

IRON SHIP.

No. 519 Survey held at Postock Date, First Survey 3^d April Last Survey 18th September 1882
On the Iron Steamer "Nordstjernen"

TONNAGE under Tonnage Deck } 541.50
Ditto of Third, Spar, or Awning Deck. } 260.06
Ditto of Poop, or Raised Qr. Dk. }
Ditto of Houses on Deck } 20.37
Ditto of Forecastle }
Gross Tonnage } 821.93
Less Crew Space } 41.10
Less Engine Room } 178.58
Register Tonnage as cut on Beam } 602.25

ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR OR AWNING-DECKED VESSEL.

Half Breadth (moulded) ... Main ... 14⁰⁰
Depth from upper part of Keel to top of Upper Deck Beams ... 16⁰⁰
Girth of Half Midship Frame (as per Rule) ... 25⁰⁸
1st Number ... 55, 66
1st Number, if a 3-Decked Vessel ... deduct 7 feet
Length ... 187⁰⁴
2nd Number ... 10426
Proportions— Breadths to Length ... 1:6.7
Depths to Length—Upper Deck to Keel ... 1:8.04
Main Deck ditto ... 1:11.7

Master A. Snell
Built at Postock
When built 1882 Launched June 24th 82
By whom built Postocker Actien Gesellshaft
für Schiff & Maschinenbau
Owners Bergenske Dampskibsselskab
Residence Bergen, Norway
Port belonging to Bergen, Norway
Destined Voyage from Hamburg to Norwegian Coast up to North Cape
If Surveyed while Building, Afloat, or in Dry Dock.
Surveyed while building

LENGTH on deck as per Rule ... 187⁰⁴ **BREADTH** Moulded ... 28⁰⁰ **DEPTH** top of Floors to Upper Deck Beams ... 14⁰⁰ **Power of Engines** ... 160 **Horse.** ... 160 **N^o. of Decks with flat laid** 2 **N^o. of Tiers of Beams** 3

Dimensions of Ship per Register, length, 188 breadth, 28 depth, 14.8¹/₂

	Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.
KEEL , depth and thickness ...	7 ¹ / ₂ x 2 ¹ / ₈	7 ¹ / ₂ x 2 ¹ / ₈	FLAT KEEL PLATES , breadth and thickness ...	32	9
STEM , moulding and thickness ...	7 ¹ / ₂ x 2 ¹ / ₈	6 ³ / ₄ x 2 ¹ / ₈	PLATES in Garboard Strakes, br'dth & thickness ...	32	9
STERN-POST for Rudder do. do. ...	7 ¹ / ₂ x 4	6 ³ / ₄ x 4 ¹ / ₄	From Garboard to upper part of Bilges ...	7 x 8	7 x 8
" " for Propeller ...	7 ¹ / ₂ x 4	6 ³ / ₄ x 4 ¹ / ₄	" Of d'bling at Bilge, or increased thickness, and length applied ...	15 strake 1/4 on 1/2 S.	
Distance of Frames from moulding edge to moulding edge, all fore and aft ...	22 ⁰⁰	22 ⁰⁰	" From up. prt of Bilge to l.r. edge of Sh'rstrake ...	7 x 8	7 x 8
			" Main Sheerstrake, breadth and thickness ...	33	11
FRAMES , Angle Iron, for 1/2 length amidships ...	3 ¹ / ₂ 3 6	3 ¹ / ₂ 3 6	" Of d'bling at Sh'rstrake & l.r. applied ...		
Do. for 1/2 at each end ...	3 ¹ / ₂ 3 5	3 ¹ / ₂ 3 5	" From M'n. to Up. or Spar Dk. Sh'rstrake ...	5	5
REVERSED FRAMES , Angle Iron ...	3 2 ¹ / ₂ 5	3 2 ¹ / ₂ 5	" Up. or Spar Dk Sh'rstrake, br'dth & thickn'ss ...	6 1/4 1/16 thicker	
FLOORS , depth and thickness of Floor Plate at mid line for half length amidships ...	15 ¹ / ₂ x 7 ¹ / ₁₆	15 ¹ / ₂ x 7	Butt Straps to outside plating, breadth & thickness ...	9 3/4 8 x 9	9 3/4 for 8 x 9 double rivets
" thickness at the ends of vessel ...	6	6	Lengths of Plating ...	11 ft	
" depth at 3/4 the half-bdth. as per Rule ...	8 ⁰⁰	7 3/4	Shifts of Plating, and Stringers ...	4 1/2	
" height extended at the Bilges ...	31	31	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness ...	23	6
BEAMS , Upper, Spar, or Awning Deck } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron } 5 3 7	5 3 7	5 3 7	Angle Iron on ditto ...	3 1/2 x 3 x 6	3 1/2 x 3 x 6
Single or double Angle Iron on Upper edge ...	4 4	4 4	Tie Plates fore and aft, outside Hatchways ...	9	6
Average space ...	4 4	4 4	Diagonal Tie Plates on Beams No. of Pairs ...	3	3
BEAMS , Main, or Middle Deck } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron } 7 5 7	7 5 7	7 5 7	Flat of Upper Spar or Awning Dk. * wood (pine) ...	3	3
Single or double Angle Iron, on Upper Edge ...	4 4	4 4	How fastened to Beams by <u>three plates</u> screws ...		
Average space ...	4 4	4 4	Stringer Plate on ends of Main or Middle Deck } Beams, breadth and thickness ...	40	8/16 40 8/16
BEAMS , Lower Deck } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron } 6 5 6	6 5 6	6 5 6	Is the Stringer Plate attached to the outside plating? ...	yes	
Single or double Angle Iron on Upper Edge ...	4 4	4 4	Angle Irons on ditto, No. 2 ...	4 x 3 x 6	4 x 3 x 6
Average space ...	4 4	4 4	Tie Plates, outside Hatchways ...	9	8/16 9 x 8/16
BEAMS , Hold, or Orlop } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron } 12 x 9	12 x 9	12 x 9	Diagonal Tie Plates on Beams, No. of pairs ...	3 1/2	3 1/2
Single or double Angle Iron on Upper Edge ...	8 1/2 x 9	8 1/2 x 9	Flat of Middle Deck * do. do. fine wood ...	3 1/2	3 1/2
Average space ...	4 4	4 4	How fastened to Beams by <u>galv. iron</u> screw bolts ...	23	7 23 7
KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates ...	12 x 9	12 x 9	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ...	23	7 23 7
" Rider Plate ...	8 1/2 x 9	8 1/2 x 9	Is the Stringer Plate attached to the outside plating? ...	yes	
" Bulb Plate to Intercoastal Keelson ...	4 3 6	4 3 6	Angle Irons on ditto, No. 2 ...	4 x 3 x 6	4 x 3 x 6
" Angle Irons ...	4 3 6	4 3 6	Stringer or Tie Plates, outside Hatchways ...	9 x 8/16	9 x 8/16
" Double Angle Iron Side Keelson ...	4 3 6	4 3 6	Flat of Lower Deck * ...	2" loose planks	
" Side Intercoastal Plate ...					
" Angle Irons ...					
" Attached to outside plating with angle iron ...					
BILGE Angle Irons ...	4 3 6	4 3 6			
" do. Bulb Iron ...	7 x 7	7 x 7			
" do. Intercoastal plates riveted to plating for length ...	4 3 6	4 3 6			
BILGE STRINGER Angle Irons ...	4 3 6	4 3 6			
Intercoastal plates riveted to plating for length ...					
SIDE STRINGER Angle Irons ...					

The **FRAMES** extend in one length from Keel to upper deck Riveted through plates with 3/4 in. Rivets, about 6" apart.

The **REVERSED ANGLE IRONS** on floors and frames extend from middle line to above Main Deck and to above Two Deck 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 2 3/4 ins. from centre to centre.
" **Butts from Keel to turn of Bilge**, worked carvel, double riveted; with rivets 3/4 in. diameter averaging 2 3/4 ins. from centre to centre.
" **Butts of** 2 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 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 2 3/4 ins. from cr. to cr.
" **Butts from Bilge to Main Sheerstrake**, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 2 3/4 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 1/2 length amidships. Butts of Upper or Spar Sheerstrake, double riveted length amidships.
" **Butts of Main Stringer Plate**, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, double riveted for length.
" Breadth of laps of plating in double riveting 14 1/2 Breadth of laps of plating in single riveting 2 1/2

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Upper & Two Deck No. of Breasthooks, deck Strakes, Crutches, double riveted

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Phenist iron. 38° of Breasthooks 4

Manufacturer's name or trade mark, Union Dortmund

The above is a correct description.

Builder's Signature, Alfred No. 11 Surveyor's Signature, Ernst Paddesat
Surveyor to Lloyd's Register of British and Foreign Shipping.

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

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

110016-010

Workmanship.

Are the butts of plating planed or otherwise fitted? *Planed*

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

Are the fillings between the ribs 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 the plating? *No*

Masts, Bowsprit, Yards, &c., are *of wood* in *good* condition, and sufficient in size and length. If of Iron or Steel give 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 riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit
Foremast full length 64 ft. of pitch pine. Greatest diameter 20"
Mainmast 60 ft. 18"

NUMBER for EQUIPMENT		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SAILS.		CABLES, &c.		Fathoms.		Inches.		Test per Certificate.		Inches per Rule.		Machine where Tested & Suprntd.		ANCHORS.		No.		Weight.		Ex. Stock.		Test per Certificate.		W'ght req'd per Rule.		Machine where Tested & Suprntd.																																																																											
No.		Chain	240	1 1/6	34.0.0.0	1 1/16					Sloyds Proving House	Bower Anchors	1	17.1.12	18.10.2.14	16 3/4							Sloyds Proving House																																																																													
/	Fore Sails,	(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)											(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)	1	16.1.8	17.14.0.7	16							Proving House																																																																													
/	Fore Top Sails,	Iron Stream Chain		60	1 1/6	15.16.0.0	1 1/16					D. G. Lewis		1	15.0.20	16.14.1.14	15							Proving House																																																																													
/	Fore Topmast Stay Sails,	or Steel Wire ..																							Nether																																																																												
/	Fore Topmast Stay Sails,	or Hempen Strm																							Nether																																																																												
/	Fore Topmast Stay Sails,	Cable																							Nether																																																																												
/	Fore Topmast Stay Sails,	Towline, Hemp																							Nether																																																																												
/	Fore Topmast Stay Sails,	or Steel Wire ..		90	3 1/4		9" hemp																		D. G. Lewis																																																																												
/	Main Sail,	Hawser	Hemp	90	7 1/2		15"						Stream Anchor	1	5.1.19	7.16.1.0	5 1/2								D. G. Lewis																																																																												
/	Main Stay Sail,	Warp	ditto	90	5 1/2								Kedge	...	1	2.2.19	5.5.0.0	2 3/4																																																																																			
/	Main Stay Sail,	Warp	ditto	90	5 1/2								2nd Kedge	...	1	1 1/2		1 1/2																																																																																			
and		quality	prima																																																																																																		

Standing and Running Rigging *Wire & hemp* sufficient in size and *priman* quality. She has *2* Long Boats and *2* Cutters

The Windlass is *Walker's direct steam* Capstan and Rudder *with steam* Pumps *5*

Engine Room Skylights.—How constructed? *Iron Comings 32" high* How secured in ordinary weather? *Solid teak top.*

What arrangements for deadlights in bad weather? *Butts eyes*

Coal Bunker Openings.—How constructed? *Round openings in main deck* How are lids secured? *With hook* Height above deck? *flush*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *Four scuppers on each side*

Cargo Hatchways.—How formed? *With iron comings 16" above upper deck.* Quarterhatch *7' 3" x 5' 3"*

State size Main Hatch *11' x 8'* Forehatch *none*

If of extraordinary size, state how framed and secured?

What arrangement for shifting beams?

Hatches, If strong and efficient? *yes*

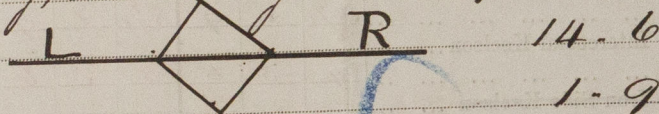
Order for Special Survey No.		1st.		On the several parts of the frame, when in place, and before the plating was wrought		Special Survey	
Date		2nd.		On the plating during the process of riveting			
Order for Ordinary Survey No.		3rd.		When the beams were in and fastened, and before the decks were laid...			
Date		4th.		When the ship was complete, and before the plating was finally coated or cemented..			
No. <i>73</i> in builder's yard.		5th.		After the ship was launched and equipped			

General Remarks (State quality of workmanship, &c.)

Running decked vessel. Double bottom in after hold 53ft long, containing about 33 tons, in forehold 56ft 9in. long, containing about 47 tons.

Lead line marked

Free board



The side ports are strengthened with double plating as also the intercostal plates and angle irons. The double bottom tested and found water-tight. The iron is of the best German material and the workmanship first class. The decks are of Swedish pine and the companion deck-houses, rails & skylights are of teak.

State if one, two, or three decked vessel, or if spar, or awning decked; and the lengths of poop, bridge, forecabin, or raised quarter deck. (If double bottom, state particulars on separate form.)

How are the surfaces preserved from oxidation? Inside *3 coats of paint. Double cemented* Outside *3 coats of paint. Bottom with Hoegs Patent Compound*

I am of opinion this Vessel should be Classed *100 A I*

The amount of the Entry Fee ... £ *5 : 0 : 0* is received by me, *18*

Special ... £ *41 : 1 : 0*

Certificate ... £ *5 : -*

(Travelling Expenses, if any, £ *0.0.0*.)

Committee's Minute

Tuesday, 10th October, 18*82*

Character assigned

100 A I

100 A I

Lead line 14 feet 6 inches

Emil Taddera
Surveyor to Lloyd's Register of British and Foreign Shipping

Lloyd's Register
Foundation