

# Lloyd's Register of British & Foreign Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

No. 24537

21142

JULY 2 AUG 1910

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

Port of Survey SunderlandDate of Survey 29<sup>th</sup> July 1910Name of Surveyor J. S. Shute

Ship's Name SS "Boyne" Port of Registry and Nationality London Official Number 129121 Gross Tonnage 4431 Date of Build New Vessel Particulars of Classification 100 A1 (Contemplated)

Registered dimensions from ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK Tonnage.	Moulded Depth as measured.
	373.70	51.50	26.20	4113.08	28.9"
Length on LOADLINE	373.2	Frame Depth 9' Ceiling Filled Rule "6" Sheer +.85" 6" = 2x3" Tank top - .5" level.	26.20	4113.08	28.9"
CORRECTED DIMENSIONS.	373.2	51.0	27.0	4113.08	28.9"

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

Co-efficient of fineness ..... .798  
Any modification necessary [Para. 4 (a) to (e)] .02 Cellular D.B.  
Co-efficient as corrected ..... .778 say .78

Sheer { Stem... 108 }  
at { Sternpost... 51.5 }  $189.5 \div 2 = 79.75$  Mean

Sheer at  $\frac{1}{2}$  of the length from { Stem 60 }  
Sternpost 26.75 }  $86.75 \div 2 = 43.375$  Mean

Gradual mean Sheer ..... 78.85  
Standard mean Sheer (Table, Para. 18) ..... 47.32 Correction  
Difference ..... 31.53  
If limited as Para. 18 (f) ..... 7.3

Rise in Sheer from amidships { At front of bridge house .....  
[Para. 18 (e)] { Lowest point of sheer amidships  
At after end of forecastle .....  
Fall in sheer { Para. 18 (d) }  $\div 2 =$  ✓  
Length uncovered ..... ✓

## ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 10.3  
Correction for Length, if required (Para. 12, 13, and 14) ..... 2  
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) ..... 6.9  
Difference ..... 2.8  
Percentage as below..... 39.6  
= 13"

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) ✓  
Allowance for Deck Erections ..... 1.1

	Length.	Length allowed.	Height.
Forecastle.....	38.0	38.0	7.0
Bridge House .....	159.37	159.37	7.0
† Raised Qr. Dk.....			
Poop.....	25.12	25.12	7.5
Total .....		222.49	
Length of Ship .....	373.2		

Corresponding percentage { (Para. 12, 13, and 14) } 39.6

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

Fresh Water Line above centre of Disc ... 5.3  
Indian Summer Line " " 6  
Winter Line below " 5  
Winter North Atlantic Line " " 5

† 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 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.

CORRECTION FOR LENGTH.  
Length of Ship on Loadline..... 373.2  
Length in Table ..... 345.0  
Difference ..... 28.2  
Correction for 10ft., Table A. .... 1.5 Table C.  
× Difference divided by 10 ..... 4.23 (if required.)  
If  $\frac{1}{2}$  the length covered divide by 2 + 4.23 + 2

CORRECTION FOR IRON DECK.  
Proportion covered, if less than  $\frac{1}{10}$ ths length covered ..... .5961  
Thickness of usual wood deck, less stringer..... 3  
2.09 - 2

CORRECTION FOR ROUND OF BEAM.  
Breadth at Gunwale amidships..... 49.4  
Round of Beam..... 12  
Normal round ..... 12  
Difference ..... 2  
Proportion of Deck uncovered (Para. 19) ..... ✓

Freeboard, Table A ..... 7.5  
Correction for Sheer ..... 7.5  
6.5

Correction for Length ..... 4.4  
Allowance for Deck Erections ..... 1.1  
Correction for Round of Beam..... 5.8

Correction for fall in Sheer (if any) ..... ✓  
Correction for Iron Deck (if required) ..... 2  
5.6

Additions for non-compliance with provisions of Para. 11 (d) and (e) † ..... ✓  
Other Corrections (if any)..... ✓

Winter Freeboard ..... 5.6  
Summer Freeboard ..... 5.1  
Indian Summer Freeboard ..... 4.8  
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. + 2

Winter Freeboard from deck line ..... 5.8  
Summer " " ..... 5.3  
Indian Summer " " ..... 4.10  
N. A. Winter " " .....

† 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 13 JAN 1930  
RECEIVED 6 AUG 1910

Lloyd's Register Foundation  
P.T.O.

W 512-0402

Do all the Frames extend to the top height in the Poop? Yes Raised Quarter Deck? ✓ Bridge House? Yes Forecastle? Yes  
 To what height do the Reverse Frames extend? Bull angle Frames.  
 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 (Openings = 3.1) Steel warrings 18" x 18" storm boards  
 Is the Poop or 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 Bolted plates. Bolts = 6" apart. (Openings = 3.3)  
 What is the thickness of the Bridge Front plating? .40 and Coaming plate? .40  
 Give scantlings and spacing of the Stiffeners Bull angle 8" x 3 1/2" x .64 spaced 30. At openings = Bull 8" x .46 & T Bar 6" x 4" x .56.  
 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? (Openings = 3.2) Steel warrings = 18" x 18" storm boards full height in (steel) riveted grooves.  
 Is the Forecastle at least as high as the main or top-gallant rail? 7-0 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? Yes.  
 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 ✓  
 What is the height of the exposed Casings? ✓ 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.	25'-6" x 17'-11 1/2"		27'-1 1/2" x 17'-11 1/2"		10'-7 1/2" x 17'-11 1/2"		25'-6" x 17'-11 1/2"		25'-6" x 17'-11 1/2"	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of Deck	3'-10"	2'-0"	1'-6"	1'-6"	1'-6"	1'-6"	3'-6"	2'-0"	3'-6"	2'-0"
Thickness	4.4	4.4	4.4	4.4	3.6	3.6	4.4	4.4	4.4	4.4
SHIFTING BEAMS OR WEB PLATES.	Five	Five	Five	Five	One	One	Five	Five	Five	Five
Number	Five	Five	Five	Five	One	One	Five	Five	Five	Five
Section and Scantlings	Centre = 18" x 20 1/2" Side = 14" x 16 1/2" angles 4" x 3" x .40	Centre = 18" x 20 1/2" Side = 14" x 16 1/2" angles 4" x 3" x .40	Centre = 21" x 23 1/2" Side = 16" x 18 1/2" angles 4" x 3" x .40	Centre = 21" x 23 1/2" Side = 16" x 18 1/2" angles 4" x 3" x .40	Centre = 26" x 40" Side = 23" x 40" angles 4" x 3" x .40	Centre = 26" x 40" Side = 23" x 40" angles 4" x 3" x .40	Same as No. 1	Same as No. 1	Same as No. 1	Same as No. 1
Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
FORE AND AFTERS.	None	None	None	None	None	None	None	None	None	None
Number	None	None	None	None	None	None	None	None	None	None
Section and Scantlings	None	None	None	None	None	None	None	None	None	None
Material	None	None	None	None	None	None	None	None	None	None
HATCHES Thickness	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Remarks										

\* 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? 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 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.

x x x Total deficiency or excess = Sq. ft.

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State any special features in the construction of the Vessel See plans enclosed (3)

A Provisional Freeboard was assigned to this vessel & forwarded to the Indian Summer

Builders on the 22<sup>nd</sup> Dec<sup>r</sup> 1909.

Owners J. S. Shube

Address ✓

Fee £ ✓ Received by me ✓