

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

SURVEYS FOR FREEBOARD.

SAT. 21 FEB 1891

PARTICULARS IN RESPECT OF STEAM SHIPS WITH TOP GALLANT FORECASTLES, HAVING LONG POOPS OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR SHORT POOP AND BRIDGE HOUSE DISCONNECTED, OR BRIDGE HOUSE.

Port of Survey *Newcastle on Tyne*
Date of Survey *18th February 1891*
Name of Surveyor *J. H. Cooke*

Ship's Name. *S.S. "Cairngowan"*
Number in Register Book *43*
Gross Tonnage. *1269*
Official Number. *88733*
Type of Ship. *Well deck*
Date of Build. *1883-6 tier*
Particulars of Classification. *+100 A1*
SS. S.H.C. No 1-87

Registered Length *225.4* Breadth *34.05* Depth *16.3*
Length on Loadline..... *224.5*
Breadth *34*
Depth *16.3*
Tons und. Dk. *1023*
124417.9 *10230000* *1.82*
9953432
2765680
2488358
Co-efficient of fineness..... *.82*
Any modification necessary } *Under letter law*
[Para. 4 (a) to (e)]
Co-efficient as corrected

Sheer { Stem... *62* } *89 ÷ 2 = 44.5* Mean
at { Sternpost... *27* }
Sheer at $\frac{1}{2}$ of the length from { Stem ✓
Sternpost ✓
Standard Sheer (Table, Para. 16)..... *32.2* Correction
Difference..... *12 ÷ 4 = 3*
Rise in sheer { At front of bridge house..... *5"*
from amidships { *allow - 1/2"*
[Para. 16 (e)] { At after end of forecastle *43*

ALLOWANCE FOR DECK ERECTIONS:—
Freeboard, Table C..... *1-6.1*
Correction for Length, if required (Para. 12 and 13)..... ✓
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12 and 13) } *3-0*
Difference..... *1-6-18"*
Percentage as below *63.48%*
11 1/2
11.34

Correction of R. Q. Dk. less than 4ft. high, or if engine and boiler openings not covered by bridge house } ✓
*Allowance for Deck Erections *1 1/2*
Length. Length allowed. Height.
Forecastle *23.5* *23.5* *7'*
Bridge House..... *57.5* *57.5* *7'*
Raised Qr. Dk. ... *77.0* *77.0* *4'*
Poop
Total..... *158.0* *158.0* = *7.04*
Length of Ship *224.5*

Corresponding percentage } *7.04 = 3.13%*
(Para. 11, 12, or 13.) }

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line:—
Fresh Water Line above centre of Disc ...
Indian Summer Line " " " ...
Winter Line below " " ...
Winter North Atlantic Line " " " ...

Moulded Depth as measured *17'-6"*
CORRECTION FOR LENGTH:—
Length of Ship on load line..... *224.5*
Length in Table *210.0*
Difference*..... *14.5*
Correction for 10ft., Table A. ... *1.1* Table C.
× Difference* divided by 10 ... *1.595* (if required.) ✓
If $\frac{1}{10}$ ths length covered divide } *27.59*
by 2. } *.79 = + 3/4*

CORRECTION FOR IRON DECK:—
Proportion covered, if less than $\frac{1}{10}$ ths length covered..... *3*
Thickness of usual wood deck, less stringer *3*

CORRECTION FOR ROUND OF BEAM:—
Round of Beam..... *5*
Normal round *5 1/2*
Difference *3 1/2 ÷ 2 = 1.75 = 1 3/4*
Proportion of Deck uncovered (Para. 17) *10 5/25 = 3 3/10 = 3 1/2*
Freeboard, Table A *3-3*
Correction for Sheer..... *-3*
Correction for Length *+ 3/4*
Allowance for Deck Erections *-11 1/2*
Correction for Round of Beam..... *+ 1 1/2*
Correction for Iron Deck (if required) *-3*
Additions for non-compliance with provisions of Para. 11 (e) and (f) }

Other corrections (if any).....
Winter Freeboard *1-10 1/4*
Summer Freeboard *1-8 1/4*
N. A. Winter Freeboard *2-2 1/2*
Correction necessary because clearside amidships measured in accordance with the Statutes is not taken at the intersection of the deck with side } *3/4*

Winter Freeboard from deck line..... *1-11*
Summer " " " " *1-9*
N.A. Winter " " " " *2-3*

Winter Freeboard from deck line..... *1-9*
Summer " " " " *1-9*
N.A. Winter " " " " *2-3*

* Particulars should be stated on the back of this Form as to the character of the Erections, and whether closed in or not.

† State dimensions of freeing port area on the back of this form.
‡ Marked in accordance with Sec. 25, 76.

ERASE WORDS WHICH 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 ~~66 1/2~~ $2/33 \div 5$

= Sq. Ft. 26.6

Freeing Ports.		No.
Ft. Tenth.	Ft. Tenth.	
2.5	x 1.66	x 8
	x	x

= Sq. Ft. 33.2

Total deficiency = Sq. Ft. ✓

Total excess = 6.6

CHARACTER OF DECK ERECTIONS.

Do all the Frames extend to the top height in the Poop? ✓

Do. do. do. in the Raised Quarter Deck? Yes

Do. do. do. Bridge House? Yes

Do. do. do. Forecastle? Yes

To what height do the Reverse Frames extend? To hold stringer & gunwale alternately

Has the ~~Poop~~ or raised Quarter Deck an efficient Iron Bulkhead at its fore end? Yes

State whether the Bridge House efficiently covers the Engine and Boiler Openings Yes

Has the Bridge House an efficient Iron Bulkhead at the fore end? No doors closed bridge

Are efficient Doors fitted to the Passage Ways? Closed bridge

Describe how and to what extent it is Stiffened, by angle Irons, Bulb Plates, or otherwise Bulb Angles & Knees fitted to Iron tr. & bridge deck

Has the Bridge House an efficient Iron Bulkhead at the after end? Yes

Are efficient Doors fitted to the Passage Ways? ✓

Are efficient Iron Doors fitted to the Passages of the Bridge House, or is it entered from above? Entered from above

Has the Forecastle an efficient Iron or Wood Bulkhead at its after end Open except in way of side lockers

Are the Hatchways efficiently constructed? Yes State the height of the Coamings 39" in well

Are the Hatches solid? Yes What is their thickness? 2 1/2

Are the exposed parts of the Engine and Boiler Casings efficiently constructed? Yes

State any special features in the construction of the Vessel

The Owner states that she has been running at 1' 7" freeboard from top of iron deck ^{at side} in summer, and 1' 9" in winter.

Owners Cairns & Young

" Address Newcastle

Fee £ 190/-

Received by me

" Address

Fee £ 3 : 3

Received by me



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