

# IRON SHIP.

No. 442. Survey held at *Hamburg*. Date, First Survey *23<sup>d</sup> August*. Last Survey *1<sup>st</sup> September*, 1881.  
On the *Iron Barge "Tijuca"* Master *Antoine Biacabe*

TONNAGE under Tonnage Deck }  
Ditto of Third, Spar, or Awning Deck }  
Ditto of Poop, or Raised Or. Dk. }  
Ditto of Houses on Deck }  
Ditto of Forecastle }  
Gross Tonnage *853.63*  
Less Crew Space  
Less Engine Room  
Register Tonnage as cut on Beam } *826.55*

ONE, OR TWO DECKED, THREE DECKED VESSEL.  
SPAR, OR AWNING-DECKED VESSEL.  
HALF BREADTH (moulded)... .. *17.25*  
DEPTH from upper part of Keel to top of Upper Deck Beams *21.66*  
GIRTH of Half Midship Frame (as per Rule) *32.63*  
1st NUMBER ... .. *71.54*  
1st NUMBER, if a 3-DECKED VESSEL, deduct 7 feet  
LENGTH ... .. *178*  
2nd NUMBER ... .. *12734*  
PROPORTIONS—Breadths to Length ... .. *5 Quarter*  
Depths to Length—Upper Deck to Keel ... .. *8 Depths*  
Main Deck ditto ... ..

Built at *Nantes*  
When built *1866* Launched  
By whom built *Gouin (Paris)*  
Owners *Ant. Bon. Border*  
Port belonging to *Bordeaux*  
Destined Voyage *Australia*  
If Surveyed while Building, Afloat, or in Dry Dock, *B. Wenneke Sohn, Dry Dock.*

LENGTH on deck as per Rule... .. *178* Feet. Inches. BREADTH—Moulded... .. *34* Feet. Inches. DEPTH top of Floors to Upper Deck Beams... .. *19* Feet. Inches. Do. do. Main Deck Beams... .. *10* Feet. Inches. Power of Engines... .. Horse. N° of Decks with flat laid *Two* N° of Tiers of Beams *Two*

Dimensions of Ship per Register, length, *178* breadth, *34.5* depth, *21.66*  
KEEL, depth and thickness ... .. *8 - 3* Inches in Ship. Inches per Rule.  
STEM, moulding and thickness... ..  
STERN-POST for Rudder do. do. ... ..  
" for Propeller ... ..  
Distance of Frames from moulding edge to } *21 3/4* " moulding edge, all fore and aft ... ..  
FRAMES, Angle Iron, for  $\frac{1}{2}$  length amidships ... .. *4 1/2* 3 8. *4 1/2* 3 8.  
Do. for  $\frac{1}{2}$  at each end ... .. *7*  
REVERSED FRAMES, Angle Iron ... .. *3* 3 7. *3* 3 7.  
FLOORS, depth and thickness of Floor Plate } *22* 9 *22* 9  
at mid line for half length amidships ... ..  
thickness at the ends of vessel ... .. *9*  
depth at  $\frac{1}{2}$  the half-bdth. as per Rule ... .. *11*  
height extended at the Bilges... ..  
BEAMS, Upper, Spar, or Awning Deck } *8* 8 *8* 8  
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }  
Single, or double Angle Iron on Upper edge ... .. *2 3/4* *2 3/4* 6. *3* 3 6.  
Average space... .. *43 1/2*  
BEAMS, Main, or Middle Deck } *8* 8 *8* 8  
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }  
Single, or double Angle Iron, on Upper Edge ... .. *3* 3 6. *3* 3 6.  
Average space... .. *65*  
BEAMS, Lower Deck, Hold, or Orlop } *8* 8 *8* 8  
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }  
Single, or double Angle Iron on Upper Edge ... .. *3* 3 6. *3* 3 6.  
Average space... ..  
KEELSONS Centre line, single or double plate, } *14* 10 *14* 10  
box, or Intercoastal, Plates ... ..  
" Rider Plate ... .. *10* 10 *10* 10  
" Bulb Plate to Intercoastal Keelson ... ..  
" Angle Irons ... .. *4 1/2* 3 8. *4 1/2* 3 8.  
" Double Angle Iron Side Keelson ... ..  
" Side Intercoastal Plate ... ..  
" do. Angle Irons ... ..  
" Attached to outside plating with angle iron ... ..  
BILGE Angle Irons ... .. *4 1/2* 3 8. *4 1/2* 3 8.  
" do. Bulb Iron... ..  
" do. Intercoastal plates riveted to } *9* 8 *9* 8  
" plating for length ... ..  
BILGE STRINGER Angle Irons ... .. *4 1/2* 3 8. *4 1/2* 3 8.  
" Intercoastal plates riveted to plating for } *9* 8 *9* 8  
" reversed frames length ... ..  
SIDE STRINGER Angle Irons ... .. *4 1/2* 3 7.  
" between upper & middle deck. ... ..  
Transoms, material. Knight-heads. Hawse Timbers.  
Vindlass *wood 4 inches* Pall Bitt  
*Shipping found good.*

Flat Keel Plates, breadth and thickness ... ..  
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges *36* 10. *34* 10  
" of doubling at Bilge, or increased thickness, and length applied ... .. *44* 8-9 *8-9*  
" fm up. part of Bilge to l. edge of Sh'rstrake. *44* 8-9 *8-9*  
" Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake. *10* *10*  
" Up. or Spar Dk Sh'rstrake, brdth & thickness  
Butt Straps to outside plating, breadth & thickness *9* 9. *11*  
Lengths of Plating ... .. *130*  
Shifts of Plating, and Stringers... ..  
Gunwale Plate on ends of Awning Spar, or } *28* 8 *36* 10  
Upper Deck Beams, breadth and thickness... }  
Angle Iron on ditto ... .. *3 1/2* *3 1/2* 7. *4 1/2* 3 7.  
Tie Plates fore and aft, outside Hatchways ... ..  
Diagonal Tie Plates on Beams No. of Pairs *4* 9 8 *10* 8  
Planksheer material and scantling ... ..  
Waterways do. do. ... .. *3 1/2* *36*  
Flat of Upper Deck do. do. ... ..  
How fastened to Beams ... ..  
Stringer Plate on ends of Main or Middle Deck } *24* 8 *27* 7  
Beams, breadth and thickness ... ..  
Is the Stringer Plate attached to the outside plating? *No.*  
Angle Irons on ditto, No. ... .. *4 1/2* x *3* x *7* *36* 7  
Tie Plates, outside Hatchways ... .. *9* 8  
Diagonal Tie Plates on Beams, No. of pairs ... ..  
Waterways materials and scantlings ... ..  
Flat of Middle Deck do. do. ... .. *3*  
How fastened to Beams ... ..  
Stringer Plates on ends of Lower Deck, Hold or }  
Orlop Beams ... ..  
Is the Stringer Plate attached to the outside plating? ... ..  
Angle Irons on ditto, No. ... ..  
Stringer or Tie Plates, outside Hatchways ... ..  
Flat of Lower Deck ... .. *2 1/2* *26*  
Ceiling betwixt Decks, thickness and material ... ..  
" in hold do. do. ... ..  
Main piece of Rudder, diameter at head ... .. *5* *4 1/4* *4 3/4*  
do. at heel ... .. *3* *2 1/2*  
Can the Rudder be unshipped afloat? *Yes*  
Bulkheads No. 4. Thickness of  $\frac{1}{16}$  &  $\frac{6}{16}$   
" Height up *to main deck*  
" How secured to sides of ship *Double frame*  
" Size of Vertical Angle Irons *3 x 3 x 7/16* and distance apart *30* ins.  
" Are the outside Plates doubled two spaces of Frames in length? *Yes.*

The FRAMES extend in one length from *middle of keel* to *upper stringers*. Riveted through plates with  $\frac{3}{4}$  in. Rivets, about 6 apart.  
The REVERSED ANGLE IRONS on floors and frames extend *from middle line to upper stringers* and to *middle stringers* alternately  
KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? *Yes* And butts properly shifted? *Yes*  
PLATING. Garboard, double riveted to Keel, with rivets  $\frac{1}{8}$  in. diameter, averaging  $5 \frac{1}{8}$  ins. from centre to centre.  
" Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets  $\frac{1}{8}$  in. diameter, averaging 4 ins. from centre to centre.  
" Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets  $\frac{3}{4}$  in. diameter averaging  $3 \frac{1}{2}$  ins. from centre to centre.  
" Butts of 2 Strakes at Bilge for *half* length, *treble riveted* with Butt Straps *thicker* than the plates they connect.  
" Edges from bilge to Main Sheerstrake, worked clencher, double *or single* riveted; with rivets  $\frac{3}{4}$  in. diameter, averaging  $3 \frac{1}{2}$  ins. from cr. to cr.  
" Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets in. diameter, averaging ins. from cr. to cr.  
" Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.  
" Butts of Main Sheerstrake, *double* riveted for *whole* length amidships. Butts of Upper or Spar Sheerstrake, treble riveted length amidships.  
" Butts of Main Stringer Plate, *double* riveted for length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for length.  
" Breadth of laps of plating in double riveting 5" Breadth of laps of plating in single riveting 5"

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?  
Waterway, how secured to Beams (Explain by Sketch, if necessary.)  
Beams of the various Decks, how secured to the sides? No. of Breasthooks, Crutches,  
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.?  
Manufacturer's name or trade mark,  
The above is a correct description.  
Builder's Signature, Surveyor's Signature, *Ernest Taddaration*  
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