

27 FEB 1928

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.-STEAM SHIPS.

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 Balatta  
Date of Survey 27<sup>th</sup> December 1927  
Name of Surveyor Exley

Ship's Name. <b>EKMA</b>	Port of Registry and Nationality. <u>Glasgow</u> <u>British</u>	Official Number. <u>132999</u>	Gross Tonnage. <u>5108</u>	Date of Build. <u>1911-12</u>	Particulars of Classification. <u>+ 100 A1 Shade Deck</u>
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH. <u>410.0</u>	BREADTH. <u>52.6</u>	DEPTH. <u>24.7</u>	UNDER DECK TONNAGE. <u>3723.66</u>
Length on LOADLINE.	<u>409.42</u>	Frame Depth <u>8</u> Rule <u>5/8</u> <u>2 1/2</u> <u>x 2 = .42</u>	Ceiling <u>+ .20</u> Sheer <u>+ .72</u> <u>1" Brass</u> <u>Tanks</u> <u>+ .04</u>	Peak <u>2</u> Tanks <u>5</u>
CORRECTED DIMENSIONS.	<u>409.42</u>	<u>52.18</u>	<u>25.66</u>	<u>3723.66</u>

Moulded Depth as measured..... 27'-3"  
 Addition for Keel below base line for draught record.....inches.

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

CORRECTION FOR LENGTH

Length of Ship on Loadline.....	<u>409.42</u>
Length in Table .....	<u>327.00</u>
Difference .....	<u>82.42</u>
Correction for 10ft., Table A. ....	<u>1.4</u> Table C.
x Difference divided by 10 .....	<u>11.56</u> (if required.)
If 1/10ths length covered divide by 2	<u>5.78</u> <u>+ 5 3/4"</u>

Co-efficient of fineness..... .68  
 Any modification necessary }  
 [Para. 4 (a) to (e)]\* } C.O.B  
 Co-efficient as corrected ..... .68 Lowest Tables

CORRECTION FOR IRON DECK.

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

Sheer { Stem..... 96  
 at { Sternpost ... 54 1/2 } 150 1/2 ÷ 2 = 75 1/4 ... Mean 36 | 25.88  
72

Sheer at 1/8 of the length from { Stem 54  
 Sternpost 30 1/2 } 84 1/2 ÷ 2 = 42 1/4 ... Mean 42.55 = 76.82  
allowed 76.03

Gradual mean Sheer ..... 76.03  
 Standard mean Sheer [Table, Para. 18] ..... 50.94 Correction  
 Difference..... 25.09 ÷ 4 = 6.27  
 § If limited as Para. 18 (f) ..... - 6 1/4"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>51.6</u>
Round of Beam .....	<u>12 3/4</u>
Normal round.....	<u>12.9</u>
Difference .....	<u>.15 ÷ 2 = .07</u>
Proportion of Deck uncovered (Para. 19) .....	<u>✓</u>

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

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

Freeboard, Table A .....	<u>6'- 13/4</u>
Correction for Sheer .....	<u>- 6 1/4</u>
Correction for Length .....	<u>5'- 7 1/2</u>
Allowance for Deck Erections .....	<u>+ 5 3/4</u>
Correction for Round of Beam.....	<u>6 - 1 1/4</u>
Correction for fall in Sheer (if any).....	<u>- 1 - 3/4</u>
Correction for Steel Deck (if required) .....	<u>4 - 10</u>
Corrections for non-compliance with provisions of Para. 11 (d) and (e) †	<u>- 1/2</u>
Other Corrections (if any) .....	<u>24 - 9 1/2</u>
Winter Freeboard .....	<u>4 - 9 1/2</u>
Summer Freeboard .....	<u>4 - 4</u>
Indian Summer Freeboard .....	<u>3 - 10 1/2</u>
N. A. Winter Freeboard .....	<u>-</u>
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or steel deck with side.	<u>1 1/2</u>
Winter Freeboard from deck line .....	<u>4 - 11</u>
Summer " " " " .....	<u>4 - 5 1/2</u>
Indian Summer " " " " .....	<u>4 - 0</u>
N. A. Winter " " " " .....	<u>-</u>

ALLOWANCE FOR DECK ERECTIONS :-

Freeboard, Table C.....	<u>3 - 1 1/2</u>
Correction for Length, if required (Para. 12, 13, and 14) .....	<u>-</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>5 - 7 1/2</u>
Difference .....	<u>2 - 6</u>
Percentage as below.....	<u>50.7%</u>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }  
 Allowance for Deck Erections ..... - 1 - 3/4

	Length.	Length allowed.	Height.
Forecastle.....	<u>63'-11"</u>	<u>67.54</u>	<u>7'-9"</u>
Bridge House.....	<u>217'-9"</u>	<u>199.35</u>	<u>8'-0"</u>
Raised Quarter Deck.....	<u>28'-0"</u>	<u>14.09</u>	<u>7'-11"</u>
Poop.....	<u>26'-9"</u>	<u>18.71</u>	<u>7'-7 1/2"</u>
Total .....		<u>289.60 = .707</u>	
Length of Ship .....		<u>409.42</u>	
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>50.7%</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	" " "	.....

7 - MAR 1928

© 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 stern-post.

† 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 6 - MAR 1928

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W1009-0103 1/3

requirements of Section 28 of the Rules for 1904-5? Give particulars below:—

Position and Size. No.1. 17'5" x 12'-0" No.2. 26'-0" x 14'-0" No.3. 25'-6" x 14'-0"

SHADE DECK.

Position and Side	No.1. 17'5"x12'0"	No.2. 26'0"x14'0"	No.3. 25'6"x14'0"
Height above top of Deck.	6"	6"	6"
Thickness	(Sides) .44	.44	.44
	(Ends) .4	.4	.4
Shifting Beams or Web Plates	Number 3	5	5
	Section & Scantlings 1. $\frac{1}{2}$ " 3"x3" angles	2. $\frac{1}{2}$ " 3"x3" angles	2. $\frac{1}{2}$ " 3"x3" angles
	Material 2. $\bar{T}$ 11"x6" Steel	3. $\bar{T}$ 11"x6" Steel	3. $\bar{T}$ 11"x6" Steel.

FORE AND AFTERS NIL NIL NIL

Hatches Thickness 3" 3" 3"

Remarks. Gratings Gratings Gratings

W1009-0103 2/3

x x  
x x

Freeing ports (each side of vessel) = Sq. ft.



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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.

No.1. 17'-5" x 12'-0"

No.2. 26'-0" x 14'-0"

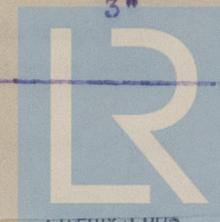
No.3. 25'-6" x 14'-0"

MAIN DECK.

Position and Size	No.1. 18'-0"x12'0"	No.2. 28'0"x14'0"	No.3. 27'6"x14'0"
Height above top of Deck.			
Thickness (Sides)	Flush .44	Flush .44	Flush .44
	(Ends) .4	.4	.4
Lifting Beams for Plates.	Number 3	6	6
	Section & Scantlings	1. $\begin{matrix} \text{JL} \\   \\ 2\text{L} \end{matrix}$ 3"x3"angles 2. $\text{T}$ 11"x6"	2. $\begin{matrix} \text{JL} \\   \\ 2\text{L} \end{matrix}$ 3"x3"angles 3. $\text{T}$ 11"x6"
Material	Steel	Steel	Steel
FORE AND AFTERS	NIL	NIL	NIL
Hatches Thickness	3"	3"	3"
Remarks.			

W1009-0103 <sup>3/3</sup>

x x  
x x



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(each side of vessel)

Sq. ft.

Total deficiency or excess

Do all the Frames extend to the top height in the Poop? Yes Raised Quarter Deck? Yes Bridge House? Yes Forecastle? Yes  
 To what height do the Reverse Frames extend? Upper Deck Every 4th to Shade Deck in way of upper bridge  
 Has the Poop on ~~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 doors  
 Is the Poop on ~~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 steel doors  
 What is the thickness of the Bridge Front plating? .30 and Coaming plate? .30  
 Give scantlings and spacing of the Stiffeners 5" x 3" x 5'0" angle spaced 30" to 38" apart  
 Are bracket plates fitted at each end of the Stiffeners? No Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? No  
 Has the Bridge House an efficient Iron Bulkhead at the after end? Yes  
 How are the openings closed? Storm boards in riveted channels Full height  
 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? Bridges  
 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

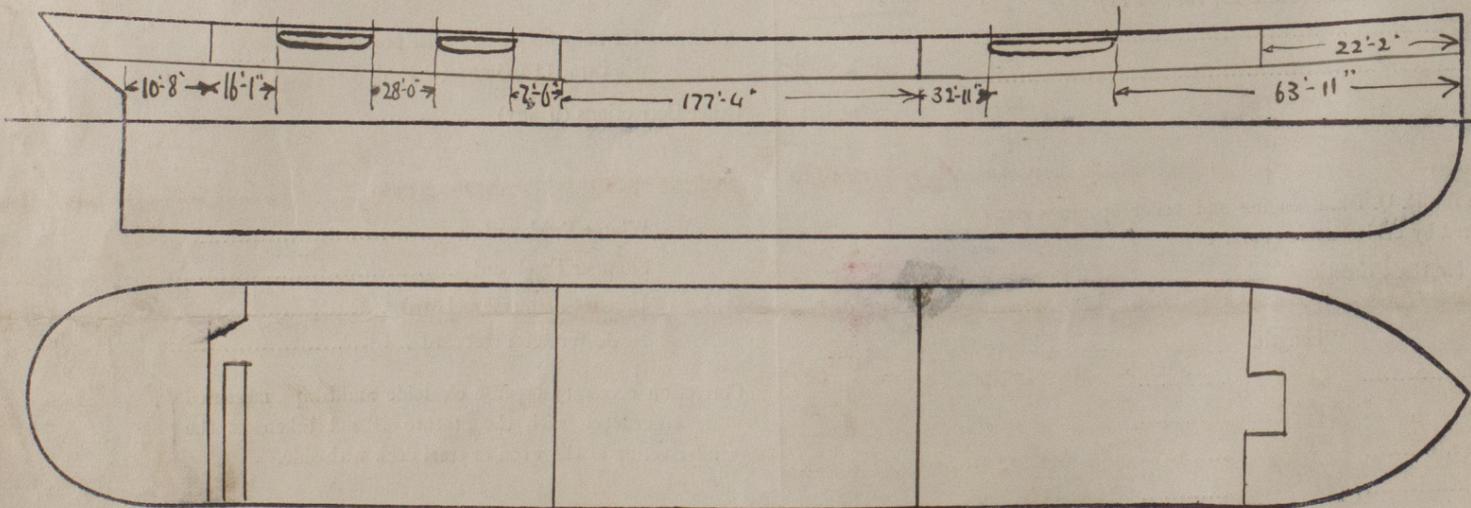
Position and Size.	No. 1. 17'-5" x 12'-0"		No. 2. 26'-0" x 14'-0"		No. 3. 25'-6" x 14'-0"					
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"		30"		30"				
	Thickness	Sides.....	.44		.44		.44			
		Ends.....	.40		.40		.40			
SHIFTING BEAMS OR WEB PLATES.	Number.....	3		5		5				
	Section and Scantlings.....	1" 3 1/2" x 40" ANGLES 3" x 3"		2" 32" x 40" ANGLES 3" x 3"		as in No. 2.				
	Material.....	2" 11" x 6" x 55" Steel.		3" 12" x 6 1/2" x 55" Steel.						
* FORE AND AFTERS.	Number.....			Nil						
	Section and Scantlings.....									
	Material.....									
HATCHES Thickness.....	3"		3"		3"					
Remarks.....	gating		gating		gating					

Please also report particulars of both Shade Deck & Upper Deck Hatchways. Supp

\* 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.  
 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 \_\_\_\_\_

Builder's name and yard number \_\_\_\_\_

Names of sister vessels Egra.

Owners \_\_\_\_\_

Address \_\_\_\_\_

Fee Peper : 150/-

Received by me \_\_\_\_\_



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