

# IRON SHIP.

Survey held at Dumbarton Date, First Survey 30<sup>th</sup> August 74 Last Survey 18<sup>th</sup> February 1876  
 Ship Northern Monarch Master J. J. Garden

AGE under 1130 90 ONE OR TWO DECKED, THREE DECKED VESSEL.  
 SPAR, OR AWNING DECKED VESSEL.  
 HALF BREADTH (moulded) 10.13  
 DEPTH from upper part of Keel to top of Upper Deck Beams 24.0  
 GIRTH of Half Midship Frame (as per Rule) 26.41  
 1st NUMBER 4850  
 2nd NUMBER 16953  
 LENGTH 215.75  
 2nd NUMBER 16953  
 PROPORTIONS—Breadths to Length  
 Depths to Length—Upper Deck to Keel 0.90  
 Main Deck ditto 0.90

Built at Dumbarton  
 When built 1875 Launched 20. 12. 75  
 By whom built D. McMillan & Son  
 Owners Real Exchange Shipping Co  
 3 White Lion Court, Cornhill  
 Port belonging to LONDON  
 Destined Voyage Indo - East - Adelaide  
 Surveyed while Building, Afloat, or in Dry Dock

LENGTH Rule 215.75 BREADTH Moulded 36.3 DEPTH top of Floors to Upper Deck 22 No. of Decks with flat laid 2  
 No. of Tiers of Beams 2  
 Dimensions of Ship per Register, length, 227.4 breadth, 36.6 depth, 21.74

EL, depth and thickness 9 x 2 1/2  
 IN, moulding and thickness 8 1/2 x 2 1/2  
 RERN-POST for Rudder do. do. 8 1/2 x 2 1/2  
 for Propeller 24  
 Distance of Frames from moulding edge to moulding edge, all fore and aft 24  
 MES, Angle Iron, for 1/2 length amidships 5 3 0  
 for 1/2 at each end 5 3 0  
 REVERSED FRAMES, Angle Iron 3 1/2 3 0  
 ORS, depth and thickness of Floor Plate 24 10 24 10  
 Mid line for half length amidships 24 10 24 10  
 Thickness at the ends of vessel 14 1/2 14 1/2  
 Depth at 1/2 the half-bath, as per Rule 40 40  
 Height extended at the Bilges 40 40  
 S, Upper, Spar, or Awning Deck 9 0 0 0  
 Double Angle Iron, Plate or Tee Bulb Iron 4 1/2 4 1/2  
 S, Main, or Middle Deck 9 0 0 0  
 Double Angle Iron, Plate or Tee Bulb Iron 4 1/2 4 1/2  
 S, Lower Deck, Hold, or Orlop 9 0 0 0  
 Double Angle Iron, Plate or Tee Bulb Iron 4 1/2 4 1/2  
 SOLENS Centre line, single or double plate, 17 12 17 12  
 Rider Plate 10 1/2 12 10 1/2 12  
 Ball Plate to Intercoastal Keelson 5 4 9 5 4 9  
 Angle Irons 5 4 9 5 4 9  
 Double Angle Iron Side Keelson 5 4 9 5 4 9  
 Side Intercoastal Plate 5 4 9 5 4 9  
 do. Angle Irons 5 4 9 5 4 9  
 Attached to outside plating with angle iron 5 4 9 5 4 9  
 E Angle Irons 5 4 9 5 4 9  
 do. Bulb Iron 5 4 9 5 4 9  
 do. Intercoastal plates riveted to plating for length 5 4 9 5 4 9  
 E STRINGER Angle Irons 5 4 9 5 4 9  
 Intercoastal plates riveted to plating for length 5 4 9 5 4 9  
 STRINGER Angle Irons 5 4 9 5 4 9

Flat Keel Plates, breadth and thickness 36 11 36 11  
 PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges 36 11 36 11  
 of doubling at Bilge, or increased thickness, and length applied 36 11 36 11  
 fm up. part of Bilge to l. edge of Sh'rstrake 36 11 36 11  
 Main Sheerstrake, breadth and thickness 40 13 40 12  
 of doubling at Sh'rstrake, & length applied 40 13 40 12  
 from Main to Upper or Spar Deck Sh'rstrake 40 13 40 12  
 Upper or Spar Deck Sh'rstrake, breadth & thickness 40 13 40 12  
 Butt Straps to outside plating, breadth & thickness 16 1/2 9 14 0 16 1/2 9 14 0  
 Lengths of Plating 6 1/2 6 1/2  
 Shifts of Plating, and Stringers 2 2  
 Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness 4 1/2 10 4 1/2 10  
 Angle Iron on ditto 5 1/4 9 5 1/4 9  
 Tie Plates fore and aft, outside Hatchways 12 10 12 10  
 Diagonal Tie Plates on Beams No. of Pairs 2 0 6  
 Planksheer material and scantling 3 1/2 1 1/2 3 1/2 1 1/2  
 Waterways do. do. 3 1/2 1 1/2 3 1/2 1 1/2  
 Flat of Upper Deck do. do. 1 1/2 4 1 1/2 4  
 How fastened to Beams 1 1/2 4 1 1/2 4  
 Stringer Plate on ends of Main or Middle Deck 3 1/2 9 3 1/2 9  
 Beams, breadth and thickness 3 1/2 9 3 1/2 9  
 Is the Stringer Plate attached to the outside plating? Yes  
 Angle Irons on ditto, No. 2 4 4 2 4 4  
 Tie Plates, outside Hatchways 12 9 12 9  
 Diagonal Tie Plates on Beams, No. of pairs 2 0 6  
 Waterways materials and scantlings 3 1/2 1 1/2 3 1/2 1 1/2  
 Flat of Middle Deck do. do. 1 1/2 4 1 1/2 4  
 How fastened to Beams 1 1/2 4 1 1/2 4  
 Stringer Plates on ends of Lower Deck, Hold or Orlop Beams 3 1/2 9 3 1/2 9  
 Is the Stringer Plate attached to the outside plating? Yes  
 Angle Irons on ditto, No. 2 4 4 2 4 4  
 Stringer or Tie Plates, outside Hatchways 12 9 12 9  
 Flat of Lower Deck 1 1/2 4 1 1/2 4  
 Ceiling betwixt Decks, thickness and material 3 1/2 3 1/2 3 1/2 3 1/2  
 in hold do. do. 3 1/2 3 1/2 3 1/2 3 1/2  
 Main piece of Rudder, diameter at head 6 6  
 do. at heel 3 3  
 Can the Rudder be unshipped afloat? Yes  
 Bulkheads No. 1 1 1 1 1 1  
 Height up Upper Deck  
 How secured to sides of ship Double frames  
 Size of Vertical Angle Irons 3 1/2 3 1/2 3 1/2 3 1/2  
 And distance apart 30 ins.  
 Are the outside Plates doubled two spaces of Frames in length? Yes

Frames extend in one length from Keel to Gunwale Riveted through plates with 1/2 in. Rivets, about 6 apart.  
 REVERSED ANGLE IRONS on floors and frames extend from middle line to Deck Stringer & side frames and to alternately  
 SOLENS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes  
 NG. Garboard, double riveted to Keel, with rivets 1 1/2 in. diameter, averaging 1 1/2 ins. from centre to centre.  
 Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 1 1/2 in. diameter, averaging 1 1/2 ins. from centre to centre.  
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 1 1/2 in. diameter averaging 1 1/2 ins. from centre to centre.  
 Butts of Plank Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/2 thicker than the plates they connect.  
 Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 1 1/2 in. diameter, averaging 1 1/2 ins. from cr. to cr.  
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 1 1/2 in. diameter, averaging 1 1/2 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 1/2 length amidships.  
 Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/2 length.  
 Breadth of laps of plating in double riveting 5 1/2 Breadth of laps of plating in single riveting 5 1/2  
 Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Not treble the rest double  
 How secured to Beams Gutter Waterway (Explain by Sketch, if necessary.)  
 of the various Decks, how secured to the sides? Double frames No. of Breasthooks, four Crutches, four  
 description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Cast Iron  
 Manufacturer's name or trade mark, Coats Besse Mersey Crockett

The above is a correct description.  
 Surveyor's Signature, W. McMillan Surveyor to Lloyd's Register of British and Foreign Shipping.

IRON 465-0110



158329

How in Zord  
ale Irons &c and further explain by a

[illegible]

Auto

and  
Standing

The Wi

## Engine

~~What are~~

~~Coal B~~

case of shipping a sea?

Four Scaps

Two

Cargo 1

State size

If of ext

What ar

Order for \$

Date Sept 20/75

Order for C

Date \_\_\_\_\_ ✓

No. 19

Genera

Wash

Fr

Cross

Ther

~~State of~~

How an

I am of

The am

Special ... ..£55:15: *July 5<sup>th</sup>* 187

\* Certificate ... *Grants: He delivered*

(Travelling)

Com. 1

Shar



A B C D

© 2019 Lloyd's Register Foundation