

Lloyd's Register of British and Foreign Shipping.

FORM OF COMPARISON OF SCANTLINGS OF UNCLASSED IRON AND STEEL SHIPS WITH THE RULES OF LLOYD'S REGISTER.

IRON OR STEEL *Screw Steamer.*

Survey held at *Sunderland.*

Port of *Sunderland.*

On the *"Cataluña"*

Date, *9th December 1908.*

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

Rig *2 Mast Schooner.*

Half Breadth (moulded) *17.874*
Depth from upper part of Keel to top of Upper Dk. Beams .. *19.123*
Girth of Half Midship Frame (as per Rule) *32.457*
1st Number *68.964*
1st Number, if a 3-Decked Vessel deduct 7 ft.
Length *248.5*
2nd Number *17136*
Proportions—Breadths to Length *7.15*
Depths to Length—Upper Deck to Keel
Main Deck ditto *12.99*

Built at *Sunderland.*

When built *1908.* Off. No.

By whom built *R. Thompson & Son Co.*

Owners *La Compania de Vapores*
Vieiros.

Port belonging to *Seville.*

COMPARISON OF THE SCANTLINGS:—To be made with the Rules of Lloyd's Register.

FRAMING.		Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule	Inches per Rule	20ths per Rule	KEELSONS & STRINGERS.		Inches in Ship	Inches in Ship	20ths in Ship	Inches per Rule	Inches per Rule	20ths per Rule
<i>Bull</i> FRAME, Angles, or <i>2</i> Bars for $\frac{1}{2}$ length amidships		<i>5 1/2</i>	<i>1</i>	<i>8</i>				CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate		<i>Cellular</i>					
" Distance of frames from Moulding edge to moulding edge, all fore and aft			<i>23</i>					" Rider Plate		<i>double bottom</i>					
REVERSED FRAME Angles			<i>39</i>	<i>frames</i>				" Bulb Plate to Intercoastal Keelson							
REVERSED ANGLES on floors and frames extend								" Horizontal Plates on Floors							
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships								" Angles							
" height extended at the Bilges								SIDE KEELSON, Angles							
FLOORS AND BRACKETS in Cell Double Bottoms				<i>7</i>				" Bulb or Plate above floors, for length							
" Distance apart			<i>46</i>					" Intercoastal Plate for length							
CENTRE GIRDER, in Double Bottom, depth and thickness		<i>45</i>		<i>9</i>				" Attached to outside Plating with Angle							
" Angles, Top <i>1 1/2</i> x <i>3/4</i> Bottom <i>1 1/2</i> x <i>3/4</i>		<i>side bar</i>	<i>1 1/2</i>	<i>3/4</i>				BILGE KEELSON, Angles							
SIDE GIRDERS, number and thickness		<i>2</i>	<i>8</i>	<i>7</i>				" Bulb or Plate above floors, for length							
" Angles								" Intercoastal Plate for length							
MARGIN PLATE, depth (exclusive of flange) and thickness		<i>22 1/2</i>		<i>7</i>				" Attached to outside Plating with Angle							
" Angles		<i>3 1/2</i>	<i>3 1/2</i>	<i>7</i>				BILGE STRINGER, Angles							
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake		<i>54</i>		<i>8</i>				" Bulb Plate for length		<i>Plating string</i>					
" in Engine and Boiler Space		<i>7 1/2</i>	<i>8 1/2</i>	<i>7 1/2</i>				" Intercoastal Plate for length		<i>at ends</i>					
" Remainder in Holds		<i>7 1/2</i>	<i>8 1/2</i>	<i>7 1/2</i>				" Attached to outside Plating with Angle							
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		<i>7 1/2</i>	<i>3</i>	<i>9</i>				SIDE STRINGER, Angles							
" Angles on upper edge								" Bulb or Intercoastal Plate for length							
" Average space			<i>46</i>					" Attached to outside Plating with Angle							
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		<i>6</i>	<i>3</i>	<i>9</i>				Upper Deck Stringer Plate, on ends of Beams, breadth and thickness		<i>38</i>		<i>9</i>			
" Angles on upper edge								" Angle on ditto		<i>4 1/2</i>	<i>4 1/2</i>	<i>9</i>			
" Average space			<i>28</i>					" Flat of Deck, <i>Iron</i> Steel, for length		<i>4 1/2</i>	<i>4 1/2</i>	<i>9</i>			
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb		<i>9</i>	<i>3 1/2</i>	<i>13</i>				" Wood <i>Pine</i> Material & thickness				<i>3"</i>			
" Angles on upper edge								" How fastened to Beams							
" Average space			<i>46</i>					Middle Deck Stringer Plate, breadth and thickness		<i>36</i>		<i>10</i>			
BEAMS, Hold, or Orlop, Plate or Tee Bulb								" Diagonal Tie Plates on Beams, No. of pairs							
" Angles on upper edge								" Flat of Deck, <i>Iron</i> Steel, for length				<i>6</i>			
" Average space								" Wood <i>Pine</i> Material & thickness				<i>3"</i>			
BEAMS, Poop and Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb								Lower Deck Stringer Plate, breadth and thickness		<i>22</i>		<i>9</i>			
" Angles on upper edge								" Flat of Deck, Material & Thickness		<i>Pine</i>		<i>2 1/2</i>			
" Average space								Hold or Orlop Stringer Plate, breadth and thickness							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb								PLATING.							
" Angles on upper edge								FLAT PLATE KEEL, breadth and thickness		<i>Bar Keel</i>					
" Average space								" Doubling or inch thickness and length applied							
PILLARS, Hold		<i>2 1/2</i>						PLATES in Garboard Strakes, breadth and thickness		<i>54</i>		<i>11</i>			
PILLARS, Deck		<i>2 1/2</i>						" from Garboard to lower part of Bilges				<i>10</i>			
"		<i>2 1/2</i>						" Bilges, number of Strakes and thickness		<i>2</i>		<i>11</i>			
WEB FRAMES, in Fore Body, No. and spacing								" Of doubling at Bilge, and length applied							
" No. of Side Stringers								" from upper part of Bilge to lower edge of Sheerstrake				<i>10</i>			
"								" Sheerstrake, breadth and thickness		<i>46</i>		<i>12</i>			
WEB FRAMES, in After Body, No. and spacing								" Upper Sheerstrake		<i>48</i>		<i>9</i>			
" No. of Side Stringers								" Of doubling at Sheerstrake and length applied							
"								" Poop and Awning Decked Sides				<i>8</i>			
" Size of Angles or Tee Bars to Web Frames		<i>5</i>	<i>4</i>	<i>9</i>				" Bridge do.							
								" Forecastle do.							
								Bulkheads No. <i>6</i>							
								" Height up <i>4 1/2</i>							
								Thickness of <i>4 1/2</i>							
								" How secured to sides of ship							
								Size of Vertical Angle Irons <i>4 1/2</i> x <i>3</i>		<i>4 1/2</i>	<i>3</i>	<i>7</i>			
								" distance apart <i>30"</i>							
								Are the outside Plates doubled two spaces of Frames in length?							

RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES.

Edges of shell double riveted, Butts quadruple & treble - Stringer plates triple riveted half length.

GENERAL REMARKS (state quality of Workmanship and present condition of Vessel).

The workmanship throughout is good. This is a new vessel built in accordance with plans approved.

Surveyor's Signature

F. R. Norton