

IRON SHIP.

21499
Recd 12/8/78

No. 14040 Survey held at Newcastle Date, First Survey 12th March Last Survey 5th Aug 1878

On the S.S. "Danish Monarch" Master Walton

TONNAGE under Tonnage Deck	1116.45	ONE, OR TWO DECKED, THREE DECKED VESSEL.	Built at Newcastle
Ditto of Third, Spar, or Awning Deck		SPAR, OR AWNING DECKED VESSEL.	When built 1878 Launched 15 th June
Ditto of Poop, or Raised Qr. Dk.	159.54	HALF BREADTH (moulded) 16.4	By whom built J. W. Richardson & Co.
Ditto of Houses on Deck	25.22	DEPTH from upper part of Keel to top of Upper Deck Beams 20.75	Owners J. Patton Jun ^r & Co.
Ditto of Forecastle Hatch	26.88	GIRTH of Half Midship Frame (as per Rule) 33.25	Port belonging to London
Gross Tonnage	1338.27	1st NUMBER 70.40	Destined Voyage
Less Crew Space	43.44	1st NUMBER, if THREE DECKED VESSEL	Surveyed while Building, Afloat, or in Dry Dock.
Less Engine Room	1294.83	LENGTH 248.5	
Register Tonnage as cut on Beam	428.25	2nd NUMBER 17494	
	866.58	PROPORTIONS—Breadths to Length 7.5	
		Depths to Length—Upper Deck to Keel 11.97	
		Main Deck ditto	

LENGTH in deck as per Rule	248 6	BREADTH—Moulded	32 10	DEPTH top of Floors to Upper Deck Beams	18 10	Power of Engines	150	Nº. of Decks with flat laid	One
				Do. do. Main Deck Beams				Nº. of Tiers of Beams	Two

Dimensions of Ship per Register, length, 250.8 breadth, 33.2 depth, 18.55

	Inches in Ship		Inches per Rule	
	In Ship	In Ship	Inches	16ths
KEEL, depth and thickness	9 x 2 1/2	9 x 2 1/2	9 x 2 1/2	9 x 2 1/2
STEM, moulding and thickness	8 1/2 x 2 1/2	8 1/2 x 2 1/2	8 1/2 x 2 1/2	8 1/2 x 2 1/2
STERN-POST for Rudder do. do.	8 1/2 x 5	8 1/2 x 5	8 1/2 x 5	8 1/2 x 5
for Propeller				
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	24	24	24
FRAMES, Angle Iron, for 1/2 length amidships	4 1/2 3	7 6	4 1/2 3	7 6
Do. for 1/2 at each end	4 1/2 3	7 6	4 1/2 3	7 6
REVERSED FRAMES, Angle Iron	3 3	7 7	3 3	7 7
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	2 1/2 9	2 1/2 9	2 1/2 9	2 1/2 9
thickness at the ends of vessel	8 x 7	8 x 7	8 x 7	8 x 7
depth at 3/4 the half-bath, as per Rule	10 3/4	10 3/4	10 3/4	10 3/4
height extended at the Bilges	4 3	4 3	4 3	4 3
BEAMS, Upper, Spar, or Awning Deck Single or double Ang. Iron, Plate or Tee Bulb Iron	5 1/2 3 8	5 1/2 3 8	5 1/2 3 8	5 1/2 3 8
Single or double Angle Iron on Upper edge				
Average space	24	24	24	24
BEAMS, Main or Middle Deck Single or double Ang. Iron, Plate or Tee Bulb Iron				
Single or double Angle Iron, on Upper Edge				
Average space				
BEAMS, Lower Deck, Hold, or Orlop do or double Ang. Iron, Plate or Tee Bulb Iron	9 9	9 9	9 9	9 9
do or double Angle Iron on Upper Edge	4 3 1/2 8	4 3 1/2 8	4 3 1/2 8	4 3 1/2 8
Average space				
ELSONS Centre line, single or double plate, box, or Intercostal Plates	17 12	17 12	17 12	17 12
Rider Plate				
Bulb Plate to Intercostal Keelson				
Angle Irons	5 4 9	5 4 9	5 4 9	5 4 9
Double Angle Iron Side Keelson				
Side Intercostal Plate				
do. Angle Irons	5 4 9	5 4 9	5 4 9	5 4 9
Attached to outside plating with angle iron	3 3 7	3 3 7	3 3 7	3 3 7
BILGE Angle Irons	5 4 9	5 4 9	5 4 9	5 4 9
do. Bulb Iron	8 8	8 8	8 8	8 8
do. Intercostal plates riveted to plating for length				
BILGE STRINGER Angle Irons	5 4 9	5 4 9	5 4 9	5 4 9
Intercostal plates riveted to plating for length				
IDE STRINGER Angle Irons				

	Inches in Ship	16ths in Ship	Inches per Rule	16ths per Rule
Flat Keel Plates, breadth and thickness	36 11	36 11	36 11	36 11
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	11/16 for 1/2 L.	11/16	11/16	11/16
of doubling at Bilge, or increased thickness, and length applied	one strake one strake			
fm up. part of Bilge to lr. edge of Sh'rstrake	10	10	10	10
Main Sheerstrake, breadth and thickness	40 13	40 13	40 13	40 13
of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake.	36ft in way of Break	9	9	9
Up. or Spar Dk Sh'rstrake, brdth & thickness				
Butt Straps to outside plating, breadth & thickness	16 3/4 5 9 3/4	12 5 8/16		
Lengths of Plating	12 ft	12 ft		
Shifts of Plating, and Stringers	4 ft	4 ft		
Gunwale Plate on ends of Awning Spar, or Upper Deck Beams, breadth and thickness	36 10	36 10		
Angle Iron on ditto	5.4.9	5.4.9		
Tie Plates fore and aft, outside Hatchways				
Diagonal Tie Plates on Beams No. of Pairs				
Planksheer material and scantling	Iron	Iron		
Waterways do. do.	6/16 iron	6/16		
Flat of Upper Deck do. do.	4 rivets	4 rivets		
How fastened to Beams	36 10	36 10		
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness				
Is the Stringer Plate attached to the outside plating?	Yes	Yes		
Angle Irons on ditto, No. one	5.4.9	5.4.9		
Tie Plates, outside Hatchways				
Diagonal Tie Plates on Beams, No. of pairs				
Waterways materials and scantlings	Iron	Iron		
Flat of Middle Deck do. do.	6/16 iron	6/16		
How fastened to Beams	4 rivets	4 rivets		
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	32 9	32 9		
Is the Stringer Plate attached to the outside plating?	Yes	Yes		
Angle Irons on ditto, No. 2	4.4.9	4.4.9		
Stringer or Tie Plates, outside Hatchways				
Flat of Lower Deck				
Ceiling betwixt Decks, thickness and material in hold do. do.	2 1/2	2 1/2		
Main piece of Rudder, diameter at head do. at heel	6 1/4	6 1/4		
Can the Rudder be unshipped afloat?	Yes	Yes		
Bulkheads No. 4 Thickness of	6/16	6/16		
Height up	To upper deck			
How secured to sides of ship	between double frames			
Size of Vertical Angle Irons	3.3.7	3.3.7		
and distance apart	30 ins			
Are the outside Plates doubled two spaces of Frames in length?	Yes			

The FRAMES extend in one length from Steel to Gunwale Riveted through plates with 7/8 in. Rivets, about 7 in. alternat

The REVERSED ANGLE IRONS on floors and frames extend from middle line to Upper Dk & R^d 2^d Dk and to above hold a strake

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

PLATING. Garboard, double riveted to Keel, with rivets 1/8 in. diameter, averaging 5 1/2 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 7/8 ins. from centre to centre.

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

Butts of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 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 7/8 ins. from cr. to cr.

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

Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships

Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for length

Breadth of laps of plating in double riveting 6 times Breadth of laps of plating in single riveting 3 1/2 times

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Treble & Double

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

Beams of the various Decks, how secured to the sides? Plates riveted to frames No. of Breasthooks, 4 Crutches, 2419

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

Manufacturer's name or trade mark, Angles &c from Dornou, Long & Co

The above is a correct description

Builder's Signature, William Richardson & Co Surveyor's Signature, T. Moverby

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

IRON 149-0370

