

IRON SHIPS.

No. 3547 Survey held at Dundee Date 4th September
 on the Screw Steamer Libra Master Wilson
 Tonnage under tonnage deck 830. 93 Built at Dundee When built 1869 Launched 10-7-69
 Ditto of quarter deck 199. 17 By whom built Gosney Brothers & Co Owners General Steam Nav Co
 Ditto of poop, forecastle, or other erections on upper deck all 366. 54 Port belonged to London Destined Voyage Building & afloat
 Ditto of engine room all 366. 54 If Surveyed while Building, Afloat, or in Dry Dock Building & afloat
 Gross tonnage 1030. 1
 Net tonnage 46. 9
 Total Register tonnage 616. 62

Length aloft 249 Feet. Inches. 1 Extreme Breadth 30 Feet. Inches. 1 1/4 Depth from top of Upper Deck Beam to top of Floor 16 Feet. Inches. 10 Power of Engines 250 HP No. of Decks 3

(Dimensions of Ship per Register, length 250 breadth 30.15 depth 16.65)

	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 1/4 x 3 3/4	8 x 3						
" if plate iron, breadth and thickness	7 1/4 x 3 3/4	7 1/2 x 3						
Stem, if bar iron, moulding and thickness	7 1/4 x 3 3/4	7 1/2 x 3						
" if plate iron, breadth and thickness	7 1/4 x 3 3/4	7 1/2 x 3						
Stern-post, if bar iron, moulding and thickness	7 1/4 x 3 3/4	7 1/2 x 6						
" if plate iron, breadth and thickness	7 1/4 x 3 3/4	7 1/2 x 6						
Distance of Frames from moulding edge to moulding edge, all fore and aft	23"	23						
Frames, Size of Angle Iron, single or double	4 1/2 x 3"	4 1/2 x 3"						
" Reversed Iron, if to every frame or every frame	3 x 3"	3 x 3"						
Floors, depth and thickness of Floor Plate at mid line	19 1/2	19 1/2						
" Ditto ditto at Bilge Keelson	9 1/2	9 1/2						
" Size of Reversed Angle Iron, and No. on at top of Floor Plate	3 x 3"	3 x 3"						
Beams, Deck (No. 51) double Angle Iron, Plate, Tee, or Bulb Iron	7 1/2	7 1/2						
" double or single Angle Iron, on Top edge	3 x 2 1/2	3 x 2 1/2						
" average space between	3.10	3.10						
Hold, or Lower Deck (No. 32) double Angle, Tee, Plate, or Bulb Iron	7 1/2	7 1/2						
" double or single Angle Iron, on Top edge	3 x 2 1/2	3 x 2 1/2						
" average space between	3.10	3.10						
Paddle, sided and moulded, thickness of Plate size of Angle Iron	8 alternately	8 alternately						
Keelson, single or double plate, box, or intercostal	24	24						
" Size of Plates	5 1/2	5 1/2						
" Size of Angle Irons	4 1/2	4 1/2						
" Side, single or double, plate, box, or intercostal	7 1/2	7 1/2						
" Bilge (No. 01) at each Bilge, double AT 5 x 4 1/2	5	5						
" single, or double, plate, or box Bulb	7 1/2	7 1/2						
Transoms, material or, if none, in what manner compensated for.								
Knight-heads, and Hawse Timbers								

The Frames extend in one length from Center line to Gun Stairs rivetted through plates with (3 1/4 in.) rivets, about (6") apart.

The double Floor AT cross center line in one length from Bilge to Bilge rivetted in section.

The reverse angle irons on the floors extend in one length from Center line to a few inches above Hold B's Stairs on every other, on the frame, and from Center line to Deck Stringer on the only intermediate.

Keelson, how are the various lengths of plates or angle irons connected? double AT at each end intercostal plates rivetted to floor plates

Plates, Garboard, double keel rivetted to keel, double chain at upper edge, with rivets (13/16 in.) diameter, averaging (3 3/4 in.) apart.

" Edges from Garboards to upper part of bilge, worked clench, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 3/4 in.) apart.

" Butts from Keel to turn of bilge, worked carvel with butt straps (equal plates) thick, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 1/2 in.) apart.

" Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clench, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 3/4 in.) apart. C & C

" Edges of Sheerstrake, double or single rivetted? At upper edge Single to Stringer A & B At lower edge Double Chain

Butts from bilge to planksheers, worked carvel with butt straps (equal plates) thick, double chain rivetted; with rivets (13/16 in.) diameter, averaging (3 1/2 in.) apart. Breadth of laps in double rivetting (4 1/2") Breadth of laps in single rivetting ()

" Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? Double rivetted

Planksheer, how secured to the plating of the sides Waterway fastened this stringer plate with screws

" way " planksheer and to the Beams mounted with nuts and bolts also horizontally

Beams, how secured to the side? turned Bracket ends on Beams 18 1/2 inches deep having 5 rivets thro rib also

" or Lower Deck ditto turned Bracket ends 18 1/2 inches deep 5 rivets thro ribs also stringer plate rivetted to Beams & ribs

" No. of breasthooks 5 for crutches 3 aft

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

Manufacturer's name or trade mark Platy = Fox Head & C. Best & Palmers & Co Angle Iron Libra

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

Surveyor's Signature Gosney Brothers & Co Surveyor's Signature Thomas Alexander

7314 Iron

manSHIP. Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivets in double

wetted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? Yes

the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? Yes close

the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Solid

the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Conform well and are the rivet holes

well and sufficiently countersunk in the outer plate? well countersunk

there any rivets which either break into or have been put through the seams or butts of the plating? in a few cases at Butts

ter Masts, Bowsprit, Yards, &c., are in Good condition, and sufficient in size and length. (If they are of Iron or Steel give the

Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing

the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.

San Main Mast 2 ex 70' above floor 17" 8" 3/8" 5/16 plates 2 legs Caps Butts

Fore Mast - 70' - 17" 8" 3/8" 5/16 plates 2 legs Caps Butts

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