

Sailing Vessel. ~~IRON~~ OR STEEL SAILING SHIP.

(Received at London Office

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Date of completion of Report 4<sup>th</sup> December 1891. Port of *Greenock*No. *10406* Survey held at *Port Glasgow* Date of First Survey *5<sup>th</sup> May 1891* Last Survey *4<sup>th</sup> Dec 1891*On the *"Vildanden"*Rig *Three masted ship*

1891

TONNAGE under Tonnage Deck. *1475.06*

TWO DECKED VESSEL.

Master *Christian Bruusgaard*Do. of Poop *68.42*CLASS *100 M.A. (Steel)*Year of Appointment *1891*Do. of mainmast *2.93*Half Breadth (moulded) *18.99*Built at *Port Glasgow*Do. of Bridge House *3.24*Depth from upper part of Keel to top of Upper Deck Beams *23.75*When built *1891* Launched *29<sup>th</sup> Dec 1891*Do. of Houses on Deck *40.85*Girth of Half Midship Frame (as per Rule) *38.40*By whom built *Messrs Russell & Co*

Do. of masts of Hatchways

1st Number *81.14*Owners *Bruusgaard, Yostkrud & Co*Do. of Forecastle *Wings 14.68*Length *238.5*

Managers

Gross Tonnage *1607.18*2nd Number *19351.89*Residence *Drammen*Less Crew Space *71.92*Proportions—Breadths to Length *6.28*Port belonging to *Drammen*TONNAGE FOR FEES *1535.26*Depths to Length—Upper Deck to top of Keel *10.04*Destined Voyage *San Francisco*Less Navigation spaces *40.03*

Surveyed while Building, Afloat, or in Dry Dock

Register Tonnage *1495.23*

LENGTH on deck	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH	Feet.	Inches.	No. of Decks with Flat laid
as per rule	238	6	Moulded	38	0	Top of Floors to Upper Deck Beams	21	9	One

Dimensions of Ship per Register, Length *249.5* breadth *38.2* depth *21.55*. Moulded depth, ft. *22* in. *10 1/2*. Round up of Beam *11* ins.

## FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule.
KEEL, Bar or Side Plates, depth and thickness	<i>9 1/2 x 2 1/2</i>	<i>9 1/2 x 2 1/2</i>
STEM, moulding and thickness	<i>9 1/2 x 2 1/2</i>	<i>9 x 2 1/2</i>
STERN-POST, do. do.	<i>9 x 2 1/2</i>	<i>9 x 2 1/2</i>
MAIN-PIECE OF RUDDER, diameter at head	<i>6 1/2</i>	<i>6 1/2</i>
RUDDER, how constructed	<i>Iron frame forging Plated</i>	
Can the Rudder be unshipped afloat?	<i>Yes</i>	

## FRAMING.

	Inches in Ship.	Inches per Rule.
FRAME, Angles, or L Bars, for 1/2 length amidships	<i>5 3 1/2 8 1/2 3 1/2 8</i>	
Do. for 1/2 at each end	<i>4 1/2 7 1/2 4 1/2 7</i>	
Distance of Frames from moulding edge to moulding edge, all fore and aft	<i>24</i>	<i>24</i>
REVERSED FRAME, Angles	<i>3 1/2 3 1/2 8 3 1/2 3 1/2 8</i>	
FLOORS, depth and thickness of Floor Plate at mid line for 1/2 length amidships	<i>24 1/2 10</i>	<i>24 1/2 10</i>
" thickness at the ends of vessel	<i>8</i>	<i>8</i>
" depth at 1/2 the half breadth, as per Rule	<i>12 1/2</i>	<i>12 1/2</i>
" height extended at the Bilges	<i>49</i>	<i>49</i>
FLOORS & BRACKETS, in Cell Dble Bottoms distance apart		
CENTRE GIRDER, in Dbl. Btm., dpth & thcknss		
" Angles, Top Bottom		
SIDE GIRDERS, number and thickness		
" Angles		
MARGIN PLATE, depth (exclusive of flange) and thickness		
" Angles		
INNER BOTTOM PLATING, br'dth & thckn's of Middle Line Strake		
" Remainder		
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate on Tee Bulb	<i>9 - 9 1/2 9 - 9</i>	
" Angles on Upper Edge	<i>3 1/2 3 1/2 4 3 1/2 3 1/2 4</i>	
" Average space	<i>48</i>	<i>48</i>
BEAMS, Lower Deck, Plate on Tee Bulb	<i>9 - 9 1/2 9 - 9</i>	
" Angles on Upper Edge	<i>3 1/2 3 1/2 4 3 1/2 3 1/2 4</i>	
" Average space	<i>48</i>	<i>48</i>
BEAMS, Hold, Plate on Tee Bulb		
" Angles on Upper Edge		
" Average space		
BEAMS, Poop or Bridge Deck, Single Angle, Bulb Angle, Plate on Tee Bulb	<i>6 1/2 4 9 6 1/2 4 9</i>	
" Angles on Upper Edge	<i>3 1/2 3 1/2 4 3 1/2 3 1/2 4</i>	
" Average space	<i>48</i>	<i>48</i>
BEAMS, Forecastle Deck, Single Angle, Bulb Angle, Plate on Tee Bulb	<i>4 - 4 1/2 4 - 4</i>	
" Angles on Upper Edge	<i>3 3 6 3 3 6</i>	
" Average space	<i>48</i>	<i>48</i>
PILLARS, in 'tween Decks, at Centre line. Size	<i>2 1/2</i>	<i>2 1/2</i>
" Spacing	<i>48</i>	<i>48</i>
" In Holds, at Centre line. Size	<i>3 1/2</i>	<i>3 1/2</i>
" Spacing	<i>48</i>	<i>48</i>
WEB-FRAMES, Breadth and thickness		
" Number and Spacing		
Number of Side Stringers, breadth and thickness		
Size of Angles or Tee Bars to Web-Frames		

## KEELSONS AND STRINGERS.

	Inches in Ship.	Inches per Rule.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate or Intercoastal Plate	<i>18 - 13 - 18 - 13</i>	
" Rider Plate	<i>11 1/4 - 13 - 11 1/4 - 13</i>	
" Bulb Plate to Intercoastal Keelson		
" Horizontal Plates above floors	<i>5 1/2 4 9 5 1/2 4 9</i>	
" Angles	<i>5 1/2 4 9 5 1/2 4 9</i>	
SIDE KEELSON, Angles	<i>5 1/2 4 9 5 1/2 4 9</i>	
" Bulb Plate for length		
" Intercoastal Plate for length	<i>8 - 8 - 8 - 8</i>	
" Attached to outside Plating with Angle	<i>3 3 7 3 3 7</i>	
BILGE KEELSON, Angle	<i>5 1/2 4 9 5 1/2 4 9</i>	
" Bulb Plate for length		
" Intercoastal Plates for len.		
" Attached to outside Plating with Angle	<i>5 1/2 4 9 5 1/2 4 9</i>	
BILGE STRINGER, Angles	<i>5 1/2 4 9 5 1/2 4 9</i>	
" Bulb Plate for length		
" Intercoastal Plates for len.		
" Attached to outside Plating with Angle	<i>5 1/2 4 9 5 1/2 4 9</i>	
SIDE STRINGER, Angles	<i>5 1/2 4 9 5 1/2 4 9</i>	
" Bulb Plate for length		
" Intercoastal Plate for len.		
" Attached to outside Plating with Angle		
Main Deck Stringer Plate, on end of Beams, breadth and thickness	<i>52 10 52 10</i>	
" Angle on ditto	<i>4 1/2 x 4 1/2 9 4 1/2 x 4 1/2 9</i>	
" Tie Plates fore and aft, outside Hatchways	<i>13 10 13 10</i>	
" Diagonal Tie Plates on Bms., No. of Pcs.	<i>13 10 13 10</i>	
" Flat of Deck*, material and thickness	<i>4 1/4 P 4</i>	
" Iron or Steel for length		
" How fastened to Beams	<i>Bolled</i>	
Lower Deck Stringer Plate, on ends of Beams, breadth and thickness	<i>34 9 34 9</i>	
Is the Stringer Plate attached to the Outside Plating?	<i>Yes</i>	
" Angles on ditto, No.	<i>4 x 4 9 4 x 4 9</i>	
" Tie Plates, outside Hatchways	<i>13 9 13 9</i>	
" Diagonal Tie Plates on Bms., No. of pcs.		
" Flat of Deck, material and thickness	<i>2 1/2 H. Plated, platform</i>	
" How fastened to Beams	<i>bolled 3/4" with on each side, all round off</i>	
Hold Stringer Plate, on end of Beams		
Is the Stringer Plate attached to the Outside Plating?		
" Angles on ditto, No.		
" Tie Plate outside Hatchways		
" Flat of Deck, material and thickness		
Poop or Bridge Deck Stringer Plate, breadth and thickness	<i>4 1/2 4 1/2 7 4 1/2 4 1/2 7</i>	
" Angle	<i>3 1/2 x 3 1/2 4 3 1/2 x 3 1/2 4</i>	
" Tie Plates on Beams	<i>10 6 10 6</i>	
" Flat of Deck, material and thickness	<i>3 1/4 P 3</i>	
Forecastle Deck Stringer Plate, b'dth & thckn's	<i>33 7 33 7</i>	
" Angle	<i>3 1/2 x 3 1/2 4 3 1/2 x 3 1/2 4</i>	
" Tie Plates on Beams	<i>10 16 10 16</i>	
" Flat of Deck, material and thickness	<i>3 1/4 P 3</i>	
PLATING.		
FLAT PLATE KEEL, breadth and thickness		
PLATES in Garboard Strakes, br'dth & thckn's from Garboard to lower part of Bilges	<i>40 12 40 12</i>	
" State Thickness of Plating in way of Double Bottom	<i>Ally 11 40 Ally 11 40</i>	
" Bilges, number of Strakes, and thickness	<i>Ally 11 42 Ally 11 42</i>	
" Of doubling at Bilge, or increased thickness, and length applied throughout	<i>3 Strakes increased 1/2"</i>	
" from up. part of Bilge to l.r. edge of Sh'rstrake	<i>Ally 11 40 Ally 11 40</i>	
" Strake in way of Lower Deck Beams	<i>54 10 54 10</i>	
" Sheerstrake, breadth and thickness	<i>46 13 46 13</i>	
" Poop or Bridge Sides	<i>4 1/2 4 1/2</i>	
" Forecastle Sides	<i>4 1/2 4 1/2</i>	
Lengths of Plating	<i>See spaces</i>	



Form 13. Hull and Deck. BULKHEADS. No. in Vessel. One. Reqd. by Rule. One. Ceiling betwixt Decks, thickness and material. 2 1/2 in. W.T. BULHEADS. 20 20. Vrt. 5 1/2 x 8 30. Hrzt. 1 1/2 x 1 1/2 48. Upper Deck. Double. Number of Breasthooks 6 and deep floors. Crutches 5 and deep floors. Are the outside Plates doubled two spaces of Frames in length? Yes. The FRAMES extend in one length from middle line to gunwale. Riveted through Plates with 1/8 in. Rivets, about 6 in. apart. The REVERSED ANGLES on floors and frames extend from middle line to gunwale and to fore and aft alternately. RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c. Garboard, double riveted to Bar Keel or Flat Plate, with rivets 1 1/2 in. diameter, averaging 5 1/2 in. from centre to centre. Edges of Garboards and to upper part of Bilge, worked clench, double riveted; with rivets 1 1/2 in. diameter, averaging 5 1/2 in. from centre to centre. Butts from Keel to turn of Bilge, worked clench, double riveted; with rivets 1 1/2 in. diameter, averaging 5 1/2 in. from centre to centre. Butts of all Strakes at Bilge for 3/4 length, treble riveted with Butt Straps 3 in. thicker than the plates they connect, or lapped, double riveted. Edges from Bilge to Sheerstrake, worked clench, double riveted; with rivets 1 1/2 in. diameter, averaging 5 1/2 in. from centre to centre. Butts from Bilge to Sheerstrake, worked clench, double riveted; with rivets 1 1/2 in. diameter, averaging 5 1/2 in. from centre to centre. Edges of Sheerstrake, double riveted. Butts of Sheerstrake, treble riveted for half length amidships. Butts of Main Stringer Plate, treble riveted for half length amidships. Butts of Lower Bottom Plating, treble riveted for half length amidships. Butts of Centre Girder, treble riveted for half length amidships. Breadth of edge laps of Shell Plating in double riveting 5 1/2 in. Breadth of edge laps of Shell Plating in single riveting 5 in. Butt Straps of Shell Plating, breadth and thickness 1 1/2 in. x 1/4 in. Butts, if lapped, breadth of Laps 9 in. Butt Straps of Keelsons, Stringer and Tie Plates, treble or double riveted? Double and treble. Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c. M. & L. Steel - Halliday & Co. Ltd. Glasgow. Workmanship. Are the butts of plating planed or otherwise fitted? Yes. Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes. Are the rivets break into or through the seams or butts of the plating? No. Are the butts of Plating, Stringers, &c., properly shifted and strapped or lapped? Yes. MASTS AND SPARS. Material. Total length. DIAMETER AND THICKNESS. Number of Plates in Round. ANKLES. RIVETING. LOWER MASTS. Fore. Main. Mizzen. BOWSPRIT. Fore. Main. Mizzen. TOPMASTS. Fore. Main. Mizzen. YARDS. Fore. Main. Mizzen. FORE TOPMAST YARDS. Upper. Lower. MAIN. Upper. Lower. MIZEN. Upper. Lower. Remainder of Spars. All of wood. RIGGING. Material and Size, Shrouds. Stays. Sails. Equipment No. 20642. LETTER. ANCHORS. CHAIN CABLES. HAWSERS AND WARPS. PUMPS. Windlass. Number of Scuppers. Cargo Hatchways. State size No. 1 Hatch. Number of Web Plates. BULKHEADS. Height above deck and description. Main Rail, material and size. Builder's Signature. Surveyor's Signature.

Form 14. General Remarks. Order for Special Survey No. 1342. Date 18th Jan. 1891. Order for Ordinary Survey No. 1342. Date 18th Jan. 1891. No. 280 in builder's yard. State dates and initials of letters respecting this case. M. & L. Steel; 16 Jan. 1891; 18 Jan. 1891; 18 Jan. 1891. General Remarks (State quality of workmanship, &c.). The workmanship is good, and the vessel has been constructed in accordance with the approved plans (in No.) which together with the forgings certificate and the certificate of tests of wire rigging are attached hereto. This is a similar vessel to the "Hordysel", "Skjold", and "Grana". See log reports 10133, 10149 & 10184. PARTICULARS FOR RECORD IN THE REGISTER BOOK. Length of Poop 32-0 ft., R.Q.D. or Break. ft., Bridge Dk. ft., Forecastle 32-0 ft. (in feet and tenths). No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book). One deck, two tiers of Beams. Official No. Signal Letters. PARTICULARS OF WATER BALLAST. Double bottom, aft, length. and water capacity in tons. Double bottom, amidships, length. and water capacity in tons. Double bottom, forward, length. and water capacity in tons. Double bottom, constructed on the cellular system, length. and water capacity in tons. Fore peak tank, water capacity in tons. After peak tank, water capacity in tons. Midship deep tank, length. and water capacity in tons. Other tanks, if fitted, length. and water capacity in tons. The above have been tested as required by the Rules. (If necessary, furnish further information by sketch.) How are the surfaces preserved from oxidation? Inside Portland Cement Paint. Outside Paint. FREEBOARD assigned by the Committee, as per Secretary's Letter, dated 20th Nov. 1891. 4 ft. 5 1/2 in. In Salt Water. 4 ft. 1 in. In Fresh Water. 4 ft. 10 in. In Winter, in North Atlantic. State if marked on Vessel's sides in accordance with Rules. Yes. The amount of Entry Fee £ 4 : - : - is received by me, Special £ 63 : 7 : 6. Certificate £ 100. Travelling Expenses, if any £ nil. I am of opinion this Vessel should be Classed 100 A. 1. Steel. Committee's Minute. Character assigned 100 A. 1. Steel. 100 A. 1. Steel. 100 A. 1. Steel. Surveyor to Lloyd's Register of British & Foreign Shipping.