

1882.

Master *L. O. Moen*

ONE, OR TWO DECKED, THREE DECKED VESSEL,		Feet.
SPAR, OR AWNING DECKED VESSEL.		
Half Breadth (moulded)		18.50
Depth from upper part of Keel to top of Upper Deck Beams		26.50
Girth of Half Midship Frame (as per Rule)		40.46
1st Number		85.46
1st Number, if a 3-Decked Vessel .. deduct 7 feet		78.46
Length		298.33
2nd Number		23407
Proportions— Breadths to Length.. .. .		8.06
Depths to Length—Upper Deck to Keel.. .. .		11.26
Main Deck ditto		15.70

Built at Newcastle
When built 1881-82 Launched 4th March 1882
By whom built Mess^{rs} Palmers & Co.
Owners Porteous & Senior
Residence 4 Gt St Helens, London
Port belonging to London
Destined Voyage Boston via Hartholp & Lond
If Surveyed while Building, Afloat, ^{and} ~~or~~ in Dry Dock.

Report recd 8/4/82 sent to Lon. 13/4/82

Length		Feet.		Inches.		BREADTH—		Feet.		Inches.		DEPTH top of Floors to Upper		Feet.		Inches.		Power of		Horse.		N ^o . of Decks with flat laid		Two	
deck as Rule ...		298		4		Moulded... ..		37		0		Do. do. Main Deck Beams.....		23		3		Engines		250		No. of Tiers of Beams		Three	
Dimensions of Ship per Register, length, 300-2 breadth, 37-3 depth, 23																									
EL, depth and thickness (+Side) 49 x 1/16 Inches in Ship. 11/16 Inches per Rule																									
M, moulding and thickness... .. 10 x 23/4 10 x 23/4																									
R-N-POST for Rudder do. do. { 10 x 5 1/2 10 x 5 1/2																									
" for Propeller } 24 ins 24 ins																									
Distance of Frames from moulding edge to } 24 ins 24 ins																									
moulding edge, all fore and aft }																									
(Class 100 A)																									
AMES, Angle Iron, for 3/4 length amidships ... 5 3 8 5 3 8																									
do. for 1/2 at each end 5 3 7 5 3 7																									
VERSED FRAMES, Angle Iron ... 3 1/2 3 8 3 1/2 3 8																									
FLOORS, depth and thickness of Floor Plate } on cellular bottom																									
mid line for half length amidships ... principle with																									
thickness at the ends of vessel ... solid floors 6/16 as																									
depth at 3/4 the half-bdth. as per Rule per sketch																									
height extended at the Bilges... ..																									
AMS, Upper, Spar, or Awning Deck } - 7 1/2 7 - 7 1/2 7																									
Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron } 3 3 6 3 3 6																									
Angle or double Angle Iron on Upper edge alternate frames																									
Average space... .. 6 3 9 6 3 9																									
AMS, Main, or Middle Deck ... 6 3 9 6 3 9																									
Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron } - - - - -																									
Angle or double Angle Iron on Upper Edge } - - - - -																									
Average space... .. on every frame																									
BEAMS, Lower Deck- } - - - - -																									
Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron } - - - - -																									
Angle or double Angle Iron on Upper Edge } - - - - -																									
Average space... .. 10 10 10 10 10																									
BEAMS, Hold, or Orlop } - - - - -																									
Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron } 4 4 9 4 4 9																									
Angle or double Angle Iron on Upper Edge } 4 4 9 4 4 9																									
Average space.. 8 frame spaces & so per Profile																									
EELSONS Centre line, single or double plate, } 11 11																									
box, or Intercoastal, Plates } on the cellular																									
" Rider Plate Bottom principle,																									
" Bulb Plate to Intercoastal Keelson... no per midship section																									
" Angle Irons with fore & aft girders																									
" Double Angle Iron Side Keelson ... and solid floors																									
" Side Intercoastal Plate ... upon alternate																									
do. Angle Irons ... frames & on every																									
Attached to outside plating with angle iron beam in engine and																									
BILGE Angle Irons ... Boiler spaces																									
do. Bulb Iron... .. 6 4 9 6 4 9																									
do. Intercoastal plates riveted to } - 9 - - 9																									
plating for length)																									
BILGE STRINGER Angle Irons ... 6 4 9 6 4 9																									
Intercoastal plates riveted to plating for } - 9 - - 9																									
3/8" length)																									
THE STRINGER Angle Irons ...																									
Flat Keel Plates, breadth and thickness ... 36 12 36 12																									
PLATES in Garboard Strakes, br'dth & thickness 11 11																									
" From Garboard to upper part of Bilges... ..																									
" Of d'bling at Bilge, or increased thickness, } - - - - -																									
and length applied																									
" From up. prt of Bilge to lr. edge of Sh'rstrake... 11 11																									
" Main Sheerstrake, breadth and thickness.... 40 14 40 14																									
" Of d'bling at Sh'stk. & Ing. applied - - - - -																									
" From M'n. to Up. or Spar Dk. Sh'rstrake.... - - - - -																									
" Up. or Spar Dk Sh'rstrake, brdth & thicken'ss... - - - - -																									
Butt Straps to outside plating, breadth & thickness 10 to 18-7 1/2 6 1/2 x 9 1/2 1/16																									
Lengths of Plating 6 frame spaces																									
Shifts of Plating, and Stringers 2 frame spaces																									
Gunwale Plate on ends of Awning, Spar, or } 62 9 62 9																									
Upper Deck Beams, breadth and thickness... }																									
Angle Iron on ditto 4x4x9 4x4x9																									
Tie Plates fore and aft, outside Hatchways ahead 15 9 15 9																									
Diagonal Tie Plates on Beams No. of Pairs 2 2																									
Flat of Up., Spar, or Awning Dk. * yellow Pine & Iron 3 1/2 5/16 4																									
How fastened to Beams * Iron deck riveted & Wood deck Screw bolts & nuts,																									
Stringer Plate on ends of Main or Middle Deck } 42 10 42 10																									
Beams, breadth and thickness ... }																									
Is the Stringer Plate attached to the outside plating? Yes																									
Angle Irons on ditto, No. 2 4x4x9 4x4x9																									
Tie Plates, outside Hatchways Iron deck																									
Diagonal Tie Plates on Beams, No. of pairs																									
Flat of Middle Deck* do. do. Iron - 6 - 6																									
How fastened to Beams Rivetted																									
Stringer Plates on ends of Lower Deck, Hold or } 39 9 39 9																									
Orlop Beams }																									
Is the Stringer Plate attached to the outside plating? Yes																									
Angle Irons on ditto, No. 3x4 4x4x9 4x4x9																									
Stringer or Tie Plates, outside Hatchways ... Iron deck																									
Flat of Lower Deck * Iron - 8 - 8																									
Ceiling betwixt Decks, thickness and material... Battens																									
" in hold do. Baltic Pine ... 2 1/2 2 1/2																									
Main piece of Rudder, diameter at head ... 7 3/4 7 1/2																									
do. at heel ... 3 3/4 3 3/4																									
Can the Rudder be unshipped astoat? Yes																									
Bulkheads No. 7 No. per Rule 4																									
" Thickness of 7 x 6/16																									
" Height up main deck & as per rule																									
" How secured to sides of ship Between double frame																									
" Size of Vertical Angle Irons 3 1/2 x 3 1/8 and distance apart 30 ins.																									
" Are the outside Plates doubled two spaces of Frames in length? Yes																									

State clearly where plating is of alternate thicknesses from diminished thickness at ends of vessel.

* If Iron Deck, state if whole or part, and if wood deck is laid thereon.

NUC781-0017

The **FRAMES** extend in one length from Bilge to Gunnwale Riveted through plates with 1/8 in. Rivets, about 6 1/2 apart.

The **REVERSED ANGLE IRONS** on floors and frames extend near middle line to Main deck stringer and to Gunnwale 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 1/4 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 1/16 ins. from centre to centre.

" Butts from Keel to turn of Bilge, worked clencher, 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 1/16 thicker than the plates they connect.

" Edges from Bilge to Main Sheerstrake, worked clencher, double ~~or single~~ riveted; with rivets 7/8 in. diameter, averaging 3 7/16 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 1/2 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 1/4 Breadth of laps of plating in single riveting Phil

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double ~~or single~~ Riveted? No. of Breasthooks, 5 Crutches, 3 x 2 lbs

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

Manufacturer's name or trade mark, Wm. Fairbairn & Co. Ltd.

The above is a correct description.

Builder's Signature, James Sibson Surveyor's Signature, James Sibson

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

19-212 Street, Goswell Road, E.C. London.

ROBEY, EDWARD TAYLOR & SONS Commercial and General Steam Printers, 19, Old Street, London, E.C.1.

Workmanship.

Are the butts of plating planed or otherwise fitted? *Planed*

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*

Are the fillings between the ribs 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 very well*

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *Yes*

Do any rivets break into or through the seams or butts of the plating? *A few -*

Masts, Bowsprit, Yards, &c., are *Iron* in *Good* condition, and sufficient in size and length. If of Iron or Steel give Scantling 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 Material and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit *Foremast length extreme 83' 6" Diameter at partners 24" Mainmast length extreme 74' 1" Diameter 24" Mizzenmast length extreme 66' 9" Diameter 20" Three plate masts 7/16" to 1/2" edges double riveted and butts treble riveted makers of the Iron Palmers Shipbuilding and Iron Co. (Linn.)*

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprntd.	ANCHORS.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	Wt. req'd per Rule.	Machine where Tested & Suprntd.
SALES.												
CABLES, &c.												
N ^o .	Chain	270	1 7/8	63 1/2	270 - 1 1/4		Bower Anchors	1	35.0.7	32.8.1.21	34.0.0	
	Fore Sails,						(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)	1	35.0.0	32.7.2.0	34.0.0	
	Fore Top Sails,							1	29.0.21	28.0.1.7	29.0.0	
	Fore Topmast Stay Sails,											
	Main Sails,						Stream Anchor	1	10.3.7	12.15.1.7	10.3.0	
	Main Top Sails,						Kedge	...	5.1.26	7.16.1.0	5.2.0	
	and Rigging Wire						2nd Kedge	...	2.2.14	5.2.2.0	2.2.0	
	Standing and Running Rigging											

The Windlass is *Good* Capstans *Good* and Rudder *Good* Pumps *Good*

Engine Room Skylights.—How constructed? *Iron trunk to bridge deck & iron* How secured in ordinary weather? *Bolted down*

What arrangements for deadlights in bad weather? *Solid shutters and bulls eyes.*

Coal Bunker Openings.—How constructed? *Wrought iron comings* How are lids secured? *Hatch bars* Height above deck? *9 1/2"*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *Ten ports each side besides the mooring pipes.*

Cargo Hatchways.—How formed? *Iron Comings & headledges riveted together.*

State size Main Hatch *20' x 12'* Fore hatch *12' x 12'* Quarter hatch *20' x 12' & 16' x 12'*

If of extraordinary size, state how framed and secured? *Ordinary size*

What arrangement for shifting beams? *Deep web plate in main & large after hatchways. Bulk plate in fore & after hatchways wood fore & afters in each hatchway.*

Hatches, If strong and efficient? *Yes (solid hatches)*

Order for Special Survey No. <i>1542</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought	1881 Sept 28. Oct. 1. 3. 10. 12. 18. 22. 26. 28. Nov. 1. 4.
Date <i>13th May/81</i>	2nd. On the plating during the process of riveting	9. 22. 24. 28. Dec 5. 9. 12. 15. 16. 20. 22. 28. 31.
Order for Ordinary Survey No. <i>-</i>	3rd. When the beams were in and fastened, and before the decks were laid....	1882 Jan'y 7. 10. 13. 19. 27
Date <i>r</i>	4th. When the ship was complete, and before the plating was finally coated or cemented..	Feb'y 3. 8. 10. 13. 20. 22. 24. 28.
No. <i>454</i> in builder's yard.	5th. After the ship was launched and equipped	March 2. 6. 8. 10. 14. 17. 20. 22. 24. 27. 29. 31

General Remarks (State quality of workmanship, &c.) *This Vessel has been constructed in accordance with the rules and approved tracings; of the cellular bottom principle with double bottom all fore and aft; She has a full Poop 28 ft in length Part open Bridge 62 ft in length and an open Top-gallant fore-castle 31 feet in length. In addition to the scantlings set forth upon the Approved Tracings of Midships Section the upper deck Beams have been plated over with 5/16 plates extending from the front Poop forward. The double bottom tested as per rule and proved satisfactory, and the workmanship and materials of a good description.*

State if one, two, or three decked vessel, or if spar, or awning decked; and the lengths of poop, bridge, fore-castle, or raised quarter deck. (If double bottom, state particulars on separate form)

How are the surfaces preserved from oxidation? Inside *Cement & Paint* Outside *Paint*

I am of opinion this Vessel should be Classed *100 A1 Two decks & three tiers of beams (One iron deck and one part-iron)*

The amount of the Entry Fee ... £ *5* : - : - is received by me, *WLB*

Special ... £ *48* : 6 : - *15th April 1882*

Certificate *granted* (to be sent as per margin).

(Travelling Expenses, if any, £ - : - : -)

Committee's Minute *Tues. Apr. 1st '82*

Character assigned *100 A1*

Surveyor to Lloyd's Register of British and Foreign Shipping

Submitted that vessel appears eligible to be registered as recommended.

100 A1

3 Tons part-iron OK

17/4/82