

IRON SHIP. 25086

Page 17/11/79

No. 2654 Survey held at Belfast Date, First Survey 10 April 1879 Last Survey 11 June 1879

On the Iron Ship "Lord Dufferin" Master J. Dunn

TONNAGE under Tonnage Deck <u>1590.08</u>	ONE, OR TWO DECKED, THREE DECKED VESSEL.	Built at <u>Belfast</u>
Ditto of Main, Spar, or Awaiting Deck <u>109.29</u>	SPAR, OR AWNING DECKED VESSEL.	When built <u>1879</u> Launched
Ditto of Poop, or Raised Quarter Deck <u>21.32</u>	HALF BREADTH (moulded) <u>19.00</u> Feet.	By whom built <u>Harland & Wolff</u>
Ditto of Houses on Deck <u>57.37</u>	DEPTH from upper part of Keel to top of Upper Deck Beams <u>25.50</u>	Owners <u>J. Dunn & Sons</u>
Ditto of Forecastle <u>1778.06</u>	GIRTH of Half Midship Frame (as per Rule) <u>39.16</u>	Port belonging to <u>Belfast</u>
Gross Tonnage <u>81.22</u>	1st NUMBER <u>83.66</u>	Destined Voyage
Less Crew Space	1st NUMBER, if a THREE-DECKED VESSEL	If Surveyed while Building, Afloat, or in Dry Dock.
Less Engine Room	LENGTH <u>254.50</u>	
Register Tonnage as cut on Beam <u>1696.84</u>	2nd NUMBER <u>21.276</u>	
	PROPORTIONS—Breadths to Length <u>6.69</u>	
	Depths to Length—Upper Deck to Keel <u>9.98</u>	
	Main Deck ditto	

Official Number 819256

PLANS

LENGTH on deck as per Rule <u>254</u> Feet. <u>6</u> Inches.	BREADTH—Moulded <u>38</u> Feet. <u>0</u> Inches.	DEPTH top of Floors to Upper Deck Beams <u>23</u> Feet. <u>5 1/2</u> Inches.	Power of Engines <u>✓</u>	Horse. <u>✓</u>	Nº. of Decks with flat laid <u>two</u>	Nº. of Tiers of Beams <u>two</u>
--	--	--	---------------------------	-----------------	--	----------------------------------

Dimensions of Ship per Register, length, 262.9 breadth, 38.3 depth, 25.3

	Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	9 x 2 3/4	9 x 2 5/8
STEM, moulding and thickness	9 x 2 1/2	9 x 2 1/2
STERN-POST for Rudder do. do. for Propeller	9 x 2 1/2	9 x 2 1/2
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	24 (Class 100 A)
FRAMES, Angle Iron, for 3/4 length amidships Do. for 1/4 at each end	5 3/2 8	5 3/2 8
REVERSED FRAMES, Angle Iron	3/2 3/2 5	3/2 3/2 5
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships thickness at the ends of vessel depth at 3/4 the half-bdth. as per Rule height extended at the Bilges	24 1/2 x 10 12 1/4 49	24 1/2 x 10 12 1/4 49
BEAMS, Upper, Spar, or Awaiting Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron Single or double Angle Iron on Upper edge Average space	9 x 10 48	9 x 9 48
BEAMS, Main, or Middle Deck Single or d'ble Ang. Iron, Plate or Tee Bulb Iron Single, or double Angle Iron, on Upper Edge Average space	9 x 10 48	9 x 9 48
BEAMS, Lower Deck, Hold, or Orlop Single or d'ble Ang. Iron, Plate or Tee Bulb Iron Single or double Angle Iron on Upper Edge Average space	9 x 10 48	9 x 9 48
KEELSONS Centre line, single or double plate, box, or intercostal, Plates Rider Plate Bulb Plate to Intercostal Keelson Angle Irons Double Angle Iron Side Keelson Side Intercostal Plate do. Angle Irons Attached to outside plating with angle iron	19 x 13 12 x 13 5 1/2 4 9 8 5 1/2 4 9 3 1/2 3 1/2 8 3 1/2 3 1/2 5	18 x 13 12 x 13 5 1/2 4 9 8 5 1/2 4 9 3 1/2 3 1/2 5
BILGE Angle Irons do. Bulb Iron do. Intercostal plates riveted to plating for length	5 1/2 4 9 5 1/2 4 9	5 1/2 4 9 5 1/2 4 9
BILGE STRINGER Angle Irons Intercostal plates riveted to plating for length	5 1/2 4 9 5 1/2 4 9	5 1/2 4 9 5 1/2 4 9
SIDE STRINGER Angle Irons	5 1/2 4 9 5 1/2 4 9	5 1/2 4 9 5 1/2 4 9
Transoms, material. Knight-heads. Hawse Timbers.		<u>Iron</u>
Windlass	<u>Greenheart</u>	Pall Bitt <u>Iron (box)</u>

	Inches. In Ship.	16ths. In Ship.	Inches. per Rule.	16ths. per Rule.
Flat Keel Plates, breadth and thickness				
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied	37	12	36	12
fm up. part of Bilge to lr. edge of Sh'rstrake				
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from M. to Up. on Spar Dk. Sh'rstrake.				
Up. or Spar Dk Sh'rstrake, brdth & thickness	41	13	40	13
Butt Straps to outside plating, breadth & thickness	19 1/2, 12 1/2	11, 12, 13, 14	11 1/4, 16 1/4	10 1/2, 14
Lengths of Plating	12'-0"		10ft	
Shifts of Plating, and Stringers	4'-0"		4 5	
Gunwale Plate on ends of Awaiting, Spar, or Upper Deck Beams, breadth and thickness	47	10	45	10
Angle Iron on ditto	5 1/2 x 4 x 9		5 1/2 x 4 x 9	
Tie Plates fore and aft, outside Hatchways	14	10	14	10
Diagonal Tie Plates on Beams No. of Pairs, (6)	14	10	14	10
Planksheer material and scantling				
Waterways do. do.			<u>Butter</u>	
Flat of Upper Deck do. do.			<u>Yellow pine</u>	
How fastened to Beams			<u>Gal. cut. & screw bolts</u>	
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 Middle Deck do. do.				
How fastened to Beams				
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	37	9	37	9
Is the Stringer Plate attached to the outside plating?	yes		yes	
Angle Irons on ditto, No.	4 x 4 x 9		4 x 4 x 9	
Stringer or Tie Plates, outside Hatchways	14	9	14	9
Flat of Lower Deck				
Ceiling betwixt Decks, thickness and material in hold			<u>do. Pine do.</u>	
Main piece of Rudder, diameter at head do. at heel	6 3/8 3 1/4		6 1/4 3 1/4	
Can the Rudder be unshipped afloat?	yes			
Bulkheads No. one Thickness of			7/16	7/16
Height up			<u>upper deck</u>	
How secured to sides of ship			<u>between double frame angles</u>	
Size of Vertical Angle Irons 2 1/2 x 3 1/2 x 8 and distance apart			<u>30 ins.</u>	
Are the outside Plates doubled two spaces of Frames in length?			<u>yes</u>	

The FRAMES extend in one length from Keel to upper deck & gunwale Riveted through plates with 7/8 in. Rivets, about 6" apart.

The REVERSED ANGLE IRONS on floors and frames extend across middle line to lower and to upper d'ks alternately

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? yes And butts properly shifted?

PLATING. Garboard, double riveted to Keel, with rivets 1/8 in. diameter, averaging 4 7/8 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 3/2 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3/2 ins. from centre to centre.

Butts of three Strakes at Bilge for half length, treble riveted with Butt Straps 1/8 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 3/2 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3/2 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted. at lower edge. 2 Butts 1/8 thicker for 1/2 length.

Butts of Main Sheerstrake, treble riveted for length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 3/5 length amidships.

Butts of Main Stringer Plate, treble riveted for length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 3/5 length.

Breadth of laps of plating in double riveting 5 1/2 Breadth of laps of plating in single riveting 3 Butts 1/8 thicker.

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Quadruple, treble and double

Waterway, how secured to Beams Butter (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? Turned knees welded No. of Breasthooks, 4 Crutches, 4

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

Manufacturer's name or trade mark, Mossend Insetts F. H. 160

The above is a correct description.

Builder's Signature, Harland & Wolff Surveyor's Signature, J. W. Bullard

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

IRON 488-0514

5000 (12.6.76)

