

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Index No. 30752

(For London Office only)

9 JUN 1923

No 28595

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

Hunter Wigham Richardson 11 112 1213

Ship's Name RAINBOW DUNFORD Port of Registry and Nationality NEWCASTLE BRITISH Official Number 145534

Number in Register Book

Gross Tonnage approx. 1400 Date of Build 1923
1196.03

Port of Survey Sunderland

Date of Survey June 8th 1923

Name of Surveyor W.R. Collings

Particulars of Classification

H 100 A 1 (Contemplated)

	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
235.0	36.0	14.0		930.36
235.0				
	mean Frame Depth 7 ³ / ₄ Ceiling + .20			
	Rule " 4 Sheer + .36			
	2 x 3 ³ / ₄ Tank Level			
	= - .62			
	no sparing + .33			
235.0	35.71	14.56		935.36

at of fineness 7645
fication necessary } C. 0.13. -
4 (d) to (e)* } 75 -
at as corrected 75 -

Length 66	{ 91.5 ÷ 2 = 45.75. Mean	46.59
Sternpost 25.5		33.50
of the length from Stem 37		36
Sternpost 14.25	{ 51.25 ÷ 2 = 25.62. Mean	113.09
mean Sheer 45.75 + 46.589	÷ 55% = 46.589	36
mean Sheer [Table, Para. 18] 33.50	20.10	36
Difference 12.60	5.52	36
as Para. 18 (f)	4 = 3.16 for Parallel	3.16
	for para 11 - 3 ¹ / ₄	1.38
	" 14 - 1 ¹ / ₄ 1/8"	14

Sheer { At front of bridge house.....
midships { At after end of forecastle

Sheer { $\div 2 =$
covered Correction

ALLOWANCE FOR DECK ERECTIONS:		Para 11.	Para 14
Table C.		0-8 ¹ / ₄	0-8 ¹ / ₄
for Length, if required (Para. 12, 13, and 14)		+2	
by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14)		0-10 ¹ / ₄	
Length Erections + 2 - 7 ¹ / ₂ = - 8 ³ / ₄ @ 6% + 4 ¹ / ₄ - 8 ¹ / ₄ = - 4 ¹ / ₂ @ 5% = 30.226 3 ¹ / ₄ = 8 ¹ / ₄ for 582 covered.		2-5 ³ / ₄	2-1 ¹ / ₄
for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)		1-9 ¹ / ₂	2-2 ¹ / ₂
for Deck Erections		- 8 ¹ / ₄	

Length.	Length allowed.	Height.
25.25	25.25	7.0
se R. Dk. 145.25 x 3.0	111.70	3.0
170.5	136.95	.582
ship 235.0	235.0	

Percentage (Para. 11. 40% for 70% covered.

(12, 13, or 14) " 14 32% for 70% covered.

ARD 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 " "

skin planking, or ceiling are of unusual thickness the breadth of vessel to inside should be reported if possible.
staining an allowance for deck erections under Para. 11 where the sheer drops abaft amid-height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
vessel having poops and forecastles, it means the sheer measured at points distant of the vessel's length from stem and stern-post.

Port of Survey Sunderland
Date of Survey June 8th 1923
Name of Surveyor W.R. Collings

Moulded Depth as measured 16-1
NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

Addition for Keel below base line for draught record 1" inches.

CORRECTION FOR LENGTH.

Length of Ship on Loadline 235.0
Length in Table 193.0
Difference 42.0
Correction for 10ft., Table A. 1.0 Table C. 5
x Difference divided by 10 4.20 (if required.) 2.10
If $\frac{1}{10}$ ths length covered divide by 2 2.10 for Para. 11 2.10
 $\frac{1}{4}$ " for Para. 11 1.10 " 2.10 for C. 2.10

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered
Thickness of usual wood deck, less stringer 3¹/₂ - $\frac{1}{2}$ = .3

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

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships 36.0
Round of Beam 9
Normal round 9
Difference $\checkmark \div 2 =$
Proportion of Deck uncovered (Para. 19)

Freeboard, Table A 2-9
Correction for Sheer
Correction for Length
Allowance for Deck Erections

Correction for Round of Beam
Correction for fall in Sheer (if any)

Correction for Iron Deck (if required) -3

Additions for non-compliance with provisions of Para. 11 (d) and (e) + 1 " 70 9³/₄

Other Corrections (if any) R. Q. Deck 3 " 0
4 - 70 9³/₄

Winter Freeboard 4 " 70 9³/₄
Summer Freeboard 1.34 " 8 " ✓
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 or iron deck with side. 1¹/₂

Winter Freeboard from deck line 4-11¹/₄
Summer " " " 4-9³/₄
Indian Summer " " " ✓
N. A. Winter " " " ✓

Steel Raised Quarter " " " 4-9¹/₂ 4-70 9³/₄
3¹/₂ " " " ✓ 1¹/₂ " " " ✓

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.

MARKING FORM

RECEIVED 23 JUN 1923

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Do all the Frames extend to the top height in the Poop? ✓ Raised Quarter Deck? yes ✓ Bridge House? ✓ Forecastle? yes

To what height do the Reverse Frames extend? Bulk 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 bridge. Has the Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

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

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners? ✓

Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

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

How are the openings closed?

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? coveredly a R.O.DK + strong steel deck house

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 38 Coaming .34 Plating .Stiffeners 42 x 3 x 30 @ 3ft.

What is the height of the exposed Casings? 7-6 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

Position and Size.	N°1 - 20' 7 1/2" x 24' 6 1/8"	N°2 - 28' 10 1/2" x 24' 0"	N°3 - 26' 3" x 24' 0"	N°4 - 28' 4" x 24' 0"	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING Thickness Sides.....	30"	30"	45"	45"	30"	30	30"	30	30"	30	30"	✓
Thickness Ends.....	.50	.44	.50	.44	.50	.44	.50	.44	.50	.44	.50	.44
SHIFTING BEAMS OR WEB PLATES.	Number	3	3	5	5	5	5	5	5	5	5	
Number	18	19 1/2 + 38	19 1/2 + 38	19 1/2 + 38	18 1/2 + 38	18 1/2 + 38	18 1/2 + 38	18 1/2 + 38	19 1/2 + 38	19 1/2 + 38	19 1/2 + 38	
Section and Scantlings	19 1/2 + 38	19 1/2 + 38	5 x 3 1/2 x 46	5 x 3 1/2 x 46	5 x 3 1/2 x 46	5 x 3 1/2 x 46	5 x 3 1/2 x 46	5 x 3 1/2 x 46	5 x 3 1/2 x 46	5 x 3 1/2 x 46	5 x 3 1/2 x 46	
Material	Steel.	Steel.	Steel.	Steel.	Steel.	Steel.	Steel.	Steel.	Steel.	Steel.	Steel.	
* FORE AND AFTERS.	Number											
Number												
Section and Scantlings												
Material												
HATCHES Thickness	3"	2 1/2	3"	2 1/2	3"	2 1/2	3"	2 1/2	3"	2 1/2	3"	2 1/2
Remarks.....	Good	Good	Good	Good	Good	-	Good	-	Good	-	Good	

* 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? no bridge. 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, — satisfactory.

Length of Bulwarks in well 64.5' x 4.2' high. R.O.DK. 145.2' x 3.5' high. 10 freeing ports 4x4

Area of Freeing Ports required by Para. 11(e) each side of vessel = WELL 12.45 Sq. ft.

R.O.D. 25.4

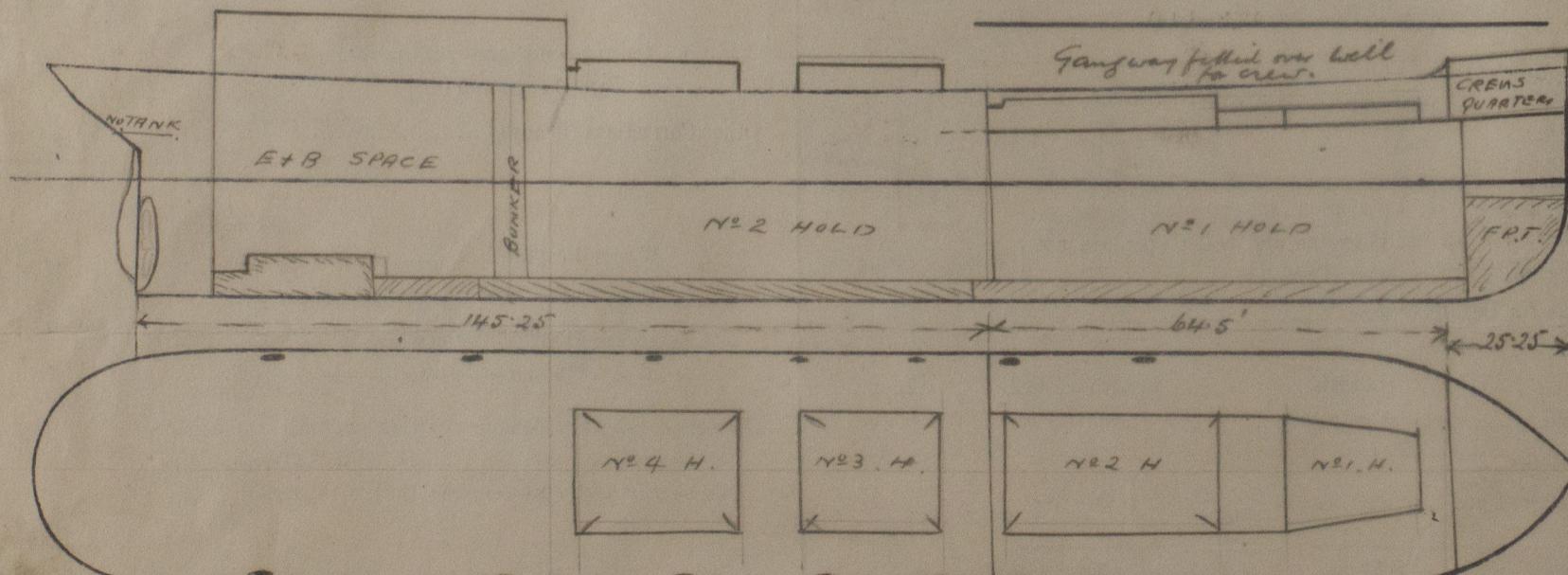
Ft. Tenth. Ft. Tenth. No.

FORE WELL 4.5 x 1.5 x 4
R.O.D. 4.11 x 1.0 x 10

Freeing Ports (each side of vessel) = WELL 27.0 Sq. ft.

R.O.D. 48.0

Total deficiency or excess = 1455 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 is built with a 2gallant deck & R.O.DK only

Builder's name and yard number Swan Hunter, Wigham Richardson 16' 11" 5.5 N°1213.

Names of sister vessels ✓

Owners Errington & Dunford &c.

, Address Newcastle on Tyne.

Fee £ 5 : 0 : 0 Received by me

See L. Rpt

