

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

WED. 14 DEC. 1920

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey NEWCASTLE-ON-TYNE

Date of Survey November 1920

Name of Surveyor [Signature]

Table with columns: Ship's Name (THORNHURST), Port of Registry (London), Official Number (145013), Gross Tonnage (2116), Date of Build (1905), Particulars of Classification (+100 A1. Can templated)

Table with columns: Registered Dimensions from Ship's Register, Length (277.8), Breadth (41.2), Depth (18.0), Under Deck Tonnage (1683.14), Length on LOADLINE (275.5), Rule (5/3 1/2), Corrected DIMENSIONS (275.5, 40.62, 18.54, 1683.14)

Moulded Depth as measured 20-6, Addition for Keel below base line for draught record 1 3/8 inches

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

Handwritten notes: 20-6, 18-1/2

CORRECTION FOR LENGTH.

Table for length corrections: Length of Ship on Loadline (275.5), Length in Table (246), Difference (29.5), Correction for 10ft., Table A (1.2), Table C (3.54), If 1/10ths length covered divide by 2 (1.77 + 1 3/4)

CORRECTION FOR IRON DECK.

Table for iron deck corrections: Proportion covered, if less than 1/10ths length covered (0.695), Thickness of usual wood deck, less stringer (3 1/2)

CORRECTION FOR ROUND OF BEAM.

Table for round of beam corrections: Breadth at Gunwale amidships (40-5), Round of Beam (10"), Normal round (10 1/8), Difference (1/8), Proportion of Deck uncovered (Para. 19)

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

Co-efficient of fineness .811, Any modification necessary [Para. 4 (a) to (e)]* 60.93, Co-efficient as corrected .79

Sheer (Stem 6-0, Sternpost 3-0) 108 / 2 = 54 Mean, Sheer at 1/2 of the length from (Stem 3-6, Sternpost 1-4) 58 / 2 = 29 Mean, Gradual mean Sheer 52.73, Standard mean Sheer [Table, Para. 18] 37.55, Difference 15.18, § If limited as Para. 18 (f) - 3 3/4

Rise in Sheer from amidships (Para. 18 (e)) At front of bridge house, At after end of forecastle, Fall in Sheer (Para. 18 (d)) / 2 =, Length uncovered, Correction

ALLOWANCE FOR DECK ERECTIONS :-

Table for allowance for deck erections: Freeboard, Table C (1-6 1/4), 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) (3-9 1/2), Difference (2-3 1/4), Percentage as below (46.3%), Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11), Allowance for Deck Erections (1-0 1/2)

Table for freeboard measurements: Forecastle (34-6, 34.5, 7-0), Bridge House (66-0, 66, 7-0), Raised Qr. Dk. (76-0 x 4.33 = 61.43, 7-0), Poop (15-0, 15, 7-0), Total (191.5, 176.93), Length of Ship (275.5, 275.5 = .642), Corresponding percentage (Para. 11, 12, 13, or 14) (46.3%)

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, W (Iron) Deck :- Fresh Water Line above centre of Disc, Indian Summer Line, Winter Line below, Winter North Atlantic Line

Table for freeboard calculations: Freeboard, Table A (4-1 1/2), Correction for Sheer (- 3 3/4), Correction for Length (+ 1 3/4), Allowance for Deck Erections (- 1-0 1/2), Correction for Round of Beam, Correction for fall in Sheer (if any), Correction for Iron Deck (if required) (- 3 1/2), Additions for non-compliance with provisions of Para. 11 (d) and (e) †, Other Corrections (if any)

Table for winter freeboard: Winter Freeboard (2-7 1/4), Summer Freeboard (2-4), Indian Summer Freeboard (2-0 3/4), N. A. Winter Freeboard (2-10 1/4), Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side (1 1/2)

Table for winter freeboard from deck line: Winter Freeboard from deck line (2-8 3/4), Summer (2-5 1/2), Indian Summer (2-2 1/4), N. A. Winter (2-11 3/4)

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

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.



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Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *Yes* Bridge House? *no (cut)* Forecastle? *Cut r/bkts at main dk & then 1/2 dk*

To what height do the Reverse Frames extend? *Build angle frames. Rev up to only to U. & R. 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 *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? *7/16* and Coaming plate? *8/16*

Give scantlings and spacing of the Stiffeners *Bas 7x3 1/2 x 1/16 spaced 24"*

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

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

How are the openings closed? *no openings*

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 and 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? *Yes*

Give thickness of plating; scantlings and spacing of Stiffeners *✓*

What is the height of the exposed Casings? *Skylight 20"* Are suitable means provided for closing all openings in them in bad weather? *steel flaps with*

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*

Position and Size.	No 1. 26-0x16-0		No 2. 28-0x16-0		No 3. 24-0x16-0		No 4. 24-0x16-0		Ship.	Rule.
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	29" at centre to under side of cover.		all alike						
	Thickness	Sides	9/16	10/16	9/16	9/16	9/16	8/16		
		Ends	9/16	8/16	8/16	8/16	8/16	8/16		
SHIFTING BEAMS OR WEB PLATES.	Number	Two in each hatchway								
	Section and Scantlings	7/8 web plate 2'-9" x 9/16		Bottom angle do.		all steel plates angle.				
	Material	1/2 top angle 3x3 1/2								
* FORE AND AFTERS.	Number	Three		all alike						
	Section and Scantlings	7x7								
	Material	Pilot pine								
HATCHES	Thickness	2 1/2 and 3"		do		do		do		
	Remarks	W. pine								

* 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 not satisfactory.* (no gangway in at present.)

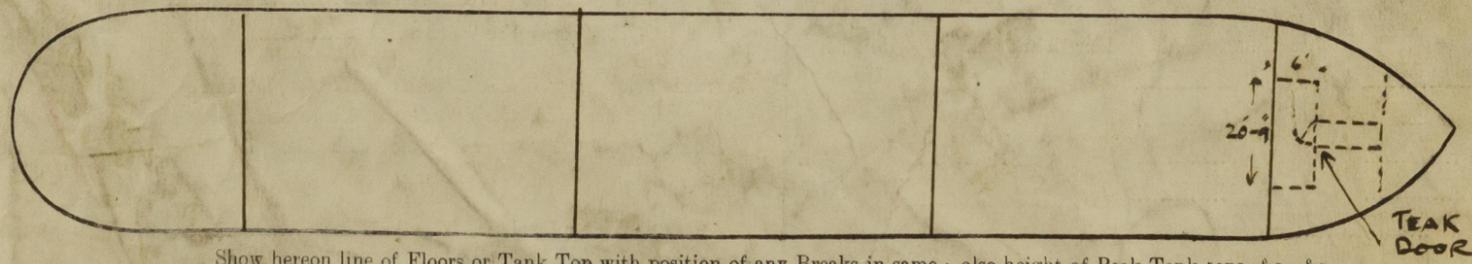
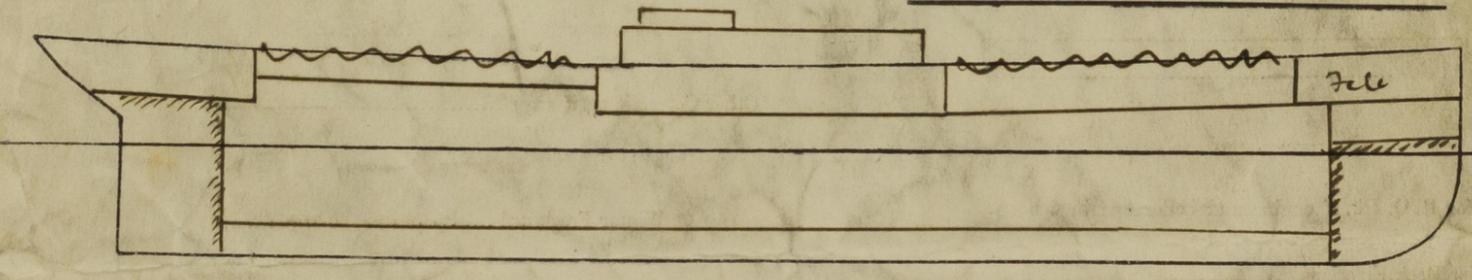
Length of Bulwarks in well *86' fwd. 76' aft.*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *17.2* Sq. ft.

Ft. Tenth.	Ft. Tenth.	No.	} Freeing Ports (each side of vessel) = <i>36.0</i> Sq. ft.
<i>fwd 3.0</i>	<i>x 2.0</i>	<i>x 3</i>	
<i>aft 3.0</i>	<i>x 2.0</i>	<i>x 3</i>	

Total deficiency or excess = *.8* Sq. ft.

gangway not required well over 80ft.



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 *Plans forwarded herewith.*

Owners _____
 „ Address _____

Fee £ *13. 0. 0.* Received by me *15/12/20* ch. 21.
4. 4. 0. in accordance with letter from. Nov. 13/12/20.

