

Spar,

STEEL STEAMER.

(Received at London Office)

State if Report is also sent on the Machinery of the Vessel *yes*Date of completion of Report *February 9th*Port of *Hamburg*1842 Survey held at *Flensburg*Date, First Survey *August 8th 90*Last Survey *February 7th 1891*the *Steel Steamer Löwenburg*Rig *Schooner*NAGE under
Tonnage Deck...
Do. between Tonnage Dk.
and 3rd, 4th, Spar or
Awning Dk.
Do. under Upper Dk.SPAR, AWNING OR PART AWNING-DECKED VESSEL,
or a Vessel having a continuous Shade Deck.Master *G. A. Gramberg 84-91*

Year of Appointment

(1) As Master in service of
owner of present vessel: *1888*
(2) As Master of this
vessel: *1888*CLASS *100A1*

FEET.

Built at *Flensburg*When built *1890* Launched *9th December 90*By whom built *Flensburger Schiffbau*Owners *Deutsche Dampfschiffahrts*Managers *Gesellschaft "Hansa"*Residence *Bremen*Port belonging to *Bremen*Do. of Poop
Do. of Rais d'Qr.
Do. of Break
Do. of Bridge House
Do. of Houses on Deck
Do. of excess of Hatchways
Do. of Forecastle
Do. above Crown of
Engine Room...
Gross Tonnage *1847.88*
Less Crew Space
Less above Crown of
Engine Room...
TONNAGE FOR FEES...
Less Engine Room
Less Navigation SpacesRegister Tonnage *1286.82*
as cut on Beam...

Destined Voyage

If Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH, top of Floors to Spar or Awn. Dk. Beams	Feet.	Inches.	Power of Engines	Horse.	No. of Decks with flat laid	No. of Tiers of Beams
as per Rule.....	260		Moulded..	37		Do. do.	17	3	270		Two	Two

Dimensions of Ship per Register, Length *259.7* breadth *37* depth *21.6* Spar or Awn. Dk. Moulded depth, ft. *16* ins. *6* To Main Dk. Round up of Beam, Main Dk. *9* ins.

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule, Or as approved.
KEEL, Bar or Side Plates, depth and thickness	<i>8 1/2 x 2 1/2</i>	<i>8 1/2 x 2 1/2</i>
ITEM, moulding and thickness	<i>8 1/2 x 2 1/2</i>	<i>8 1/2 x 2 1/2</i>
TERN POST for Rudder do. do.	<i>8 1/2 x 5</i>	<i>8 1/2 x 5</i>
" " for Propeller	<i>8 1/2 x 5</i>	<i>8 1/2 x 5</i>
MAIN PIECE of Rudder, diameter at head	<i>6 1/2</i>	<i>6 1/2</i>
do. at heel	<i>3 3/4</i>	<i>3 3/4</i>
RUDDER, how constructed	<i>iron</i>	
Can the Rudder be unshipped afloat?	<i>yes</i>	

FRAMING.

	Inches in Ship.	Inches per Rule, Or as approved.
FRAME Angles, or <i>7</i> Bars for $\frac{1}{2}$ length amidships	<i>4 3 7</i>	<i>4 3 7</i>
Do. for $\frac{1}{2}$ at each end	<i>3 3 6</i>	<i>3 3 6</i>
Do. in way of Double Bottoms	<i>23</i>	<i>23</i>
Distance of Frames from moulding edge to moulding edge, all fore and aft	<i>3 3 7</i>	<i>3 3 7</i>
EVERSED FRAME Angles	<i>3 3 7</i>	<i>3 3 7</i>
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships	<i>4 3 7</i>	<i>4 3 7</i>
" in way of Engines and Boilers	<i>3 3 6</i>	<i>3 3 6</i>
" thickness at the ends of vessel	<i>23</i>	<i>23</i>
" depth at $\frac{1}{2}$ the half-bdth. as per Rule	<i>3 3 7</i>	<i>3 3 7</i>
" height extended at the Bilges	<i>4 3 7</i>	<i>4 3 7</i>
FLOORS & BRACKETS, in Cell Dble Bottoms	<i>23</i>	<i>23</i>
CENTRE GIRDER, in Double bottom, depth and thickness	<i>36</i>	<i>36</i>
" Angles, Top	<i>4 4 8.7</i>	<i>4 4 8.7</i>
SIDE GIRDERS, number and thickness. on each side	<i>3 3 7</i>	<i>3 3 7</i>
" Angles	<i>3 3 7</i>	<i>3 3 7</i>
MARGIN PLATE, depth (exclusive of flange) and thickness	<i>23</i>	<i>23</i>
" Angles	<i>3 1/2 3 1/2 8</i>	<i>3 1/2 3 1/2 8</i>
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	<i>60</i>	<i>60</i>
" " thickness in Engine and Boiler space	<i>9</i>	<i>9</i>
" " Remainder in Holds	<i>7.8</i>	<i>7.8</i>
AMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<i>7</i>	<i>7</i>
" Angles on upper edge	<i>3 3 6</i>	<i>3 3 6</i>
Average space	<i>46</i>	<i>46</i>
AMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<i>6 1/2 3 9.8</i>	<i>6 1/2 3 9.8</i>
" Angles on upper edge	<i>6 1/2 3 9.8</i>	<i>6 1/2 3 9.8</i>
Average space	<i>23</i>	<i>23</i>
AMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<i>6 1/2 3 8</i>	<i>6 1/2 3 8</i>
" Angles on upper edge	<i>6 1/2 3 8</i>	<i>6 1/2 3 8</i>
Average space	<i>46</i>	<i>46</i>
AMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	<i>7</i>	<i>7</i>
" Angles on upper edge	<i>3 3 6</i>	<i>3 3 6</i>
Average space	<i>46</i>	<i>46</i>
LAKE, In 'tween Decks, Size and Spacing	<i>2</i>	<i>2</i>
" Hold	<i>3 3/8</i>	<i>3 3/8</i>
B FRAMES, In Fore Body, No. and spacing	<i>15</i>	<i>15</i>
No. of Side Stringers	<i>2</i>	<i>2</i>
WEB FRAMES, In After Body, No. and spacing	<i>6</i>	<i>6</i>
" " br'dth and thickness	<i>15</i>	<i>15</i>
" No. of Side Stringers	<i>2</i>	<i>2</i>
" Size of Angles or Tee Bars to Web Frames	<i>3 1/2 3</i>	<i>3 1/2 3</i>
BRACKET PLATES to Stringers between Web Frames, depth and thickness	<i>30</i>	<i>30</i>

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches per Rule, Or as approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate		
" Rider Plate		
" Bulb Plate to Intercoastal Keelson		
" Horizontal Plates on Floors		
" Angles		
SIDE KEELSON, Angles		
" Bulb or Plate above floors, for length		
" Intercoastal Plate, for length		
" Attached to outside Plating with Angle		
BILGE KEELSON, Angles		
" Bulb or Plate above floors, for length		
" Intercoastal Plate, for length		
" Attached to outside Plating with Angle		
BILGE STRINGER Angles		
" Bulb Plate, for length		
" Intercoastal Plate, for length		
" Attached to outside Plating with Angle		
SIDE STRINGER Angles		
" Bulb or Intercoastal Plate, for len.		
Spar, or Awning Deck Stringer Plates, on ends of Beams, breadth and thickness	<i>44.29</i>	<i>9.08</i>
" Angle on ditto	<i>4.4</i>	<i>0.8</i>
" Tie Plates, fore and aft, outside Hatchways	<i>13</i>	<i>9.7</i>
" Diagonal Tie Plates on Bms., No. of prs.		
" Flat of Deck, * Iron or Steel, for $\frac{1}{2}$ len.	<i>3 1/2</i>	<i>6</i>
" " Wood <i>pine</i> Material and thickness		
" How fastened to Beams <i>staples</i>		
Main Deck Stringer Plate, breadth & thickness	<i>38.29</i>	<i>10.8</i>
" Angles on ditto, No. <i>2</i>	<i>4.4</i>	<i>9.8</i>
" Tie Plates, outside Hatchways		
" Diagonal Tie Plates on Bms., No. of prs.		
" Flat of Deck, * Iron or Steel, for $\frac{1}{2}$ len.	<i>8-7-6</i>	<i>3.7</i>
" " Wood Material and thickness		
" How fastened to Beams <i>riveted</i>		
Lower Deck Stringer Plates, br'dth & thckn's		
" Angles on ditto, No.		
" Tie Plates, outside Hatchways		
" Flat of Deck, * Material and thickness		
" How fastened to Beams		
Hold, or Orlop Stringer Plate, br'dth & thckn's		
" Angles on ditto, No.		
" Tie Plates, outside Hatchways		
" Flat of Deck, * Material and thickness		
" How fastened to Beams		
Poop Deck Stringer Plate, breadth & thickness		
" Angles on ditto		
" Tie Plates		
" Flat of Deck, * Material and thickness		
" How fastened to Beams		
Bridge Deck Stringer Plate, br'dth & thickness	<i>24</i>	<i>7</i>
" Angle on ditto <i>main bulk</i>	<i>6 1/2 3</i>	<i>8</i>
" Tie Plates	<i>8</i>	<i>7</i>
" Flat of Deck, * Material and thickness	<i>3.0</i>	<i>3</i>
Forecastle Deck Stringer Plate, br'dth & th'kns	<i>24</i>	<i>6</i>
" Angle on ditto	<i>3 x 3 x 8</i>	<i>3 x 3 x 8</i>
" Tie Plates	<i>8</i>	<i>7</i>
" Flat of Deck, * Material and thickness	<i>3.0</i>	<i>3</i>

PLATING.

	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule, Or as approved.	16ths or 20ths per Rule.
FLAT PLATE KEEL, breadth and thickness				
" Dblng or incrsd thckn's & len. appl.				
PLATES in Garboard Strakes, breadth & thckn's from Garboard to lower part of Bilges	<i>36</i>	<i>11 1/2 10</i>	<i>36</i>	<i>11-10</i>
" State Thickness of Plating in way of Double Bottom				
" Bilges, No. of Strakes and thickness	<i>10 1/2 8</i>			<i>10-8</i>
" Of doubling at Bilge, or increased thickness, and length applied	<i>10 1/2 8</i>			<i>10-8</i>
" from up. part of Bilge to Ir. edge of Sh'rstrake				
Main Sheerstrake, breadth and thickness	<i>40</i>	<i>12 1/2 9</i>	<i>40</i>	<i>12-9</i>
" Of doubling at Sh'rstk. & lng. applied				
" from Main to Spar Dk. or Awn. Dk. Sh'rstk	<i>40</i>	<i>8-7</i>		<i>8-7</i>
" Spar or Awn. Dk. Sh'rstk, br'dth & thckn's	<i>40</i>	<i>10-6</i>		<i>10-9</i>
" Spar <i>Sh'rstrake 3/4 L. doubled</i>				
" Poop sides				
" Bridge sides				
" Forecastle sides				
Lengths of Plating	<i>9 to 10</i>	<i>frame space</i>		

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

HAM1118-0073 1/2

BULKHEADS. No. in Vessel **5**

Ceiling betwixt Decks, thickness and material *pine*

" in hold **2 1/2** do. **2 1/2** do.

Number of Breasthooks **5**

" Crutches **3**

W. T. BULKHEADS } Thickness **9/20** Angles. Vrtel. **4x3x7** Spacing. **2' 6"** Height up. **4 to Spar deck**

PARTITIONS .. Hrznrl. **4x3x7** **3' 6"x4"** **1 - Main J^d**

LONGITUDINAL Vrtel.

Are the outside Plates doubled two spaces of Frames in length? **yes**

The FRAMES extend in one length from *keel line up to spar deck* Riveted through Plates with **3/4** in. Rivets, about **5** apart

The REVERSED ANGLE on floors and frames extend from *middle line to main deck, alternately in way of Bridge house & Forecastle all reverse frames to Spar deck*

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 Keel, with rivets **1 1/8** in. diameter, averaging **5 7/8** ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets **7/8** in. diameter, averaging **3 3/4** ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, treble or double riveted; treble for **1/2** lgth.; with rivets **7/8** in. dia., averaging **3 1/8** ins. from cr. to cr.

" " " overlapped for length, treble riveted for length; with rivets in. dia., averaging ins. from cr. to cr.

Butts of **3** Strakes at Bilge for **1/2** length, treble riveted with Butt Straps **2/20** thicker than the plates they connect.

Edges from Bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets **7/8** in. diameter, averaging **3 3/4** ins. from centre to centre.

Butts from Bilge to Main Sheerstrake, worked carvel, treble or double riveted; treble for **1/2** lgth.; with rivets **7/8** in. dia., averaging **3 1/8** ins. from cr. to cr.

" " " overlapped for length, treble riveted for length; with rivets in. dia., averaging ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. **7/8** Spar or Awaiting Sheerstrake, double or single riveted. **7/8**

Butts of Main Sheerstrake, treble riveted for **1/2** length amidships. Butts of Spar or Awaiting Sheerstrake, treble riveted **1/2** length amidships.

Butts of Main Stringer Plate, treble riveted for **1/2** length amidships. Butts of Spar or Awaiting Stringer Plate, treble riveted for **1/2** length.

" " " Single or Double Straps for whole length amidships. " " " Single or Double Straps for whole length.

Butts of Inner Bottom Plating *double* riveted for **1/2** length. Butts of Centre Girder *treble* riveted.

Breadth of edge laps of Shell Plating in double riveting **7-8 5/4, 3/4-4 1/2** Breadth of edge laps of Shell Plating in single riveting **5 1/4**

Butt Straps of Shell Plating, breadth and thickness **1 1/4 " 16 3/4 "** Butts, If Lapped, breadth of laps **5 1/4**

Butt Straps of Keelsons, Stringer and Tie Plates, treble or double, riveted **1/2** length

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.? *W. Hartlepool St. Iron Co. Ltd. by John Collock & Co. Ltd. Fried. Krupp Essen tested by Johannes Meyer Dusseld. March 90. Dorman Long & Co. Middlesbrough tested by J.H. Buchanan & Co. March 90. H. Hornum & Co. test.*

Workmanship. Are the butts of plating planed or otherwise fitted? *planed*

Is the riveted work properly closed? *yes*

Are the liners between the frames and plates solid single pieces? *yes* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes* Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *yes* Do any rivets break into or through the seams or butts of plating? *No*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*

MASTS, SPARS, &c.

Material. Total length. DIAMETER AND THICKNESS. No. of Plates in round. ANGLES. RIVETING.

At Partners. Heel. Hounds. Head. Number. Size. Seams. Butts.

Fore *Steel* **100** **23 1/2 - 7 1/2** **19 1/2** **7 1/2** **18 1/2** **20 8 1/2** **5 1/2** **2** **double** **treble**

Main **101** **23 1/2 - 7 1/2** **19 1/2** **7 1/2** **18 1/2** **20 8 1/2** **5 1/2** **2** **double** **treble**

Mizen.....

Bowsprit

Topmasts, Yards and Remainder of Spars *Lower yard 62' x 15 1/2, Topmast yard 49' 8" x 12 1/2, Royal 36' x 8 1/2. Pitch pine*

Rigging, Material and Size, Shrouds *Wire rope 4 Shrouds* Stays *wire rope*

Sails. *All sails doubled* Suit of Sails and the following spare sails

EQUIPMENT No. **22137** LETTER **N.** ANCHORS.

Number of Certificate. WEIGHT, EX STOCK. TEST, PER CERTIFICATE. WIGHT REQ. P'R RULE. Description of Anchor. Makers. Where and when tested and Superintendent.

Cwts. qrs. lbs. Cwts. qrs. lbs. Tons. Cwts. qrs. lbs. Cwts. qrs. lbs. Cwts. qrs. lbs. If Patent state Name of Patentee.

12752 1st Bower .. **38** **0** **14** **34** **11** **2** **7** **37** **2** **0** *Stockless* *John Green* *Tipton Sept 15 1*

12753 2nd .. **37** **2** **21** **34** **6** **1** **0** **37** **2** **0** *"* *"* *5 Oct. 90*

12757 3rd .. **32** **2** **0** **30** **10** **-** **-** **31** **3** **14** *"* *"* *Erastus R. Sitt*

4th ..

Collective weight **108** **1** **7** **106 3/4**

12742 Stream **9** **2** **7** **2** **1** **7** **11** **13** **1** **21** **9 1/2** *Ordinary* *"* *"*

12741 Kedge **4** **3** **0** **1** **1** **0** **7** **2** **2** **0** **4 3/4** *"* *"* *"*

12740 2nd Kedge .. **2** **2** **0** **2** **17** **5** **0** **0** **0** **2 1/2** *"* *"* *"*

CHAIN CABLES. HAWSERS AND WARPS.

Number of Certificate. Fathoms. Size. Test per Certificate Tons. Weight of Chain Cable. Fathoms & Size. Per Rule. Description. Makers of Cables. Where and when tested, and Superintendent. Material. Fathoms. Size. Fathoms & Size. Per Rule.

11304-5 270.3' **13 1/4** **77 1/8** **205.33** **2.70** **13 1/4** *Stud link* *John Green* *Tipton Sept 2 90* Towline* **100** **9"** **90 - 9**

11386 **75.2 1/2** **1 1/16** **30 4/10** **44.42** **75 11/16** *"* *Erastus R. Sitt* Hawser **100** **7 1/2"** **90 - 7 1/2**

Iron Steam Chain or Steel Wire... **90** **3 1/2"** **90 3 1/2"**

Boats *2 wood. Life boats 24' - 1 dolly boat 23' - 1 one boat 20' -*

Pumps, Number **3** *hand pumps engine of pump* Diameter of Barrel and Tail Pipe *Barrel 5, Tail pipe 2 1/2*

The Windlass is *Clarke Chapman & Co steam & hand* Capstan *—*

Engine Room Skylights.—How constructed? *of lead on B.D.*

What arrangements for deadlights in bad weather? *good*

Coal Bunker Openings.—How constructed? *Hatches 7 1/6 pl.* How are lids secured? *well* Height above deck? **15**

Number of Scuppers, and number and dimensions of Freeing Ports, &c. **7** *Scuppers on each side 6 x 4 and 6 ports on ea. side*

All the Gangway open

Cargo Hatchways.—How formed? *of iron 7 1/6* Hatches.—If strong and efficient? **yes**

State size No. 1 Hatch (Forward) **11-6' x 11-0** No. 2 Hatch **19' 2" x 11' 0** No. 3 Hatch **11' 6' x 11** No. 4 Hatch **19' 2" x 11' 0**

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *Web plate on fore & after hatch, and two fore after.* *Fore & after hatch 11' x 7 1/2"*

Bulwarks, height above deck and description **3' 9" 5/16" plate** Main Rail, material and size **iron**

The above is a correct description.

Builder's Signature (here on) *Elensburger Schiffbau-Gesellschaft.* Surveyor's Signature *Ernst R. Sitt*

Surveyor to Lloyd's Register of British and Foreign Shipping.

Order for Special Survey No.
Date
Order for Ordinary Survey No.
Date
No. 117 in builder's yard.

DATE OF SURVEYS
held while building
as per Section 18.

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the process of riveting

3rd. When the beams were in and fastened, and before the decks were laid

4th. When the ship was complete, and before the plating was finally coated or cemented

5th. After the ship was launched and equipped

Under Special Survey

Total No. of Visits

State dates and initials of letters respecting this case 8th January 90 M

General Remarks (State quality of workmanship, &c.)
The vessel is built to the approved section except the centre plate, which is not connected with the keel according to the wish of the owners.
The engine, boiler room is fitted with three webframes up to Spardeck and strong beams.
The workmanship, & material is very good, also she is well equipped.
This is a sister ship of S.S. Schönborg R.N. 1781 built by the same builders and the original plans have been approved by you on 8th January 90.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. or Break ft., Bridge Dk. 50 ft., F'castle 31 ft., (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated

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)
Official No. ; Signal Letters

PARTICULARS OF WATER BALLAST—
Double bottom, aft, length and water capacity in tons Double bottom, forward, length and water capacity in tons
Double bottom, under engines and boilers, length and water capacity in tons If under Engines only, or Boilers only, state which
Double bottom, constructed on the cellular system, length 216' - 0 and water capacity in tons 312 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 Outside red lead & 2 coats of Patent paint

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated
State if marked on Vessel's sides in accordance with Notice No. 572
In Summer ft. ins. In Winter ft. ins. For Winter in North Atlantic ft. ins. Fresh Water above the centre of disc ins.
To top of Wood, Iron or Steel Upper, Spar, Awning, or Part Awning Deck.

The amount of Entry Fee £ 4 : - : - is received by me, }
Special £ 71 : 5 : - 18 }
Certificate* £ : :
Travelling Expenses, if any £ 5 : 10 :
I am of opinion this Vessel should be Classed + 100A 1
* Certificate to be sent to Hamburg Lloyd
Emil Paddes
Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute
Character assigned
+ Lib. 2/91
100A 1 Sll
Spardek
1 Ok. Sll webframes
Spardek (ph Sll - w.s.)
It is submitted that this vessel adheres to the class 100A1 (Sll) 'Shal Sll', as recommended 1 Sll (Sll) and web frames and Spardek (ph Sll - w.s.)
all D.B. (as per above particulars)

HAM 1118 - 0073 2/2