

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

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-TYNEDate of Survey November 1920Name of Surveyor Amble

Ship's Name THORNBURY
EX ENGINE KOPPIN.
 Number in Register Book 145013
 Port of Registry and Nationality. London
 Official Number. 145013
 Gross Tonnage. 2116
 Date of Build. 1905
 Particulars of Classification. +100 A1. Can templated

Registered Dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
Length on LOADLINE.	277.8	41.2	18.0	1683.14
			18.126 tank	
			Frame Depth $8\frac{1}{2}$ Ceiling 4.42	Peak Tanks
			Rule $\frac{5}{3\frac{1}{2}}$	
			— .58	
CORRECTED DIMENSIONS.	275.5	40.62	18.54	1683.14

Co-efficient of fineness..... .811
 Any modification necessary } 6.0.0.0.
 [Para. 4 (a) to (e)]*
 Co-efficient as corrected79 +0.08

Sheer { Stem..... 6-0 } 108 ÷ 2 = 54 Mean 36/15.18
 at { Sternpost 3-0 }
 Sheer at $\frac{1}{2}$ of the length from { Stem 3-6 } 58 ÷ 2 = 29 Mean 58
 { Sternpost 1-4 }
 Gradual mean Sheer 52.73 = 52.73
 Standard mean Sheer [Table, Para. 18] 37.55 Correction
 Difference..... 15.18 4 = 3.4
 § If limited as Para. 18 (f) - 3.4

Rise in Sheer { At front of bridge house.....
 from amidships {
 [Para. 18 (e)] { At after end of forecastle
 Fall in Sheer }
 Para. 18 (d) } $\div 2 =$
 Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 1-6 $\frac{1}{4}$
 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 $\frac{1}{2}$
 Difference 2-3 $\frac{1}{4}$
 Percentage as below..... 46.3%
12.61

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }
 Allowance for Deck Erections 1-0 $\frac{1}{2}$

	Length.	Length allowed.	Height.
Forecastle.....	<u>34-6</u>	<u>34.5</u>	<u>7-0</u>
Bridge House.....	<u>66-0</u> <u>3.5</u>	<u>66</u>	<u>7-0</u>
Raised Qr. Dk.....	<u>76-0</u> <u>4.33</u>	<u>61.43</u>	<u>3-6</u>
Poop.....	<u>15-0</u>	<u>15</u>	<u>7-0</u>
Total	<u>191.5</u>	<u>176.93</u>	
Length of Ship	<u>275.5</u> <u>.695</u>	<u>275.5</u>	<u>.642</u>

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:—

7.12.20
 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 obtaining an allowance for deck erections under Para. 11 where the sheer 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.

Moulded Depth as measured..... 20-6
 Addition for Keel below base line for draught record..... 1.38 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..... 275.5
 Length in Table 246
 Difference 29.5
 Correction for 10ft., Table A. 1.2 Table C.
 × Difference divided by 10 3.54 (if required.)
 If $\frac{1}{10}$ ths length covered divide by 2 1.77 + 1 $\frac{3}{4}$

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered695
 Thickness of usual wood deck, less stringer 3 $\frac{1}{2}$

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 40-5
 Round of Beam..... 10"
 Normal round..... 10 $\frac{1}{8}$
 Difference $\div 2 =$
 Proportion of Deck uncovered (Para. 19)

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

Freeboard, Table A 4-1 $\frac{1}{2}$
 Correction for Sheer - 3 $\frac{3}{4}$
 Correction for Length + 1 $\frac{3}{4}$
 Allowance for Deck Erections - 1-0 $\frac{1}{2}$
 Correction for Round of Beam.....
 Correction for fall in Sheer (if any).....
 Correction for Iron Deck (if required) - 3 $\frac{1}{2}$
2-7 $\frac{1}{4}$
 Additions for non-compliance with provisions of {
 Para. 11 (d) and (e) † {
 Other Corrections (if any)

Winter Freeboard 2-7 $\frac{1}{4}$
 Summer Freeboard 2-4
 Indian Summer Freeboard 2-0 $\frac{3}{4}$
 N. A. Winter Freeboard 2-10 $\frac{1}{4}$

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 $\frac{1}{2}$

Winter Freeboard from deck line 2-8 $\frac{3}{4}$
 Summer " " " " 2-5 $\frac{1}{2}$
 Indian Summer " " " " 2-2 $\frac{1}{4}$
 N. A. Winter " " " " 2-11 $\frac{3}{4}$

Winter Freeboard from deck line 2-5 $\frac{1}{2}$

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 water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

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

To what height do the Reverse Frames extend? *Built angle frames. Run up fore only to U. & R. G. 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 *B&S 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 after 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 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? *20" skylight* 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	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	Sides.....	29" at centre to		under side of cover.		all alike			
	Thickness	9/16		10/16		9/16		9/16	
	Ends.....	9/16		8/16		8/16		8/16	
SHIFTING BEAMS OR WEB PLATES.	Number	Two in each hatchway							
	Section and Scantlings	7/16 web plate 2'-9" x 9/16							
	Material	1/2" top angle 3x3x1/16 Bottom angle do.						all steel plate angles.	
* FORE AND AFTERS.	Number	Three							
	Section and Scantlings	7x7		all alike					
	Material	Piloth 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~~, 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. (no gangway in at present.)

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

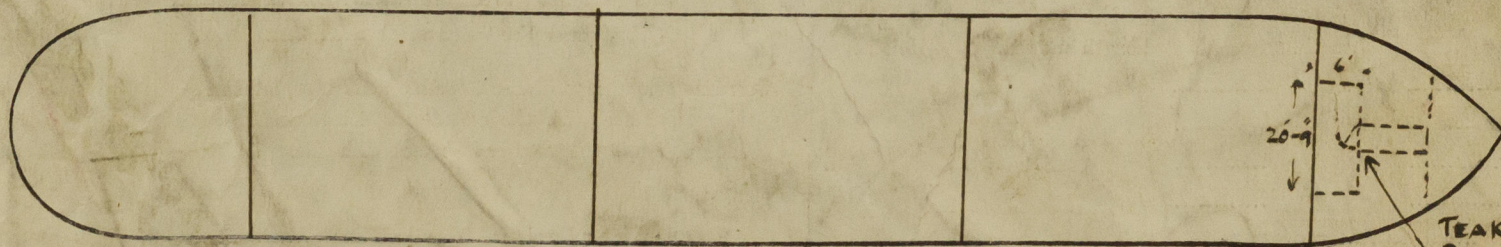
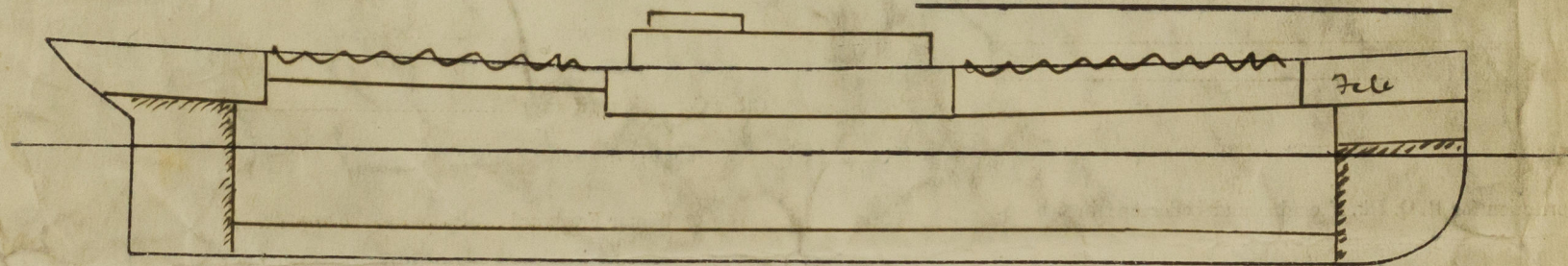
Area of Freeing Ports required by Para. 11 (e) each side of vessel = *17.2* Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *18.0* Sq. ft.

Fwd 3.0 x 2.0 x 3

Aft 3.0 x 2.0 x 3

Total deficiency or excess = *.8* 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

Plans forwarded herewith.

Owners

Address

Fee £ *13. 0. 0.*

Received by me *15/12/20* *ash. 21.*

4. 4. 0. in accordance with Letter from. Nov. 13/12/20.



© 2021

Lloyd's Register Foundation