

TIMBER

Index No. 28797
(For London Office only.)

Rpt. C.11.

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, ~~Sailing~~ Ship, Tanker
having Roop - Bridge & Fee

(Type of Superstructures.)

Ship's Name: FIRPARK
 Nationality and Port of Registry: Latvian Riga
 Official Number: 43755
 Gross Tonnage: 1955
 Date of Build: 1920-6

Moulded Dimensions: Length 279.75 Breadth 41.66 Depth 20.79
 Moulded displacement at moulded draught = 85 per cent. of moulded depth
 Coefficient of fineness for use with Tables: 763

Port of Survey: _____
 Date of Survey: 3-5-32
 Name of Surveyor: _____
 Particulars of Classification: +100A.1

| | | |
|--|--|--|
| Depth for Freeboard (D) Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>20.83</u> | Depth correction (a) Where D is greater than Table depth (D - Table depth) R = <u>+4.69</u> (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) _____ Standard Round of Beam = $\frac{B \times 12}{50} =$ _____ Ship's Round of Beam = _____ Difference _____ Restricted to _____ Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>-.64</u> |
|--|--|--|

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'cle enclosed | | | | | |
| " overhang | | | | | |
| Trunk aft | | | | | |
| " forward | | | | | |
| Tonnage opening aft | | | | | |
| " forward | | | | | |
| Total | | | | | |

Standard Height of Superstructure _____
 R.Q.D. _____
 Deduction for complete superstructure 33.97
 Percentage covered $\frac{S}{L} =$ _____
 " " $\frac{S_1}{L} =$ _____
 " " $\frac{E}{L} =$ 42.43
 Percentage from Table, Line A. _____
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. 64.52
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than 2L (if required) _____
 Deduction = 33.97 x .6452 = -21.92

SHEER CORRECTION.

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

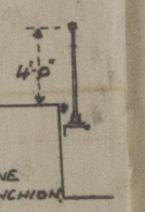
Mean actual sheer aft = _____
 Mean standard sheer aft = _____
 Mean actual sheer forward = _____
 Mean standard sheer forward = _____
 Length of enclosed superstructure forward of amidships = _____
 " " aft of " = _____

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) =$ -1.96
 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 = <u>20.83</u> ^{Ft.} Summer freeboard = <u>1.77</u> Moulded draught (d) = <u>19.06</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>4.76 = 4\frac{3}{4}</u> Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} \cdot 6.35 =$ <u>6\frac{1}{4}</u> | Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ <u>4944</u> Tons per inch immersion at summer load water line $T =$ <u>23.24</u> Deduction = $\frac{\Delta}{40T}$ inches = <u>5.32 = 5\frac{1}{4}</u> = <u>135</u> | TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <u>41.00</u> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td><u>4.69</u></td></tr> <tr><td>Deduction for superstructures</td><td><u>21.92</u></td></tr> <tr><td>Sheer correction</td><td><u>1.96</u></td></tr> <tr><td>Round of Beam correction</td><td><u>.64</u></td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>-</td></tr> <tr><td>Summer Freeboard =</td><td>21.17</td></tr> </table> | + | - | Depth Correction | <u>4.69</u> | Deduction for superstructures | <u>21.92</u> | Sheer correction | <u>1.96</u> | Round of Beam correction | <u>.64</u> | Correction for Thickness of Deck amidships | - | Other corrections, scantlings, etc. | - | Summer Freeboard = | 21.17 |
| + | - | | | | | | | | | | | | | | | | | |
| Depth Correction | <u>4.69</u> | | | | | | | | | | | | | | | | | |
| Deduction for superstructures | <u>21.92</u> | | | | | | | | | | | | | | | | | |
| Sheer correction | <u>1.96</u> | | | | | | | | | | | | | | | | | |
| Round of Beam correction | <u>.64</u> | | | | | | | | | | | | | | | | | |
| Correction for Thickness of Deck amidships | - | | | | | | | | | | | | | | | | | |
| Other corrections, scantlings, etc. | - | | | | | | | | | | | | | | | | | |
| Summer Freeboard = | 21.17 | | | | | | | | | | | | | | | | | |

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Weed, Steel, Deck:

| | | |
|--|----------------------|------------|
| TIMBER Tropical Fresh Water Line above Centre of Disc | <u>20\frac{3}{4}</u> | <u>551</u> |
| " Fresh Water Line " " | <u>16</u> | <u>410</u> |
| " Tropical Line " " | <u>15\frac{1}{2}</u> | <u>396</u> |
| " Winter Line " " | <u>4\frac{1}{2}</u> | <u>114</u> |
| " Winter North Atlantic Line " BELOW | <u>7\frac{1}{2}</u> | <u>192</u> |
| SUMMER ABOVE | <u>10\frac{3}{4}</u> | <u>275</u> |



Beams

is spaced

Engine

main

Bridge

Section th

Protection

at.

RECEIVED 22 MAY 1934
 Lloyd's Register
 MARKING FORM
 W 509 0 137 (112)

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

| HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS | | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| Description of Hatchway | | ... | ... | ... | ... | ... | ... | ... | ... |
| Dimensions of Hatchway | | ... | ... | ... | ... | ... | ... | ... | ... |
| COAMINGS | { Height above Deck ... Thickness { Sides ... Ends ... Stiffeners ... Brackets, Stays ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... | ... | ... | ... |
| HATCH BEAMS | { Number ... Spacing ... Scantling and Sketch ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... | ... | ... | ... |
| FORE AND AFTERS | { Number ... Spacing ... Unsupported Lengths ... Scantling* and Sketch ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... | ... | ... | ... |
| HATCH COVERS | { Material ... Thickness ... How fitted ... Bearing Surface ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... | ... | ... | ... |
| Spacing of Cleats | | ... | ... | ... | ... | ... | ... | ... | ... |
| Number of Tarpaulins | | ... | ... | ... | ... | ... | ... | ... | ... |

*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 :—

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. :—

RETAIN

| Particulars of Freeing Arrangements. | | | | | | |
|--------------------------------------|-------------------|-------------------|-----------------------|------------------|----------------|---------------------|
| | Length of Bulwark | Height of Bulwark | Size of Freeing Ports | Number each side | Area each side | Rule area each side |
| After Well ... | | | | | | |
| Forward Well ... | | | | | | |

State position of each freeing port ... } After Well :—
 (P. 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 ... | | | | | | | | |
| 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 ... | |
| 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 ... | |