

## Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD - STEAM SHIPS.

Sir W. G. Armstrong, Whitworth &amp; Co. Ltd. No. 908.

Particulars relating to ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH  
GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR  
TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS  
CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE

Shelter Deck and tonnage opening at after end, 16-6 x 4-5½.

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
TAIROA	Southampton British	✓	✓	1920	100-A.1. Shelter Deck with Freeboard. (Contemplated)

Number in Register Book

Entered from Register.

Length. Breadth. Depth. Under Deck Tonnage.

448.0

63.2

31.25

4418.41

Length on Line.

444.09

Frame Depth 9

INSULATION

Ceiling + .20

RECTED Dimensions.

444.09

Rule " 4

Peak INSULATED

Sheer + .64

Sides Insulated

4-2 x 2

Tanks

DROP OF TANK TO

MARGIN = 1"

Sternpost 54

- .33

CORRECTION FOR

RISE OF TANK AT

FORE END =

Sheer (Stem 105 Sternpost 54) { 159 ÷ 2 = 79.5 Mean .64 ✓

Sheer at 1/2 of the length from Sternpost 30.5

89.0 ÷ 2 = 44.5

Mean

55 80.9

Gradual mean Sheer 79.5 + 80.9 = 80.2 ✓

Standard mean Sheer [Table, Para. 18]

54.7

Correction

22.5 ÷ 4 = 5.62

Difference - 5.31 ✓

§ If limited as Para. 18 (f)

- 5 1/4 ✓

Rise in Sheer { At front of bridge house.....

from amidships { Lowest point of Sheer Amidships.

[Para. 18 (e)] { At after end of forecastle.....

Fall in Sheer { Para. 18 (d) { ✓

Length uncovered ..... ✓ Correction

## ALLOWANCE FOR DECK ERECTIONS:

Freeboard, Table C. ....

Correction for Length, if required (Para. 12, 13, and 14) ....

Freeboard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) ....

Difference .....

Percentage as below.....

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) { ✓

Allowance for Deck Erections ..... ✓ - 2-6 1/2.

Length. Length allowed. Height.

Forecastle ..... 448.01 ..... 448.01 ✓

Bridge House OPENING ..... 4.45 ..... 4.45

+ Raised Q. Dk. ..... 24.33 ..... 24.33

Poop ..... 444.09 ..... 472.34 ✓

Total ..... 444.09 ..... 472.34

Length of Ship ..... 2-34 1/2 DIFF

Corresponding percentage { 94.5 ✓

(Para. 11, 12, 13, or 14) { 444.09 - 99.5 ✓

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck:

Fresh Water Line above centre of Disc

Indian Summer Line " " "

Winter Line below " "

Winter North Atlantic Line " "

If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

In vessels obtained an allowance for deck erections under Para. 11 where the shee drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.

In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

2m.7.19. T.

Port of Survey Newcastle-on-Tyne.

Date of Survey 17th Jan 1920

Name of Surveyor W.T. Hudson.

NOTE. — If the depth is measured when vessel is afloat, the details of measurement should be reported.

Moulded Depth as measured 34-4

Addition for Keel below base line for draught record 2 1/2 inches.

## CORRECTION FOR LENGTH.

Length of Ship or Loadline 444.09

Length in Table 412.0

Difference 65.09

Correction for 10ft, Table A. 1.4

x Difference divided by 10 11.06 (if required.)

If 1/6ths length covered divide by 2 5.63 = + 5 1/2 ✓

Table C. ✓

✓

## CORRECTION FOR IRON DECK.

Complete Shelter Deck.

Proportion covered, if less than 1/6ths length covered

- 3 1/2. ✓

Thickness of usual wood deck, less strainer

NOTE. — The round of beam should be reported on the full breadth of vessel at the gunwale.

## CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships 61.83

Round of Beam 11

Normal round 15 1/2

Difference ✓

Proportion of Deck uncovered (Para. 19) all covered.

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

Do all the Frames extend to the top height in the Poop *Shelter Deck* Raised Quarter Deck? *Yes.*  
 To what height do the Reverse Frames extend? *Channel Frames with reverse frames up to 2<sup>nd</sup> deck.*

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes.*

Give particulars of the means for closing the openings in Bulkhead *AT TONNAGE OPENING*

Is the Poop or Raised Quarter Deck connected with the Bridge House?

Has the Bridge House an efficient Bulkhead at the fore end? *No.*

Give particulars of the means for closing the openings in Bulkhead

What is the thickness of the Bridge Front plating? *✓* and Coaming plate? *✓*

Give scantlings and spacing of the stiffeners

Are bracket plates fitted at each end of the stiffeners? *✓*

Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *✓*

Has the Bridge House an efficient Iron Bulkhead at the after end? *AT TONNAGE OPENING*

How are the openings closed? *Openings 4'-0" closed with storm boards full height in riveted grooves and steel casings 10".*

Is the Forecastle at least as high as the main or top-gallant rail? *Shelter Deck.*

Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Yes.*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, & enclosed by a Strong Iron or Steel Deckhouse? *Yes.*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *Yes.*

Give thickness of plating; scantlings and spacing of stiffeners

What is the height of the exposed Casings? *✓*

Are suitable means provided for closing all openings in them in bad weather? *Yes.*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:

No 1 SHELTER DECK		No 2 SHELTER DECK		No 3 BRIDGE DECK		No 4 BRIDGE DECK		No 5 and 6 SHELTER DK		No 7 SHELTER DK	
Position and Size.	18'-0" x 16'-6"	23'-9" x 16'-6"	14'-3" x 16'-6"	7'-1" x 18'-0"	19'-0" x 16'-6"	16'-4" x 16'-6"					
Item.	Ship. (and as approved)	Ship. (and as approved)	Ship. (and as approved)	Ship. (and as approved)	Ship. (and as approved)	Ship. (and as approved)					
COAMING. Height above top of DECK	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"					
Thickness { Sides.....	*44	*44	*44	*44	*44	*44					
Thickness { Ends.....	*44	*44	*44	*44	*40	*44					
SHIFTING BEAMS OR WEB PLATES. { Number	3 Webs.	4 Webs.	3 Webs.	One Web	3 Webs.	3 Webs.					
SHIFTING BEAMS OR WEB PLATES. { Section and Scantlings .....	4x3x40 (Top & Bottom) 14x9x36.	Same as No.1.	Same as No.1	Same as No.1	Same as No.1	Same as No.1					
SHIFTING BEAMS OR WEB PLATES. { Material STEEL											
* FORE AND AFTERS. { Number	None	None	None	None	None	None					
* FORE AND AFTERS. { Section and Scantlings .....											
* FORE AND AFTERS. { Material											
HATCHES Thickness .....	3"	3"	3"	3"	3"	3"					
Remarks.....	fore + aft	fore + aft	fore + aft	fore + aft	fore + aft	fore + aft					

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *✓* Strake between Main and Bridge Sheerstrakes? *✓*

Delete the words { The Crew are not, berthed in the bridge house.  
that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well

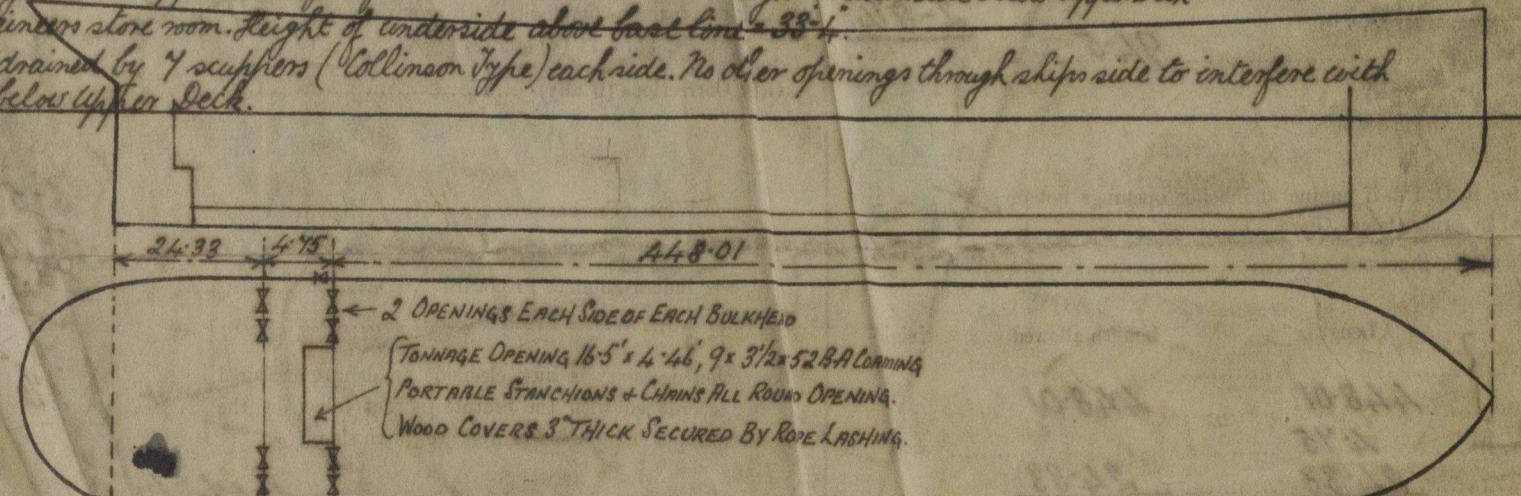
Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft. Tenths.	Ft. Tenths.	No.	Freeing Ports (ach side of vessel)	=	Sq. ft.
x	x	x			Sq. ft.

Height above base line to sill of lowest Mutton Port fitted  
between 2<sup>nd</sup> & Upper Deck and frames 60+62 = 28'-6". For position of remainder of

Mutton + Coalings Ports see approved Profile forwarded herewith. One sidelight on each side below Upper Deck  
in way of Engineers store room. Height of underside above base line = 33'-4".

Upper deck drained by 7 scuppers (Collinson type) each side. No other openings through ship's side to interfere with  
load line below Upper Deck.



WASH PORT EACH SIDE 2'-2 1/2" Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel. This vessel (Jard N° 908) is a Seater Vessel to *Shanavanga* (Jard N° 888), both vessels built by Messrs. G. Armstrong, Whitworth & Co. Ltd. Four approved plans are forwarded herewith; namely, Midship Section, Profile + Deck Plans, Plan of Hatches, and Arrangement of Owners *Shaw, Savill + Albion Ltd.*

Address London.

Fee £ 8 : 8 : 0.

Received by me 6/8/20

Please return plan as soon as possible with

W.M.

Lloyd's Register Foundation