

\* Original class A 1  
**IRON SHIP.**

No. *3708* Survey held at *Middlesbrough* Date, First Survey *9th Nov* Last Survey *13th Apr 1888*  
On the *Screw Steamer "Clutha"* 3 Mast Sloop Rig



Official Number	TONNAGE under Tonnage Deck	SPAR, OR AWNING DECKED VESSEL
	Ditto of Third, Spar, or Awning Deck	Half Breadth (moulded) ... .. 13.66
	Ditto of Poop, or Raised Qr. Dk.	Depth from upper part of Keel to top of Upper Deck Beams 16.66
	Ditto of Houses on Deck	Girth of Half Midship Frame (as per Rule) ... .. 26.5
	Ditto of Forecastle	1st Number ... .. 56.82
	Gross Tonnage	1st Number, if a 3 Deeked Vessel deduct 7 foot
	Less Crew Space	Length ... .. 188.33
	Less Engine Room	2nd Number ... .. 10.709
	Register Tonnage as out on Beams	Proportions - Breadths to Length ... .. 6.85
		Depths to Length - Upper Deck to Keel ... .. 11.3
	Main Deck ditto ... ..	

Master  
Built at *Glasgow*  
When built *1864* Launched  
By whom built *Barclay Curle & Co*  
Owners *E. W. Herberts*  
Residence  
Port belonging to  
Destined Voyage  
If Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on deck as per Rule ...	BREADTH - Moulded ...		DEPTH top of Floors to Upper Deck Beams ...		Power of Engines ...	Horse.	No. of Decks with flat laid One No. of Tiers of Beams Two				
	Feet.	Inches.	Feet.	Inches.			Inches.	16ths.	Inches.	16ths.	
Dimensions of Ship per Register, length,	breadth,		depth,		Depth Moulded 16ft 0 1/2						
KEEL, depth and thickness ...	7 1/2	2 1/2	7 1/2	2 1/4	Flat Keel Plates, breadth and thickness ...						
STEM, moulding and thickness ...	7 1/2	2 1/2	7 1/2	2 1/4	PLATES in Garboard Strakes, br'dth & thickness 36 10 32 9						
STERN-POST for Rudder do. do. ...	7 1/4	5	7 1/4	4 1/2	" From Garboard to upper part of Bilges ... 9 8						
" " for Propeller ...	7 1/4	5	7 1/4	4 1/2	" Of d'bling at Bilge, or increased thickness, and length applied 4 Strakes 1/16						
Distance of Frames from moulding edge to moulding edge, all fore and aft ...	18	21	22		" From up. prt of Bilge to lr. edge of Sh'rstrake ... 8 8						
Double frames under Engines & Floors 28" deep	4	4	3 1/2	3	" Main Sheerstrake, breadth and thickness ... 36 9 33 10						
FRAMES, Angle Iron, for 2/3 length amidships	4	3	3 1/2	3	" Of d'bling at Sh'stk. & lng. applied 145 ft ... 7 1/16						
Do. for 1/2 at each end ...	3	3	3	2 1/2	" From M'n. to Upr. or Spar Dk. Sh'rstrake ... 3/4 length						
REVERSED FRAMES, Angle Iron ...	18	8	16	7	Up. or Spar Dk Sh'rstrake, br'dth & thickn's ...						
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships ...	10	7	8	6	Butt Straps to outside plating, breadth & thickness 8 1/2 9 8 9 10 9 3/4 8 9 11						
" thickness at the ends of vessel ...	10	7	8	6	Lengths of Plating 5 + 6 frames spars 5 spars						
" depth at 3/4 the half-bdth. as per Rule ...	36	32	32	6	Shifts of Plating, and Stringers 1 + 2 spars 2 spars						
" height extended at the Bilges ...	7 1/2	8	6 1/2	6	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness ... 27 1/2 9 40 8						
BEAMS, Upper, Spar, or Awning Deck	2 1/2	2 1/2	6	2 1/2	Angle Iron on ditto ... 4 x 3 1/2 x 8 4 1/2 x 3 x 7						
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	2 1/2	2 1/2	6	2 1/2	Tie Plates fore and aft, outside Hatchways 10 8 9 7						
Single or double Angle Iron on Upper edge	2 1/2	2 1/2	6	2 1/2	Diagonal Tie Plates on Beams No. of Pairs 1 before + 1 aft on both						
Average space. <i>As alternat. frames</i>	44		44		Flat of Up., Spar, or Awning Dk. * in Wood + 3-3 1/2 5-6 3-3 1/2						
BEAMS, Main, or Middle Deck					How fastened to Beams <i>Revised. See bolts.</i>						
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron					Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness ...						
Single, or double Angle Iron, on Upper Edge					Is the Stringer Plate attached to the outside plating?						
Average space. ...					Angle Irons on ditto, No. ...						
BEAMS, Lower Deck					Tie Plates, outside Hatchways ...						
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron					Diagonal Tie Plates on Beams, No. of pairs ...						
Single or double Angle Iron on Upper Edge					Flat of Middle Deck * do. do. ...						
Average space. ...					How fastened to Beams ...						
BEAMS, Hold, or Orlop	7 1/2	8	7 1/2	7	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ... 20 1/2 7 23 7						
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	2 1/2	2 1/2	6	3	Is the Stringer Plate attached to the outside plating? No						
Single or double Angle Iron on Upper Edge	2 1/2	2 1/2	6	3	Angle Irons on ditto, No. 1 ... 4 x 4 x 8 3 1/2 x 3 1/2 x 7						
Average space. <i>As per Profile</i>					Stringer or Tie Plates, outside Hatchways ...						
KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates <i>4x4x8</i>					Flat of Lower Deck *						
" Rider Plate <i>4x4x8</i>					Ceiling betwixt Decks, thickness and material ...						
" Bulb Plate to Intercoastal Keelson ...	7 1/2	8	7 1/2	7	" in hold do. do. ...						
" Angle Irons ...	4	4	4 1/2	3	Main piece of Rudder, diameter at head ... 4 3/4 5 1/8						
" Double Angle Iron Side Keelson ...	4	4	4 1/2	3	do. at heel ... 2 1/4 2 1/2						
" Side Intercoastal Plate <i>Built</i>	7 1/2	8			Can the Rudder be unshipped afloat? Yes						
" do. Angle Irons ...					Bulkheads No. 5 - No. per Rule 4						
" Attached to outside plating with angle iron					" Thickness of 5/16 <i>Rule 5/16</i>						
BILGE Angle Irons ...	4	4	4 1/2	3	" Height up <i>all to top of Keel except aft on to Hold</i>						
" do. Bulb Iron ...					" Beam stringer when there is a Waterlight flat ...						
" do. Intercoastal plates riveted to plating for length					" How secured to sides of ship <i>Between double frames except me.</i>						
BILGE STRINGER Angle Irons ...					" Size of Vertical Angle Irons 3 x 3 x 6 and distance apart 30 ins.						
Intercoastal plates riveted to plating for length					" Are the outside Plates doubled two spaces of Frames in length? Yes						
SIDE STRINGER Angle Irons ...					" <i>except me.</i>						

The FRAMES extend in one length from *Keel* to *Gunwale* Riveted through plates with 3/4 in. Rivets, about 6" apart.  
The REVERSED ANGLE IRONS on floors and frames extend *from* middle line to *Hold Beam stringer* and to *Gunwale* alternately  
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 in. diameter, averaging 5 ins. from centre to centre.  
" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 3/4 in. diameter, averaging 3 ins. from centre to centre.  
" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 3 ins. from centre to centre.  
" Butts of Strakes at Bilge for length, treble riveted with Butt Straps thicker than the plates they connect.  
" Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 3/4 in. diameter, averaging 3 ins. from cr. to cr.  
" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 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 whole length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships.  
" Butts of Main Stringer Plate, treble riveted for whole length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for length.  
" Breadth of laps of plating in double riveting 4 1/2 Breadth of laps of plating in single riveting 2 1/4  
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? No. of Breasthooks, 4 Crutches, 4  
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Clifton + Crossed 6 as per 1st London Report 1.*  
Manufacturer's name or trade mark, *1st London Report 1.*  
The above is a correct description.  
Builder's Signature, \_\_\_\_\_ Surveyor's Signature, *W. Davidson*  
Surveyor to Lloyd's Register of British and Foreign Shipping.

State clearly where plating is of alternate thicknesses - as distinguished from diminished thickness at ends of vessel. \* In Iron Deck, state if whole or part, and if wood deck to be laid thereon.

Form No. 1 for Iron Ships - 2000 - 16 5 85 - (Transfer Ink.)

