

# STEEL SHIP.

(Received at London Office, 10th June 1890)

Date of writing Report *7th June 1890* Port of *Belfast*  
 Date, First Survey *18th Feb'y 89* Last Survey *25 March 1890*

No. *3714* Survey held at *Belfast*  
 On the *Steel Screw Steamer City of Vienna*  
 TONNAGE under Tonnage Deck *2993.43*  
 Do. between Tonnage Dk. and 3rd, 4th, Spar or Avoing Dk. *1203.57*  
 Total under Upper Dk. *4197.40*  
 of Poop *99.47*  
 of Raised Gr. or Break }  
 Bridge House *261.71*  
 Houses on Deck *93.59*  
 excess of Hatchways *20.27*  
 Forecastle *4672.04*  
 Tonnage *143.66*  
 new Space *4528.38*  
 Engine Room *1520.69*  
 or Tonnage *3007.69*  
 at on Beam

Rig *Barquentine*  
 Master *D. Anderson*  
 Year of appointment *1864*  
 (1) As master in service of owner of present vessel:—18 *64*  
 (2) As master of this vessel:—18 *90*

Built at *Belfast*  
 When built *1890* Launched *7th Dec. 89*  
 By whom built *Workman, Clark & Co.*  
 Owners *George Smith*  
 Managers *George Smith & Sons.*  
 (If desired to be entered in Reg. Book.)  
 Residence *Glasgow*  
 Port belonging to *Glasgow*  
 Destined Voyage *Bombay*  
 If Surveyed while Building, Afloat, or in Dry Dock.  
*Specially during construction*

Length *410.2* Feet. Inches. Breadth *46.3* Feet. Inches. DEPTH top of Floors to Upper Deck Beams *29.73* Feet. Inches. Power of Engines *700* Horse. No. of Decks with flat laid *3*  
 No. of Tiers of Beams *3*  
 Dimensions of Ship per Register, length, *412.3* breadth, *46.7* depth, *29.7*

	Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	11x33	11x33	PLATES in Garboard Strakes, br'dth & thickness	39	15 1/4	3.6	15 1/4	15 1/4
STEM, moulding and thickness	11x33	11x33	From Garboard to upper part of Bilges	12 1/4	14	13 1/4	13 1/4	13 1/4
STERN-POST for Rudder do. do.	11x7 1/2	11x7 1/2	Of d'bling at Bilge, or increased thickness, and length applied	2 Strakes doubled for 3/4 L.	2 Strakes doubled for 3/4 L.	2 Strakes doubled for 3/4 L.	2 Strakes doubled for 3/4 L.	2 Strakes doubled for 3/4 L.
" " for Propeller	11x7 1/2	11x7 1/2	From up. prt of Bilge to l. edge of Sh'rstrake	13 1/4	14	13 1/4	13 1/4	13 1/4
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	24	Sheerstrake, breadth and thickness	40	18 1/2	4.0	18 1/2	18 1/2
FRAMES, Angles <i>10x10</i> , for 2/3 length amidships	5 1/2	3 1/2	Of d'bling at Sh'stk. & lng. applied	15 1/2	15 1/2	15 1/2	15 1/2	15 1/2
Do. for 1/3 at each end	4	3 1/2	From M'n. to Up. or Spar Dk. Sh'rstrake	19 1/2	17 1/2	19 1/2	17 1/2	19 1/2
REVERSED FRAMES, Angles <i>10x10</i>	4	3 1/2	Up. or Spar Dk Sh'rstrake, br'dth & thicken'ss	19 1/2	17 1/2	19 1/2	17 1/2	19 1/2
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	28 1/2	11	Butt Straps to outside plating, breadth & thickness	10	10	10	10	10
thickness at the ends of vessel	14	14	Lengths of Plating	493	493	493	493	493
depth at 3/4 the half-bdth. as per Rule	56	56	Shifts of Plating, and Stringers	57	14 1/2	5.7	14 1/2	14 1/2
height extended at the Bilges	56	56	Gunwale Plate on ends of <i>Upper Deck Beams</i> , breadth and thickness	47	11	4.7	11	11
BEAMS, Upper, <i>Spar or Awning Dk.</i>	10	10	Angle <i>10x10</i> on ditto	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
Angle or d'ble Ang. Iron, Plate or Tee Bulbs	3 1/2	3 1/2	Tie Plates fore and aft, outside Hatchways	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
double Angles <i>10x10</i> on Upper edge	48	48	Diagonal Tie Plates on Beams No. of Pairs	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
Average space	48	48	Flat of Up., <i>Spar or Awning Dk.</i> <i>Wood (Oak)</i>	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
BEAMS, <i>Middle Deck</i>	10	10	How fastened to Beams	57	11	5.7	11	11
Angle or d'ble Ang. Iron, Plate or Tee Bulbs	3 1/2	3 1/2	Stringer Plate on ends of <i>Middle Deck</i>	57	11	5.7	11	11
double Angles <i>10x10</i> on Upper Edge	48	48	Beams, breadth and thickness	57	11	5.7	11	11
Average space	48	48	Is the Stringer Plate attached to the outside plating?	Yes	Yes	Yes	Yes	Yes
BEAMS, <i>Lower Deck</i>	10	10	Angle <i>10x10</i> on ditto, No. <i>2</i>	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
Angle or d'ble Ang. Iron, Plate or Tee Bulbs	3 1/2	3 1/2	Tie Plates, outside Hatchways	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
double Angles <i>10x10</i> on Upper Edge	48	48	Diagonal Tie Plates on Beams, No. of pairs	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
Average space	48	48	Flat of Middle Deck* do. do. <i>Wood (R.P.)</i>	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
BEAMS, <i>Hold, or Orlop</i>	10	10	How fastened to Beams	52	11 1/2	5.2	11 1/2	11 1/2
Angle or d'ble Ang. Iron, Plate or Tee Bulbs	3 1/2	3 1/2	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	41	10	4.1	10	10
double Angles <i>10x10</i> on Upper Edge	48	48	Is the Stringer Plate attached to the outside plating?	Yes	Yes	Yes	Yes	Yes
Average space	48	48	Angle <i>10x10</i> on ditto, No. <i>2</i>	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
KEELSONS Centre line, single or double plate, <i>10x10</i>	26 1/4	16	Tie Plates, outside Hatchways	47 1/4	9 5/8	4.7 1/4	9 5/8	9 5/8
double Angles <i>10x10</i>	14	16	Diagonal Tie Plates on Beams, No. of pairs	21	9 5/8	2.1	9 5/8	9 5/8
Rider Plate <i>for 3/4 L.</i>	14	16	Flat of Lower Deck*	3	12 1/2	3	12 1/2	12 1/2
Bulb Plate to Intercoastal Keelson	6 1/2	4 1/2	Ceiling betwixt Decks, thickness and material	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4
Angles <i>10x10</i>	6 1/2	4 1/2	" in hold do. do.	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4
4 Double Angles <i>10x10</i> Side Keelson	16 1/2	16 1/2	Main piece of Rudder, diameter at head	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
Side Intercoastal Plate	3 1/2	3 1/2	do. at heel	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
do. Angles <i>10x10</i>	3 1/2	3 1/2	Can the Rudder be unshipped afloat?	Yes	Yes	Yes	Yes	Yes
Attached to outside plating with angle	3 1/2	3 1/2	Bulkheads No. <i>Seven</i> No. per Rule <i>Six</i>	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
BILGE Angle <i>10x10</i>	6 1/2	4 1/2	Thickness of <i>4 1/2</i>	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
do. Bulb <i>10x10</i>	16 1/2	16 1/2	Height up <i>Six to upper and one to middle deck</i>	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2
do. Intercoastal plates riveted to plating for <i>3</i> length	9 5/8	9 5/8	How secured to sides of ship <i>Between two frames</i>	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
BILGE STRINGER Angles <i>10x10</i>	6 1/2	4 1/2	Size of Vertical Angle <i>5 1/2 x 3 1/2</i> and distance apart <i>30 V. ins.</i>	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Intercoastal plates riveted to plating for <i>3</i> length	9 5/8	9 5/8	Are the outside Plates doubled two spaces of Frames in length?	Yes	Yes	Yes	Yes	Yes
WIDE STRINGER Angles <i>10x10</i>	6 1/2	4 1/2						
The FRAMES extend in one length from <i>Middle line</i> to <i>Upper deck</i>								
The REVERSED ANGLE <i>10x10</i> on floors and frames extend <i>from middle line to upper deck for 1/2 L. &amp; abaft, forward and at other parts alternately</i>								
KEELSONS. Are the various lengths of Plates and Angle <i>10x10</i> properly connected?	Yes	Yes	And butts properly shifted?	Yes	Yes	Yes	Yes	Yes
PLATING. Garboard, double riveted to Keel, with rivets <i>1 1/4</i> in. diameter, averaging <i>6 1/2</i> ins. from centre to centre.								
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets <i>1 1/4</i> in. diameter, averaging <i>4</i> ins. from centre to centre.								
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets <i>1 1/4</i> in. diameter averaging <i>3 1/2 x 3 1/2</i> ins. from centre to centre.								
Butts of <i>2</i> Strakes at Bilge for <i>3</i> length, <i>doubled and double</i> riveted with Butt Straps								
Edges from Bilge to Main Sheerstrake, worked clencher, <i>double</i> riveted; with rivets <i>1 1/4</i> in. diameter, averaging <i>4</i> ins. from cr. to cr.								
Butts from Bilge to Main Sheerstrake, worked carvel, <i>double</i> riveted; with rivets <i>1 1/4</i> in. diameter, averaging <i>3 1/2 x 3 1/2</i> ins. from cr. to cr.								
Edges of <i>Main</i> Sheerstrake, double <i>single</i> riveted.								
Butts of <i>Main</i> Sheerstrake, treble riveted for <i>whole</i> length amidships.								
Butts of <i>Main</i> Stringer Plate, treble riveted for <i>whole</i> length amidships.								
Breadth of laps of plating in double riveting <i>6</i>								
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?	<i>Treble &amp; double</i>							
No. of Breasthooks, <i>Six</i>								
Crutches, <i>30</i>								
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.?	<i>Best ship Steels</i>							
Manufacturer's name or trade mark, <i>James R. James &amp; Co., Mossend; Beams, Halls &amp; Co., Mossend; Keelsons, Halls &amp; Co., Mossend; Stringers, Halls &amp; Co., Mossend; Plates, Halls &amp; Co., Mossend; Outside Plating, Halls &amp; Co., Mossend</i>								
The above is a correct description								
Builder's Signature, <i>James R. James</i>								
Surveyor's Signature, <i>James R. James</i>								
Surveyor to Lloyd's Register of British and Foreign Shipping.								

State clearly where plating is of alternate thicknesses—as distinguished from distributed thickness at ends of vessel.

\* If Iron Deck, state if whole or part, and if wood deck is laid thereon.



