

VERIFICATION REPORT.

FORM No. 9 ATTACHED

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Index No. **28420**
(For London Office only.)
TUE. APR. 30 1921

PARTICULARS RELATING TO ~~THE~~ STEAM SHIP ~~EITHER FLUSH DECKED, OR WITH~~
~~TWO GAINT FORECASTLES, SHORT POOP, AND BRIDGE HOUSE, DISCONNECTED,~~
~~WITH OR WITHOUT GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS~~
~~CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.~~

Port of Survey Sunderland
Date of Survey 26/3/21 While building
Name of Surveyor James Dickie

J.P. Austin & Son No 293.

Ship's Name. <u>S.S. "ZELO."</u>	Port of Registry and Nationality. <u>Newcastle British.</u>	Official Number. <u>145457</u>	Gross Tonnage. <u>2294.42</u>	Date of Build. <u>1921.</u>	Particulars of Classification. <u>*100A1. CONTEMPLATED.</u>
Number in Register Book <input checked="" type="checkbox"/>					

Registered dimensions from Ship's Register.	LENGTH. <u>308'0"</u>	BREADTH. <u>43'0"</u>	DEPTH. <u>19'75"</u>	UNDER DECK TONNAGE. <u>2011.85</u>
Length on LOADLINE.	<u>307.16</u>	Frame Depth Rule <u>9'</u> Ceiling Rule <u>5'</u> Sheer <u>+74</u>	Peak Tanks } INCLUDED	
CORRECTED DIMENSIONS.	<u>307.16</u>	<u>42.34</u> <i>42</i>	<u>20.69</u>	<u>2011.85</u>

Moulded Depth as measured..... 22'0"
Wood deck ten stringer. - 3 1/2"
21'8 1/2"

Addition for Keel below base line for draught record..... 1 3/4 inches.

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

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>307.16</u>
Length in Table	<u>260.5</u>
Difference	<u>46.66</u>
Correction for 10ft., Table A.	<u>1.2</u>
Table C.	<u>.6</u>
× Difference divided by 10	<u>5.59</u> (if required.)
If 1/10ths length covered divide by 2	<u>+ 5 1/2</u>
	<u>+ 2 3/4</u>

Co-efficient of fineness..... .75 *.746*
Any modification necessary [Para. 4 (a) to (e)]* 6.5.13. - .02
Co-efficient as corrected73

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered385
Thickness of usual wood deck, less stringer Correction in Moulded Depth.

Sheer { Stem..... 90 } 135 ÷ 2 = 67.5 Mean 37.125 *37.5*
at { Sternpost ... 45 }
Sheer at 1/2 of the length from { Stem 49.50 } 74.25 ÷ 2 = 37.125 Mean
{ Sternpost 24.75 }
Gradual mean Sheer 67.5
Standard mean Sheer [Table, Para. 18] 40.7 Correction
Difference..... 26.8 ÷ 4 = 6.70
§ If limited as Para. 18 (f) - 6 3/4

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 42.0
Round of Beam 10 1/2
Normal round..... 10 1/2
Difference ✓ ÷ 2 = ✓
Proportion of Deck uncovered (Para. 19) ✓

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

Rise in Sheer { At front of bridge house..... ✓
from amidships { At after end of forecastle ✓
[Para. 18 (e)]

¶ Fall in Sheer {
Para. 18 (d) } ÷ 2 = Lowest point of sheer
Length uncovered amidships. Correction

Freeboard, Table A	<u>4' 3 1/4"</u>
Correction for Sheer	<u>- 6 3/4"</u>
Correction for Length	<u>3' 8 1/2"</u>
Allowance for Deck Erections	<u>+ 5 1/2"</u>
Correction for Round of Beam.....	<u>4' 2"</u>
Correction for fall in Sheer (if any).....	<u>- 6 3/4 1/2"</u>
Correction for Iron Deck (if required)	<u>3' 7 1/4 1/2"</u>

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	<u>1' 7 3/4 8"</u>
Correction for Length, if required (Para. 12, 13, and 14)	<u>+ 2 3/4"</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>1' 10 1/2 3/4"</u>
Difference	<u>4' 2"</u>
Percentage as below.....	<u>2' 3 1/2 1/4"</u>
	<u>- 6 3/4 24 1/2 6.54"</u>

Additions for non-compliance with provisions of Para. 11 (d) and (e) † ✓
Other Corrections (if any) ✓

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) ✓
Allowance for Deck Erections - 6 1/2"

Winter Freeboard	<u>3' 7 1/4 1/2"</u>
Summer Freeboard	<u>3' 4 1/4 1/2"</u>
Indian Summer Freeboard	<u>3' 1 1/4 1/2"</u>
N. A. Winter Freeboard	<u>3' 9 1/4 1/2"</u>

Length.	Length allowed.	Height.
Forecastle..... <u>29'0"</u>	<u>29.0</u>	<u>7.5</u>
Bridge House (including 2'0" Plank over Each End.) <u>66'0"</u>	<u>64.5</u>	<u>7.5</u>
† Raised Qr. Dk..... <u>✓</u>	<u>✓</u>	<u>✓</u>
Poop..... <u>25.0</u>	<u>25.0</u>	<u>7.5</u>
Total	<u>118.5</u>	<u>38.56</u>
Length of Ship	<u>307.16</u>	

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the WOOD or STEEL deck with side.

Corresponding percentage (Para. 11, 12, 13, or 14) } 24 1/2 ✓

Winter Freeboard from deck line	<u>3' 9 1/4 1/4"</u>
Summer " " " "	<u>3' 6 1/4 1/4"</u>
Indian Summer " " " "	<u>3' 3 1/4 1/4"</u>
N. A. Winter " " " "	<u>3' 11 1/4 1/4"</u>

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, STEEL Deck:—

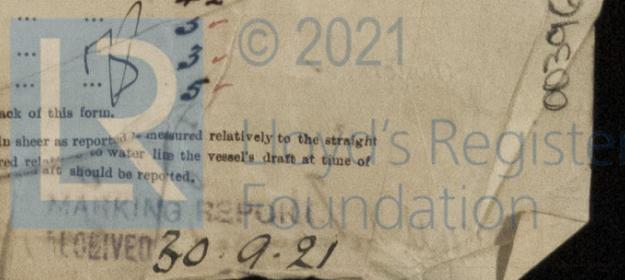
Fresh Water Line above centre of Disc	<u>4 1/2"</u>
Indian Summer Line " " " "	<u>5"</u>
Winter Line below " " " "	<u>3"</u>
Winter North Atlantic Line " " " "	<u>5"</u>

Winter Freeboard from deck line 3' 9 1/4 1/4"
Summer " " " " 3' 6 1/4 1/4"
Indian Summer " " " " 3' 3 1/4 1/4"
N. A. Winter " " " " 3' 11 1/4 1/4"

If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
The height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
The total standard mean sheer means the sheer measured at the stem and sternpost of vessels having poops and forecastles. It means the sheer measured at points distant 1/10th of the vessel's length from stem and sternpost.

† State dimensions of freeing port area on back of this form.
The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to the water line the vessel's draft at time of survey, and also the usual load draft for the vessel, should be reported.

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Do all the Frames extend to the top height in the Poop? *Yes* Raise Quarter Deck? Bridge House? *Alternately* Forecastle?

To what height do the Reverse Frames extend? *Bulb angle framing*

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 *no openings.*

Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead *no openings*

What is the thickness of the Bridge Front plating? *3/16* and Coaming plate? *4/10*

Give scantlings and spacing of the Stiffeners *7 x 3 x 5/16 bulb angles, spaced 30" apart.*

Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes.*

Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*

How are the openings closed? *Shifting boards full height in raked channels. Two openings 5'3" x 3'.*

Is the Forecastle at least as high as the main or top-gallant rail? *Yes* 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, or 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?

Give thickness of plating; scantlings and spacing of Stiffeners

What is the height of the exposed Casings? *9'0" x 3'6"* 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:— *Yes. As approved.*

Position and Size.		N ^o 1-32'0" x 24'6" - 14'0"		N ^o 2-34'0" x 26'0"		N ^o 3-38'0" x 26'0"		N ^o 4-38'0" x 25'0" - 18'6"		Ship.	Rule.	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.			
COAMING	Height above top of DECK	42"	42"	42	42	42	42	42	42			
	Thickness	Sides.....	.50	.50	.50	.50	.50	.50	.50	.50		
		Ends.....	.44	.44	.44	.44	.44	.44	.44	.44		
SHIFTING BEAMS OR WEB PLATES	Number.....	3	3	3	3	3	3	3	3			
	Section and Scantlings	30 x 44 Cmbt. 19 x 44 Sides.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.			
	Material.....	Steel.										
* FORE AND AFTERS	Number.....	5	5	5	5	5	5	5	5			
	Section and Scantlings	35 x 3 1/2 x 50 3 x 3 x 40 + Plate 12 x 50 + 9 x 3 1/2 x 50 3 x 3 x 40	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.	Same as N ^o 1.			
	Material.....	Steel	Steel									
HATCHES	Thickness.....	3	3	3	3	3	3	3	3			
Remarks.....				Satisfactory								

* 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?*

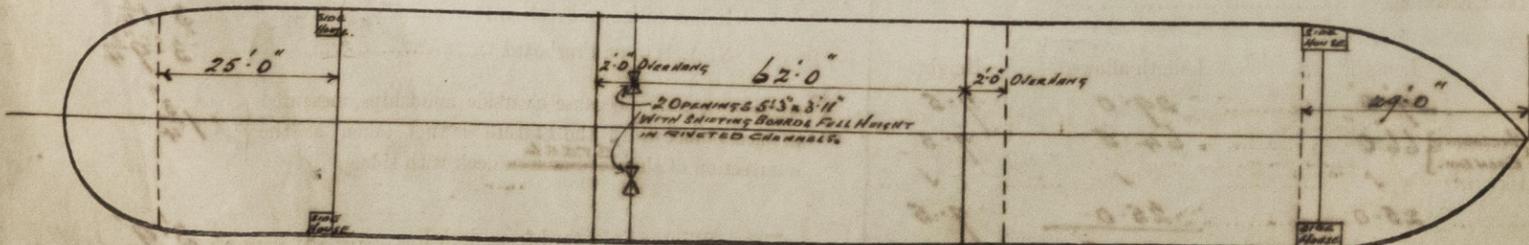
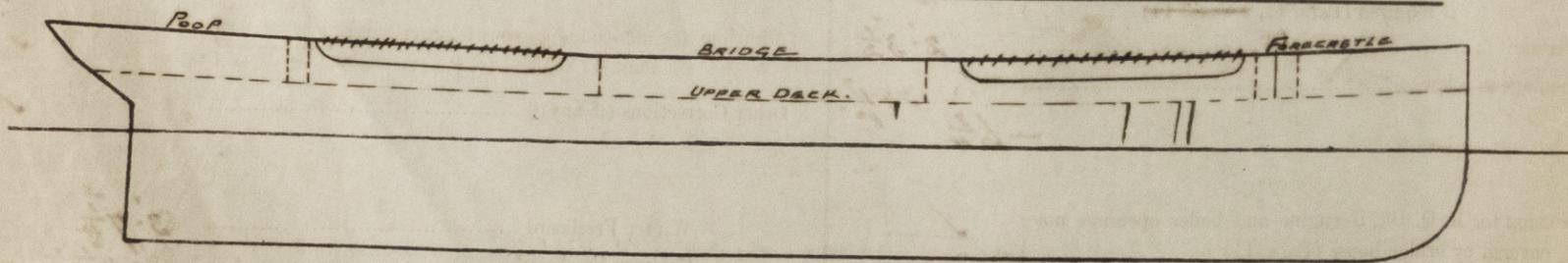
Delete the words { The Crew are, are not, berthed in the bridge house. that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well

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

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = Sq. ft.

Total deficiency or excess = Sq. ft.



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 *Preliminary Assignment dated 28th November 1919.*
Copies of approved plans are in the London Office.

Owners
 Address

Fee £ *7 : 0 : 0* received by me
Will be charged on completion



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