

Register of British & Foreign Shipping.
SURVEYS FOR FREEBOARD.-STEAM SHIPS.

FRI. DEC. 11. 1914

7856.

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

Port of Survey **DUNDEE**

Date of Survey **10 DEC 1914**

Name of Surveyor *James Cunningham*

Ship's Name **SS. RAY**
Number in Register Book **SEE S.B. Co., 40, S.S. N° 271**
Port of Registry and Nationality **London**
Official Number **136753**
Gross Tonnage **666**
Date of Build **1914**
Particulars of Classification **Continental + 100 A1**

Registered Dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK Tonnage.
	170.15	29	11.35	461.77
Length on LOADLINE	170.07	Mean 28.5	Frame Depth 11.35	Peak incl. above
		Rule 28.5	Ceiling + 2.0	Tanks when no
		2 x 28.5 = 57	Sheer + 4.8	D.B. aft. ord.
		= 57	+ 0.8	- 44.27
CORRECTED DIMENSIONS.	170.07	28.5	12.02	447.50

Moulded Depth as measured **13'-6"**
14'-1 1/4"
2'-6 1/2"
11'-6 3/4"

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

Co-efficient of fineness **78.76**
Any modification necessary [Para. 4 (a) to (e)] **.02**
Co-efficient as corrected **76.74**

CORRECTION FOR LENGTH.
Length of Ship on Loadline **170.07**
Length in Table **162**
Difference **8.07**
Correction for 10ft., Table A. **.9**
x Difference divided by 10 **.72**
If 10ths length covered divide by 2 **.36**

Sheer at Stem **57**
at Sternpost **30**
Sheer at 1/2 of the length from Stem **32**
Sternpost **17**
Gradual mean Sheer **44.5**
Standard mean Sheer (Table, Para. 18) **27**
Difference **17**
§ If limited as Para. 18 (f) **✓**

CORRECTION FOR IRON DECK.
Proportion covered, if less than 1/10ths length covered **3"**
Thickness of usual wood deck, less stringer **3"**

Rise in Sheer from amidships [Para. 18 (e)]
At front of bridge house **✓**
At after end of forecastle **✓**
Fall in shear Para. 18 (d) **÷ 2 = ✓**
Length uncovered **✓**
Correction

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships **28'-11"**
Round of Beam **7 1/4"**
Normal round **7 1/4"**
Difference **÷ 2 =**
Proportion of Deck uncovered (Para. 19) **✓**

ALLOWANCE FOR DECK ERECTIONS :-
Freeboard, Table C **5'-5"**
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) **1'-8 3/4"**
Difference **1'-3 3/4"**
Percentage as below **67.9%**
Correction for B. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) **+ ✓.35**
Allowance for Deck Erections **✓ 10 1/4"**

Freeboard, Table A **2'-1 1/2"**
Correction for Sheer **4.25**
Correction for Length **1'-9.61**
Allowance for Deck Erections **10.35**
Correction for Round of Beam **0.11**
Correction for fall in Sheer (if any) **nil.**
Correction for Iron Deck (if required) **3"**
Additions for non-compliance with provisions of Para. 11 (d) and (e) **✓**
Other Corrections (if any) **✓**

	Length.	Length allowed.	Height.
Forecastle	24.57	21.50	6'-9"
Bridge House	14.67	14.67	7'-0"
Raised Qr. Dk.	96.00	96.00	3'-9"
Poop			
Total	133.70	131.89	
Length of Ship	170.07		
Corresponding percentage (Para. 11, 12, 13, or 14)	67.9		

Winter Freeboard **7 3/4"**
Summer Freeboard **6"**
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 **1"**
Winter Freeboard from deck line **8 3/4"**
Summer " " " **7"**
Indian Summer " " " **✓**
N. A. Winter, " " " **✓**

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Iron) Deck :-
Fresh Water Line above centre of Disc **3'**
Indian Summer Line " " " **3'**
Winter Line below " " **2'**
Winter North Atlantic Line " " " **✓**

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 draft forward and aft should be reported.
RECEIVED 15/11/14

frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside
ceiling should be reported if possible.
vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abt. amid-
ships the height of the B.Q.D. is to be taken from the level of the top of the amidship beam.
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.

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Do all the Frames extend to the top height in the Poop? ☒ Raised Quarter Deck? *yes* Bridge House *yes*
 To what height do the Reverse Frames extend? *built angle frames*
 Has the ~~Raised~~ 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 ~~Raised~~ Raised Quarter Deck connected with the Bridge House? *yes* Has the Bridge House an efficient Bulkhead at the fore end? *no openings*
 Give particulars of the means for closing the openings in Bulkhead *no openings*
 What is the thickness of the Bridge Front plating? *26* and Coaming plate? *30*
 Give scantlings and spacing of the Stiffeners *5 1/2" x 3" x 4.5 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? *yes*
 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 ~~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? *Raised quarter deck and strong casings*
 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 *plating 5/16", Coaming 1/2", Stiffeners 2 1/2" x 2 1/2" x 26 L's spaced 30"*
 What is the height of the exposed Casings? *above R.Q.D. = 7'-0"* Are suitable means provided for closing all openings in them in bad weather? *yes, steel doors*
 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. FOR? WELL 22'-0" x 18'-0"		No. 2. R.Q.D. MIDSHIPS 29'-4" x 18'-0"							
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"	30"	30"	30"						
	Thickness { Sides.....	44	44	50	50						
	{ Ends.....	40	40	40	40						
SHIFTING BEAMS OR WEB PLATES.	Number.....	3	3	5	5						
	Section and Scantlings.....	39'-3 1/2" 4" x 3"	18'-14" 3 1/2" x 4"	24'-10" 4" x 3"	18'-14" 3 1/2" x 4"						
	Material.....	Steel	Steel	Steel	Steel						
FORE AND AFTERS.	Number.....										
	Section and Scantlings.....										
	Material.....										
HATCHES	Thickness.....	3"		3"							
	Remark.....	Solid		Solid							

* 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? *26* Strake between Main and Bridge Sheerstrakes? *26*

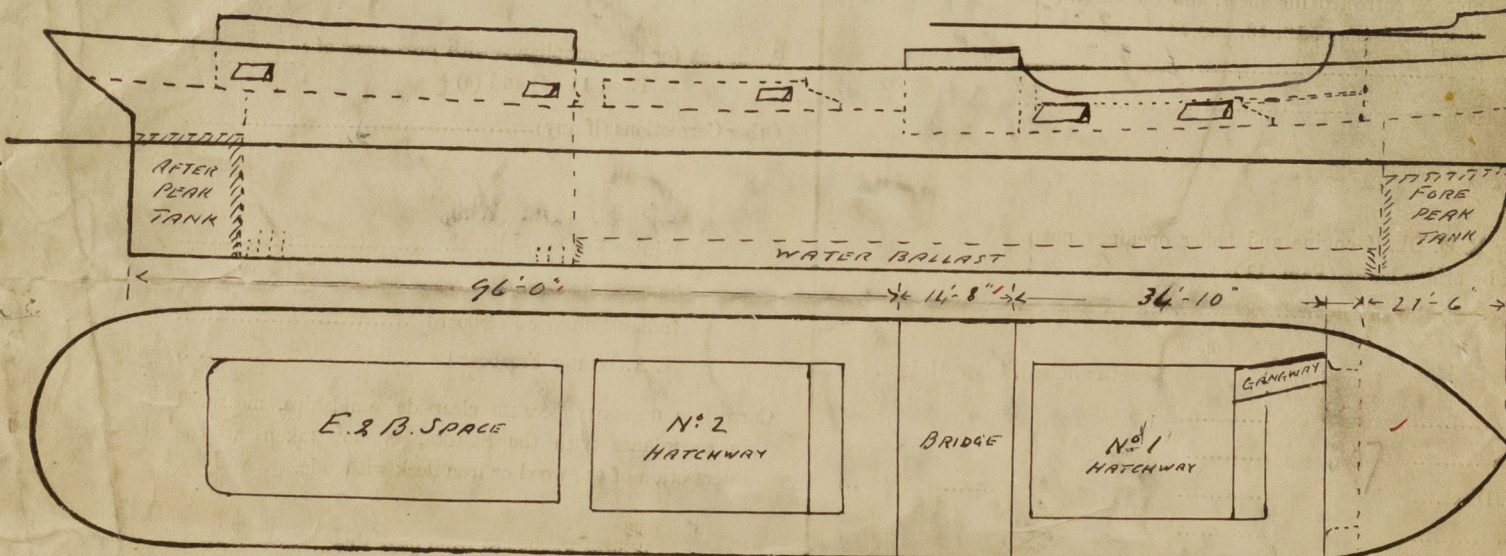
Delete the words { The Crew are, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~are~~ satisfactory.

Length of Bulwarks in well *34.8 feet*

Area of Freeing Ports required by Para. 11 (a) each side of vessel = *10.0* Sq. ft. ☒

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *10.5* Sq. ft. ☒
 $3.00 \times 1.75 \times 2$

Total deficiency = *+ 0.5* 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

*Freeboard request forwarded 7-12-14;
 Approved plans enclosed.*

Owners *M. A. Ray & Sons,*

" Address *London.*

Fee £ *✓*

Received by me *✓*



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