

# Lloyd's Register of British & Foreign Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

19604

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 Copenhagen  
Date of Survey 7th January 1908  
Name of Surveyor N. Some

Ship's Name. S.S. "Washington" Port of Registry and Nationality. Copenhagen Danish Official Number. 1908 Gross Tonnage. 100 A1 (Class contemplated) Date of Build. 1908 Particulars of Classification.

Registered dimensions from Ship's Register. Length. 215.6 Breadth. 35.2 Depth. 12.4 UNDER DECK Tonnage. 718.6

Length on LOADLINE 215.3 Frame Depth 75 Ceiling 27 1/2 Peak 27 1/2 Tanks 207 1/2

Rule "4" Sheer ✓ Depth to inner bottom 207 1/2 Long 9 ft 6 in 3 tons say

Corrected Dimensions. Length. 215.3 Breadth. 34.86 Depth. 12.6 Tonnage. 718.6

Moulded Depth as measured 14'-9 1/4"

15'-5 1/4"  
2'-10 1/4"  
12'-7 1/4"

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 215.3  
Length in Table 177.25  
Difference 38.05  
Correction for 10ft., Table A. 1" Table C.  
× Difference divided by 10 3.8 (if required.)  
If 1/10ths length covered divide by 2 + 2

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered 66.1  
Thickness of usual wood deck, less stringer 3"  
2.88 2 1/2 - 3

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships 34'  
Round of Beam 8 1/2"  
Normal round 8 1/2"  
Difference ÷ 2 =  
Proportion of Deck uncovered (Para. 19) 10 3/4

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

Co-efficient of fineness 76 75  
Any modification necessary [Para. 4 (a) to (e) \*] .02 for Double Bottom  
Co-efficient as corrected 74 73

Sheer at Stem 57 1/2  
at Sternpost 20 1/2  
Sheer at 1/4 of the length from Stem 28 1/2  
Sternpost 6 1/2  
Gradual mean Sheer 31.81  
Standard mean Sheer (Table, Para. 18) 31.81 Correction 53  
Difference .70 ÷ 4 = .175  
If limited as Para. 18 (f) .28

Rise in Sheer from amidships [Para. 18 (e)]  
At front of bridge house 11  
At after end of forecastle 11  
Fall in sheer Para. 18 (d) ÷ 2 =  
length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C. 0'-6 1/2  
Correction for Length, if required (Para. 12, 13, and 14) 2'-4 1/2  
Freeboard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) 28.4  
Difference 21.93  
Percentage as below 49.8%  
11.00  
50.2  
= 11.1

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) 10 3/4  
Allowance for Deck Erections 10 3/4

|                       | Length.         | Length allowed. | Height. |
|-----------------------|-----------------|-----------------|---------|
| Forecastle            | 25              | 25.8            | 7.0     |
| Bridge House          | 58              | 58              | 7.0     |
| Raised Qr. Dk.        | 65.5 × 3.5/3.77 | 60.8            | 3.6     |
| Total                 | 148.5           | 144.6           | 66.8    |
| Length of Ship        | 215.3           |                 |         |
| Correcting percentage | 49.8%           |                 |         |

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

|                      | Fresh Water Line | Indian Summer Line | Winter Line | Winter North Atlantic Line |
|----------------------|------------------|--------------------|-------------|----------------------------|
| above centre of Disc | ...              | ...                | ...         | ...                        |
| below                | ...              | ...                | ...         | ...                        |

Freeboard, Table A 2'-4.5  
Correction for Sheer 2'-4.43  
Correction for Length 2'-6.33  
Allowance for Deck Erections 1'-7.33  
Correction for Round of Beam 1'-8 1/2  
Correction for fall in Sheer (if any) ✓  
Correction for Iron Deck (if required) 2'-2.88  
Additions for non-compliance with provisions of Para. 11 (d) and (e) 1'-5 1/2 4 1/2  
Other Corrections (if any) ✓

Winter Freeboard 1'-4.45  
Summer Freeboard 1'-2.65  
Indian Summer Freeboard 1'-5 1/2 4 1/2  
N. A. Winter Freeboard 1'-4 1/2

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 1/2"

Winter Freeboard from deck line 1'-4 1/2  
Summer 1'-5 1/2 4 1/2  
Indian Summer 1'-4 1/2  
N. A. Winter 1'-4 1/2

Dimensions of freeing port area on back of this form.

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.

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004971-004981-0176



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

19605  
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? *Bulk angle frames*  
Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *R.Q.D. connects to Bridge House*  
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 *Watertight hinged and bolted doors.*  
What is the thickness of the Bridge Front plating? *6/20* and Coaming plate? *1/20*  
Give scantlings and spacing of the Stiffeners *Bulk angles 7x3x9/20 spaced 30"*  
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? *Watertight plates screwed on Bulkhead* *nut & screw bolts spaced 4 1/2" passing through bulkhead plating*  
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? *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?  
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.            | Fore hatch 19'-2" x 14'-0"  |            | Main hatch 21'-1" x 14'-0" |          | After hatch 21'-1" x 14'-0" |          | Ship. | Rule. | Ship. | Rule. |
|-------------------------------|-----------------------------|------------|----------------------------|----------|-----------------------------|----------|-------|-------|-------|-------|
| Item.                         | Ship.                       | Rule.      | Ship.                      | Rule.    | Ship.                       | Rule.    | Ship. | Rule. | Ship. | Rule. |
| COAMING.                      | Height above top of DECK    | 30"        | 30"                        | 30"      | 24"                         | 24"      |       |       |       |       |
|                               | Thickness { Sides.....      | 9/20       | 9/20                       | 9/20     | 9/20                        | 9/20     |       |       |       |       |
|                               | { Ends.....                 | 8/20       | 9/20                       | 8/20     | 8/20                        | 8/20     |       |       |       |       |
| SHIFTING BEAMS OR WEB PLATES. | Number.....                 | 1          | 1                          | 2        | 2                           | 2        |       |       |       |       |
|                               | Section and Scantlings..... | 3x3x7/16   | 3x3x7/16                   | 3x3x7/16 | 3x3x7/16                    | 3x3x7/16 |       |       |       |       |
|                               | Material.....               | Steel      | Steel                      | Steel    | Steel                       | Steel    |       |       |       |       |
| FORE AND AFTERS.              | Number.....                 | 3          | 3                          | 3        | 3                           | 3        |       |       |       |       |
|                               | Section and Scantlings..... | one 9x9/20 | As in                      | As in    | As in                       | As in    |       |       |       |       |
|                               | Material.....               | Steel      | Steel                      | Steel    | Steel                       | Steel    |       |       |       |       |
| HATCHES Thickness.....        | 2 1/2"                      |            | 2 1/2"                     |          | 2 1/2"                      |          |       |       |       |       |
| 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? *10/20* Strake between Main and Bridge Sheerstrakes? *9/20*

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 *64.8'*  
Area of Freeing Ports required by Para. 11 (a) each side of vessel = *13.0* Sq. ft.  
Ft. Tenths. Ft. Tenths. No. } Freeing Ports = *14.62* Sq. ft.  
*3 25* x *1 5* x *3* (each side of vessel)  
x x  
Total deficiency or excess = *1.62* Sq. ft.



Show hereon line of Floor 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

Owners *A. S. H. Hirschman*

Address *Copenhagen*

Fee £ *2 2*



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