

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

 Index No. \_\_\_\_\_  
 (For London Office only.)

Computation of Freeboard for Forecastle and Poop, Sailing Ship, Forecastle

having Forecastle and Poop

Port of Survey London

Date of Survey 19<sup>th</sup> Aug 1933

Name of Surveyor Chas. H. Stock

Particulars of Classification +100A1

(Type of Superstructures.)

| Ship's Name     | Nationality and Port of Registry   | Official Number | Gross Tonnage | Date of Build |
|-----------------|------------------------------------|-----------------|---------------|---------------|
| <u>"PONAPE"</u> | <u>Finmark</u><br><u>Marichamn</u> | <u>778</u>      | <u>2342</u>   | <u>1903</u>   |

Moulded Dimensions: Length 277<sup>0</sup> 278.66 Breadth 42<sup>0</sup> 6 Depth 24<sup>0</sup> 24.71

Moulded displacement at moulded draught = 85 per cent. of moulded depth 5578 tons

Coefficient of fineness for use with Tables .785 (.72 highest in table.)

| Depth for Freeboard (D)                             |       | Depth correction   |  | Round of Beam correction   |   |
|---|-------|--|--|--|---|
| Moulded depth                                       | 24.71 | (a) Where D is greater than Table depth<br>(D - Table depth) R =           |  | Moulded Breadth (B)  | 42.50'                                  |
| Stringer plate                                      | .04   | (24.94 - 23.22) 2.115 = +3.64"   |  | Standard Round of Beam = $\frac{B \times 12}{50}$                              | 10.20"                                  |
| Sheathing on exposed deck                           |       | (b) Where D is less than Table depth (if allowed)<br>(Table depth - D) R = |  | Ship's Round of Beam   | 12.00"                                  |
| $T \left( \frac{L-S}{L} \right) = .25 \times .7608$ | .19   | If restricted by superstructures   |  | Difference   | 1.80'                                   |
| Depth for Freeboard (D) =                           | 24.94 |  |  | Restricted to  |   |
|   |       |  |  | Correction = $\frac{\text{Diff}^*}{4} \times \left( 1 - \frac{S_1}{L} \right)$ | $= \frac{1.80}{4} \times .7608 = -.35"$ |

## DEDUCTION FOR SUPERSTRUCTURES.

| Mean Covered Length (S) | Equivalent Enclosed Length (S <sub>1</sub> ) | Height | Height Correction | Effective Length (E) |  |
|-------------------------|--|--------|-------------------|----------------------|--|
| Poop enclosed ...       | 36.10  | 7.3    |                   | 36.83                |  |
| " overhang ...          | 4.0  |        |                   | 2.00                 |  |
| R.Q.D. enclosed ...     |  |        |                   |                      |  |
| " overhang ...          |  |        |                   |                      |  |
| Bridge enclosed ...     |  |        |                   |                      |  |
| " overhang aft ...      |  |        |                   |                      |  |
| " overhang forward ...  |  |        |                   |                      |  |
| F'cle enclosed ...      | 25.10  | 6.75   |                   | 25.83                |  |
| " overhang ...          |  |        |                   |                      |  |
| Trunk aft ...           |  |        |                   |                      |  |
| " forward ...           |  |        |                   |                      |  |
| Tonnage opening aft ... |  |        |                   |                      |  |
| " forward ...           |  |        |                   |                      |  |
| Total ...               | 66.66  |        |                   | 64.66                |  |

Standard Height of Superstructure 6.287

" " R.Q.D.

Deduction for complete superstructure 22.87

Percentage covered  $\frac{S}{L} = 23.92\%$

" "  $\frac{S_1}{L} = 23.20\%$

" "  $\frac{E}{L} = 23.20\%$

Percentage from Table, Line A.  
(corrected for absence of forecastle (if required)) 14.28%

Percentage from Table, Line B.  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required)

Deduction = 22.87 × .1428 = -3.27

## SHEER CORRECTION.

| Station                       | Standard Ordinate | S | M | Product | Actual Ordinate | Effective Ordinate | S | M | Product |
|-------------------------------|-------------------|---|---|---------|-----------------|--------------------|---|---|---------|
| A.P. ...                      | 37.87             | 1 |   | 37.87   | 41.00           | 41.00              | 1 |   | 41.00   |
| $\frac{1}{2}$ L from A.P. ... | 16.85             | 4 |   | 67.40   | 14.00           | 14.00              | 4 |   | 56.00   |
| $\frac{2}{3}$ L " ...         | 4.17              | 2 |   | 8.34    | .50             | .50                | 2 |   | 1.00    |
| Amidships ...                 |                   | 4 |   |         |                 |                    | 4 |   |         |
| $\frac{2}{3}$ L from F.P. ... | 8.33              | 2 |   | 16.66   | 14.00           | 14.00              | 2 |   | 28.00   |
| $\frac{1}{2}$ L " ...         | 33.70             | 4 |   | 134.80  | 43.80           | 43.80              | 4 |   | 175.20  |
| F.P. ...                      | 75.74             | 1 |   | 75.74   | 91.00           | 91.00              | 1 |   | 91.00   |
| Total ...                     |                   |   |   | 340.81  |                 |                    |   |   | 392.20  |

Mean actual sheer aft = Deficient > .75.

Mean standard sheer aft

Mean actual sheer forward = Excess.

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = 1.1 L

" " aft of " = 1.1 L

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{51.39}{18} (.75 - .1196) = -1.80$$

If limited on account of midship superstructure.

1.1 L.

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

| Deduction for Tropical Freeboard.   | Deduction for Fresh Water.                           | TABULAR FREEBOARD corrected for Flush Deck (if required) |       |
|---|--|--|-------|
| Addition for Winter and Winter North Atlantic Freeboard.                                    | Displacement in salt water at summer load water line | Correction for coefficient                               | 55.92 |
| Ft.   | $\Delta =$   |  | 60.43 |
| Depth to Freeboard Deck =   | Tons per inch immersion at summer load water line    |  |       |
| Summer freeboard =  | T =  |  |       |
| Moulded draught (d) =   | Deduction = $\frac{\Delta}{40 T}$ inches             |  |       |
| Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = |  |  |       |
| Addition for Winter North Atlantic Freeboard (if required) =                                |  |  |       |

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

|  |                                    |
|--|------------------------------------|
| Tropical Fresh Water Line above Centre of Disc ... | Tropical Fresh Water Freeboard ... |
| Fresh Water Line " " ...                           | Fresh Water " " ...                |
| Tropical Line " " ...                              | Tropical " " ...                   |
| Winter Line below " " ...                          | Winter " " ...                     |
| Winter North Atlantic Line " " ...                 | Winter North Atlantic " " ...      |

© 2026 Freeboards re-assigned

Lloyd's Register

# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

| HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS   |   |        |                          |  |  |                        |                   |  |  |  |
|---|---|--------|--------------------------|--|--|------------------------|-------------------|--|--|--|
| Description of Hatchway   |   | ... .. | <i>Open Forecastle</i>   | N <sup>o</sup> 1   | N <sup>o</sup> 2   | N <sup>o</sup> 3       | N <sup>o</sup> 4  |  |  |  |
| Dimensions of Hatchway  |   | ... .. | <i>2'3 1/2 x 2'3 1/2</i> | <i>8'0 x 10'0</i>  | <i>20'0 x 10'0</i>                                       | <i>16'0 x 10'0</i>     | <i>8'0 x 10'0</i> |  |  |  |
| COAMINGS  | { Height above Deck<br>Thickness { Sides<br>{ Ends<br>Stiffeners ...<br>Brackets, Stays ... | ... .. | <i>8'4"</i>              | <i>2'7 1/2"</i>  | <i>2'7 1/2"</i>  | <i>2'7 1/2"</i>        | <i>2'7 1/2"</i>   |  |  |  |
|   |   | ... .. | <i>.40</i>               | <i>.40</i>   | <i>.40</i>   | <i>.40</i>             | <i>.40</i>        |  |  |  |
|   |   | ... .. | <i>✓</i>                 | <i>✓</i>   | <i>✓</i>   | <i>✓</i>               | <i>✓</i>          |  |  |  |
|   |   | ... .. | <i>✓</i>                 | <i>✓</i>   | <i>✓</i>   | <i>✓</i>               | <i>✓</i>          |  |  |  |
|   |   | ... .. | <i>✓</i>                 | <i>✓</i>   | <i>✓</i>   | <i>✓</i>               | <i>✓</i>          |  |  |  |
| HATCH BEAMS   | { Number ...<br>Spacing ...<br>Scantling and Sketch   | ... .. |                          | <i>Two</i>   | <i>One</i>   |                        |                   |  |  |  |
|   |   | ... .. |                          | <i>6'8"</i>  | <i>8'0"</i>  |                        |                   |  |  |  |
|   |   | ... .. |                          | <i>2 1/2 x 3 3/4</i><br><i>1 1/2" solid</i><br><i>27 x 3/8"</i><br><i>3"</i> | <i>2 1/2 x 3 3/4</i><br><i>1 1/2" solid</i><br><i>3"</i> |                        |                   |  |  |  |
| FORE AND AFTERS   | { Number ...<br>Spacing ...<br>Unsupported Lengths<br>Scantling* and Sketch                 | ... .. |                          | <i>One</i>   | <i>Three</i>   | <i>Three</i>           | <i>One</i>        |  |  |  |
|   |   | ... .. |                          | <i>5'0"</i>  | <i>2'6"</i>  | <i>2'6"</i>            | <i>5'0"</i>       |  |  |  |
|   |   | ... .. |                          | <i>7'6"</i>  | <i>6'2"</i>  | <i>7'6"</i>            | <i>7'6"</i>       |  |  |  |
|   |   | ... .. |                          | <i>11' x 7"</i>  | <i>10' x 7" CR</i>                                       | <i>10' x 7" CR</i>     | <i>10' x 7"</i>   |  |  |  |
|   |   | ... .. |                          | <i>Oak</i>   | <i>6' x 6 Side Oak</i>                                   | <i>6' x 6 Side Oak</i> | <i>Oak</i>        |  |  |  |
| Bearing Surface   | ... ..  |        | <i>3"</i>                | <i>3"</i>  | <i>3"</i>  | <i>3"</i>              |                   |  |  |  |
| HATCH COVERS  | { Material ...<br>Thickness ...<br>How fitted ...<br>Bearing Surface                        | ... .. | <i>W.P.</i>              | <i>W.P.</i>  | <i>W.P.</i>  | <i>W.P.</i>            |                   |  |  |  |
|   |   | ... .. | <i>1 1/2"</i>            | <i>2 1/4"</i>  | <i>2 1/4"</i>  | <i>2 1/4"</i>          |                   |  |  |  |
|   |   | ... .. | <i>TKW</i>               | <i>TKW</i>   | <i>TKW</i>   | <i>TKW</i>             |                   |  |  |  |
|   |   | ... .. | <i>3/4" 2"</i>           | <i>2"</i>  | <i>2"</i>  | <i>2"</i>              |                   |  |  |  |
| Spacing of Cleats   |   | ... .. | <i>2 1/2"</i>            | <i>21"</i>   | <i>20"</i>   | <i>22"</i>             |                   |  |  |  |
| Number of Tarpaulins  |   | ... .. | <i>2</i>                 | <i>2</i>   | <i>2</i>   | <i>2</i>               |                   |  |  |  |
| <div>*Are wood fore and afters steel shod at all bearing surfaces ?<br/>Are battens and wedges efficient and in good condition ?<br/>Are tarpaulins in good condition and in accordance with rule requirements ?<br/>Are lashings provided in accordance with rule requirements ?</div> |   |        |                          |  |  |                        |                   |  |  |  |

Particulars of fiddle, funnel and ventilator coamings:—

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways:—

*On Poop Deck - Solid Teak Chalk House, Lined wood doors 1 1/4" sill 8 1/2" operated both sides - with stairway leading to Poop Space.*

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

*On Deck House tops 11" dia Coamings 16" x 18" x 1/2" provided with wood plugs & canvas covers*

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:—

*from Poop & Fore spaces, fitted with storm valves.*

Particulars of Side Scuttles:—

*In Poop Space - of substantial construction but no provision for deadlight.*

Particulars of Guard Rails:—

*Forecastle - 40" high, 3 bars with stanchions 4'6" apart  
Poop - 40" - 2 bars & teak top rail stanchions spaced 4'3" apart.  
Upper Deck Balcony - 4'7" high 5/16" plating, 10" channel stiff, 2" solid stays spaced about 5'6"*

Particulars of Gangways, Lifelines, etc.:—

*An efficient fore and aft gangway is provided from Poop to Forecastle over deck houses.*

*Brew berthed in midship houses & in poop.*

## 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  | 212'0"            | 4'7"              | 4'8" x 1'1"           | 2                | 28'4"          | 42'4"               |
| Forward Well  |                   |                   | 1'10" x 1'3"          | 6                |                |                     |
| <p>State position of each freeing port (F. and A. position and height above deck edge) { After Well:— 65' x 16' x 20' x 18' x 34' x 20' x 18' x 18' x 3' Poop<br/>Forward Well:— 5' x 8"</p> <p>State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— <i>Sill 8"</i><br/><i>Fitted with hinged shutters &amp; vertical bars.</i></p> <p>Additional area where sheer is less than standard.</p> |                   |                   |                       |                  |                |                     |

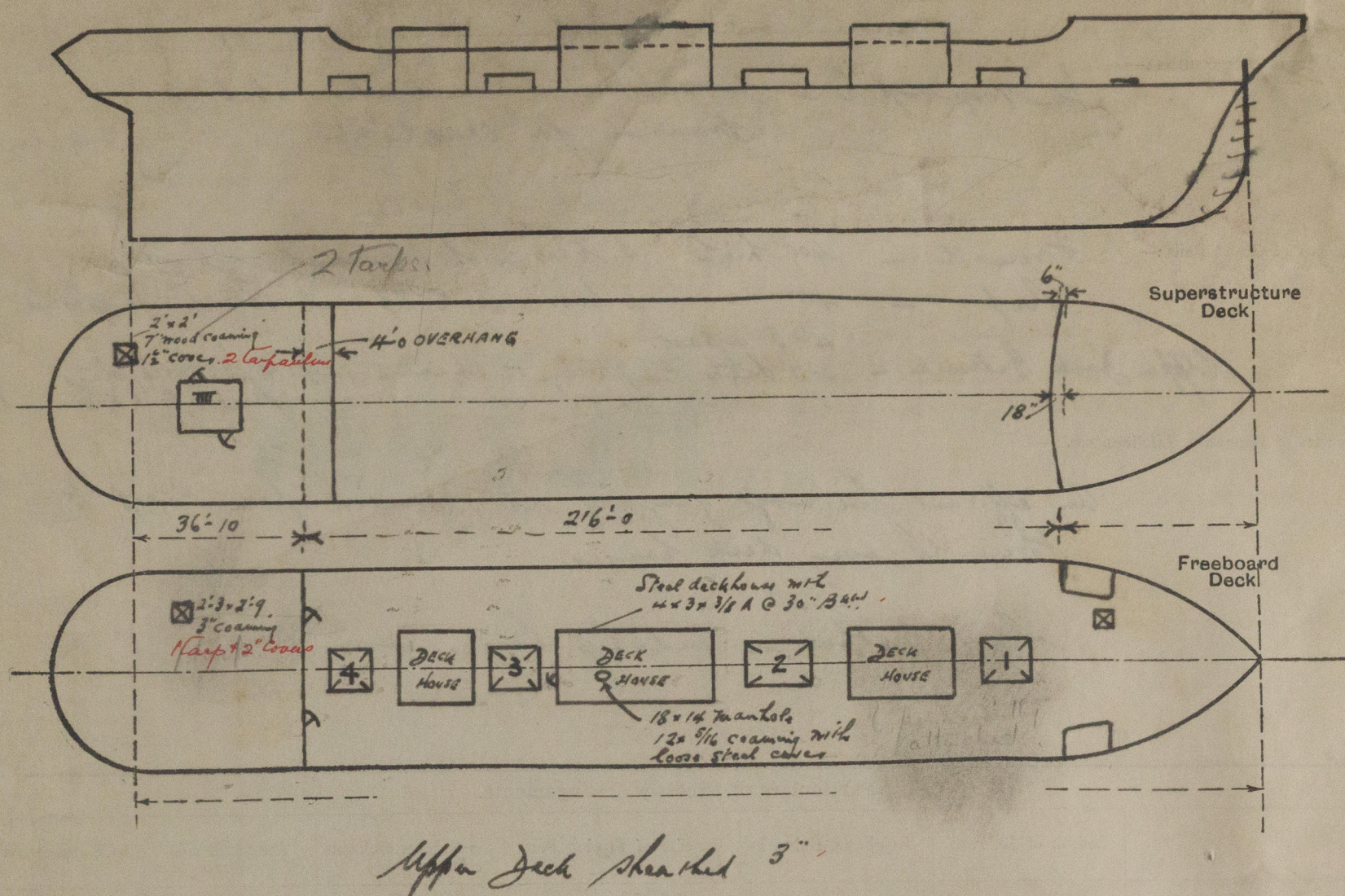
## Particulars of Superstructures, Trunks, Casings, Deckhouses.

|   | Coaming | Plating | Stiffeners  | Spacing | End Attachments of Stiffeners | Size of Openings | Height of Sills | Height of Casings |
|---|---------|---------|-------------|---------|-------------------------------|------------------|-----------------|-------------------|
| Poop Bulkhead   | 36      | 30      | 6 x 3 x 30A | 27"     | As to bottom                  | 28" x 25"        | 3'4"            | 7'3"              |
| 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   | <i>Hinged 1 1/2" framed wood (Teak) doors operated both sides. stiffened by 1/8" steel plate backing</i> |
| 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  | ✓  |

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:—

The S.S. 3<sup>rd</sup> No. 1 has been completed now except for the repair or replacement of 1 length of chain cable, which is to be dealt with at Travichano.

Builder's name and yard number

Soc. L. Mercio Racini Genoa No 28

Names of sister ships

Owners

G. Erikson

Fee £

10

4 0

Received by me

(A/c 21 AUG 1933)



© 2020

Lloyd's Register  
Foundation