

33823

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD - STEAM SHIPS.

23 FEB 1931

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 Bristol
Date of Survey Feb 20 31
Name of Surveyor John W. Wynne

Ship's Name. THE EARL (Hull No. N/186) Number in Register Book	Port of Registry and Nationality. <u>British</u>	Official Number. <u>162090</u>	Gross Tonnage.	Date of Build. <u>1931</u>	Particulars of Classification. <u>100 A 1 for Towing services</u>
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Length as measured from register.	LENGTH. <u>90.0</u>	BREADTH. <u>24.05</u>	DEPTH. <u>11.15</u>	UNDER DECK TONNAGE. <u>146.98</u>
Length on LOADLINE.	<u>90.0</u>	Frame Depth Rule <u>4</u> " <u>3</u> <u>x 2 = .14</u> <u>No Sparring + 20</u>	Ceiling <u>+ .15</u> Sheer <u>+ .38</u>	Peak Tanks } Includ For raised floor aft + 2 Tons
Corrected Lengths.	<u>90.0</u>	<u>24.08</u>	<u>11.63</u>	<u>148.98</u>

Moulded Depth as measured 12'-0"
 Rule wood deck less 5/8" = 2 3/4"
11-9 1/4"
 Addition for Keel below base line for draught record 5 inches

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

12.0
10.6
1.4
11.2

Co-efficient of fineness .591
 Any modification necessary [Para. 4 (a) to (e)]*
 Co-efficient as corrected .68 Lowest in Table

CORRECTION FOR LENGTH.

Length of Ship on Loadline	<u>90.0</u>
Length in Table	<u>141.25</u>
Difference	<u>51.25</u>
Correction for 10ft., Table A	<u>.9</u> Table C.
x Difference divided by 10	<u>4.61</u> (if required.)
If 1/10ths length covered divide by 2	<u>- 4 1/2"</u>

Sheer at Stem 36
 at Sternpost 30 } 66 ÷ 2 = 33 Mean 36 1/2
33

Sheer at 1/3 of the length from Stem 17
 Sternpost 17 } 34 ÷ 2 = 17 Mean 17
17

Gradual mean Sheer 30.9
 Standard mean Sheer [Table, Para. 18] 19.0 Correction
 Difference 11.9 ÷ 4 =
 § If limited as Para. 18 (f) 12.0 ÷ 4 = 2.37 - 2 1/4

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered -
 Thickness of usual wood deck, less stringer Allowed in reduced Mld. Depth

Rise in Sheer from amidships [Para. 18 (e)]
 At front of bridge house
 At after end of forecastle

Fall in Sheer [Para. 18 (d)] ÷ 2 =
 Length uncovered Correction

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships 24'-0 3/4"
 Round of Beam 6"
 Normal round 6"
 Difference 6" ÷ 2 =
 Proportion of Deck uncovered (Para. 19) NIL

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

ALLOWANCE FOR DECK ERECTIONS :-

Freeboard, Table C		
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)		
Difference		
Percentage as below		
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)		
Allowance for Deck Erections		
Length.	Length allowed.	Height.
Forecastle		
Bridge House		
† Raised Qr. Dk.		
Poop		
Total		
Length of Ship		
Corresponding percentage (Para. 11, 12, 13, or 14)		

Freeboard, Table A	<u>1'-8"</u>
Correction for Sheer	<u>- 2 1/4"</u>
Correction for Length	<u>1'-5 3/4"</u>
Allowance for Deck Erections	<u>- 4 1/2"</u>
Correction for Round of Beam	<u>- 1'-1 1/4"</u>
Correction for fall in Sheer (if any)	<u>-</u>
Correction for Iron Deck (if required) <u>Allowed in reduced Mld. Depth</u>	
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	
Other Corrections (if any) <u>Trim by stern + 1 1/4"</u>	<u>1'-2 1/2"</u>
Winter Freeboard	<u>1'-2 1/2"</u>
Summer Freeboard	<u>1'-1 1/2"</u>
Indian Summer Freeboard	<u>-</u>
N. A. Winter Freeboard	<u>-</u>

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 " " "	

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. + 1"

Winter Freeboard from deck line	<u>1'-3 1/2"</u>
Summer " " " "	<u>1'-2 1/2"</u>
Indian Summer " " " "	<u>-</u>
N. A. Winter " " " "	<u>-</u>

† 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.

† 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 trim at time of survey, and also the usual load draft forward and aft should be reported.

24 FEB 1931

SUBJECT TO CONDITIONS DETAILED ON FORM ATTACHED

MARKING FORM RECEIVED 2 MAR 1931

003217-003222-0083

Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? Bridge House? Forecastle?
 To what height do the Reverse Frames extend?
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end?
 Give particulars of the means for closing the openings in Bulkhead
 Is the Poop or Raised Quarter Deck connected with the Bridge House? 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? Has the Forecastle an efficient Iron or Wood Bulk'd. at after end?
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Steel 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 .26 stiff. 3x22x26 Spaced 30"*
 What is the height of the exposed Casings? *3'6"* 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:—

Position and Size.		Ship.	Rule.								
COAMING.	Height above top of DECK										
	Thickness { Sides..... Ends.....										
SHIFTING BEAMS OR WEB PLATES.	Number										
	Section and Scantlings										
	Material										
* FORE AND AFTERS.	Number										
	Section and Scantlings										
	Material										
HATCHES	Thickness										
	Remarks.....										

Trim by stern
Length on L.W.L. = 90 feet.
C.C. abaft 2.3.5

$$\text{Trim} = \frac{3.42}{45.0} \times \frac{18}{1} = 1.36 = 1\frac{1}{4}"$$

* 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? _____

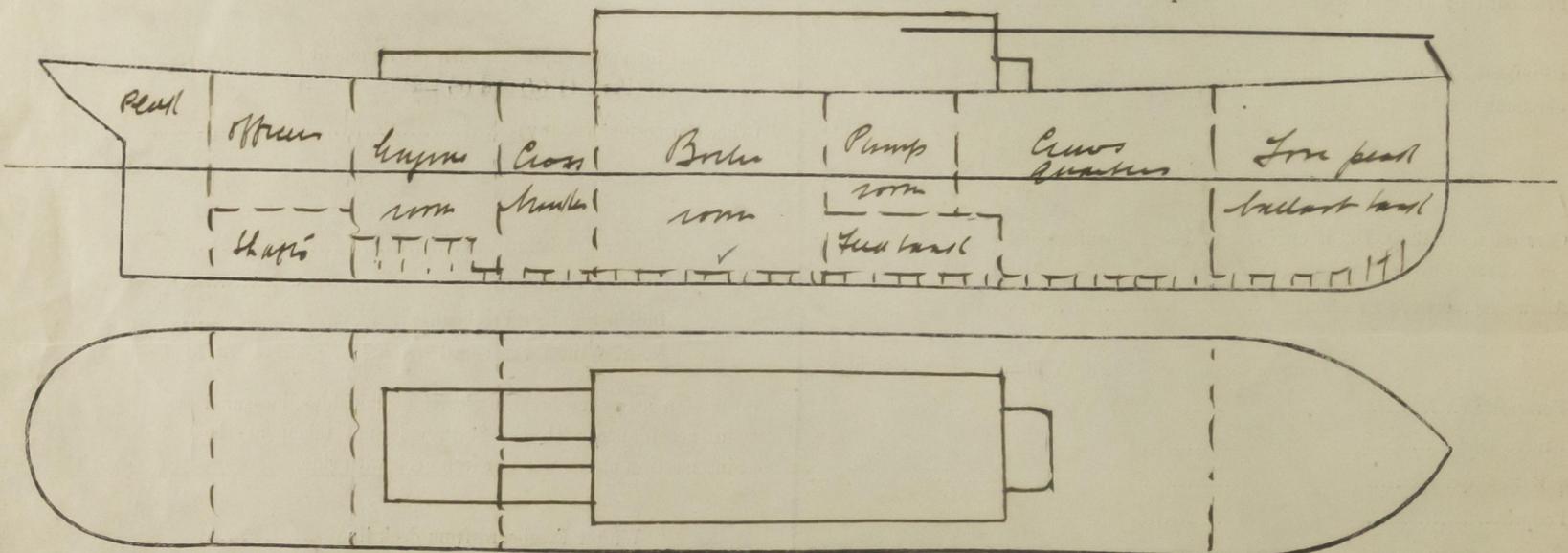
Delete the words { The Crew are, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks *in net* *whole length*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = _____ Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } *For class only.*

$$2.0 \times 1.33 \times 3$$
 } Freeing Ports = 7.98 Sq. ft.
 (each side of vessel)

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 gabrun is measured from line parallel to the top of keel passing thro the deck at side at the middle of vessels length. Trim by stern 36/CG. L.W.L. abaft amidships 3*

Owners *Great Western Railway Co.*

Address _____

Fee £ *2 : 0 : 0* Received by me *See F.E. Report.*



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