29	8/16
How fastened to Beams	Yes		Yes	
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	3 1/2.	3 1/2.	8/16	3 1/2. 3 1/2. 8/16
(*Is the Stringer Plate attached to the outside plating?*)	11	8/16	11	8/16
Angle Irons on ditto (No. 2)				
Stringer or Tie Plates, outside Hatchways				
Flat of Lower Deck				
Ceiling betwixt Decks, thickness and material	2 1/2	a. Elm & Red pine		
Do. in hold do. do.	5 1/4		5 1/4	
Main piece of Rudder, diameter at head	3		3	
Do. do. at heel				
(*Can the Rudder be unshipped afloat?* Yes)				
Bulkheads No. 5 Thickness of 6/16			6/16	
Do. Height up To Deck				
Do. How secured to the sides of the ship Riveted between Frames				
Do. Size of Vertical Angle Irons, 3.3.7/16 and their distance apart, 30				
Do. Are the outside Plates doubled two spaces of Frames in length? Yes				

Transoms, material Iron or, if none, in what manner compensated for.

Knight-heads Iron Hawse Timbers Iron

Windlass Patent Iron Pall Bitt Windlass

The Frames extend in one length from Centre line to Upper Deck Riveted through plates with (3/4 in.) Rivets, about 6 apart.

The Reverse Angle Irons on the floors and frames extend from the middle line to Upper Dk and to above Lower Dk alternately

Keelsons. Are the various lengths of Plates and Angle Irons properly connected? Yes And are their butts properly shifted? Yes

Plates, Garboard, double ~~or~~ Riveted to Keel, double ~~or~~ at upper edge, with Rivets (7/8 in.) diameter, averaging (3 3/4 ins.) from centre to centre.

Do. Edges from Garboards to upper part of Bilge, worked Clencher, double ~~or single~~ Riveted; with Rivets (3/4 in.) diameter, averaging (3 3/8 ins.) from centre to centre.

Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (11/16 and 9/16) thick, double ~~or single~~ Riveted; with Rivets (7/8 & 3/4 in.) diameter averaging (3 3/4. 3 3/8 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? No

Do. of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 7/16 thicker than their plates.

Do. Edges from bilge to Main Sheerstrake, worked ~~carvel with a lining piece~~ ( ) ~~thick, or~~ clencher, ~~double or~~ single riveted; with rivets (3/4 in.) diameter, averaging (3 3/8 ins.) from centre to centre.

Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge Single At lower edge Double

Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (8/16) thick, double ~~or single~~ Riveted; with Rivets (3/4 in) diameter, averaging (3 3/8 ins) from centre to centre.

Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of Upper ~~or Spar~~ Sheerstrake, and Upper Deck Stringer Plate, double ~~or~~ and treble Riveted for 1/2 length amidships. Breadth of laps of plating in double Riveting (6 times) Breadth of laps of plating in single Riveting (3 1/2 ins)

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Treble & Double riveted

Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (*Explain by Sketch, if necessary.*)

Beams of the various Decks, how secured to the sides? Riveted to Knees to Iron 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, Parkhead & Mospend.

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature, Henderson Coulborn & Co *Surveyor's Signature,* J. Moverley

IRON 49-0325

Workmanship. Are the butts of plating planed or otherwise fitted? Planed 9/16 Iron

Do the edges of the carvel work and of the butts fay 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? one piece

Do the holes for riveting 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 plate and punched from the faying surfaces? Yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? a few

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 riveting, quality of Materials, and if stamped with Maker's name.*

State also Length and Diameter of Lower Masts and Bowsprit Masts of Pitch pine

Tested at Newcastle July 1871 by Robert Burrell.

Tested at Newcastle July 19th/71 by Robert Burrell.

Number for equipment 15,720

N°.	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.
One full Suit and spare	Fore Sails,	Chain ..... (State Machine where Tested, and name of Superintendent).	135	1 7/16	37.3.0	1 7/16	37 2/10
	Fore Top Sails,		135				
	Fore Topmast Stay Sails	~~Hempen~~ Stream Chain Cable	90	15/16	10.10.0	15/16	✓
		Hawser	60	9 1/2	✓	9	✓
	Main Sails,	Towlines	60	6	✓	5 1/2	
	Main Top Sails,	Warp	60	5	✓	✓	✓
	and	All of Good quality.	60	3 3/4			

ANCHORS, &c.	N°.	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
	9720	18.2.23	19.13.0.14	18	19
Bowers	9721	18.1.0	19.4.1.14		
(State Machine where Tested, and name of Superintendent).	9719	15.3.9	17.5.1.7	15.1.6	16 14/20
Stream	1	8.0.7	✓	8	✓
	1	4.0.5	✓	4	✓
Kedges	1	2.0.4	✓	2	✓

Her Standing and Running Rigging Wire & Hemp sufficient in size and Good in quality. She has 2 ~~Life~~ Boats and 2 others

The present state of the Windlass is Good Capstan Good and Rudder Good Pumps Good & Efficient.

Engine Room Skylights.—How constructed? Iron. Teak Skylight How secured in ordinary weather? by Bars

What arrangements are there for deadlights in such for bad weather? Thick Glass & Guards over

Coal Bunker Openings.—How constructed? Iron castings How are lids secured? by Slot How high above deck? Flush

Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? Ports and Scuppers cut in side

Cargo Hatchways.—How formed? Plate & Angle iron State size 11-0 × 9-0

If of extraordinary size, state how framed and secured? ✓

What arrangement for shifting beams? One shifting Beams

Hatches, themselves, whether strong and efficient? Yes **Main Hatchways.**—State size 19-0 × 10-0

Order for Special Survey No. 731 Date Jany 30/71

Order for Ordinary Survey No. ✓ Date ✓

No. 122 in builder's yard.

DATES of Surveys held while building as per Section 18.

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

2nd. On the plating during the progress of riveting

3rd. When the beams were in and fastened, and before the decks were laid From 7th Dec 1870

4th. When the ship was complete, and before the plating was finally coated or cemented To 4th Oct 1871

5th. After the ship was launched and equipped

General Remarks,

She has a Full Poop, Forecastle and Hurricane deck connecting with the poop, a Water Ballast Tank is fitted for about 30 ft amidships on the top of Hold Beams, and has been built in accordance with the enclosed Mid Section, and the Rules for the 90A Class.—

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, forecastle or raised quarter deck, or of double or part double bottom.

In what manner are the surfaces preserved from oxidation? Inside Cement & Paint Outside Red lead & paint

I am of opinion this Vessel should be Classed ✠ 90A 1 Poop & Forecastle & part awning deck

The amount of the Entry Fee .....£ 5 : 0 : 0 is received by me,

Oct 1871 Special .....£ 53 : 6 : 6

Certificate .... Grate :

(Travelling Expenses) (if any) £ 5/5

Committee's Minute 4th October 18 71

Character assigned 90A 1 A+C P

I concur in the opinion that this vessel should be Classed 90A 1. Poop & Forecastle & part awning deck 6/10/71

Part awning deck Rules 1870