

## 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 "PANGAN" Port of Glasgow  
 Survey held at Whiteinch Glasgow Date, while building 1908-9  
 On the Steel S/S "PANGAN" Rig Schooner  
 ONE, OR TWO DECKED, THREE DECKED VESSEL, SPAR, OR AWNING-DECKED VESSEL.  
 Built at Whiteinch Glasgow  
 When built 1909 Off. No.  
 By whom built Messrs Barclay Curie & Co.  
 Owners East Asiatic Co. Ltd.  
 Port belonging to

Feet.  
 Half Breadth (moulded) .. .. . 23. 5  
 Depth from upper part of Keel to top of Upper Dk. Beams 20. 98  
 Girth of Half Midship Frame (as per Rule) .. .. 41. 75  
 1st Number .. .. . 86. 23  
 1st Number, if a 3-Decked Vessel deduct 7 ft.  
 Length .. .. . 328. 21  
 2nd Number .. .. . 28301  
 Proportions—Breadths to Length .. .. . 6.98  
 Depths to Length—Upper Deck to Keel .. .. . 11. 32  
 Main Deck ditto .. .. . 15. 64

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

FRAMING.				KEELSONS & STRINGERS.			
	Inches in Ship	Inches in Ship	20ths in Ship		Inches in Ship	Inches in Ship	20ths in Ship
FRAME, Angles, or 7 Bars for $\frac{1}{2}$ length amidships, <i>See double bottom</i>	5 $\frac{1}{2}$	3 $\frac{1}{2}$	8	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate .....			
" Distance of frames from Moulding edge to moulding edge, all fore and aft .....	4	3 $\frac{1}{2}$	7	" Rider Plate .....			
REVERSED FRAME Angles .....	7	3 $\frac{1}{2}$	8	" Bulb Plate to Intercoastal Keelson .....			
REVERSED ANGLES on floors and frames extend .....	3 $\frac{1}{2}$	3 $\frac{1}{2}$	7	" Horizontal Plates on Floors .....			
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships .....	6 $\frac{1}{2}$			" Angles .....			
" height extended at the Bilges .....				SIDE KEELSON, Angles .....			
FLOORS AND BRACKETS in Cell Double Bottoms .....	24		7	" Bulb or Plate above floors, for length .....			
" Distance apart .....				" Intercoastal Plate for length .....			
CENTRE GIRDER, in Double Bottom, depth and thickness .....	39		10	" Attached to outside Plating with Angle .....			
" Angles, Top .....	4	4	12	BILGE KEELSON, Angles .....			
SIDE GIRDERS, number and thickness .....	(2)		7	" Bulb or Plate above floors, for length .....			
" Angles .....	3 $\frac{1}{2}$	3 $\frac{1}{2}$	7	" Intercoastal Plate for length .....			
MARGIN PLATE, depth (exclusive of flange) and thickness .....	33		9	" Attached to outside Plating with Angle .....			
" Angles .....	3 $\frac{1}{2}$	3 $\frac{1}{2}$	9	BILGE STRINGER, Angles .....			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake .....	54		9	" Bulb Plate for length .....			
" in Engine and Boiler Space .....	2 $\frac{1}{2}$ x 12		20	" Intercoastal Plate for length .....			
" Remainder in Holds .....				" Attached to outside Plating with Angle .....			
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb .....	10	3 $\frac{1}{2}$	13	(2) SIDE STRINGER, Angles .....	6	4	12
" Angles on upper edge .....	48			" Bulb or Intercoastal Plate for full lng. .....			8
" Average space .....				" Attached to outside Plating with Angle .....			
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb .....	12 x 4 x 4		13	Upper Deck Stringer Plate, on ends of Beams, breadth and thickness .....	49		10
" Angles on upper edge .....	48			" Angle on ditto .....	4 $\frac{1}{2}$	4 $\frac{1}{2}$	10
" Average space .....				" Flat of Deck, Iron or Steel, for full length .....			7
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb .....				" Wood Material & thickness .....			Deck 2 $\frac{1}{2}$
" Angles on upper edge .....	48			" How fastened to Beams .....			Bolted to steel deck
" Average space .....				Middle Deck Stringer Plate, breadth and thickness .....	43		9
BEAMS, Hold, or Orlop, Plate or Tee Bulb .....				" Diagonal Tie Plates on Beams, No. of pairs .....			8
" Angles on upper edge .....				" Flat of Deck, Iron or Steel, for full length .....			
" Average space .....				" Wood Material & thickness .....			
BEAMS, Poop and Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb .....	9	3 $\frac{1}{2}$	9	Lower Deck Stringer Plate, breadth and thickness .....			
" Angles on upper edge .....	48			" Flat of Deck, Material & Thickness .....			
" Average space .....				Hold or Orlop Stringer Plate, breadth and thickness .....			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb .....	9	5 $\frac{1}{2}$	10				
" Angles on upper edge .....	48						
" Average space .....	5						
PILLARS, Hold .....	2 $\frac{3}{4}$						
PILLARS, Deck .....							
WEB-FRAMES, in Fore Body, No. and spacing .....							
" Breadth & Thickness .....							
" No. of Side Stringers .....							
WEB-FRAMES, in After Body, No. and spacing .....	alt double						
" Breadth & Thickness .....	Reverse frames						
" No. of Side Stringers .....	in 8 ft 3 in space						
" Size of Angles or Tee Bars to Web Frames .....	in 8 ft 3 in						

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

Shell plating Landing edge double riveted. Butts lapped & double riv<sup>d</sup> 1/2 L. Triple Riveted at ends.  
 Awning deck stringer & Main dk stringer, butts lapped and triple riveted full length.

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

Workman ship

Surveyor's Signature

J. M. Dwyer

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