

BULKHEADS.		No. in Vessel	6 to 16 ft. 6 in.		No. Req'd. by Rule	6	
Ceiling betwixt Decks, thickness and material	2 w. p.	Thickness	Angles.	Spacing.	Height up.	Sngl or Dble. Frames	
" in hold do. do.	2 1/2 p. p.	W.T. BULKHEADS { 7/8	Vrtel. 5 1/2 x 3 1/2 x 7/8	30	{ to upper deck	double	
			Hzntl. 8 x 3 1/2 x 7/8	48			
Number of Breasthooks	9	PARTITION ..	Vrtel.				
" Crutches	3		Hzntl.				
		LONGITUDINAL	5/8	Vrtel. 6 1/2 x 4 1/2 x 7/8	24	to main deck	
		Are the outside Plates doubled two spaces of Frames in length?					

The **FRAMES** extend in one length from *keel to margin to margin* to *gunwale* Riveted through plates with *7/8* in. Rivets, about *6*" apart.
The **REVERSED ANGLE** on floors and frames from *centre line plate to margin from No. 18 to No. 156 frames. Aft of No. 18 and forward of No. 156*
to No. 18 & up to No. 156 alternately. all to upper deck aft of peak bulkhead, and an alternate frames to transverse deck

RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c.
Garboard, double riveted to *Keel or Flat Plate Keel*, with rivets *1*" in diameter, averaging *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 3/4*" ins. from centre to centre.
Butts from Keel to turn of Bilge, *worked clencher, double riveted; treble for whole length; with rivets 7/8 in dia., averaging 3 3/4 ins. from cr. to cr.*
G. E. V. Strake
" " " overlapped for *whole* length, treble riveted for *whole* length; with rivets *7/8*" in dia., averaging *3 3/4*" ins. from cr. to cr.
Butts of Strakes at Bilge for *length, treble riveted with Butt Straps thicker than the plates they come.*
Edges from Bilge to Sheerstrake, worked clencher, double riveted; with rivets *7/8*" in diameter, averaging *3 3/4*" ins. from centre to centre.
Butts from Sheerstrake, worked carvel, treble *double riveted; treble for whole length; with rivets 1 1/8 in. dia., averaging 5 1/2 x 3 1/2 ins. from cr. to cr.*
Bilge to No. 156 Strake overlapped for whole length, treble riveted for whole length; with rivets 7/8 in dia., averaging 3 3/4 ins. from cr. to cr.
Edges of Sheerstrake, double riveted. **Butts of Sheerstrake**, treble riveted for *whole* length *amidships*.
Butts of Middle Deck Stringer Plate, treble riveted for *whole* length *amidships*. **Butts of Upper Deck Stringer Plate**, treble riveted for *whole* length.
" " *Single or Double Straps for* *length amidships.* " " *Single or Double Straps for* *1/2* lgh.
Butts of Inner Bottom Plating *lapped & double riveted for whole length.* **Butts of Centre Girder** *lapped & treble riveted.*
Breadth of edge laps of Shell Plating in double riveting *5 1/4*" **Breadth of edge laps of Shell Plating** in single riveting
Butt Straps of Shell Plating, breadth and thickness *1 9/16 x 1 7/8*" **Butts if Lapped**, breadth of laps *9 1/2*"
Butt Straps of Keelsons, Stringer and Tie Plates, treble or double riveted? *treble & stringer treble riveted, tie plates double*
Manufacturer's name or trade mark of the *Iron or Steel* (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *James Martin Steel - Frames, Inboard. Rev. Frames Parkhead, Beams Brown Long. Keelsons Inboard, Deck plating Belgil, Tank top Stockton, Floor plating, Shell Inboard*
Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*
Is the riveted work properly closed? *Yes*
Are the liners between the frames 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* 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*
Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*

MASTS, SPARS, &c.									
	Material.	Total Length	DIAMETER AND THICKNESS.				No. of plates in round	ANGLES.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.
Fore	Steel	81.9"	21 1/2	16 1/2	17 1/2	14	Two	✓	✓
Main	"	77.6	23	19	19	15 1/2		✓	✓
Mizen									
Bowsprit	✓								
Topmasts, Yards and Remainder of Spars	✓								
Rigging, Material and Size, Shronds	Steel wire 3 1/2"								
Sails.	Suit of <i>one suit</i>								

EQUIPMENT No. 38196 LETTER W									
Number of Certificate.		WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts. qrs. lbs.
34037	1st Bower ..	40	3	15	9	3	7	36	10 5 0
34038	2nd ..	40	3	0	9	3	14	36	6 1 0
34050	3rd ..	34	2	18	8	2	11	32	3 3 0
	4th ..								
	Collective weight	116	1	5					144 0 0
34052	Stream	12	0	14	3	0	8	12	19 2 2
34036	Kedge	6	0	15	1	1	19	8	10 0 0
34035	2nd Kedge ..	3	0	25	3	8	5	14	1 14 3

CHAIN CABLES.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF Chain Cable.		Fathoms & size. Per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
				Cwts.	qrs. lbs.				
13946	150.3 1/2	2 1/16	107 1/2	328	1-21	300	2 1/16 steel link	Hingley & Co	Lipton 18/93 E. R. Lipton
13947	150	2 1/16	107 1/2	326	2-0				hetherington 24/93 Liverpool
22727									
Iron Steam Chain	90-2	1 3/16	38-25	10	67-0-17	90	1 3/16 steel link	Hingley & Co	hetherington 24/93 Liverpool
Towline (steel wire)	120	4 1/2	39			120	4 1/2 steel	Garnock, Bibby & Co	

HAWSERS AND WARPS.
Boats *4 in R.*
Pumps, Number *10, 5 inch & 2.4 inch* Diameter of Barrel and Tail Pipe *Barrel 5" Tail 2 1/2", Barrel 4" Tail 2"*
The Windlass is *Black & Chapman* Capstan *✓*
Engine Room Skylights.—How constructed? *Seal on iron cramping*
What arrangements for deadlights in bad weather? *Glass bulls eyes & canvas covers*
Coal Bunker Openings.—How constructed? *Hatchways & huttles* How are lids secured? *Buttens & Bayonet for* Height above deck? *6' 6" clear of bridge & flush in air*
Number of Scuppers, and number and dimensions of Freeing Ports, &c. *eight on each side 2' 6" x 1' 6" seven scuppers on each side*
Cargo Hatchways.—How formed? *Plate and angles* Hatches, if strong and efficient? *Yes*
State size No. 1 Hatch (Forward) *20' x 14' x 2' No. 2 Hatch 20' x 14' x 2' No. 3 Hatch 20' x 14' x 2' No. 4 Hatch 20' x 14' x 2'*
Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *one shifting beam and three fore and afters to each hatchway*
Bulwarks, height above deck and description *4 ft above deck, of iron* Main Rail, material and size *plate & angle 6 1/2" x 2 1/2" x 1/2"*
The above is a correct description.
Builder's Signature (here only) *Richd Hughes* Surveyor's Signature, *H. Hand*
SECRETARY, Surveyor to Lloyd's Register of British and Foreign Shipping.

12432 Gls

Order for Special Survey No. 2601
Date 25 May 1892
Order for Ordinary Survey No. ✓
Date ✓
No. 272 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 } 1872 May 13. 17. 22. 27. 30 June 1. 4. 6. 13. 17. 20. 24. 27. 29. 30 July 1. 4. 11. 12. 14.
2nd. On the plating during the process of riveting } July 27. 30 August 2. 5. 8. 12. 15. 17. 19. 23. 25. 31. Sept. 5. 7. 9. 13. 16. 20. 21
3rd. When the beams were in and fastened } Sept. 24. 27. 29. 30 Oct. 7. 10. 12. 14. 17. 20. 27 Nov. 3. 7. 9. 11. 17. 21. 24. 29. 30 Dec. 3. 6. 9. 13. 16.
4th. When the ship was complete, and before the } Dec. 17. 22. 28. 29. 30 Jan. 1893. 10. 13. 17. 20. 25. 27. 31. Feb. 3. 7. 9. 18. 20. 21. March 1. 6
plating was finally coated or cemented ... March 7. 8. 14. 15. 21. 22 (Apr. 5. 10. 12. 19. 21 May 8. 9. 10. 22. 29. July 13. 24
5th. After the ship was launched and equipped } July 23. 26 Aug. 1. 4. 5. 9. 18. 19. 21. 22. 23. 24. 25. 28. 30 Total No. of Visits 119

State dates and initials of letters respecting this case. M 25/4/92. M 26/4/92. M 30/5/92. M 7/6/92. M 19/8/92. E 19/8/92. M 29/9/92. M 3/10/92

General Remarks (State quality of workmanship, &c.) Workmanship good - This is a steel screw steamer built in accordance with the approved midship section and Profile forwarded to London on 22nd Ult., the accompanying tracings five in all, and Secretaries letters of the above dates, and in conformity with the Rules.
The land pumps have been examined in accordance with circular No. 880 and proved satisfactory. The testing of gutter waterways have been carried out and found satisfactory.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 17 ft., R.Q.D. or Break ✓ ft., Bridge Dk. 72 ft., F' castle 44 ft.
(in feet and tenths) where the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) 2 Sks. steel 1 pt. w.s. 3 trs.
Official No. 102794; Signal Letters

PARTICULARS OF WATER BALLAST.—
Double bottom, aft, length ✓ and water capacity in tons ✓. Double bottom, forward, length ✓ and water capacity in tons ✓.
Double bottom, under engines and boilers, length ✓ and water capacity in tons ✓. If under engine only, or boilers only, state which ✓.
Double bottom, constructed on the cellular system, length 276 and water capacity in tons 750.
Fore peak tank, water capacity in tons ✓. After peak tank, water capacity in tons ✓.
Midship deep tank, length 16 and water capacity in tons 380. Other tanks, if fitted, length ✓ and water capacity in tons ✓.
The above have been tested as required by the Rules.
(If necessary, furnish further information by sketch.)
How are the surfaces preserved from oxidation? Inside Paint Outside Paint

FREEBOARD assigned by the Committee, as per Secretary's Letter dated 25/8/93
In Summer 6 ft. 0 ins. In Winter 6 ft. 5 ins. To top of Wood, Iron or Steel Upper Deck.
For Winter in North Atlantic 6 ft. 10 ins. 12" above deck at side
Fresh Water above the centre of disc 5 1/2 ins.

The amount of Entry Fee £ 5 : 0 : 0 is received by me, W. H. Hand
Special £ 11 : 6 : 6 6/9/1893 * Certificate to be sent to Glasgow
Certificate £ 0 : 0 : 0
Travelling Expenses, if any £ 0 : 0 : 0
I am of opinion this Vessel should be Classed 100 A. 1 Steel
Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI 8 SEP 1893
Character assigned 100 A. 1 Steel
2 A + C
+ 2 M 9.93
2 Sks Steel - 11 pt w.s
3 trs B
7. K
100 A. 1 Steel
2 Sks (St. V - pt w.s) 3 trs B
M.B. = Cull D.B. (particulars above)
F.K.
Hull Certificate Written. GLS168-0050(212)
Lloyd's Register Foundation
7/9/93