

Spar, or Awning Dk.

# IRON OR STEEL STEAMER.

No. 18447

State if Report is also sent on the Machinery of the Vessel *Yes* *Wich 7° 33' 14"*  
Port of *Sunderland* Date of completion of Report *23<sup>rd</sup> September 1896* Received at London Office  
Survey held at *Sunderland* Date, First Survey *21<sup>st</sup> Nov. 1895* Last Survey *19<sup>th</sup> September 1896*  
On the *Steel Screw Steamer NARRUNG* Rig *Schooner (2 masts)*

TONnage under Tonnage Deck *4202.97*  
Do. between Tonnage Deck and 3rd, 4th or Awning Dk. *335.44*  
Total under per Dk. *109.51*  
D. of Poop *217.82*  
D. of Bridge Hor. *84.51*  
D. of Forecasts *90.21*  
D. of House Deck (SIDE CHART) *14.19*  
Do. of excess of Hatchways *12.30*  
Do. above Crown of Engine Room *3078.98*  
Gross Tonnage *5078.98*  
Less Crew Space *210.80*  
Less above Crown of Engine Room *223.10*  
TONNAGE FOR FEES *4854.98*  
Less Engine Room *1624.99*  
Navigation Spaces *63.59* *1688.58*  
Crown of E. Room *12.30*  
Register Tonnage *3178.70*

SPAR, AWNING OR PART AWNING-DECKED VESSEL, or a Vessel having a continuous Shade Deck.  
CLASS *100 A.1.*  
Half Breadth (moulded) *23.62*  
Depth from upper part of keel to top of Main Deck Beams *24.24*  
Girth of Half Midship Frame (as per Rule) *42.43*  
1st Number *90.29*  
Length *398.16*  
2nd Number *35949*  
Proportions—Breadths to Length *8.4*  
Depths to Length—Main Deck to top of Keel *16.4*  
Destined Voyage *London*

Master *J. E. Ilbery*  
Year of Appointment *1896*  
Built at *Sunderland*  
When built *1896* Launched *24<sup>th</sup> July*  
By whom built *Sunderland Shipbldg. Co. (Ld.)*  
Owners *W. Lund*  
Managers *(Where necessary to be entered in Reg. Book.)*  
Residence *London*  
Port belonging to *London*  
If Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH Moulded	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
	398	2		47	3		28	5 1/2	600		Two	Two
Dimensions of Ship per Register, Length <i>400.0</i> breadth <i>47.6</i> depth <i>28.4</i> Spar or Awn. Dk. Moulded depth, ft. <i>23</i> ins. <i>3 1/2</i> To Main Dk. Round up of Beam, Main Dk., <i>8</i> ins.												

FRAMING.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
FRAME, Angles, <i>7 L or L Bars</i> , for $\frac{1}{2}$ length amidships	5 1/2	3 1/2	8	5 1/2	3 1/2	8
Do. for $\frac{1}{2}$ at each end	5 1/2	3 1/2	7	5 1/2	3 1/2	7
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	8	3 1/2	3 1/2	8
at intermdt. Dkts.	-	24	-	-	24	-
Distance of Frames from moulding edge to moulding edge, all fore and aft	6	3 1/2	8	6	3 1/2	8
REVERSED FRAME, Angles	8 1/2	-	-	8 1/2	-	-
DEEP FRAMING, depth of girder	-	-	-	-	-	-
at mid line for $\frac{1}{2}$ length amidships	-	-	-	-	-	-
in way of Engines and Boilers	-	-	-	-	-	-
thickness at the ends of vessel	-	-	-	-	-	-
depth at $\frac{1}{2}$ the half bath, as per Rule	-	-	-	-	-	-
height extended at the Bilges	-	-	-	-	-	-
LOOKS & BRACKETS, in Cell Dble Bottoms	44	-	7 1/2	44	-	7 1/2
Distance apart	-	24	-	-	24	-
ENTIRE GIRDER, in Double bottom, depth and thickness	44	-	10	44	-	10
Angles, Top	4	4	9	4	4	9
Bottom	-	-	-	-	-	-
IDE GIRDERS, number and thickness	One	-	8	One	-	8
Angles	3 1/2	3 1/2	8	3 1/2	3 1/2	8
MARGIN PLATE, depth (exclusive of flange) and thickness	30	-	9	30	-	9
Angles	4	4	9	4	4	9
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	36	-	10	36	-	10
thickness in Engine and Boiler space	-	-	8 1/2	-	-	8 1/2
Remainder in Holds	-	-	8 1/2	-	-	8 1/2
BEAMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	9 1/2	-	9	9 1/2	-	9
Angles on upper edge	3 1/2	3 1/2	7	3 1/2	3 1/2	7
Average space	-	48	-	-	48	-
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	10	-	10	10	-	10
Angles on upper edge	3 1/2	3 1/2	8	3 1/2	3 1/2	8
Average space	-	48	-	-	48	-
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	-	-	-	-	-	-
Angles on upper edge	-	-	-	-	-	-
Average space	-	-	-	-	-	-
BEAMS, Hold, or Orlop, Plate or Tee Bulb	-	-	-	-	-	-
Angles on upper edge	-	-	-	-	-	-
Average space	-	-	-	-	-	-
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	3	9	7	3	9
Angles on upper edge	-	-	-	-	-	-
Average space	-	48	-	-	48	-
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	8	3	9	8	3	9
Angles on upper edge	-	-	-	-	-	-
Average space	-	48	-	-	48	-
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	8 1/2	-	8	8 1/2	-	8
Angles on upper edge	3	3	6	3	3	6
Average space	-	48	-	-	48	-
CLARKS, In 'tween Deck, size and spacing	2 3/4	-	48	-	-	-
Hold	4	-	48	-	-	-
Quarter, 'tween Dks.	2 3/4	-	96	-	-	-
in Hold	4	-	96	-	-	-
EH-FRAMES, In core Body, No. and spacing	-	-	-	-	-	-
brdth. & thickness	-	-	-	-	-	-
No. of Side Stringers	Three	-	-	-	-	-
FRAMES, In B. Space, No. & spacing	Two	-	8	Two	-	8
brdth. & thickness	22	-	-	22	-	-
WEB FRAMES, In Body, No. and spacing	-	-	-	-	-	-
brdth. & thickness	-	-	-	-	-	-
No. of Side Stringers	Three	-	-	-	-	-
Size of Angles or Tee Bars to Web Frames	6 1/2	4 1/2	10	6 1/2	4 1/2	10
BRACKET PLATES to Stringers between Web Frames, depth and thickness	-	-	-	-	-	-

FORGINGS AND CASTINGS.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
KEEL, Bar or Side Plates, depth and thickness	9 x 3 1/2	-	-	9 x 3 1/2	-
STEM, moulding and thickness	11 x 3	-	-	11 x 3	-
STERN-POST for Rudder do. do.	11 x 7	-	-	11 x 7	-
" for Propeller	11 x 7	-	-	11 x 7	-
MAIN PIECE of Rudder, diameter at head	10	-	-	10	-
do. at heel	8 x 6 3/4	-	-	8 x 6 3/4	-
RUDDER, how constructed	Cast steel as per approved plan	-	-	-	-
Can the Rudder be unshipped afloat?	Yes	-	-	-	-
KEELSONS AND STRINGERS.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	Centre thro. 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	6 1/2	4 1/2	10	6 1/2	4 1/2
Bulb or Plate above floors, for length	-	-	-	-	-
Intercoastal Plate, for whole length	22	-	11	22	-
Attached to outside plating with Angle	3 1/2	3 1/2	10	3 1/2	3 1/2
BILGE STRINGER Angles	6 1/2	4 1/2	10	6 1/2	4 1/2
Bulb Plate, for length	-	-	-	-	-
Intercoastal Plate, for whole length	22	-	11	22	-
Attached to outside plating with Angle	3 1/2	3 1/2	10	3 1/2	3 1/2
SIDE STRINGER Angles	6 1/2	4 1/2	10	6 1/2	4 1/2
Bulb or Intercoastal Plate, for whole length	22	-	11	22	-
Attached to outside plating with Angle	3 1/2	3 1/2	10	3 1/2	3 1/2
Spar, or Awning Deck Stringer Plates, breadth and thickness	60	14	-	60	14
Angle on ditto	4 1/2 x 4 1/2	-	-	4 1/2 x 4 1/2	-
Tie Plates, fore and aft, outside Hatchways	Deck plating increased	-	-	-	-
Diagonal Tie Plates, No. of prs.	-	-	-	-	-
Deck, * Iron or Steel, for whole length	8	-	-	8	-
Wood Deck, Material and thickness	pitch pine 4 thick	-	-	-	-
Main Deck Stringer Plate, breadth & thickness	39	10	-	39	10
Angles on ditto, No.	4 x 4 x 9	-	-	4 x 4 x 9	-
Tie Plates, outside Hatchways	Deck plating increased	-	-	-	-
Diagonal Tie Plates, No. of prs.	-	-	-	-	-
Deck, * Iron or Steel, for whole length	8	-	-	8	-
Wood Deck, Material and thickness	-	-	-	-	-
Lower Deck Stringer Plates, br'dth & thickness	-	-	-	-	-
Angles on ditto, No.	-	-	-	-	-
Tie Plates, outside Hatchways	-	-	-	-	-
Deck, * Material and thickness	-	-	-	-	-
Hold, or Orlop Stringer Plate, br'dth & thickness	-	-	-	-	-
Angles on ditto, No.	-	-	-	-	-
Tie Plates, outside Hatchways	-	-	-	-	-
Deck, Material and thickness	-	-	-	-	-
Poop Deck Stringer Plate, breadth & thickness	39	7	-	39	7
Angles on ditto	3 x 3 x 7	-	-	3 x 3 x 7	-
Tie Plates	14	7	-	14	7
Deck, Material and thickness	pitch pine 3 1/2 thick	-	-	-	-
Bridge Deck Stringer Plate, br'dth & thickness	55	7	-	55	7
Angle on ditto	3 1/2 x 3 1/2 x 8	-	-	3 1/2 x 3 1/2 x 8	-
Tie Plates	14	7	-	14	7
Deck, Material and thickness	pitch pine 3 1/2 thick	-	-	-	-
Forecastle Deck Stringer Plate, br'dth & thickness	39	7	-	39	7
Angle on ditto	3 x 3 x 7	-	-	3 x 3 x 7	-
Tie Plates	14	7	-	14	7
Deck, Material and thickness	pitch pine 3 1/2 thick	-	-	-	-

BULKHEADS.	Number.	Thickness.	Horizontal.	Vertical.	Spacing.	Single or Double Frames.	Height up.
W. T. BULKHEADS	6	6	7-6	8 1/2 x 3 1/2	5 1/2 x 3 1/2	4 1/2 x 3 1/2	6 1/2 ft. Spar & 4 ft. Bulkhead
PARTITION	1	-	4 1/2	-	-	-	-
LONGITUDINAL	-	-	-	-	-	-	-
Are the outside Plates doubled two spaces of Frames in length? <i>Yes</i>							



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.		BUTTS.										
	AMIDSHIP.		FORWARD.		AFT.		Single or Double.	Breadth of Lap.	RIVETS.		RIVETS.		STRAPS.		IF LAPPED.				
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing or to cr.	Diam.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	For what Length.			
First Plate Keel	1 1/2	1/2	3/8	apart	centre	2	centre	-	-	-	-	-	-	-	-	-	-		
GABBOARD or A Strake	5 1/2	14	13	14	5 1/2	14	double	6	1	4	1/2	19	18	-	-	-	-		
B	5 1/2	12	10	13	5 1/2	12	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
C	5 1/2	11	9	12	5 1/2	11	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
D	5 1/2	12	11	15	5 1/2	12	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
E	5 1/2	12	11	14	5 1/2	12	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
F	5 1/2	13	10	15	5 1/2	13	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
G	5 1/2	12	9	12	5 1/2	12	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
H	5 1/2	13	10	13	5 1/2	13	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
J	5 1/2	12	9	12	5 1/2	12	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
K	5 1/2	13	10	13	5 1/2	13	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
L	5 1/2	12	9	12	5 1/2	12	do	5 1/2	7/8	3 1/2	1/2	19	18	-	-	-	-		
M	5 1/2	17	11	11	5 1/2	17	do	6	1	4	1	3 1/2	19	20	-	-	-		
N	5 1/2	17	8	9	5 1/2	17	do	6	1	4	1	3 1/2	19	20	-	-	-		
O	5 1/2	17	9	9	5 1/2	17	do	6	1	4	1	3 1/2	19	20	-	-	-		
P																			
Q																			
DOUBLING OF Flat Plate Keel																			
Length and thickness of Bilges	6/20																		
Length and thickness of Sheerstrakes	7/20																		
Length and thickness of Strake below	7/20																		
POOP SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			

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 by *Stockton Wal. & Co., Moor & Co.*

2 Cornett & Co. Bars by *Cornett & Co.*

and *Dorman Long & Co.*

Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? *double*

Inner Bottom Plating, riveting of Edges *double & single* Butts *double*

Centre Girder Butts, treble riveted *Keelson Butts*, riveted.

Frames, riveted through Plates with *7/8* in. Rivets, about *6 1/2* apart.

Rivets, state whether Iron or Steel *Iron*

FRAMES extend in one length from *margin plate to margin plate*, and from *margin plate to gunwale*

REVERSED FRAMES on floors and frames extend from *centre line to bilge* *chine to spar deck*

MASTS, SPARS, &c.										
	Material.	Total Length	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Head.		Number.	Size.	Seams.	Butts.
Fore	Steel	74'-0"	27 x 9/20	28 x 7/20	18 x 7/20	2	-	-	Single	treble
Main	"	75'-0"	27 x 9/20	28 x 7/20	18 x 7/20	2	-	-	do	do
Mizen	"									

Bowspit

Topmasts, Yards and Remainder of Spars *pitch pine*

Rigging, Material and Size, Shrouds *13/16 Galv wire* Main *3 3/4* Fore *4"* Stays *Main 4", Fore 4 1/2"*

Sails. *One* Suit of *behaviour* Sails, and the following spare sails

EQUIPMENT No. 45886 LETTER Y ANCHORS.																
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.			
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.				lbs.		
29349	1st Bower	53	3	0	-	-	-	44	12	2	0	53	3	0	Lion patent	John H. & Co. R.M.C. 3/4 1/2 J. Robinson
28819	2nd "	53	2	10	-	-	-	44	11	1	0	53	3	0	do	" " 2 1/4 1/2 J. Robinson
29403	3rd "	50	3	0	-	-	-	42	16	3	14	50	3	0	do	" " 2 1/4 1/2 J. Robinson
28820	Collective weight	208	1	14	-	-	-	42	10	2	14	206	3	0	do	" " 2 1/4 1/2 J. Robinson
14754	Stream	14	0	0	3	2	0	13	12	2	0	14	0	0	Hodgers	" " 2 1/4 1/2 C.E. Perkins
14715	Kedge	7	0	7	1	3	14	9	7	0	21	7	0	0	do	" " 2 1/4 1/2 C.E. Perkins
	2nd Kedge															

2nd Kedge *Mechanical tests applied 28/1/96. J. C. Craig 28/1/96 1 1/4 1/2 and 2 1/4 1/2*

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF CHAIN CABLE		Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.					
				Supplied.	Per Rule.														
11871	270	2 1/2	120 1/2	86 1/2	645-2-13	645-3-0	270-2 1/2	Lead link	J. H. & Co. R.M.C. 3/4 1/2 J. Robinson	TOWLINE	120	4 1/4	47	120-4 1/4					
										HAWSER	90	12	-	90-12					
										WARP	90	10	-	90-10					
	90	4 1/4	47	-	-	-	90-4 1/4	Lead link			90	4	33	-					

Boats *Four life boats and two others*

Pumps, Number *Eight hand pumps* Diameter of Barrel and Tail Pipe *6" and 3 1/2"*

Windlass is *Emerson Walker & Thompson (No. 1) Steam Capstan*

Engine Room Skylights.—How constructed? *Leak on iron coverings*

What arrangements for deadlights in bad weather? *Leak shutters and bollovers*

Coal Bunker Openings.—How constructed? *Cast iron* How are lids secured? *hatches bottom* Height above deck? *15"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *5 scuppers ea. side, 6 ports 2' 6" x 1' 6"*

Ceiling in Holds, thickness and material *2 1/2" white pine* Ceiling between Decks, thickness and material *2 1/2" white pine*

Cargo Hatchways.—How formed? *Plates and bars usual construction* Hatches, if strong and efficient? *yes* 2 1/2

State size No. 1 Hatch (Forward) *20' 0" x 14' 0"* No. 2 Hatch *26' 0" x 16' 0"* No. 3 Hatch *24' 0" x 16' 0"* No. 4 Hatch *20' 0" x 16' 0"*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *Five web plates in No. 1, 2 and 3 hatchways*

One web in No. 4 hatchway

No. of Breasthooks *Four* No. of Crutches *Two*

Bulwarks, height above deck and description *4' 6" high plates & stays* Main Rail, material and size *9 1/2" 10-3 x 1 1/2"*

The above is a correct description.

FOR THE SUNDERLAND SHIPBUILDING CO. LD.

Builder's Signature (here only) *George R. Harrison* Secretary's Signature *George R. Harrison*

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

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case)

(an) 7th Oct. 2nd-8th. 11th 26th Nov. 7th 2nd Dec. 1895 / 24th Jan. & 24th Feb. 96.

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? *a very few*

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

General Remarks (State quality of workmanship, &c.) *This vessel is built in accordance with the approved plans, the Secretary's letters as stated above and in other respects in conformity with the Rules. The workmanship is good throughout. The decks and waterways have been tested by water and the efficiency of the hand pumps and watertight doors ascertained.*

*The fore hold and fore tween decks are insulated for carrying frozen meat, a careful examination was made of all parts in way of same and all was well coated; the fore hold is 5'5"5"9 cubic ft. capacity and 21'6" high, the tween decks 18'9"4"2 cubic ft. and 7'10" high*

*When launching this vessel she stuck on the ways, after floating her she was placed in dry dock and carefully examined, and two shell plates were cut off joined and refitted and two slightly indented plates joined in place and the cement repaired where broken away.*

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *36* ft., R.Q.D. or Break *ft.*, Bridge Dk. *186* ft., F'castle *50* 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 DECK (STL) and SPAR DECK (STL. W.S.), 2 tiers of beams.*

Official No. *186*; 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

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,	112	200	Fore peak tank,	24	85
Double bottom, forward,	180	357	After peak tank,	14	21
Double bottom, under Engines and Boilers,			Midship deep tank,		
Double bottom, if under Engines only,	24	Not a tank	Other tanks, if fitted,		
Double bottom, if under Boilers only,	20	82	(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules *yes*

Order for Special Survey No. *3993*

Date *15 Oct. 1895*

Order for Ordinary Survey No. *✓*

Date *✓*

No. *186* in builder's yard

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

The amount of Entry Fee.....£ *5 : 0 : 0*

Special Survey Fee .....£ *146 : 7 : 6*

Travelling Expenses, if any £ *1 : 10 : 18*

I am of opinion this Vessel should be Classed *\*100A.1 STEEL SPAR DECK*

With or without Freeboard, as condition of Class

Committee's Minute

Character assigned *100A.1 Steel Spar Deck*

FRI SEP 25 1896

George Harrison

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

Boats *Four life boats and two others*

Pumps, Number *Eight hand pumps* Diameter of Barrel and Tail Pipe *6" and 3 1/2"*

Windlass is *Emerson Walker & Thompson (No. 1) Steam Capstan*

Engine Room Skylights.—How constructed? *Leak on iron coverings*

What arrangements for deadlights in bad weather? *Leak shutters and bollovers*

Coal Bunker Openings.—How constructed? *Cast iron* How are lids secured? *hatches bottom* Height above deck? *15"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *5 scuppers ea. side, 6 ports 2' 6" x 1' 6"*

Ceiling in Holds, thickness and material *2 1/2" white pine* Ceiling between Decks, thickness and material *2 1/2" white pine*

Cargo Hatchways.—How formed? *Plates and bars usual construction* Hatches, if strong and efficient? *yes* 2 1/2

State size No. 1 Hatch (Forward) *20' 0" x 14' 0"* No. 2 Hatch *26' 0" x 16' 0"* No. 3 Hatch *24' 0" x 16' 0"* No. 4 Hatch *20' 0" x 16' 0"*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *Five web plates in No. 1, 2 and 3 hatchways*

One web in No. 4 hatchway

No. of Breasthooks *Four* No. of Crutches *Two*

Bulwarks, height above deck and description *4' 6" high plates & stays* Main Rail, material and size *9 1/2" 10-3 x 1 1/2"*

The above is a correct description.

FOR THE SUNDERLAND SHIPBUILDING CO. LD.

Builder's Signature (here only) *George R. Harrison* Secretary's Signature *George R. Harrison*

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