

Received at London Office. SAT. 22 SEP 1886

GTH on Deck per Rule	Feet. 34.5	Inches. 2	BREADTH — Moulded	Feet. 47	Inches. 3	DEPTH, ACTUAL —	Top of Plank to top of Upper Dk. Beams	Feet. 25	Inches. 3	No. of Decks with flat laid <i>One</i>
				Do.	do.	do.	do.	Main Dk. Beams		No. of Tiers of Beams <i>Two</i>
Divisions of Ship per Register, Length 347.0 breadth 47.4 depth 25.2 Moulded depth, ft. 27 ins. 10½ To Upper Dk. Round of Upper Dk. Beam, Actual 11 ins.										

FRAMING.				FORGINGS or CASTINGS.				Inches in Ship.				Inches per Rule Or as Approved.				
Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule Or as Approved	Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule Or as Approved	Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule Or as Approved	Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule Or as Approved	
ME, Angles, or L E Bars for length amidships				10	3 1/2	11	10	3 1/2	11	KEEL, Bar or Side Plates, depth and thickness				11 x 2 1/2	11 x 2 1/2	
for 1/2 at each end				10	3 1/2	10	10	3 1/2	10	STEM, moulding and thickness				11 x 6 3/4	11 x 6 3/4	
in way of Double Bottoms at Solid Floors				Floors flanged top and bottom						STERN-POST for Rudder do. do				11 x 6 3/4	11 x 6 3/4	
at intermdt. Bkts.										for Propeller				11 x 6 3/4	11 x 6 3/4	
of Frames from moulding edge to moulding edge, all fore and aft				24			24			MAIN PIECE of Rudder, diameter at head				9	9	
										do. at heel				6 3/4	6 3/4	
REVERSED FRAME, Angles										RUDDER, how constructed				Single plate as per approved plan		
FRAMING, depth of girder										Can the Rudder be unshipped float?				Yes		
ORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships										KEELSONS & STRINGERS.						
in way of Engines and Boilers										CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate						
thickness at the ends of vessel										Rider Plate						
depth at 1/2 the half breadth, as per Rule				42	9	42	9			Bulb Plate to Intercostal Keelson						
height extended at the Bilges				24		24				Horizontal Plates on Floors						
ORS & BRACKETS in Cell Dble Bottoms										Angles						
Distance apart										SIDE KEELSON, Angles						
TRE GIRDER, in Double bottom, depth and thickness				42	10	42	10			Bulb or Plate above floors, for						
Angles, Top				4	4	9	4	4	9	Intercostal Plate, for						
Bottom				4 1/2	4 1/2	12	4 1/2	4 1/2	12	Attached to outside Plating with Angle						
E GIRDERS, number on each side & thickness				Om	9	Om	9			BILGE KEELSON, Angles						
Angles				3 1/2	3 1/2	8	3 1/2	3 1/2	8	Bulb or Plate above floors, for						
RGIN PLATE, depth (exclusive of flange) and thickness				34	9	33	9			Intercostal Plate for						
Angles to Outside Plating				4	4	9	4	4	9	Attached to outside Plating with Angle						
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake				4 1/2	10	4 1/2	10			BILGE STRINGER Angles				6 1/2	4 1/2	12
in Engine and Boiler space					20 1/2		20 1/2			Bulb Plate for						
Remainder in Holds					8-7		8-7			Intercostal Plate for						
AMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				8	3	10	8	3	10	Attached to outside Plating with Angle				3 1/2	3 1/2	9
Angles on upper edge					24		24			SIDE STRINGER Angles				6 1/2	4 1/2	12
Average space										Bulb or Intercostal Plate, for						
AMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				12	11	12	11			Attached to outside plating with Angle				3 1/2	3 1/2	9
Angles on upper edge				6	4	9	6	4	9	Upper Deck Stringer Plates, br'dth & thickness				50	10	50
Average space										Angle on ditto				4 1/2 x 4 1/2	11	4 1/2 x 4 1/2
AMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb										Tie Plates fore and aft, outside Hatchways						
Angles on upper edge										Deck, * Iron or Steel, for						
Average space										Wood Deck. Material & thickness						
AMS, Hold, or Orlop, Plate or Tee Bulb										Middle Deck Stringer Plate, br'dth & thickness				7 1/2	10	7 1/2
Angles on upper edge										Angles on ditto, No. 2				4 x 4	9	4 x 4
Average space										Tie Plates outside Hatchways						
AMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb				6	3	8	6	3	8	Diagonal Tie Plates on Bms, No. of prs.						
Angles on upper edge										Deck, * Iron or Steel, for						
Average space										Wood Deck. Material & thickness						
AMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb										Lower Deck Stringer Plate, br'dth & thickness						
Angles on upper edge										Angles on ditto, No.						
Average space										Tie Plates, outside Hatchways						
AMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb				6	3	8	6	3	8	Deck, * Material and thickness						
Angles on upper edge										Hold, or Orlop Stringer Plate, br'dth & thckn's						
Average space										Angles on ditto, No.						
CLARS, In 'tween Deck, size and spacing										Tie Plates outside Hatchways						
Hold										Deck. Material and thickness						
Quarter 'tween Bks.										Poop Deck Stringer Plate, breadth & thickness				36	7	36
in Hold										Angle on ditto				3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
WEB FRAMES, In Fore Body, No. and spacing										Tie Plates						
br'dth. & thickness										Deck. Material and thickness				Steel	6	6
No. of Side Stringers										Bridge Deck Stringer Plate, br'dth & thickness				48	8	48
WEB FRAMES, In E. & B. Space, No. and spacing										Angle on ditto				3 1/2 x 3 1/2	9	3 1/2 x 3 1/2
br'dth. & thickness										Tie Plates						
No. of Side Stringers										Deck. Material and thickness				Steel	6	6
Size of Angles or Tee Bars to Web-Frames										Forecastle Deck Stringer Plate, b'dth & th'kns				5	5	5
BRACKET PLATES to Stringers between Web Frames, depth and thickness										Angle on ditto				3 1/2 x 3 1/2	7	3 1/2 x 3 1/2
										Tie Plates				2 1/2 pine	2 1/2	2 1/2
										Deck. Material and thickness						
										BULKHEADS.						
										Number.						
										In Vessel.						
										Per Rule.						
										Thickness.						
										Horizontal.						
										Vertical.						
										Size.						
										Spacing.						
										Size.						
										Spacing.						
										Single or Double Frames.						
										Height up.						
										W. T. BULKHEADS				6	6	7-6
										PARTITION						
										LONGITUDINAL						
										Are the outside Plates doubled two spaces of Frames in length?				Diamond liners.		
										Are the Sluice Valves and Watertight Doors in efficient working order?				Yes.		

PLATING.

AS IN SHIP.

PER RULE OR AS APPROVED.

STRAKES.

	Length	Thickness	Forward	Aft	Per Rule
FLAT PLATE KEEL	48	19	43	13	48
GABBOARD OF A Strake	64	13	12	12	64
B "	64	11	9	9	64
C "	64	11	9	9	64
D "	71	13	10	10	71
E "	61	13	10	10	61
F "	63	13	10	10	63
G "	63	12	9	9	63
H "	62	12	9	9	62
J "	60	12 1/2	9	9	60
K "	56	13 1/2	10	10	56
L "	See approved sketch				
M "					
N "					
O "					
P "					
Q "					
R "					

DOUBLING OF Flat Plate Keel

Length of Bilges 8

Thickness of Sheerstrakes 7

Thickness of Strake below 11

POOP SIDES 8

BRIDGE SIDES 8

FORECASTLE SIDES 8

Manufacturer's name or trade mark of the Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. *South Durham; Consett; Palmers; Dalzell; and Frodingham. Siemens process.*

Has the Steel been tested as required by the Rules? *Yes.*

FRAMES extend in one length from *tank margin plate to deck (Floors flanged top and bottom)*

REVERSED FRAMES on floors and frames extend from *Bulk angle frames.*

MASTS, SPARS, &c.

	Material	Total Length	DIAMETER AND THICKNESS	No. of Plates in round	ANGLES	RIVETING
LOWER MASTS	Steel	53-10	19 x 3/8	15	2	Single treble
Main	"	54-7	17 x 3/8	15	2	"
Mizen	"	"	"	"	"	"

Topmasts, and Remainder of Spars Pine.

Rigging, Material and Size, Shrouds Wire 4.

Sails, 2 Dredgails.

Stays, wire 4 1/2.

ANCHORS.

	Number of Certificate	Weight, Ex. Stock	Weight of Stock	Test, per Certificate	Weight Required by Table 22	Description of Anchor	Makers	Where and when tested and Superintendent
1st Bower	57393	53	21	44	7	2	52	2
2nd "	57383	51	2	43	7	3	52	2
3rd "	57382	45	1	39	9	2	44	2
4th "		150	16	149	2			
Stream	30093	14	6	15	12	2	14	2
Kedge	30092	6	1	6	5	2	6	2

CHAIN CABLES.

	Number of Certificate	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms and Size per Table 22	Description	Makers of Cables	When and where tested, and Superintendent
Stream	30454	270	2 1/2	107	176	57	270	2 1/2	Steel f. Green 29.6.06, Sipton C. E. Perrin.
Steel Wire		90	4 1/2	39			90	4 1/2	

HAWSERS AND WARPS.

	Number of Certificate	Fathoms	Size	Test per Certificate	Weight of Hawser or Warp	Fathoms and Size per Table 22	Description	Makers	When and where tested, and Superintendent
Stream		90	4 1/2	39			90	4 1/2	

Boats, 2 life and one other.

Pumps, Number One fly wheel pump, connected to steam suction pipes in each compartment.

Windlass is binerton, Walker & Thompson (Bros.)

Engine Room Skylights, How constructed? Steel on trunk bulkheads.

What arrangements for deadlights in bad weather? Bulls eyes in steel shutters.

Coal Bunker Openings, How constructed? Steel coverings. How are lids secured? By hatch bars.

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. On each side, 8 scuppers, and 8 ports 36" x 15".

Ceiling in Holds, thickness and material 2 1/2 lb. pine.

Ceiling 'tween Decks, thickness and material Sparring 6" x 2 lb. pine.

Cargo Hatchways, How formed? Of plates and angles.

State size No. 1 Hatch (Forward) 24-6 x 17-0 x 42. No. 2 Hatch 26-0 x 18-0 x 42. No. 3 Hatch 26-0 x 18-0 x 40. No. 4 Hatch 26-0 x 17-0 x 30.

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 2 deep web plates and 3 fore & afters.

No. of Breasthooks 8. No. of Crutches 2 & deep floors.

Bulwarks, height above deck and description 3-6. Steel plating.

Main Rail, material and size 6" x 3" Bulk angle.

The above is a correct description.

Builder's Signature (here only) For FURNESS, WITBY & CO., LIMITED.

Surveyor's Signature J. Thomson.

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

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *1905-6-6 Oct, 15th Dec., 1906:—2 Mar. M. 7th Dec. 1905 E.*

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 plating? *A few.*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes.*

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? *Yes.* State results of tests *Satisfactory.*

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *Yes.* State results of tests *Satisfactory.*

General Remarks (State quality of workmanship, &c.) *The workmanship throughout is good. This vessel is built in accordance with the approved midship section forwarded to London on 19th Sept. 1906, the accompanying tracings (6 in 1"), the Secretary's letters referred to above, and in general conformity with the Rules for the Class contemplated.*

This vessel after being completed was run into by the S.S. "Heros" and sustained damage at the stern; the repairs are to be effected at the Tyne, where the vessel has gone to load, and the Newcastle Surveyors have been advised. The Class recommended is subject to the repairs at stern being satisfactorily effected.

Is a sister vessel to the "Malvern Range", Hpl. Report No. 12947.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *30* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *106* ft., F'castle *3 1/2* ft. (in feet and tenths). When 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) *1 Pl. (Steel), 2 tiers of Beams and deep framing.*

Official No. *✓*; Signal Letters *✓*

How are the surfaces preserved from oxidation? Inside *By cement and paint.* Outside *By paint.*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	114	261	Fore peak tank,		
Double bottom, under Engines and Boilers,	42	122	After peak tank,		21
Double bottom, if under Engines only,			Midship deep tank,		
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,	144	395	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

State whether the above have been tested as required by the Rules. *Yes.*

Order for Special Survey No. <i>1096</i>	DATES of Surveys held while building <i>1906. Apr. 2, 7, 12, 19, 24, 27, May, 1, 4, 5, 11, 14, 16, 18, 22, 25, 29, June, 1, 7, 11, 15, 18, 21, 26, 28, July, 3, 6, 7, 9, 10, 11, 15, 17, 20, 22, 25, 27, 30, Aug, 1, 17, 24, 29, 31, Sept, 3, 7, 10, 12, 18, 20.</i>
Date <i>5th Oct. 1905</i>	
No. <i>295</i> in builder's yard.	
	Total No. of Visits <i>49</i>

The amount of Entry Fee £ <i>5</i>	Fees applied for, <i>20. 9. 1906</i>	Certificate to be sent to <i>West Hartlepool</i>
Special Survey Fee £ <i>109. 15. 6</i>	Received by me, <i>J. Thomson</i>	
Travelling Expenses, if any £ <i>21. 9. 1906</i>		
State whether the Vessel has been built under Special Survey <i>Yes.</i>		
I am of opinion this Vessel should be Classed <i>100 A1</i>		
without Freeboard, as condition of Class		

Committee's Minute *FRI, 28 SEP 1906*

Character assigned *100 A1 (S)*

Lloyd's are + time 9.06

J. Thomson

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

Surveyor's Signature J. Thomson.

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

Builder's Signature (here only) For FURNESS, WITBY & CO., LIMITED.

Surveyor's Signature J. Thomson.