

Regulation No. 168  
Secretary's instructions  
dated 19th January 1858.

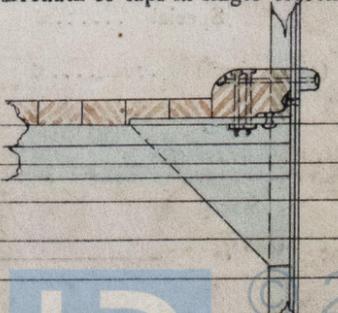
# IRON SHIPS. 270

No. 4150 Survey held at Port Glasgow Date 9<sup>th</sup> March 1860  
 on the Steam Ship "Hesperus" pro tem Master  
 Tonnage Gross 865<sup>100</sup> Engine Room 276<sup>82</sup> Register 588<sup>34</sup> Built at Port Glasgow  
 When Built 25<sup>th</sup> Jan 1860 By whom built Laurence Hill & Co Owners Laurence Hill & Co  
 Port belonging to Port Glasgow Destined Voyage \_\_\_\_\_  
 If Surveyed Afloat or in Dry Dock While Building

Length aloft ..... 211<sup>3</sup>/<sub>10</sub> Feet. Inches. Extreme Breadth.... 30<sup>3</sup>/<sub>10</sub> Feet. Inches. Depth from top of Upper Deck } 19<sup>10</sup>/<sub>10</sub> Feet. Inches. Beam to top of Floor..... } Power of Engines.... 165 Horse No. Two Engines

Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft)	Inches in Ship.		Inches required per Rule.		Description of Iron.	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths. required per Rule.
	Inches.	Inches.	Inches.	Inches.					
Stem, if bar iron, moulding and thickness .....	18	✓	18	✓	8x3	✓	✓	✓	✓
Stem, if plate iron, breadth and thickness .....									
Stern-post, if bar iron, moulding and thickness .....	4 <sup>1</sup> / <sub>2</sub>	3	4 <sup>1</sup> / <sub>2</sub>	3	9x5 aft	✓	✓	✓	✓
Stern-post, if plate iron, breadth and thickness .....									
Keel, if bar iron, depth and thickness .....	20	✓	19 <sup>10</sup> / <sub>10</sub>	✓	8x3	✓	✓	✓	✓
Keel, if plate iron, breadth and thickness .....									
Garboard Plates, thickness .....	3	3	3	3	12x6 <sup>1</sup> / <sub>2</sub>	✓	✓	✓	✓
From Garboard to upper part of Bilge .....									
From upper part of Bilge to Sheerstrakes .....	4 <sup>1</sup> / <sub>2</sub>	3	4 <sup>1</sup> / <sub>2</sub>	3	12x6 <sup>1</sup> / <sub>2</sub>	✓	✓	✓	✓
Sheerstrakes .....	3	3	3	3	12x6 <sup>1</sup> / <sub>2</sub>	✓	✓	✓	✓
Breadth & thickness of Butt Straps to outside plating	3	3	3	3	8x2	✓	✓	✓	✓
Planksheers .....	7 <sup>1</sup> / <sub>2</sub>	✓	7 <sup>1</sup> / <sub>2</sub>	✓	12x6 <sup>1</sup> / <sub>2</sub>	✓	✓	✓	✓
Gunwale Plate or Stringer on ends of Up. Dk Beams	3	3	3	3	22x22	✓	✓	✓	✓
Angle Iron on ditto .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Waterway .....	3	3	3	3	3x2	✓	✓	✓	✓
Ceiling in Hold .....	3	3	3	3	2x2	✓	✓	✓	✓
Ceiling betwixt Decks .....	3	3	3	3	2x2	✓	✓	✓	✓
Beam Clamps .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Shelf .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Stringer Plates on Lower Dk Beams	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Ceiling between Decks .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Stringer or Tie Plates outside Hatchways .....	3	3	3	3	12x12	✓	✓	✓	✓
Deck Beam Clamps .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Shelf .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Stringers in Hold .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Deck, Lower .....	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓
Deck, Upper, how fastened to Beams	3	3	3	3	5x4x <sup>1</sup> / <sub>8</sub>	✓	✓	✓	✓

ransoms, material Iron or, if none, in what manner compensated for.  
 Night-heads Iron Bulkheads, N°. Six Thickness of 5/8  
 Sawse Timbers Iron are they free from defects? Yes how secured to the sides of the ship Between double frames  
 size of vertical angle iron and their distance apart 4x3x<sup>1</sup>/<sub>8</sub> + 3x3x<sup>1</sup>/<sub>8</sub> about 2 feet between part.  
 The Frames or Ribs extend in one length from Keel to Summit rivetted through plates with ( 7/8 in.) rivets, about ( 6 to 7 ins) apart.  
 The reverse angle irons on the floors extend in one length across the middle line from 3 feet on each side to Summit and Hold Beams alternately  
 Keelson, how are the various lengths of plates or angle irons connected? Well shifted and rivetted together  
 Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets ( 1 1/8 ins.) diameter averaging ( 3 1/2 ins) from centre to centre of rivet.  
 Edges from Garboards to upper part of bilge, worked carvel with a lining piece ( 1/2 in.) thick, or clencher, double or single rivetted; rivets ( 7/8 in.) diameter, averaging ( 2 1/4 ins.) from centre to centre of rivets.  
 Butts from Keel to turn of bilge, worked carvel with a lining piece ( 1/2 in.) thick, double or single rivetted; rivets ( 7/8 in.) diameter, averaging ( 2 1/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? Yes  
 Edges from bilge to planksheer, worked carvel with a lining piece ( 1/2 in.) thick, double or single rivetted; rivets ( 7/8 in.) diameter, averaging ( 2 1/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? Yes  
 Butts from bilge to planksheers, worked carvel with a lining piece ( 1/2 in.) thick, or clencher, double or single rivetted; rivets ( 7/8 in.) diameter averaging ( 2 1/4 ins.) from centre to centre of rivets. Breadth of laps in double rivetting ( 4 1/2) Breadth of laps in single rivetting (     )  
 Planksheer, how secured to the plating of the sides { Explain by sketch, }  
 Waterway      planksheer and to the Beams { if necessary. }  
 Side trussing      breadth and thickness of plates      how secured?  
 Deck trussing Plates fore and aft each side of Hatchways 12x12 inch, 4 diagonal plates  
 Deck Beams, how secured to the side? By plate knees 20x16 inch  
 Hold or Lower Deck       
 Paddle       
 No. of breasthooks Four crutches      how are pointers compensated?  
 What description of iron is used for the angle iron and plate iron in the vessel? Scottish Steel



Builder's Signature  
Laurence Hill & Co  
 Lloyd's Register  
 Foundation  
 IRON 434-0197

2101

**Workmanship.** Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? Yes

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

Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? Solid

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? Yes and are the rivet holes well and sufficiently countersunk in the outer plate? Yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? A few

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

She has SAILS.		CABLES, &c.		ANCHORS, and their weights.	
N <sup>o</sup> .		Fathoms.	Inches.	N <sup>o</sup> .	Weight.
	Fore Sails,	Chain .....	300 1 1/4	Bowers... X. <u>London's patent</u> ...	3 28 28
	Fore Top Sails,	Hempen Stream Cable .....	90 10	Stream, X. <u>London's patent</u> ...	1 9 9
X	Fore Topmast Stay Sails,	Hawser .....	90 8	Kedges..... <u>ordinary</u> ...	2 6 6
✓	Main Sails,	Towlines .....	90 5		
	Main Top Sails,	Warp .....			
	and	All of <u>Good</u> quality.			

Her Standing and Running Rigging Simple sufficient in size and Good in quality.

She has One Long Boat and Four others

The present state of the Windlass is Good with patent purchase Two Capstans Good and Rudder Good Pumps Four lead, Good

**General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets**

DATES of Surveys held while building, as per Section 17.

1st. On the several parts of the frame, when in place, and before the plating was wrought	} <u>Specially surveyed</u>
2nd. On the plating during the progress of rivetting	
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	
5th. After the ship was launched	

*The poop sides are in two thicknesses from the gunwale to the topgallant rails, the plating of each being 1/2 inch thick agreeably to the sanction of the Committee contained in the Secretary's letter of 13<sup>th</sup> January 1859; the bulwarks to ditto are 1/2 x 1/2 inch, and the plating is shifted and wrought in an efficient manner. Testing certificates of Chain cables have been produced. Engineer's certificate herewith*

In what manner are the surfaces preserved from oxidation? By two coats of red lead inside, and three coats of red lead outside and one coat Peacock's patent composition on bottom

I am of opinion this Vessel should be classed 12 A 1

The amount of the Fee .....£ 5 : " : " is received by me,

Special .....£ 43 : 5 : "

\*Certificate (if required) .....£ " : " : "

\*Committee's Minute 3<sup>rd</sup> April 1865

Character assigned 1 for 12 Years  
Brilliant of iron

*I concur in the above recommendation*

2<sup>nd</sup> April 1865

