

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.-STEAM SHIPS.

18/5/32

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 Glasgow.
Date of Survey while building.
Name of Surveyor James R. Black

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<u>FARNWORTH</u> <u>Blackthorn No. 7.</u> Number in Register Book	<u>Newcastle on Tyne.</u> <u>Br.</u>	<u>148056</u>	<u>4800</u> <u>app.</u>	<u>1924</u>	<u>+100 A1 (Contemplated).</u> <u>Revised Rules.</u>

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>401.6</u>	<u>53.2</u>	<u>26.95</u>	<u>4549.40</u>
Length on LOADLINE.	<u>400.0</u>	MEAN Frame Depth <u>12.67</u> Rule <u>6.75</u> <u>6.5</u> <u>83.1.0</u> Spar. fitted	Ceiling <u>1.14</u> Sheer <u>+1.26</u> <u>2.0</u> Drop in Tank Top Ceiling <u>0.8</u> fitted	Peak Tanks <u>add for increased D.B.T. aft</u> <u>say 20.60</u>
CORRECTED DIMENSIONS.	<u>400.</u>	<u>52.37</u> <u>52.2</u>	<u>28.21</u> <u>28.14</u>	<u>4570.0</u> <u>4570.0</u>

Moulded Depth as measured..... 29' 7 1/2"
Addition for Keel below base line for draught record..... 2 1/4 inches.

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

29-7 1/2
1-1/4
30-8 3/4
3-10
26-10

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

.78 .777
COR = .02
.76

CORRECTION FOR LENGTH.
Length of Ship on Loadline..... 400.
Length in Table 355.5
Difference 44.5
Correction for 10ft., Table A. 1.5
× Difference divided by 10 6.67
If 1/10th length covered divide by 2 +6 3/4

CORRECTION FOR IRON DECK.
Proportion covered, if less than 1/10th length covered 47.8
Thickness of usual wood deck, less stringer 3 1/2
1.64

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... 53.0
Round of Beam 13 1/4
Normal round..... 13 1/4
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.

Sheer {Stem..... 120.
at {Sternpost ... 60 } 180 ÷ 2 = 90
Sheer at 1/8 of the length from {Stem 67.
Sternpost 33 1/2 } 100 1/2 ÷ 2 = 50.25
Gradual mean Sheer 92.7
Standard mean Sheer [Table, Para. 18] 50.00 50.0
Difference..... 42.7
§ If limited as Para. 18 (f) 10.14
-10 1/4

Rise in Sheer {At front of bridge house.....
from amidships {At after end of forecastle

¶ Fall in Sheer {
Para. 18 (d) } ÷ 2 =
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS :-

Freeboard, Table C..... 4' 2 3/4"
Correction for Length, if required (Para. 12, 13, and 14) +3 1/2
4-6 1/4
Freeboard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) }
Difference 7' 0 3/4"
Percentage as below..... 29.97%
29.97%

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }
Allowance for Deck Erections -9 1/4"

	Length.	Length allowed.	Height.
Forecastle.....	<u>34' 6"</u>	<u>34.5</u>	<u>8' 0"</u>
Bridge House	<u>117' 6"</u>	<u>117.5</u>	<u>8' 0"</u>
† Raised Q. Dk.	<u>36' 4 1/2"</u>	<u>36.4</u>	<u>8' 0"</u>
Poop.....	<u>36' 4 1/2"</u>	<u>36.4</u>	<u>8' 0"</u>
Total		<u>188.4</u>	<u>47'</u>
Length of Ship		<u>400</u>	<u>29.9%</u>
Corresponding percentage { (Para. 11, 12, 13, and 14) }			<u>29.97%</u>

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

Freeboard, Table A 7' 4 1/4"
Correction for Sheer -10 3/4 1/4
6-5 1/2 6
Correction for Length 6 3/4
7-0 3/4 3/4
Allowance for Deck Erections 9 1/4
6-3 1/4 1/2
Correction for Round of Beam.....
Correction for fall in Sheer (if any).....
Correction for Iron Deck (if required) 1 3/4
6-1 1/2 3/4
Additions for non-compliance with provisions of Para. 11 (d) and (e) }
Other Corrections (if any)
A = 4 1/2 5 1/4
C = 6
Winter Freeboard 6' 1 1/2 3/4
Summer Freeboard 5' 8 1/2 1/2
Indian Summer Freeboard 5' 3 1/4
N. A. Winter Freeboard
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the STEEL deck with side. } 1 3/4

Winter Freeboard from deck line 6' 3 1/4 1/2
Summer " " " 5' 10 1/4
Indian Summer " " " 5' 4 3/4 5
N. A. Winter " " "
5' - 10 5' 10" -
6 6 -
5 5 1/4 - 5 1/2
5 1/2 6 3/4 - 5 1/2

§ 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.

MARKING FORM
RECEIVED
23 AUG 1924

Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *✓* Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *channel frames*
 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 *Hinged wood door*
 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 *Hinged W.T. doors*
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*
 Give scantlings and spacing of the Stiffeners *9 x 3 1/2 x .46 B.A. @ 30"*
 Are bracket plates fitted at each end of the Stiffeners? *lugged* 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? *weather boards in riveted channels*
 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? *✓* 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 Upper 33'-9" x 22'-0"		N ^o 2 Upper 35'-0" x 22'-0"		N ^o 3 Bridge 22'-6" x 22'-0"		N ^o 4 Upper 35'-0" x 22'-0"		N ^o 5 Upper 35'-0" x 22'-0"	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"		30"		30"		30"		30"	
	Thickness { Sides.....	.44		.44		.44		.44		.44	
	Ends.....	.44		.44		.44		.44		.44	
SHIFTING BEAMS OR WEB PLATES.	Number.....	5		5		4		5		5	
	Section and Scantlings.....	22 x .38		22 x .38		22 1/2 x .38		22 x .38		22 x .38	
	Material.....	4 @ 4 1/2 x 3 x .46		4 @ 4 1/2 x 3 x .46		4 @ 4 1/2 x 3 x .46		4 @ 4 1/2 x 3 x .46		4 @ 4 1/2 x 3 x .46	
* FORE AND AFTERS.	Number.....										
	Section and Scantlings.....										
	Material.....										
HATCHES Thickness.....		3" red pine.		3" red pine		3" red pine.		3" red pine.		3" red pine.	
Remarks.....											

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

Length of Bulwarks in well

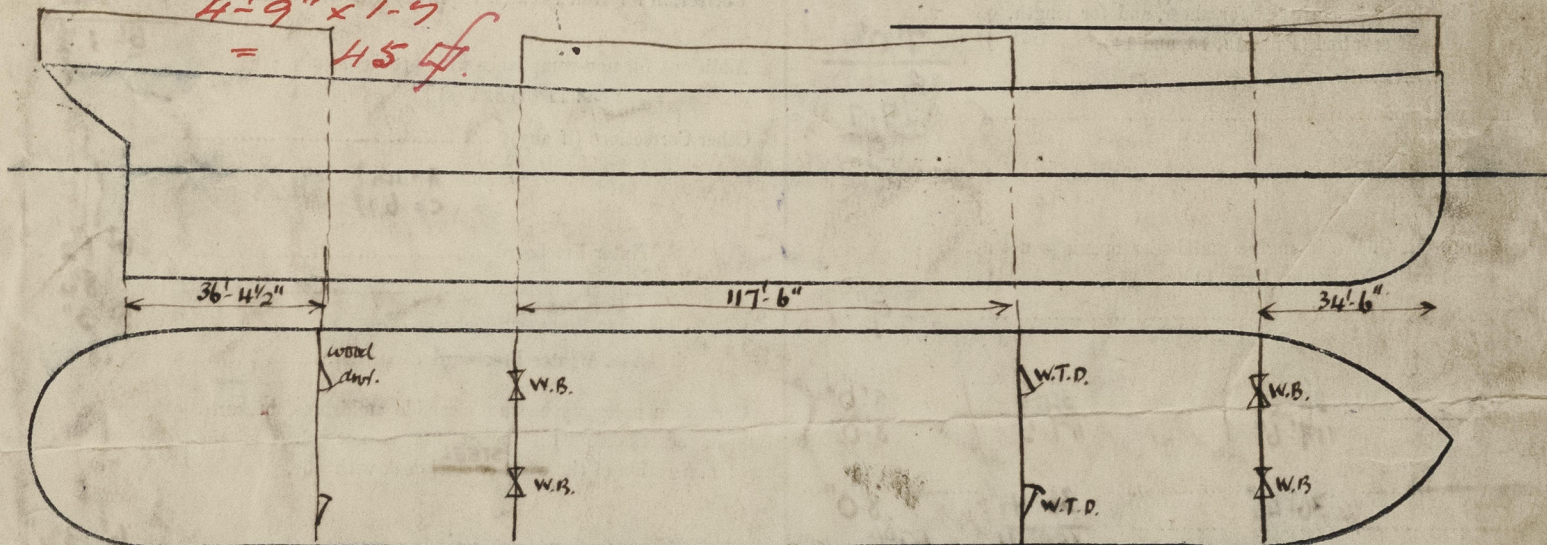
Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

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

7. Bulwark 109.62 x 3.5 = 401 ft.
 2 " 102 x 3.5 = 357 ft.

6 7. P. each well, P. x S.
 4-9" x 1-7"

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

The vessel has been constructed on the basis of the New Rules.

Builder's name and yard number *Blythwood N^o 7.*

Names of sister vessels

Owners

R. S. Dalgleish.

Address

Newcastle on Tyne.

Fee £ 10 : 0 : 0

Received by me

La F. B. Report.

Midships section and Profile enclosed for reference

Lloyd's Register Foundation