

# EXT Lloyd's Register of British & Foreign Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

N<sup>o</sup> 10124  
30695

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 Aberdeen  
Date of Survey 6<sup>th</sup> to 9<sup>th</sup> December 1909  
Name of Surveyor Ridley Small

<b>BRIARTHORN</b> Ship's Name <u>Beltic Pride - A Halliday No 455</u>	Port of Registry and Nationality <u>Null. British</u>	Official Number <u>129256</u>	Gross Tonnage <u>437</u>	Date of Build. <u>1909 110</u>	Particulars of Classification <u>100 A.1. "Bell beam" contemplated.</u>
Number in Register Book					

Registered Length from Register	LENGTH <u>155.3</u>	BREADTH <u>25.25</u>	DEPTH <u>To ceiling 9.85</u>	UNDER DECK Tonnage <u>306.48</u>
Length on LOADLINE	<u>154.66</u>	Frame Depth Rule <u>3</u>	Ceiling + <u>2.08</u> Sheer + <u>2.065</u> Stem top to ord. floor <u>13 1/2" deep 1.458</u>	Peak Tanks <u>✓</u> Stem top to ord. floor
CORRECTION DIMENS	<u>154.66</u>	<u>25.084</u>	<u>11.806</u>	<u>329.156</u>

Moulded Depth as measured 12' 2"

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>154.66</u>
Length in Table	<u>146</u>
Difference	<u>8.66</u>
Correction for 10ft., Table A.	<u>.9</u>
× Difference divided by 10	<u>.449</u>
If 1/10ths length covered divide by 2	<u>.389</u>
Table C. (if required.)	<u>+ 1/2</u>

Co-efficient of fineness  $\frac{329.156}{154.66 \times 25.084 \times 11.806} \times 100 = .778$

Any modification necessary [Para. 4 (a) to (e) \*]

Co-efficient as corrected .778 .72

Sheer at Stem 56 1/2" } 42" ÷ 2 = 36" ... Mean  
at Sternpost 18 1/2"

Sheer at 1/2 of the length from Stem 29 1/2" } 38 1/2" ÷ 2 = 19 1/4" ... Mean  
Sternpost 9'

Gradual mean Sheer 35

Standard mean Sheer (Table, Para. 18) 25 1/2 .46

Difference 9.54 ÷ 4 = 2 1/8 - 2 1/2

§ If limited as Para. 18 (f).....

Correction for Iron Deck.

Proportion covered, if less than 1/7ths length covered .763

Thickness of usual wood deck, less stringer -3"

Rise in Sheer from amidships [Para. 18 (e)]

At front of bridge house 3 1/2"

At after end of forecastle 29 1/2"

Fall in sheer Para. 18 (d) ✓ ÷ 2 = ✓

Length uncovered ..... Correction

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships 25

Round of Beam 6

Normal round 6.25

Difference 25 ÷ 2 = 12.5 - 6 = 6.5

Proportion of Deck uncovered (Para. 19) 237

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

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C	<u>3.66</u>	<u>0' 3 1/2"</u>
Correction for Length, if required (Para. 12, 13, and 14)	<u>1.695</u>	
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14)	<u>1.6 3/4</u>	
Difference	<u>1.6 3/4</u>	
Percentage as below	<u>64.43</u>	<u>9 1/4"</u>
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)	<u>+ 1/4</u>	
Allowance for Deck Erections	<u>- 9 1/2"</u>	

Freeboard, Table A	<u>1-9.33</u>	<u>1' 9 1/2"</u>
Correction for Sheer	<u>2.38</u>	<u>2 3/8"</u>
Correction for Length	<u>1-6.95</u>	<u>1' 6 3/4"</u>
Allowance for Deck Erections	<u>9.65</u>	<u>9 1/2"</u>
Correction for Round of Beam	<u>6.5</u>	<u>6 1/2"</u>
Correction for fall in Sheer (if any)	<u>9.72</u>	<u>9 3/4"</u>
Correction for Iron Deck (if required)	<u>- 0.3</u>	<u>0' 3"</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †		<u>3 - 10</u>
Other Corrections (if any)		<u>Height of raised Quarter Dk.</u>
Winter Freeboard	<u>8' 4 1/4"</u>	<u>8' 4 1/4"</u>
Summer Freeboard	<u>0' 5 1/4"</u>	<u>0' 5 1/4"</u>
Indian Summer Freeboard		
N. A. Winter Freeboard		

Forecastle	Closed. <u>16.8</u> Open. <u>3.5</u>	Length allowed <u>44.5</u>	Height <u>19.41</u>
Bridge House	<u>8.75</u>	<u>8.75</u>	<u>8.66</u>
† Raised Qr. Dk.	<u>89.83</u>	<u>89.83</u>	<u>8.83</u>
Poop	<u>✓</u>	<u>✓</u>	
Total	<u>118.08</u>	<u>117.99</u>	<u>46.53</u>
Length of Ship	<u>154.66</u>	<u>154.66</u>	<u>462.7629</u>
Corresponding percentage (Para. 11, 12, 13, or 14)	<u>62.5%</u>	<u>64.43</u>	

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>8' 8" 4.5%</u>
Summer " " " "	<u>8' 8" 4.4</u>
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	...
Indian Summer Line	" " "	...
Winter Line	below " "	...
Winter North Atlantic Line	" " "	...

Amended Tables March 1906.

† 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.

¶ 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.

Do all the Frames extend to the top height in the Poop?  Raised Quarter Deck? *Yes* Bridge House *Yes* Forecastle? *Yes*  
 To what height do the Reverse Frames extend? *(In machinery space only) To upper tier of bridge*  
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Connected to bridge*  
 Give particulars of the means for closing the openings in Bulkhead   
 Is the Poop or 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? *20* and Coaming plate? *20*  
 Give scantlings and spacing of the Stiffeners *B.A. 6" x 3" x 20" spaced 30"* Bridge plated across at fore end *21" x 20"*  
 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? *Strong tear door 15" sill above R.Q.D.*  
 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? *no Raised Quarter deck.*  
 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 *Coaming 20, topsides 20, Stiffeners angles 3 1/2" x 3" x 20" spaced 30"*  
 What is the height of the exposed Casings? *6' 6"* Are suitable means provided for closing all openings in them in bad weather? *Steel hinged*  
 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.	Inwell. 24' 5" x 14' 0"		R.Q.D. 24' 5" x 14' 0"		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
	Ship.	Rule.	Ship.	Rule.						
COAMING.	Height above top of DECK	36"	30"	36"	24"					
	Thickness	Sides.....	20	20	20	✓	✓		✓	✓
		Ends.....	20	20	20					
SHIFTING BEAMS OR WEB PLATES.	Number.....	2	2	2	2					
	Section and Scantlings.....	42" x 20"	42" x 20"	42" x 20"	42" x 20"	✓	✓		✓	✓
	Material.....	2 1/2" x 2 1/2" x 30"	2 1/2" x 2 1/2" x 30"	2 1/2" x 2 1/2" x 30"	2 1/2" x 2 1/2" x 30"					
FORE AND AFTERS.	Number.....	3		3						
	Section and Scantlings.....	Center 8x4 Sides 4x6		Center 8x4 Sides 4x6		✓	✓		✓	✓
	Material.....	pitchpine		pitchpine						
HATCHES	Thickness.....	2 1/2" w.w.		2 1/2" w.w.		✓	✓		✓	✓
	Remarks.....	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.)

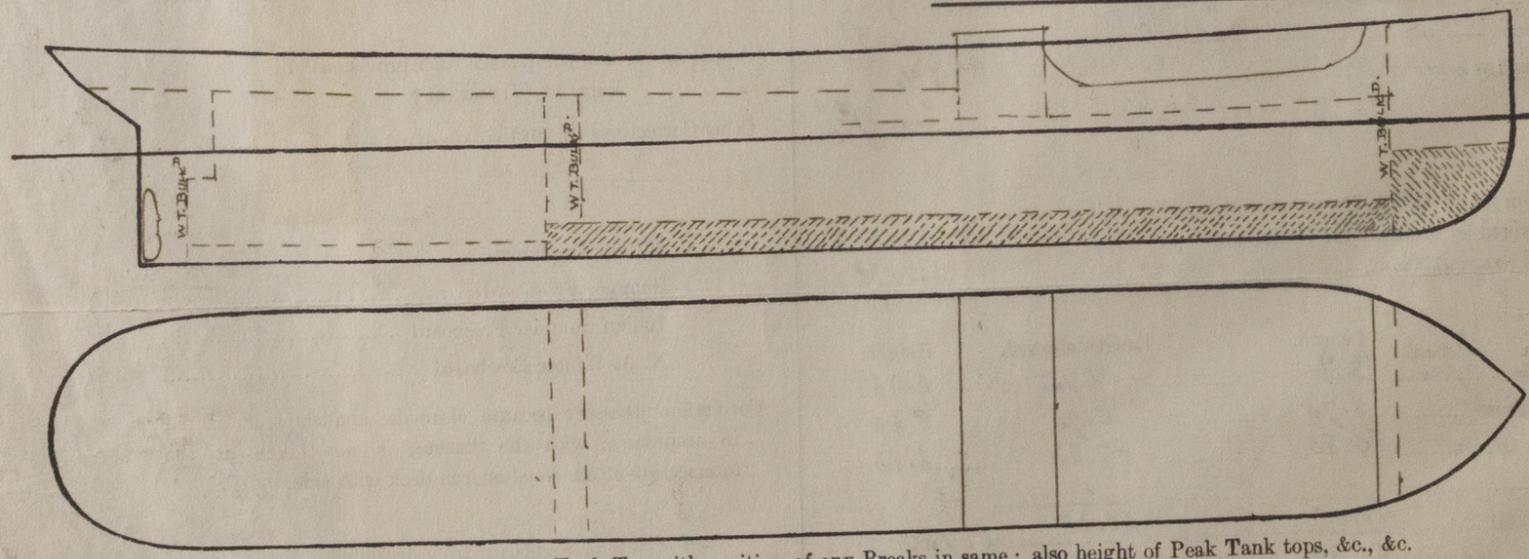
The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.  
 What is the thickness of the Bridge Sheerstrake? *20* Strake between Main and Bridge Sheerstrakes? *20*

Delete the words *{ The Crew 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.* *Special facilities*

Length of Bulwarks in well *36.66 feet.*  
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *10.166* Sq. ft.  

Ft.	Tenths.	Ft.	Tenths.	No.	} Freeing Ports (each side of vessel) = <i>10.486</i> Sq. ft.
2.33	x	1.5	x	3	
✓	x	✓	x	✓	

 Total deficiency or excess = *.319* 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 *Heavy angle framing. No reversed frames except in machinery space. Main & Raised quarter decks, steel uncovered. Bridge & Fore-castle decks wood. Midship section & Profile plans forwarded for reference.*

Owners  
 Address  
 Fee £

Received by me

