

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

FRI. DEC. 11. 1914

2038  
7856

APPLYING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITHOUT 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 <b>BRAY</b> SEE S.B. Co., Ltd., S.S. N° 271	Port of Registry and Nationality <b>London</b>	Official Number <b>136753</b>	Gross Tonnage <b>666</b>	Date of Build <b>1914</b>	Particulars of Classification <b>Contingent + 100A1</b>
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Registered dimensions from Ship's Register. LENGTH. <b>170.15</b> BREADTH. <b>29</b> DEPTH. <b>11.35</b> UNDER DECK Tonnage. <b>461.77</b>	Length on LOADLINE <b>170.07</b>	CORRECTED DIMENSIONS. <b>170.07</b>
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Moulded Depth as measured..... <b>13'-6"</b> <i>14-1 1/4</i> <i>2-6 1/2</i> <i>11-6 3/4</i>	NOTE. - If the depth is measured when vessel is afloat, the details of measurement should be reported.
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CF-efficient of fineness ..... <b>78.76</b>	Any modification necessary [Para. 4 (a) to (e)] ..... <b>.02</b>	Co-efficient as corrected ..... <b>76.74</b>
Sheer at Stem... <b>57</b> at Sternpost... <b>30</b>	$87 \div 2 = 43.5$ Mean	<i>44.5</i> <i>36</i> <i>17.5</i> <i>48</i>
Sheer at 1/2 of the length from Stem <b>32</b> Sternpost <b>17</b>	$49 \div 2 = 24.5$ Mean	<i>55 = 44.5</i>
Gradual mean Sheer ..... <b>43.5</b>	Standard mean Sheer (Table, Para. 18) ..... <b>26.5</b>	Difference..... $17 \div 4 = -4 1/4$
§ If limited as Para. 18 (f)..... <input checked="" type="checkbox"/>		

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<b>170.07</b>	*
Length in Table .....	<b>162</b>	*
Difference .....	<b>8.07</b>	*
Correction for 10ft., Table A. ....	<b>.9</b>	* Table C.
× Difference divided by 10 .....	<b>.72</b>	* (if required.)
If 1/10ths length covered divide by 2	<b>.36</b>	+ <i>1/4</i>

Rise in Sheer from amidships [Para. 18 (e)]	At front of bridge house..... <input checked="" type="checkbox"/>	At after end of forecastle ..... <input checked="" type="checkbox"/>
Fall in shear Para. 18 (d)	$\div 2 =$ ✓	
Length uncovered	✓	Correction

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered .....	<b>3"</b>
Thickness of usual wood deck, less stringer.....	$3 1/2 - 1/2 = 3$

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	<b>5.5</b>	<b>5 1/2</b>
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) .....	<b>1-8 3/4</b>	*
Difference .....	<b>1-3 3/4</b>	*
Percentage as below.....	<b>67.9%</b>	<b>67.2</b>
Correction for B. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) <i>Small bridge in front.</i>	<b>+ .35</b>	✓
Allowance for Deck Erections .....	<b>10 1/4</b>	✓

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<b>28'-11"</b>
Round of Beam.....	<b>7 1/4"</b>
Normal round .....	<b>7 1/4"</b>
Difference .....	$\div 2 =$
Proportion of Deck uncovered (Para. 19) .....	-

Forecastle.....	Length. <b>24.57</b>	Length allowed. <b>21.50</b>	Height. <b>6'-9"</b>
Bridge House .....	<b>14.67</b>	<b>14.67</b>	<b>7'-0"</b>
Raised Qr. Dk.....	<b>96.00</b>	<b>96.00</b>	<b>3'-9"</b>
Poop.....	-	-	-
Total .....	<b>133.70</b>	<b>131.89</b>	<b>78.62</b>
Length of Ship .....	<b>170.07</b>		
Corresponding percentage (Para. 11, 12, 13, or 14) {	<b>67.9</b>	<b>67.2</b>	

Freeboard, Table A .....	<b>2-1.5</b>	<b>2'-1 1/2</b>
Correction for Sheer .....	<b>4.25</b>	<b>4 1/4</b>
Correction for Length .....	<b>1-9.25</b>	<b>1'-8 3/4</b>
Allowance for Deck Erections .....	<b>10.35</b>	<b>10 1/2</b>
Correction for Round of Beam.....	<b>0-11.26</b>	<b>mit. 11 1/4</b>
Correction for fall in Sheer (if any) .....	-	<b>mit.</b>
Correction for Iron Deck (if required) .....	-	<b>3</b>

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Iron) Deck:—

Fresh Water Line	above centre of Disc	3	3
Indian Summer Line	" " "	-	-
Winter Line	below " "	2	2 1/4
Winter North Atlantic Line	" " "	-	-

Winter Freeboard .....	<b>7 3/4</b>	<b>8 3/4</b>
Summer Freeboard .....	<b>6</b>	<b>6 1/4</b>
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 .....	<b>8 3/4</b>	<b>9 1/4</b>
Summer " " " .....	<b>7</b>	<b>7 1/4</b>
Indian Summer " " " .....	-	-
N. A. Winter, " " " .....	-	-

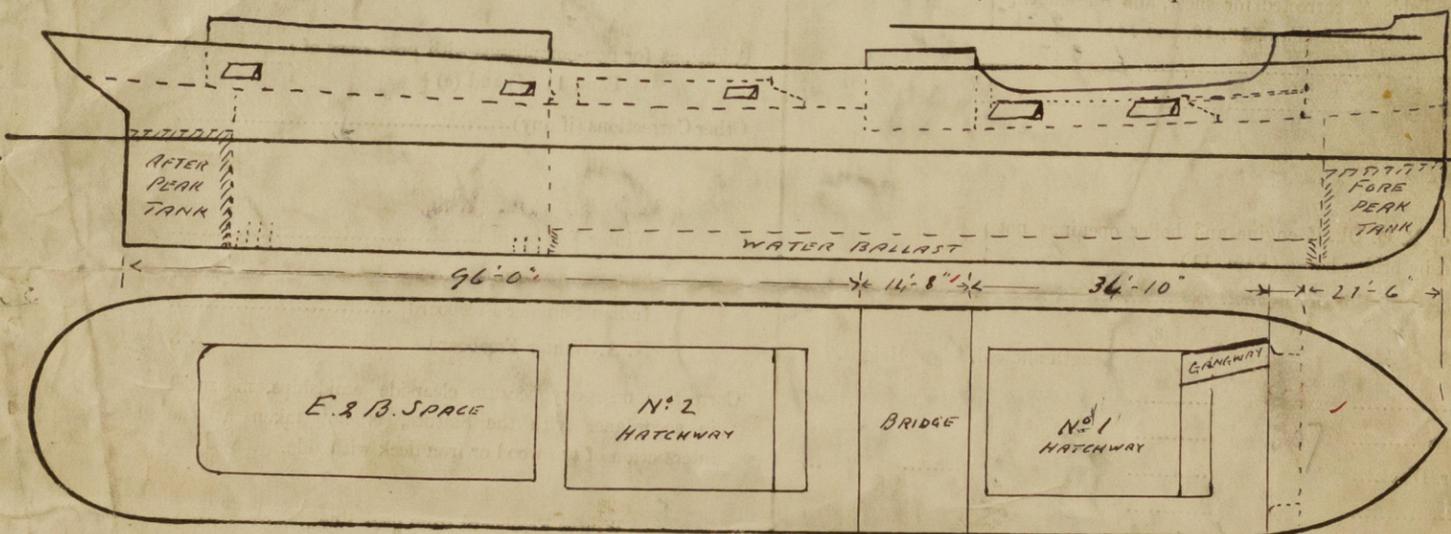
Do all the Frames extend to the top height in the Poop?  Raised Quarter Deck? *yes.* Bridge House? *yes.*  
 To what height do the Reverse Frames extend? *bulk angle frames*  
 Has the ~~Reverse~~ Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes.*  
 Give particulars of the means for closing the openings in Bulkhead *no openings.*  
 Is the ~~Reverse~~ Raised Quarter Deck connected with the Bridge House? *yes.* 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? *.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 casing.*  
 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.	N°1. FOR? WELL 22'-0" x 18'-0"		N°2. R.O. DN. MIDSHIPS 29'-4" x 18'-0"		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"-34" L <sup>3</sup> x 3" x 34" L <sup>3</sup> x 4"	18"-14" L <sup>3</sup> x 3" L <sup>3</sup> x 3" x 4"	24"-10" L <sup>3</sup> x 3" x 34" L <sup>3</sup> x 4"	18"-14" L <sup>3</sup> x 3" L <sup>3</sup> x 3" 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 (e) each side of vessel = *10.0* Sq. ft. ✓  
 Ft. Tenths. Ft. Tenths. No. }  
 3.00 x 1.75 x 2 } Freeing Ports = *10.5* Sq. ft. ✓  
 (each side of vessel)  
 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 *✓*

