

3 Decks.

IRON OR STEEL STEAMER.

Received at London Office 10 SEP 1902

Date of completion of report 9.9.02 "NARDPO" Port of Sunderland.
Survey held at Sunderland. Date, First Survey 16th Decr. 1901. Last Survey 4th Sept. 1902.
On the steel screw steamer "GRACECHURCH" (Yard No 138) Rig Schooner.

TONNAGE under
Tonnage Deck...
Do. between Tonnage Dk. and 3rd and 4th Dk.
Total under Upper Dk. 2699.89
Do. of Side Houses 26.72
Do. of Bridge House 57.88
Do. of Forecastle 63.35
Do. of Houses on Dk. 53.88
Do. of excess of Hatchways 26.06
Do. above Crown of Engine Room 2907.28
Do. of Engine Room 96.62
Do. of Mast 26.06
Do. of Mast 2784.60
Do. of Mast 930.33
Do. of Mast 46.82
Do. of Mast 26.06
Do. of Mast 1833.51

THREE DECKED VESSEL.
CLASS 100. 9.1.
Half Breadth (moulded) 23.416
Depth from upper part of Keel to top of Upper Deck Beams 25.04
Girth of Half Midship Frame (as per Rule) 45.43
deduct 7 feet 7.00
1st Number 86.886
Length on Deck from after part of stem to fore part of stern post 322.0
2nd Number 27977.29
Proportions—Breadth to Length 6.88
Depth to Length—Upper Deck to top of Keel 12.85
Main Deck ditto
Destined Voyage Freemantle.

Master S. B. H. Jeffery.
Year of appointment 1902
Built at Sunderland.
When built 1902. Launched 22nd July 1902.
By whom built W. Pickersgill & Sons.
Owner Francis Stanley Holland.
Managers (Where necessary to be entered in Reg. Book.) 120 Fenchurch St. London E.C.
Residence 30 Eastcheap London E.C.
Port belonging to London.
Surveyed while Building Afloat, or in Dry Dock under Special Survey.

Deck 322. 0. Breadth 46 10. Depth, Actual—Top of Upper Dk. Beams 21. 8. No. of Decks with flat laid one.
Do. do. do. Main Dk. Beams 21. 8. No. of Tiers of Beams Two Deep frames.
Ship per Register, Length 324.0 breadth 47.1 depth 21.7. Moulded depth, ft. 24. ins. 1. To Upper Dk. Round of Upper Dk. Beam, Actual 11.5 ins.

FRAMING.						FORGINGS or CASTINGS.						Inches in Ship.		Inches in Ship.		Inches in Ship.		Inches per Rule Or as Approved.		Inches per Rule Or as Approved.	
Plates, or for length	5 1/2	3 1/2	10	5 1/2	3 1/2	10	KEEL, Bar or Side Plates, depth and thickness	Flat Plate Keel.						10 1/2 x 2 3/4	10 1/2 x 2 3/4						
Midships	5 1/2	3 1/2	9	5 1/2	3 1/2	9	STEM, moulding and thickness							11" x 6"	11 x 6						
Each end	5 1/2	3 1/2	8	5 1/2	3 1/2	8	STERN-POST for Rudder do. do.	C.S.						11" x 6"	11 x 6						
of Double Bottoms at Solid Floors	5 1/2	3 1/2	8	5 1/2	3 1/2	8	" for Propeller	C.S.						11" x 6"	11 x 6						
at intermdt. Bkts.	5 1/2	3 1/2	8	5 1/2	3 1/2	8	MAIN PIECE of Rudder, diameter at head	C.S.						9	8 1/2						
Frames from moulding edge to edge, all fore and aft	5 1/2	3 1/2	8	5 1/2	3 1/2	8	" do. at heel	C.S.						6 3/4 x 5 5/8	6 3/4 x 5 5/8						
FRAME, Angles	6 1/2	3 1/2	10	6 1/2	3 1/2	10	RUDDER, how constructed	Cast steel.						Single plate 20/20.							
HING, depth of girder	9			9			Can the Rudder be unshipped afloat?	Yes.													
Depth and thickness of Floor Plates	Cellular Double Bottom						KEELSONS & STRINGERS.						Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	20ths in Ship.			
Mid-line for length amidships							CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate														
of Engines and Boilers							" Rider Plate														
ess at the ends of vessel							" Bulb Plate to Intercoastal Keelson														
at 1/2 the half breadth, as per Rule							" Horizontal Plates on Floors														
extended at the Bilges							" Angles														
BRACKETS in Cell Dble Bottoms	48			48			SIDE KEELSON, Angles							Cellular Double Bottom.							
Distance apart	40	10		40	10		" Bulb or Plate above floors, for length														
ORDER, in Double bottom, depth	4	4	9	4	4	9	Intercoastal Plate, for length														
thickness	6 1/2	4	9	6 1/2	4	9	Attached to outside Plating with Angle														
Angles, Top	Three	7	Three	7			BILGE KEELSON, Angles														
Bottom	3 1/2	3 1/2	7	3 1/2	3 1/2	7	" Bulb or Plate above floors, for length	130	Ing.	9	9	9	9								
ERS, number on each side & thickness	3 1/2	3 1/2	7	3 1/2	3 1/2	7	" Intercoastal Plate for length	7 bar		6	4	9	6	4	9						
Angles	32	10		32	9		" Attached to outside Plating with Angle														
LATE, depth (exclusive of flange)	3 1/2	3 1/2	8	3 1/2	3 1/2	8	BILGE STRINGER Angles														
thickness	36	9		36	9		" Bulb Plate for length														
Angles to Outside Plating	9 1/2	11 1/2	7 1/6	9 1/2	11 1/2	7 1/6	" Intercoastal Plate for length														
TTOM PLATING, breadth and thickness of Middle Line Strake	8	3 1/2	10	8	3 1/2	10	" Attached to outside Plating with Angle														
in Engine and Boiler space	8	3 1/2	10	8	3 1/2	10	2 SIDE STRINGERS Angles	2	Bulb Angles	10	3 1/2	14	10	3 1/2	14						
Remainder in Holds	8	3 1/2	10	8	3 1/2	10	" Bulb or Intercoastal Plate, for full length			19	10		19	10							
Upper Deck, Single Angle, Bulb	8	3 1/2	10	8	3 1/2	10	Attached to outside plating with Angle			3 1/2	3 1/2	9	3 1/2	3 1/2	9						
Angle, Plate or Tee Bulb	8	3 1/2	10	8	3 1/2	10	Upper Deck Stringer Plates, br'dth & thickness							46	12	46	12				
gles on upper edge	8	3 1/2	10	8	3 1/2	10	" Angle on ditto							4 1/2 x 4 1/2	10	4 1/2 x 4 1/2	10				
erage space	24			24			" Tie Plates fore and aft, outside Hatchways							Plating increased iron. 1 1/6 in.							
iddle Deck, Single Angle, Bulb							" Deck * Iron or Steel for full length							No wood deck laid							
ngle, Plate or Tee Bulb							" Wood Deck, Material & thickness														
gles on upper edge							Middle Deck Stringer Plate, br'dth & thickness														
erage space							" Angles on ditto, No.														
ower Deck, Single Angle, Bulb							" Tie Plates outside Hatchways														
ngle, Plate or Tee Bulb							" Diagonal Tie Plates on Bms, No. of prs.														
gles on upper edge							" Deck * Iron or Steel, for length														
erage space							" Wood Deck, Material & thickness														
ld, or Plate Tee Bulb							Lower Deck Stringer Plate, br'dth & thickness														
gles on upper edge							" Angles on ditto, No.														
erage space							" Tie Plates, outside Hatchways														
op Deck, Angle, Bulb Angle, Plate							" Deck * Material and thickness														
gles on upper edge							Hold, or Stringer Plate, br'dth & thckn's							60	12	60	12				
erage space							" Angles on ditto, No.							4 x 4	9	4 x 4	9				
dge Deck, Angle, Bulb Angle, Plate							" Tie Plates outside Hatchways							4 x 4	9	4 x 4	9				
gles on upper edge							" Deck, Material and thickness							9	10	9	10				
erage space							Poop Deck Stringer Plate, breadth & thickness							30	6	30	6				
recastle Deck, Angle, Bulb Angle, Plate							" Angle on ditto							3 x 3	6	3 x 3	6				
ate or Tee Bulb							" Tie Plates														
gles on upper edge							" Deck, Material and thickness							iron	5/16	iron	5/16				
erage space							Bridge Deck Stringer Plate, br'dth & thickness							36	7	36	7				
In 'tween Deck, size and spacing							" Angle on ditto							3 1/2 x 3 1/2	8	3 1/2 x 3 1/2	8				
" Hold							" Tie Plates														
" Quarter 'tween Dks.							" Deck, Material and thickness							iron	5/16	iron	5/16				
" in Hold							Forecastle Deck Stringer Plate, b'dth & th'kns							30	6	30	6				
WEB FRAMES, In Fore Body, No. and spacing							" Angle on ditto							3 x 3	6	3 x 3	6				
br'dth & thickness							" Tie Plates							Plated under windlass							
" No. of Side Stringers							" Deck, Material and thickness							P.Pine 6" x 3"							
WEB FRAMES, In E. & B. Space, No. & spacing							BULKHEADS.	Number.	Thickness.	STIFFENERS.						Single or Double Frames.	Height up				
br'dth & thickness								In Vessel.	Per Rule.	Horizontal.	Vertical.										
" No. of Side Stringers										Size.	Spacing.	Size.	Spacing.								
WEB FRAMES, In After Body, No. and spacing										Inches.	Inches.	Inches.	Inches.								
br'dth & thickness																					
" No. of Side Stringers																					
Size of Angles or Tee Bars to Web-Frames																					
BRACKET PLATES to Stringers between																					
Web-Frames, depth and thickness																					

PLATING.

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.		BUTTS.	
	AMIDSHIP.	FORWARD.	AFT.	AMIDSHIP.	AMIDSHIP.	Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	IF LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Thickness.	Thickness.	Thickness.	Thickness.
FLAT PLATE KEEL.....	36	18	12	36	18	Double	6	4	1 1/2	10 1/2
GARBOARD OR A STRAKE...	36	14	11	36	14		5 1/4	3 1/2	1 1/2	10 1/2
B "	54	11	9	54	11		5 1/4	3 1/2	1 1/2	10 1/2
C "	54	12	10	54	12		5 1/4	3 1/2	1 1/2	10 1/2
D "	54	11	9	54	11		5 1/4	3 1/2	1 1/2	10 1/2
E "	46	13	10	46	13		5 1/4	3 1/2	1 1/2	10 1/2
F "	54	12	10	54	12		5 1/4	3 1/2	1 1/2	10 1/2
G "	48	12	10	48	12		5 1/4	3 1/2	1 1/2	10 1/2
H "	54	12	9	54	12		5 1/4	3 1/2	1 1/2	10 1/2
J "	54	11	9	54	11		5 1/4	3 1/2	1 1/2	10 1/2
K "	46	13	9	46	13		5 1/4	3 1/2	1 1/2	10 1/2
L "	54	13	9	54	13		5 1/4	3 1/2	1 1/2	10 1/2
POOP SIDES.....	7/20.			7/20.						
BRIDGE SIDES.....	8 1/2.			8 1/2.						
FORECASTLE SIDES.....	7/20.			7/20.						

Length of shell plates = 8 frame spaces.
Keel and Garboard strakes increased in line.
Doubled at ends of bridge for 20'0" x 34' x 20'.

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. *Siemens-Martin*

Steel Plates. *Consett, Weardale, South Durham & Bolckow*
Steel Angles. *Palmer's, Consett & Frodingham*
Iron Plates. *Hebb & South Durham*

Has the Steel been tested as required by the Rules? *Yes*

FRAMES extend in one length from *centre line* to *margin plate and thence to Sunwale*.
REVERSED FRAMES on floors and frames extend from *centre line to margin plate & thence to upper deck, except in way of side where they are to upper & forecastle decks alternately*.

MASTS, SPARS, &c.

LOWER MASTS.	Fore.	Main.	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates around.	ANGLES.	RIVETING.
					At Partners.	Heel.	Round.	Head.			
Fore	69' 0"	2 1/2 x 4/80	2 1/2 x 4/80	16 1/2 x 9/80	4	✓	✓	✓	✓	✓	✓
Main	69' 6"	2 1/2 x 4/80	2 1/2 x 4/80	16 1/2 x 9/80	4	✓	✓	✓	✓	✓	✓

Topmasts, *Remainder of Spars of Pine*
Rigging, Material and Size, *Shrouds Salvaged steel wire 3"*
Sails, *One* Suit of *schrooners* Sails, and the following spare sails *✓*

EQUIPMENT No. 32083. LETTER U

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE		WEIGHT REQUIRED BY TABLE 22.		Description of Anchor.	Makers.
		Cwts.	qrs.	Cwts.	qrs.	Tons.	cwts.	qrs.	lbs.		
* 1311.	1st Bower	45	2	44	1	39	12	3	45	2	0
* 1430.	2nd "	44	1	44	1	38	17	0	44	2	0
* 1449.	3rd "	41	0	41	0	36	11	2	39	0	0
	4th "										
	Collective weight	131	3	131	3	130	0	0	130	0	0
18094.	Stream	11	1	14	2	13	5	0	11	1	0
18202.	Kedge	5	3	7	1	8	2	3	5	2	0

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE		Fathoms.	Description.	Makers of Cables.	When and where tested, and Superintendent.
				Supplied.	Per Table 22.				
768.	135	1 1/2	9 1/2	264	2 20 265	2 21	135	1 1/2	✓
769.	135	1 1/2	9 1/2	263	3 6 264	2 21	135	1 1/2	✓
9786.	90	1 1/2	9 1/2	60	2 24 57	1 2	90	1 1/2	✓

HAWSERS AND WARPS.

Number of Certificate.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size per Table 22.
	90 3" 18. 90-3"			
	90 7" Manila 2 of 90-7"			
	90 6" 2 of 90-6"			

Boats *Four*
Pumps Number *one* 4 1/2" Downton Pump with 5" cast iron Diameter of Barrel *5"*
Windlass *Emerson Walker & Thompson Bros.*
Engine Room Skylights—How constructed? *of steel. Height above bridge deck 7' 9"*
What arrangements for deadlights in bad weather? *steel plates & bulls eyes*
Coal Bunker Openings—How constructed? *of steel.* How are lids secured? *Cleat & Ballast.* Height above deck? *12"*
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *6 scuppers each side 7" freeing ports each side 3' 6" x 1' 4"*
Ceiling in Holds, thickness and material *Pine 2 1/2"*
Cargo Hatchways—How formed? *of steel usual construction*
State size No. 1 Hatch (Forward) *22' 0" x 17' 0"* No. 2 Hatch *24' 0" x 17' 0"* No. 3 Hatch *24' 0" x 17' 0"* No. 4 Hatch *24' 0" x 17' 0"*
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *Two webs & three four & after to each hatchway*
Bulwarks, height above deck and description *5' 1" x 3"* No. of Breasthooks *Five* No. of Crutches *Two & deep floor*
The above is a correct description.
Builder's Signature (here only) *A. P. W. W. W. W.* Surveyor's Signature *A. P. W. W. W. W.*
Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)
17. 24/10. M. 4/4/01. M. 19/6/01. M. 1/1/01. M. 3/1/01. M. 23/7/01. & M. 23/9/01.

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed & overlapped.*
Is the riveted work properly closed? *Yes.*
Are the liners between the frames and plates solid single pieces? *Joggled plating* 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? *a few.*
Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes.*
Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? *Yes.* State results of tests. *satisfactory.*
Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *Yes.* State results of tests. *satisfactory.*

General Remarks (State quality of workmanship, &c.) *This vessel has been built in accordance with the approved Plans, the Secretaries' Orders dated as stated above and in other respects as required by the Rules. The materials and workmanship are good. The efficiency of the Downton Pump and W. I. doors have been ascertained. The tunnel has been tested with water & found satisfactory.*

The freeboards assigned by the Committee have been marked on the vessels' sides and verified as per form No 12 dated. 7th Aug. 1902.

This vessel is a duplicate of S.S. "Fenchurch." Sunderland Report No 20999.
The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *20' 9 1/2"* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *76' 2"* ft., F'castle *33' 08"* ft. (in feet and tenths). When the Poop 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) *1 St. (iron) 2 tiers of beams & Deep framing 3 St. rule.*
Official No. *✓*; Signal Letters *✓*
How are the surfaces preserved from oxidation? Inside *Portland cement & Paint* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,	104.	268.	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,	30.	67.	Midship deep tank,		
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,	132.	377.	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks. State whether the above have been tested as required by the Rules *Yes.*

Order for Special Survey No. *1349*
Date *14th March, 1902*
No. *138* in builder's yard.
Total No. of Visits *73*

The amount of Entry Fee *£ 5* : : *9. 9. 02*
Special Survey Fee *£ 94* : *12. 6*
Travelling Expenses, if any *£* : : *18. 18. 02*
Certificate to be sent to *Sunderland.*
Received by me, *A. P. W. W. W. W.*
State whether the Vessel has been built under Special Survey *Yes.*
I am of opinion this Vessel should be Classed *100 G.I. "Steel."*
Without Freeboard, as condition of Class.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *FRI. 12 SEP 1902*
Character assigned *100 G.I. (steel)*
Lloyd's a & b. P. + L.M. 6. 9. 02

Handwritten note: 19/10/02.