

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD. (COMPLETION)

Index. No. **31365**
(For London Office only.)

17 MAY 1932

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having

Port of Survey **PORT NATAL**

(Type of Superstructures.)

Date of Survey **April 1932**

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

CITY OF KIMBERLEY**British
London****148579****6204****1925**

Name of Surveyor

C. H. Boyle

Moulded Dimensions: Length

Breadth

Depth

Moulded displacement at moulded draught = 85 per cent. of moulded depth

tons

Coefficient of fineness for use with Tables

Particulars of Classification **+100. A.I.***Set for April 1932*

Depth for Freeboard (D)

Moulded depth

Stringer plate

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) =

Depth correction

(a) Where D is greater than Table depth
(D-Table depth) R =(b) Where D is less than Table depth (if allowed)
(Table depth-D) R =

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B)

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} =$$

$$\text{Ship's Round of Beam} =$$

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$$

DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S ₁) | Height | Height Correction | Effective Length (E) |
|----------------------------|-------------------------|--|--------|-------------------|----------------------|
| Poop enclosed | | | | | |
| „ overhang | | | | | |
| R.Q.D. enclosed | | | | | |
| „ overhang | | | | | |
| Bridge enclosed | | | | | |
| „ overhang aft | | | | | |
| „ overhang forward | | | | | |
| F'cl'd enclosed | | | | | |
| „ overhang | | | | | |
| Trunk aft | | | | | |
| „ forward | | | | | |
| Tonnage opening aft | | | | | |
| „ „ forward | | | | | |
| Total | | | | | |

Standard Height of Superstructure

„ „ R.Q.D.

Deduction for complete superstructure

$$\text{Percentage covered} = \frac{S}{L} =$$

$$\text{„ „} = \frac{S_1}{L} =$$

$$\text{„ „} = \frac{E}{L} =$$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =

SHEER CORRECTION.

| Station | Standard Ordinate | S M | Product | Actual Ordinate | Effective Ordinate | S M | Product |
|---------------------------------|-------------------|-----|---------|-----------------|--------------------|-----|---------|
| A.P. | | 1 | | | | 1 | |
| $\frac{1}{6}L$ from A.P. | | 4 | | | | 4 | |
| $\frac{2}{6}L$ „ | | 2 | | | | 2 | |
| Amidships | | 4 | | | | 4 | |
| $\frac{3}{6}L$ from F.P. | | 2 | | | | 2 | |
| $\frac{4}{6}L$ „ | | 4 | | | | 4 | |
| F.P. | | 1 | | | | 1 | |
| Total | | | | | | | |

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(\cdot 75 - \frac{S}{2L} \right) =$$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

T =

$$\text{Deduction} = \frac{\Delta}{40T} \text{ inches}$$

=

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

Summer Freeboard =

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

| | |
|---|--|
| Tropical Fresh Water Line above Centre of Disc | |
| Fresh Water Line „ „ | |
| Tropical Line „ „ | |
| Winter Line „ below „ „ | |
| Winter North Atlantic Line „ „ | |

| | |
|---------------------------------------|--|
| Tropical Fresh Water Freeboard | |
| Fresh Water „ „ | |
| Tropical „ „ | |
| Winter „ „ | |
| Winter North Atlantic „ „ | |

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Lloyd's Register

MAKING FORM

RECEIVED 17 MAY 1932

City of Kimberley

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

| HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS (FREEBOARD DECK WITHIN BRIDGE HOUSE) | | | | | | | | | |
|---|----------------------|------------------|---------------|---------------|------------------|----------------|-------------------------|--|--|
| Description of Hatchway | Nº 1. | Nº 2 | Nº 3 | DEEP TANK. | COALING HATCH. | COALING HATCH. | COALING TRIMMING HATCH. | | |
| Dimensions of Hatchway | 24'9"X19' | 42'X19' | 27'X19' | 12'X19' | 9'X8' | 9'X4' | 2'X2' | | |
| COAMINGS | Height above Deck | 19" | 19" | 19" | 19" | 9" | 9" | | |
| | Thickness | 5" | 6" | 6" | 6" | 4" | 4" | | |
| | Sides | 44" | 44" | 44" | 44" | 44" | 44" | | |
| | Ends | 44" | 44" | 44" | 44" | 44" | 44" | | |
| COAMINGS | Stiffeners | 12'X3 1/2'X 1/2" | 14'X4'X 1/2" | 9'X3'X 3/8" | 10'X3 1/2'X 3/8" | 1" | 1" | | |
| | Brackets, Stays | 5'2 1/2" DIA. | 8'2 1/2" DIA. | 4'2 1/2" DIA. | 1'2 1/2" DIA. | 1" | 1" | | |
| | Number | 4 | 8 | 4 | 2 | 1 | 1 | | |
| | Spacing | 5'-1" | 4'-8" | 5'-2" | 4'-2" | 1' | 1' | | |
| HATCH BEAMS | Scantling and Sketch | | | | | | | | |
| | Bearing Surface | 3 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | | |
| | Number | 4 | 8 | 4 | 2 | 1 | 1 | | |
| | Spacing | 5'-1" | 4'-8" | 5'-2" | 4'-2" | 1' | 1' | | |
| FORE AND AFTERS | Unsupported Lengths | | | | | | | | |
| | Scantling and Sketch | | | | | | | | |
| | Bearing Surface | | | | | | | | |
| | Number | | | | | | | | |
| HATCH COVERS | Material | Wood | 50. | 50. | 50. | Wood | Wood | | |
| | Thickness | 2 1/2" | 50. | 50. | 50. | 2 1/2" | 2 1/2" | | |
| | How fitted | For deck | | | | For deck | For deck | | |
| | Bearing Surface | 3" | | | | 3" | 3" | | |
| Spacing of Cleats | | 2'-4" | 2'-4" | 2'-4" | 2'-4" | 2'-4" | 2'-4" | | |
| Number of Tarpaulins | | 2 | 2 | 2 | 2 | 2 | 2 | | |

*Are wood fore and afters steel shod at all bearing surfaces? ☒
Are battens and wedges efficient and in good condition? ☒
Are tarpaulins in good condition and in accordance with rule requirements? ☒
Are lashings provided in accordance with rule requirements? ☒

Particulars of fiddle, funnel and ventilator coamings:—

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways:—

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

All Ventilators with Coamings above 36" in height now supported by substantial steel clips to bulkheads of deck houses.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

Particulars of Gangway Cargo and Coaling Ports:—

Particulars of Scuppers and Sanitary Discharge Pipes —

Particulars of Side Scuttles:—

Particulars of Guard Rails:—

Particulars of Gangways, Lifelines, etc.:—

Particulars of Freeing Arrangements.

| | Length of Bulwark | Height of Bulwark | Size of Freeing Ports | Number each side | Area each side | Rule area each side |
|--------------|-------------------|-------------------|-----------------------|------------------|----------------|---------------------|
| Water Well | | | | | | |
| Forward Well | | | | | | |

State position of each freeing port ... After Well:—
(F. and A. position and height above deck edge) Forward Well:—
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—

Additional area where sheer is less than standard.

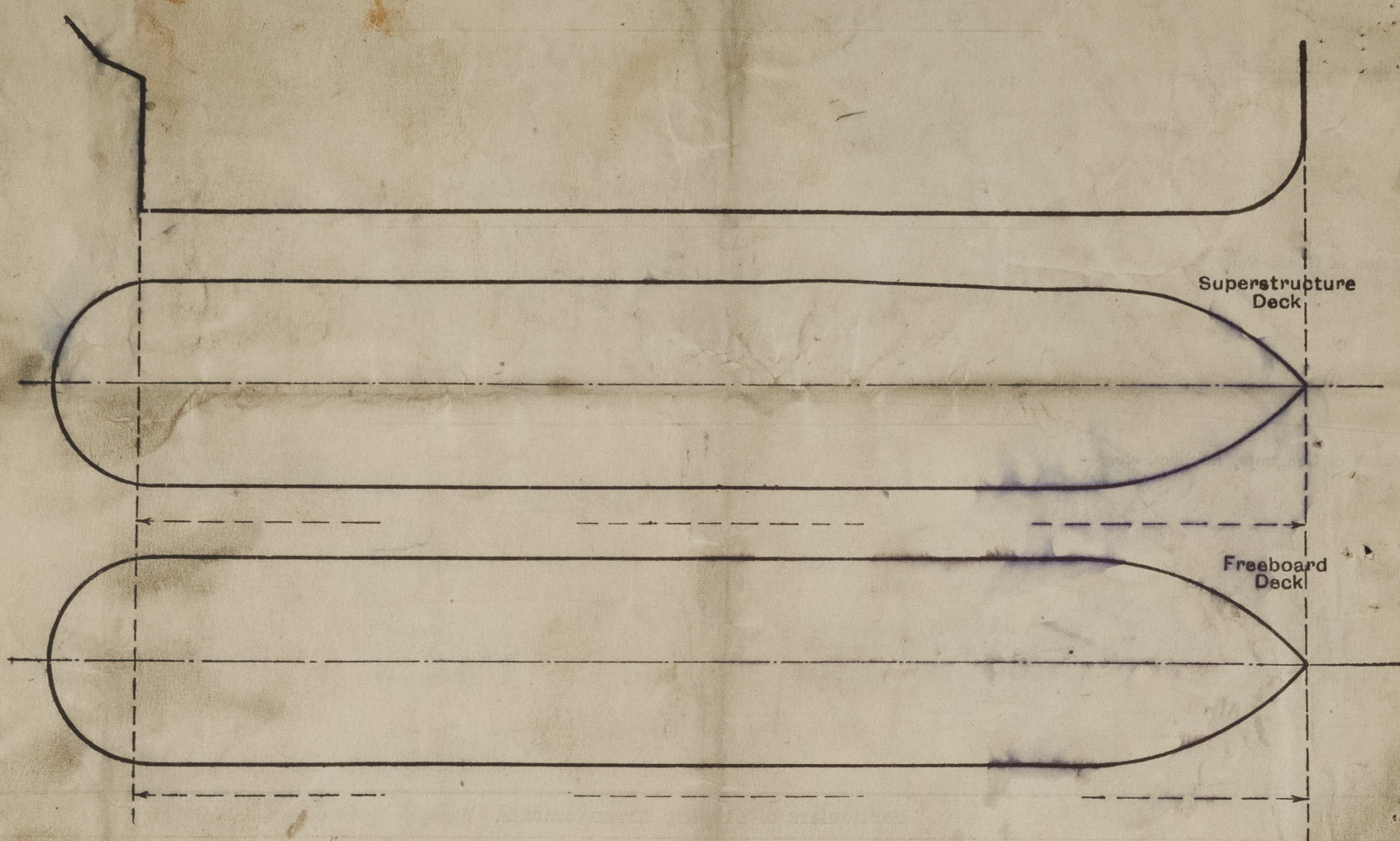
Particulars of Superstructures, Trunks, Casings, Deckhouses.

| | Coaming | Plating | Stiffeners | Spacing | End Attachments of Stiffeners | Size of Openings | Height of Sills | Height of Casings |
|---|---------|---------|------------------|---------|-------------------------------|------------------|-----------------|-------------------|
| Poop Bulkhead | | | | | | | | |
| Raised Quarter Deck Bulkhead | | | | | | | | |
| Bridge, After Bulkhead | 5/16" | 5/16" | 3"X2 1/2"X 5/16" | 3'-3" | None | 5'X4' | 24" | 8'-0" |
| Bridge, Forward Bulkhead | | | | | | | | |
| Forecastle Bulkhead | | | | | | | | |
| Trunk, Aft | | | | | | | | |
| Trunk, Forward | | | | | | | | |
| Exposed Machinery Casings on Freeboard or Raised Quarter Decks | | | | | | | | |
| Exposed Machinery Casings on Superstructure Decks | | | | | | | | |
| Machinery Casings within Superstructures not fitted with Class I Closing Appliances | | | | | | | | |
| Deckhouses on Flush Deck Ships | | | | | | | | |

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

| | |
|---|--|
| Poop Bulkhead | |
| Raised Quarter Deck Bulkhead | |
| Bridge, After Bulkhead | 3/8" steel door, with 3X3X3/8" stiffeners, secured by 7/8" bolts. 15" casing |
| Bridge, Forward Bulkhead | |
| Forecastle Bulkhead | |
| Exposed Machinery Casings on Freeboard or Raised Quarter Decks | |
| Exposed Machinery Casings on Superstructure Decks | |
| Machinery Casings within Superstructures not fitted with Class I Closing Appliances | |
| Deckhouses on Flush Deck Ships | |

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

Builder's name and yard number *W. Gray & Co. Ltd. West Hampton, York No 967.*

OWNERS. Ellerman & Bucknall S.S. Co. Ltd.

Owners.

Fee £.

Received by me.