

IRON SHIPS.

Rec 7/12/71

No. 1024 Survey held at Sunderland Date, First Survey 6th April Last Survey 27th Novem^r 1871

On the New Steamer "Celsus" Master Geo. Haig

Tonnage under Tonnage Deck	785.71	ONE OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.	THREE DECKED VESSELS.	Built at <u>Sunderland</u>
Distance from Third Spar to Awaiting Deck	200.72	Half moulded breadth	14.71	When built <u>1871</u> Launched <u>30th Sept. 71</u>
Distance from Poop to Awaiting Deck	1.79	Depth from upper part of Keel to top of Upper Deck Beams	18.58	By whom built <u>Joseph Thompson</u>
Distance from House Deck to Forecastle	18.88	Depth of Half Midship Frame (as per Rule)	30.25	Owners <u>J. H. W. Culliford & Co.</u>
Tonnage	1007.21	1st Number	63.56	Port belonging to <u>Sunderland</u>
Space between Decks	29.55	Length	211.83	Destined Voyage <u>Hamburg</u>
Tonnage on Beam	322.31	2nd Number	13.459	Surveyed while Building, Afloat, or in Dry Dock.
Tonnage, as a rule, cut on Beam	655.35	Depths to Length	11	
				Breadths to Length <u>7</u>

Length	211.83	Breadth	29.8	Depth	16.8	Power of Engines	98	No. of Decks with flat laid	One
Dimensions of Ship per Register, length	214.8	breadth	29.8	depth	16.8			No. of Tiers of Beams	Two

Description	Inches in Ship		Inches required per Rule		Description	Inches in Ship		Inches required per Rule	
	In Ship	In Ship	In Ship	In Ship		In Ship	In Ship	In Ship	In Ship
Keel, if bar iron, depth and thickness	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8	Flat Keel Plates, breadth and thickness	30	17 1/2	30	17 1/2
Do. if centre through plate, depth and thickness	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8	Plates in Garboard Strakes, breadth and thickness	30	17 1/2	30	17 1/2
Do. if bar iron, moulding and thickness	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8	Do. from Garboard to upper part of Bilges	9	9	9	9
Do. in-post for Rudder do. do.	8 x 4 3/4	7 1/2 x 4 3/4	7 1/2 x 4 3/4	7 1/2 x 4 3/4	Do. of doubling at Bilge, or increased thickness, and length applied	8	8	8	8
Distance from Frames from moulding edge to moulding edge, all fore and aft	23	23	23	23	Do. from up. part of Bilge to l. edge of Sh'rstrake	30	11	30	11
Frames, size of Angle Iron, for 1/2 length amidships	4	3	4	3	Do. Main Sheerstrake, breadth and thickness	30	11	30	11
Do. for 1/4 at each end	4	3	4	3	Do. of d'bling at Sh'rstrake, & length applied	-	-	-	-
Reversed Frames, size of Angle Iron	4	3	4	3	Do. from Mn. to Up. or Spar Dk. Sh'rstrake	-	-	-	-
Do. depth and thickness of Floor Plate at mid line for half the length amidships	19	19	18	18	Do. Up. or Spar Dk Sh'rstrake, brdth & thickness	-	-	-	-
Do. at the ends	9 1/2	8 1/2	7 1/2	7 1/2	Butt Straps to outside plating, breadth & thickness	16 1/2	14 1/2	16 1/2	14 1/2
Do. do. do. at Bilge Keelson	9 1/2	8 1/2	7 1/2	7 1/2	Lengths of Plating	2 spaces of frames			
Do. height extended at the Bilges	twice midship depth	twice midship depth	twice midship depth	twice midship depth	Shifts of Plating, and Stringers	2 spaces of frames			
Do. Upper, Spar, or Awaiting Deck (No. 53)	4	3	4	3	Gunwale Plate on ends of Awaiting, Spar, or Upper Deck Beams, breadth and thickness	45 1/2	9 x 8	45 1/2	9
Do. single or double Angle Iron, Plate or Tee Bulb Iron	4	3	4	3	Angle Iron on ditto	4 x 4 x 7/16			
Do. double Angle Iron on Upper edge	4	3	4	3	Tie Plates (fore and aft), outside Hatchways	14	9	14	9
Do. for Middle Deck (No.) single, double Angle Iron, Plate or Tee Bulb Iron	4	3	4	3	Diagonal Tie Plates on Beams (No. of Pairs)	-	-	-	-
Do. single or double Angle Iron, on Upper Edge	4	3	4	3	Planksheer material and scantling	2 1/2	2 1/2	2 1/2	2 1/2
Average space	2 1/2	2 1/2	2 1/2	2 1/2	Waterways do. do.	3 3/4	3 3/4	3 3/4	3 3/4
Do. Lower Deck, Hold or Orlop (No. 25)	4	3	4	3	Flat of Upper Deck do. do.	3 3/4	3 3/4	3 3/4	3 3/4
Do. single or double Ang. Iron, Plate or Tee Bulb Iron	4	3	4	3	How fastened to Beams	3 3/4	3 3/4	3 3/4	3 3/4
Do. single or double Angle Iron on Upper Edge	4	3	4	3	Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	-	-	-	-
Average space	2 1/2	2 1/2	2 1/2	2 1/2	(Is the Stringer Plate attached to the outside plating?)	-	-	-	-
Do. Keelson Centre line, single or double plate, box, or intercostal, size of Plates	13 1/2	11	13 1/2	11	Angle Irons on ditto (No.)	-	-	-	-
Do. Bulb Plate to Intercostal Keelson	7	7 1/2	7 1/2	7 1/2	Tie Plates, outside Hatchways	-	-	-	-
Do. Size of Angle Irons	4	4	4	4	Diagonal Tie Plates on Beams (No. of pairs)	-	-	-	-
Do. Side Intercostal Keelson, size of Plates	4	4	4	4	Waterways materials and scantlings	-	-	-	-
Do. Angle Irons on tops of Floors	4	4	4	4	Flat of Middle Deck do. do.	-	-	-	-
Do. Bilge Keelson, Bulb Iron	4	4	4	4	How fastened to Beams	-	-	-	-
Do. do. Intercostal plates riveted to plating for length	4	4	4	4	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	25	8	25	8
Do. do. Angle Irons	4	4	4	4	(Is the Stringer Plate attached to the outside plating?)	Yes	Yes	Yes	Yes
Side Stringers (No.) size of Angle Irons	4	4	4	4	Angle Irons on ditto (No. 2)	3 1/2 x 3 1/2 x 7/16			
Do. Intercostal plates riveted to plating for length	-	-	-	-	Stringer or Tie Plates, outside Hatchways	double angle iron 4 x 3 x 7/16	double angle iron 4 x 3 x 7/16	double angle iron 4 x 3 x 7/16	double angle iron 4 x 3 x 7/16

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

Knight-heads Iron Hawse Timbers Iron

Windlass Harfield & Co's patent Pall Bitt Iron

The Frames extend in one length from Keel to Gunwale Riveted through plates with (3/4 in.) Rivets, about 5 apart.

The Reverse Angle Irons on the floors and frames extend near the middle line, to hold beam stringer angles and to gunwale 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 (3/4 in.) diameter, averaging (3 1/2 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 1/2 ins.) from centre to centre.

Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (9/16) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3 1/2 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 2 Strakes at Bilge for half length, treble riveted with Butt Straps 1/16 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 1/2 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 1/4 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 treble Riveted for half length amidships. Breadth of laps of plating in double Riveting (4 3/4) Breadth of laps of plating in single Riveting ()

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 planks and to the Beams. (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? secured from ends & riveted to No. of Breasthooks, 4 Crutches, 3 Transoms

What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Beams & Angles from Dryack & Co.

Manufacturer's name or trade mark, "S. & Co." "Horse" "Connell" ; shell plating from Stockton

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

Builder's Signature, Joseph L. Thompson Surveyor's Signature, James Wilson

6200-0542021

