

# IRONSHIPS.

No. 10102 Survey held at Sunderland Date, First Survey Dec. 2. 1870 Last Survey May 2. 1871

In the Screw Steamer "David Burn" Master Essen

To age under Tonnage Deck	690. 31
Ditto of Spar Deck	
Awning Deck	
of Poop, or raised Or. Dh.	26. 43
of Houses Deck	33. 27
of Forecastle	
ss Tonnage	750. 01
in Space, as per Rule	29. 48
under Tonnage, cut on Beam	
Fore Room	240. 03
under Tonnage, as a Frame, cut on Beam	480. 50

ONE OR TWO DECKED, SPAR, OR AWNING DECKED VESSELS.		THREE DECKED VESSELS.	
Half moulded breadth	14. 3	Half Moulded Breadth	
Depth from upper part of Keel to top of Upper Deck Beams	18. 0	Total Depth if three or more Decks	
Girth of Half Midship Frame (as per Rule)	29. 3	Total Girth of Half Midship Frame	
1st Number	61. 6	3rd Number	
Length	19. 8	Length	
2nd Number	12, 07 8	4th Number	
Depths to Length	12	Breadths to Length	7

Built at Sunderland  
 When built 1871 Launched Mar 23/71  
 By whom built Wm Foxford & Sons  
 Owners Robert Hindhaugh  
 Port belonging to London  
 Destined Voyage London  
 If Surveyed while Building, Afloat, or in Dry Dock. Under Building

Length on deck as per Rule, 198 Feet. Inches. Moulded Breadth, 28 Feet. Inches. 6 Depths from top of Floors to Upper and Main Deck Beams, as per Rule. 16 Feet. Inches. 6 Horse. Power of Engines, 90 N<sup>o</sup>. of Decks, one N<sup>o</sup>. of Tiers of Beams two

Dimensions of Ship per Register, length, 200. 5 breadth, 28. 75 depth, 16. 25

	Inches in Ship	Inches required per Rule		Inches in Ship	Inches required per Rule		Inches in Ship	Inches required per Rule		Inches in Ship	Inches required per Rule
Keel, if bar iron, depth and thickness	7 1/2 x 2 1/2	8 x 2 1/8									
Do. if centre through plate, depth and thickness											
tem, if bar iron, moulding and thickness	7 x 2 1/2	7 x 2 1/8									
tern-post for Rudder do. do.	7 1/4 x 4 1/2	7 x 4 3/4									
stern-post for Propeller	7 1/4 x 4 1/2	7 x 4 3/4									
Distance of Frames from moulding edge to moulding edge, all fore and aft	22	(Class 90 ft)									
Frames, size of Angle Iron, for 1/2 length amidships	4 3 7	4 3 7									
Do. for 1/3 at each end	4 3 6	4 3 6									
Reversed Frames, size of Angle Iron	3 3 7	3 3 7									
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	18 1/2 - 8	18 - 8									
Do. at the ends	4 - 7	- 7									
Do. do. do. at Bilge Keelson	10 1/2	-									
Do. height extended at the Bilges	<u>Twice depth of keel</u>	-									
Beams, Upper Spar, or Awning Deck (No. 55) single or double Angle Iron, Plate or Tee Bulb Iron	7 - 7	7 - 7									
Single or double Angle Iron on Upper edge	2 1/2 2 1/2 5	2 1/2 2 1/2 5									
Average space	44	-									
Beams, Main or Middle Deck (No. ) single or double Angle Iron, Plate or Tee Bulb Iron	-	-									
Single, or double Angle Iron, on Upper Edge	-	-									
Average space	-	-									
Beams, Lower Deck, Hold or Orlop (No. 26) single or double Ang. Iron, Plate or Tee Bulb Iron	7 - 7	7 - 7									
Single or double Angle Iron on Upper Edge	2 1/2 2 1/2 5	2 1/2 2 1/2 5									
Average space	44 88	44 88									
Keelson Centre line, single or double plate, box, or intercostal, size of Plates	13 - 10	13 - 10									
Do. Bulb Plate to Intercostal Keelson	7 - 7	7 1/8 - 7									
Do. Size of Angle Irons	5 3 8	4 1/2 3 1/2 7									
Do. Side Intercostal Keelson, size of Plates	-	-									
Do. Angle Irons on tops of Floors	-	-									
Do. Bilge Keelson, Bulb Iron	-	-									
Do. do. Intercostal plates riveted to plating for length	-	-									
Do. Angle Irons	4 1/2 3 1/2 8	4 1/2 3 1/2 7									
Side Stringers (No. / ) size of Angle Irons	4 1/2 3 1/2 7	4 1/2 3 1/2 7									
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	-	-	-	-
Plates in Garboard Strakes, breadth and thickness	30	9	30	9
Do. from Garboard to upper part of Bilges	-	8	-	8
Do. of doubling at Bilge, or increased thickness, and length applied	-	-	-	-
Do. fm up. part of Bilge to lr. edge of Sh'rstrake	-	7	-	7
Do. Main Sheerstrake, breadth and thickness	-	-	-	-
Do. of d'bling at Sh'rstrake, & length applied	-	-	-	-
Do. from Mn. to Upr. or Spar Dk. Sh'rstrake	-	-	-	-
Do. Up. or Spar Dk Sh'rstrake, brdth & thickness	30 1/2	10 full	30	10
Butt Straps to outside plating, breadth & thickness	10 1/2	8 1/2	9	8 1/2
Lengths of Plating	5 Space	-	-	-
Shifts of Plating, and Stringers	2 Space	-	-	-
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	2 1/2	8 full	28	8
Angle Iron on ditto	4 1/2 x 3 1/2	7	4 1/2 x 3 1/2	7
Tie Plates (fore and aft), outside Hatchways	9	8	9	8
Diagonal Tie Plates on Beams (No. of Pairs, 10)	9 1/2	8	9	8
Planksheer material and scantling	-	-	-	-
Waterways do. do.	-	-	-	-
Flat of Deck do. do.	3 3/4	Yellow & Pitch Pine	-	-
How fastened to Beams	-	-	-	-
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	-	-	-	-
(Is the Stringer Plate attached to the outside plating?)	-	-	-	-
Angle Irons on ditto (No. )	-	-	-	-
Tie Plates, outside Hatchways	-	-	-	-
Diagonal Tie Plates on Beams (No. of pairs, )	-	-	-	-
Waterways materials and scantlings	-	-	-	-
Flat of Deck do. do.	-	-	-	-
How fastened to Beams	-	-	-	-
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	24 1/2	7	25	7
(Is the Stringer Plate attached to the outside plating?)	Yes	-	-	-
Angle Irons on ditto (No. 2 )	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2	7
Stringer or Tie Plates, outside Hatchways	2 1/2	1 1/2	2 1/2	1 1/2
Flat of Deck	-	-	-	-
Ceiling betwixt Decks, thickness and material	2 1/2	Red Pine	-	-
Do. in hold do. do.	5	-	5	-
Main piece of Rudder, diameter at head	4 x 3 1/2	-	3	-
Do. do. at heel	-	-	-	-
(Can the Rudder be unshipped afloat?)	Yes	-	-	-
Bulkheads No. 4 Thickness of 1/2	-	-	-	-
Do. Height up	-	-	-	-
Do. How secured to the sides of the ship	Double Frames	-	-	-
Do. Size of Vertical Angle Irons, 3 x 3 1/2 and their distance apart, 2/6	-	-	-	-
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 Greenheart Pall Bitt Greenheart

The Frames extend in one length from Keel to Gunwale Riveted through plates with ( 3/4 in.) Rivets, about 6 apart.

The Reverse Angle Irons on the floors and frames extend across the middle line to above angle iron on Hold beam and to Gunwale on alternately frames

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

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

Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes ( 19/16 x 9/16 ) thick, double or single Riveted; with Rivets ( 3/4 in.) diameter averaging ( 3 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? Alternate Strakes

Do. of 2 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 thicker than their plates. 8

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 ins.) from centre to centre.

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

Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps ( 1 1/2 x 3/4 ) thick, double or single Riveted; with Rivets ( 3/4 in.) diameter, averaging ( 3 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 1/2 length amidships. Breadth of laps of plating in double Riveting ( 4 3/4 ) Breadth of laps of plating in single Riveting ( 3 )

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single 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.) Gutter Gunwale

Beams of the various Decks, how secured to the sides? Riveted to frames & Stringer Plate No. of Breasthooks, 4 Crutches, 3

What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Angles & Bulbs - Stephen Malleable Iron

Manufacturer's name or trade mark, Plate Hartlepool Malleable Iron &c

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

Builder's Signature, William Foxford & Sons Surveyor's Signature, Senhouse Martindale

IRON 48-0351

