

No. 2700 Survey held at Pembroke Dock and for date at Cardiff Recd 7/4/64 2700
 on the Ship Pembrokeshire Date 29 March 18
 Old Tonnage 44 Built at Pembroke Dock When built 1804 Launched 20 January
 New 720 100 By whom built Allan & Warlow Owners Jenkins & Co
 Port belonging to London Destined Voyage Cardiff to Shanghai
 If Surveyed while Building, Afloat, or in Dry Dock while Building

Length aloft	Feet.	Inches.	Extreme Breadth Outside	Feet.	Inches.	Depth of Hold	Feet.	Inches.				
Scantlings of Timber.			Required per Rule.			Thickness of Plank.						
TIMBER AND SPACE	32	sided,	Middle.	Ends.	Middle.	Ends.	Outside.	INCHES.	Required per Rule.	Inside.	INCHES.	Required per Rule.
Floors	14	14	31	4	13	2	Garboard Strakes ..	7	2	Limber Strakes	5	4
1 st Foothooks	12	12	3				Garboard to Bilge ..	4	4	Bilge Planks	8	4
2 nd Ditto	12	12	3				Bilge Planks	4	4	Ceiling in Flat	4	3
3 rd Ditto	10	11	3				Bilge to Wales	4	4	Ditto Bilge to Clamp	3	2
Top Timbers	26	9	2	3	2	6	Wales	5	4	Hold Beam Clamps	5	4
Deck } N° 29 Average Space	44	6	8	5	7	4	Topsides	4	4	Deck Beam Ditto	3	4
Beams } N° 28 Average Space	44	6	8	5	8	4	Sheer Strakes	4	4	Ceiling 'twixt Decks	3	2
Deck Beams, length amidships	29	feet	4			4	Plank Sheers	4	4	Hold Beam Shelves	12x12.65	24x10.4
Hold } N° 28 Average Space	44	6	8	5	8	4	Water-ways { Upper Deck	13x13	7	Deck Beam Ditto	12x12.65	9.4x7.4
Beams	8	x	5			4	Ways { Lower Deck	13x13	2			
Hold Beams, length amidships	29	feet	4			4	Ditto, faying surface	12.4x10.4				
Keel	14	16	14	2	14	2	against Timbers	9	8			
Scarps of Ditto	16	2	6	1	15	2	Upper Deck	3	2			
Keelsons	16	16	15	2	15	2						
Scarps of Ditto	16	16	6	1	6	1						
Ribbs 12 x 16	8	6	6	1	6	1						

Size of Bolts in Fastenings, distinguishing whether Copper, Yellow Metal, or Iron; also of Treenails.

Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule	Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule	Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule	
Heel-Knee, & Deadw'd abaft	1	16	Transoms and throats of Hooks	1	16	Hold Beam Bolts in	Waterway ..	1	8
Scarps of Keel, N° 8	18	18	Arms of Hooks	1	8	Knees	1	8	
Keelson Bolts through Keel at each Floor	3	18	Thro' Bilge & Limber Strakes	2	8	Shelf or Clamp	1	8	
Bolts thro' Heels of Timbers against Deadwood	15	10	Thickstuff over Double Floors	1	8	Deck Beam Bolts in	Waterway ..	1	5
			Butt End Bolts	1	8	Knees	15	8	
			Pintles of the Rudder	3	4	Shelf or Clamp	16	16	

Timbering.—The Space between the Floor Timbers and Lower Foothooks is 3 ft 4 in. The Space between the Top-Timbers is 5 ft 6 in. The rest of the Shifts of the Frame are good.

The Frame is well squared from the First Foothook Heads upwards, and well free from sap, and from thence downwards, the frame is squared. The alternate Frames are all bolted together to the Gunwale. The Butts of the Timbers are all close together; their thickness not less than 3 of the entire moulding at that place.

The Frame is well chocked with 2 Butt at each end of the chock. The Main piece of Rudder is Eng Oak of Windlass is Eng Oak. The Keel is Eng Eel The Main Keelson is Greenheart & Rider Greenheart and free from all defects. The Stem, and Stern Post of Eng Oak and Aprons of Eng Oak The Transoms, Knight Heads, Hawse Timbers, Deadwood, of Eng Oak and are free from all defects.

The Deck and Hold Beams of Iron The Breasthooks of Iron The Knees of Iron

Planking Outside.—From the Keel to the Height defined in Note to Table A or to the First Foothook Heads the Plank is Eng & Am. R. Eel

From the above named Height to the Light Water Mark Red Pine

From the Light Water Mark to the Wales Red Pine

The Wales and Black-strokes are Dantzic Oak Greenheart The Topsides & Sheer-strokes Dantzic Oak

The Spirketting and Plank-sheers Red Pine Dantzic Oak The Water-ways { Upper Deck Red Pine
Lower Deck Red Pine

The Decks Yellow Pine State of Flood

The Shifts of the Planking are not less than 5 ft 6 in Feet Inches N. B. If less than prescribed by the Rule, state whether general or partial, and if partial, in what part of the Ship.

The Planking is wrought less than 3 between, and without step-butting

Planking Inside.—The Limber-strokes and Bilge-strokes are Dantzic Oak

The Ceiling, Lower Hold, and between Decks Red Pine Shelf Pieces and Clamps Red Pine

Fastenings.—To Hold Beams Hanging knees to each Beam, including plates 24x7.6, also tie plates 12x7.6 down to Floors, and of stringer plate 24x7.6 also tie plate 12x7.6

Deck Beams Hanging knees to each Beam, and stringer plate 24x7.6, also tie plates 12x7.6

Number of Breasthooks and those formed by Pointers connecting ends of stringers one pair Crutches 4 below Hold Beams

Butts End Bolts are of Yellow Metal in the Bottom, and two Bolts in each Butt End through and clenched.

Bilge and Limber Strakes Yellow Metal bolted through and clenched. Treenails of Eng Oak How Made wound

Thickstuff over Double Floors bolted through and clenched. General Quality of Workmanship Good

We certify that the above is a correct description of the several particulars therein given

Builder's Signature Allan & Warlow Surveyor's Signature Thomas Congdon

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BRSH

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Her Masts, Yards, &c. are in good condition, and sufficient in size and length.

She has SAILS.		CABLES, &c.		ANCHORS, and their weights.	
Nº.		Fathoms.	Inches.	Nº.	Weight.
two sets of Sails	Fore Sails,	Chain	300	33.1.16	
	Fore Top Sails,	Stream 90 fms	1 1/16	3	32.3.0
	Fore Topmast Stay Sails,	Hempen Stream Cable	150	24.1.4	Footman patent
	Main Sails,	Hawser	90	1	10.0.0
and	Main Top Sails,	Towlines	90	2	4.3.19
		Warp	5		2.2.14
		All of <u>good</u> quality.			

Her Standing and Running Rigging wide sufficient in size and good in quality.

She has one Long Boat and three other good Boats

The present state of the Windlass is good Capstan good Rudder good Pumps two cast metal good

General Remarks and Statement and Date of Repairs, if any.

DATES of Surveys held while building, as per Section 35.

- 1st. When the Frame is completed
2nd. When the Beams are put in, &c.
3rd. { When completed, and before the plank be painted or payed }

{ Specially Surveyed }

This vessel has been built under a good Roof, and the requirements of ⁵² feet observed. She has been Specially Surveyed while building. The scantlings of frames (excepting some toptimbers less in siding) are equal to Rules. The thicknesses of inside and outside planking and sizes of fastenings also equal to the Rules. The ceiling in lowest deck is $\frac{3}{4}$ extra thickness as compensation for the toptimbers alluded to. The shelf pieces and waterways bolted through and clinched in each timber. There are 8 pairs of hanging knees to all beams extending down to floors, and well thought bolted. The upper and lower deck beams are of iron, and in size and section as shown on the other side, and approved of by the Committee (see Secretary's letter 27 April 1860). The recommendation in that letter for thickness of angle iron forming Poop beams has been carried out. The beam strakes plates and tie plates are $24 \times \frac{9}{16}$ and $12 \times \frac{9}{16}$ respectively for each deck. The hanging knees to both decks are well riveted to the side of beams in the usual manner. The upper deck is fastened by galvanized bolts with nut and screw from upper side.

Ground tackle completed as above. Testing certificates produced for 2 Bower Anchors to 26.5 tons each, and the patent anchor to 22.5 tons. Also, the Chain cable tested to 44 tons. The certificates from Park Works Gateshead on Tyne. Yellow metallated over-felt to about Wales.

There is a marked improvement in the building of this ship over previous ones. ^{by Albany Works} Sect 40 has been complied with to the entire exclusion of bolts, and as she has been built under a Roof. We are of opinion she may be classed 10 All

Present condition of Caulking of Bottom, good Deck, good and Waterways good

If Sheathed, Doubled, Felted, or Coppered Y. metallated over-felt When last done February 1861

We are of opinion this Vessel should be Classed 10 All

The Amount of the Fee £ 5 : 12 : 10 to Mr. Vaughan, rec'd 1st letter 12 Nov 1862

Special £ 36 : 1 :

X Certificate £ : :

Insuring expenses for all ^{33/4} hours Committee's Minute 1/1/10} 8th April 1861

is received by me, Thomas Congdon

Character assigned 1 for 111 Years

add Roof 10/1/10

Iron Beams

