

Lloyd's Register of British & Foreign Shipping.
SURVEYS FOR FREEBOARD.—STEAM SHIPS.16647
23665PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH-DECKED, OR WITH
TALLANT 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 *Port Glasgow.*Date of Survey *Built under Special Survey.*Name of Surveyor *Robt Howie.*

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<i>S.S. "ROTHEN"</i> <i>Imps. The Clyde S.S. & Eng. Co. Ltd. 308</i> Number in Register Book <i>63. in Supp.</i>	<i>Goole</i> <i>British</i>	<i>128883</i>	<i>986</i>	<i>1914.</i>	<i>+ 100A1 (Class contemplated)</i>

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<i>34'0"</i>	<i>34'15"</i>	<i>15'35"</i> <i>2 1/2 ft. from top of c. to s. 1'21"</i> <i>14'14"</i>	<i>816.66</i>
Length on LOADLINE.	<i>339.66</i>	Frame Depth <i>6"</i> Rule <i>" 4"</i> <i>= - .33</i>	Ceiling <i>fitted.</i> Sheer <i>+ .24.</i> <i>Level tank</i>	Peak } Includes Tanks } above. <i>tonnage from top of ordnance floor to top of c. D.B.</i> <i>33'75" + 27'21"</i> <i>100 - 11'03."</i>
CORRECTED DIMENSIONS.	<i>339.66</i>	<i>33'82"</i>	<i>14'38"</i>	<i>805.63.</i>

Co-efficient of fineness..... *.69* ✓
Any modification necessary }
[Para. 4 (a) to (e)]* *Cell D.B. = .02.*
Co-efficient as corrected *.67* ✓Sheer { Stem..... *60"*
at { Sternpost ... *18"* } $78 \div 2 = 39$... Mean
Sheer at $\frac{1}{2}$ of the length from { Stem *36"*
Sternpost *11"* } $47 \div 2 = 23.5$... Mean
Gradual mean Sheer *at ends 42.73*
Standard mean Sheer [Table, Para. 18] *30.37* ✓ Correction
Difference..... $3.13 \div 4 = .78$
§ 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 forecastleFall in Sheer {
Para. 18 (d) } $\div 2 =$
Length uncovered *nil* Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... *7.33* *- 7 1/4"* ✓
Correction for Length, if required (Para. 12, *13, and 14*) *+ 2 1/4"* ✓
9.51 *- 9 1/2"* ✓
Freeboard by Table A, corrected for sheer, and for length, }
if required (Para. 12, *13, and 14*) *3 - 0.36* } *3' - 0 1/4"* ✓
Difference *2 - 2.85* *2' - 2 3/4"* ✓
Percentage as below..... *31.20* %Correction for R. Q. Dk. if engine and boiler openings not }
covered by bridge house (Para. 11) } ✓
Allowance for Deck Erections *- 8 1/4"* ✓

	Length.	Length allowed.	Height.
Forecastle.....	<i>35.29</i>	<i>33.18</i> ✓	<i>7'3"</i>
Bridge House	<i>88.12</i>	<i>65.15</i> ✓	"
† Raised Qr. Dk.....	<i>37.5</i>	<i>18.75</i> ✓	"
Poop.....			

Total *117.08* ✓ *= 488.5*Length of Ship *239.66*Corresponding percentage {
(Para. 12, 13, or 14) } *31.20* %

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	"	"	"	"	"

Moulded Depth as measured..... *16'4"*
17'0"
2 - 10 1/2"
14"

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..... *339.66* ✓
Length in Table *196.00* ✓
Difference *43.66* ✓
Correction for 10ft., Table A. *1.0* Table C. *.50* ✓
× Difference divided by 10 *4.36* ✓ (if required.) *2.18 + 2 1/4"*
If $\frac{1}{10}$ ths length covered divide by 2 *+ 4 1/4"*CORRECTION FOR IRON DECK
Proportion covered, if less than $\frac{1}{10}$ ths length covered *15.490*
Thickness of usual wood deck, less stringer *3"*
(Steel deck amidships) *2.76* *- 3" 2 1/4"*

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... *34'*
Round of Beam *8 1/2"*
Normal round..... *8 1/2"*
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 *2 - 8.0* *2' - 8"* ✓
Correction for Sheer *- .78* *- 3/4"* ✓
2 - 7.22 *2' - 7 1/4"* ✓
Correction for Length *+ 4.36* *+ 4 1/4"* ✓
2 - 11.58 *2' - 11 1/2"* ✓
Allowance for Deck Erections *8.38* *- 8 1/4"* ✓
2 - 3.20 *2' - 3 1/4"* ✓
Correction for Round of Beam..... ✓Correction for fall in Sheer (if any)..... ✓
Correction for Iron Deck (if required) *2.76* *3 1/2"* ✓
2 - 0.44 *2' - 0 1/4"* ✓Additions for non-compliance with provisions of }
Para. 11 (d) and (e) † }

Other Corrections (if any) ✓

Winter Freeboard *2 - 0 1/4"* ✓
Summer Freeboard *1 - 10 1/4"* ✓
Indian Summer Freeboard ✓
N. A. Winter Freeboard ✓Correction necessary because clearside amidships, measured }
in accordance with the Statute is not taken at the }
intersection of the wood (iron) deck with side.Winter Freeboard from deck line *2 - 1 1/4"* ✓
Summer " " " *2 - 1 1/4"* ✓

Indian Summer " " " ✓

N. A. Winter " " " *2 - 0"* ✓Steel Deck (Iron) Deck:— *2' - 0"* ✓Fresh Water Line above centre of Disc *3 1/2"* ✓Indian Summer Line " " " *2* ✓Winter Line below " " " *2* ✓Winter North Atlantic Line " " " *2* ✓* 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 sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one eighth 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 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? *Alt. frames Raised Quarter Deck? Hangers' R.B.H. as per approved plans.* Bridge House? *Alt. frames Forecastle? Alt. frames*

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

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *no*

Give particulars of the means for closing the openings in Bulkhead *Open*

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 *Wood shifting boards, full height, fitted into channels which are riveted*

What is the thickness of the Bridge Front plating? *30* and Coaming plate? *34*

Give scantlings and spacing of the Stiffeners *7 x 3 x 44 B.A. spaced 30"*

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

Has the Bridge House an efficient Iron Bulkhead at the after end? *no*

How are the openings closed? *Open (see sketch)*

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? *no (see sketch)*

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

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.		N ^o 1 - 15' x 11'		N ^o 2 - 24' 4 1/2" x 11'		N ^o 3 - 24' 4 1/2" x 11'					
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"	30"	30"	30"	30"	30"	30"			
	Sides.....	40	40	46	46	46	46				
	Thickness { Ends.....	36	36	40	40	40	40				
SHIFTING BEAMS OR WEB PLATES.	Number	2	2	4	4	4	4				
	Section and Scantlings	16 to 12 x 34	16 to 12 x 34	16 to 12 x 34	16 to 12 x 34	16 to 12 x 34	16 to 12 x 34				
	Material	3 x 3 x 40	3 x 3 x 40	3 x 3 x 40	3 x 3 x 40	3 x 3 x 40	3 x 3 x 40	<i>at ends of all web plates.</i>			
* FORE AND AFTERS.	Number										
	Section and Scantlings	<i>no fore and afters</i>									
	Material										
HATCHES Thickness		<i>All hatch covers 3" thick, white pine</i>									
Remarks.....											

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.

(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 (e) each side of vessel =

Sq. ft.

Ft. Tenths. Ft. Tenths. No.

x

x

Freeing Ports (each side of vessel) =

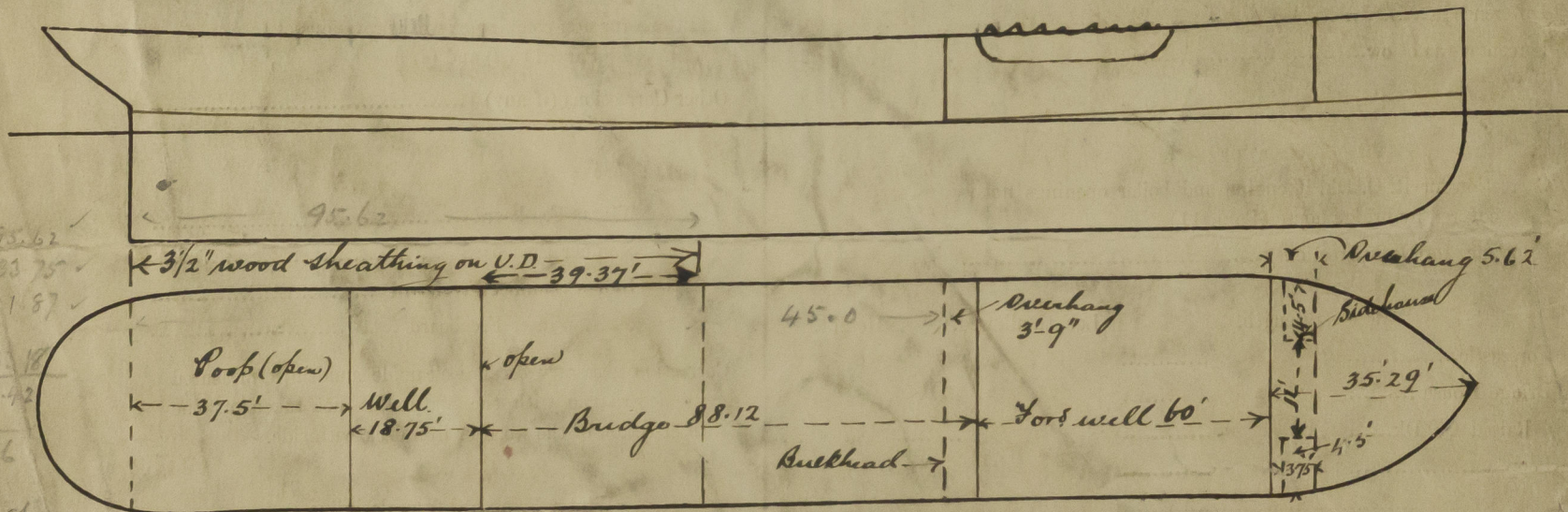
Sq. ft.

x

x

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, *This vessel has been built in accordance with the two approved plans forwarded herewith for reference. Please see copy of London Freeboard Report dated 10th June 1913. Freeboard Request Form forwarded herewith. (See also S.S. "Derwent")*

Owners *Messrs The Lancashire & Yorkshire Railway Co. Ltd*

Address *Horwich*

Fee £

Received by me



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