

ROYAL EMBLEM 36192

SCEPTRE 35130

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

|  |                                  |   |               |                              |   |
|--|----------------------------------|---|---------------|------------------------------|---|
| Ship's Name<br><b>"GLENWOOD"</b>   | Official Number<br><b>167415</b> | Nationality and Port of Registry<br><b>BRITISH<br/>LONDON</b> | Gross Tonnage | Date of Build<br><b>1940</b> | Port of Survey  |
| Moulded Dimensions: Length <b>405.87</b> Breadth <b>57.96</b> Depth <b>36.33</b> |                                  |   |               |                              | Date of Survey <b>30-4-41</b>                                     |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth tons     |                                  |   |               |                              | Surveyor's Signature  |
| Coefficient of fineness for use with Tables <b>.743 (estimated)</b>              |                                  |   |               |                              | Particulars of Classification <b>+ 100 A1<br/>with freeboard.</b> |

| Depth for Freeboard (D).  | Depth correction.  | Round of Beam correction.   |
|---|--|---|
| Moulded depth ... <b>36.33</b>                                    | (a) Where D is greater than Table depth<br>(D - Table depth) R = <b>(36.38 - 27.06) 3.0 = +27.96</b> | Moulded Breadth (B) <b>57.96'</b>   |
| Stringer plate ... <b>.59"</b>                                    | (b) Where D is less than Table depth (if allowed) ✓<br>(Table depth - D) R = <b>9.32</b>             | Standard Round of Beam = $\frac{B \times 12}{50} = \mathbf{13.91''}$  |
| Sheathing on exposed deck<br>$T \left( \frac{L-S}{L} \right) =$ ✓ | If restricted by superstructures ✓   | Ship's Round of Beam = <b>14.00''</b>   |
| Depth for Freeboard (D) = <b>36.38</b>                            |  | Difference <b>.09''</b>   |
|   |  | Restricted to   |
|   |  | Correction = $\frac{\text{Diff}^o}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.09}{4} \times .4264 = \mathbf{-.02''}$ |

## DEDUCTION FOR SUPERSTRUCTURES.

|                         | Mean Covered Length (S) | Equivalent Enclosed Length (S <sub>1</sub> ) | Height      | Height Correction | Effective Length (E) |
|-------------------------|-------------------------|--|-------------|-------------------|----------------------|
| Poop enclosed ...       |                         |  |             |                   |                      |
| .. overhang ...         |                         |  |             |                   |                      |
| R.Q.D. enclosed ...     |                         |  |             |                   |                      |
| .. overhang ...         |                         |  |             |                   |                      |
| Bridge enclosed ...     |                         |  |             |                   |                      |
| .. overhang aft ...     |                         |  |             |                   |                      |
| .. overhang forward ... |                         |  |             |                   |                      |
| F'cle enclosed ...      | <b>29.87</b>            | <b>29.87</b>                                 | <b>6.75</b> | <b>6.75/2.5</b>   | <b>26.88</b>         |
| .. overhang ...         |                         |  |             |                   |                      |
| Trunk aft ...           |                         |  |             |                   |                      |
| .. forward ...          |                         |  |             |                   |                      |
| Tonnage opening aft ... |                         |  |             |                   |                      |
| .. forward ...          |                         |  |             |                   |                      |
| Total ...               | <b>29.87</b>            | <b>29.87</b>                                 |             |                   | <b>26.88</b>         |

Standard Height of Superstructure **7.5'**

.. .. R.Q.D. ✓

Deduction for complete superstructure **42.00'**

Percentage covered  $\frac{S}{L} = \mathbf{7.36}$

.. ..  $\frac{S_1}{L} = \mathbf{7.36}$

.. ..  $\frac{E}{L} = \mathbf{6.62}$

Percentage from Table, Line A. **3.31**

(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 = **42 x .0331 = -1.39'**

## SHEER CORRECTION.

| Station             | Standard Ordinate | S        | Product       | Actual Ordinate | Effective Ordinate | S        | Product       |
|---------------------|-------------------|----------|---------------|-----------------|--------------------|----------|---------------|
| A.P. ...            | <b>50.59</b>      | <b>1</b> | <b>50.59</b>  | <b>72.00</b>    | <b>50.59</b>       | <b>1</b> | <b>50.59</b>  |
| 1/4 L from A.P. ... | <b>22.51</b>      | <b>4</b> | <b>90.04</b>  | <b>32.00</b>    | <b>22.51</b>       | <b>4</b> | <b>90.04</b>  |
| 2/4 L ..            | <b>5.56</b>       | <b>2</b> | <b>11.12</b>  | <b>8.00</b>     | <b>5.56</b>        | <b>2</b> | <b>11.12</b>  |
| Amidships ...       | ✓                 | <b>4</b> | -             | -               | -                  | <b>4</b> | -             |
| 3/4 L from F.P. ... | <b>11.13</b>      | <b>2</b> | <b>22.26</b>  | <b>8.00</b>     | <b>8.</b>          | <b>2</b> | <b>16.00</b>  |
| 1/4 L ..            | <b>45.01</b>      | <b>4</b> | <b>180.08</b> | <b>32.00</b>    | <b>32</b>          | <b>4</b> | <b>128.00</b> |
| F.P. ...            | <b>101.17</b>     | <b>1</b> | <b>101.17</b> | <b>72.00</b>    | <b>72</b>          | <b>1</b> | <b>72.00</b>  |
| Total ...           |                   |          | <b>455.26</b> |                 |                    |          | <b>367.75</b> |

Mean actual sheer aft = **Excess**

Mean standard sheer aft =

Mean actual sheer forward = **Defc.**

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **Defc.**

.. .. aft of .. = **sheer**

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - \frac{S}{2L}}{.75} \right) = \frac{82.51}{18} \left( \frac{.75 - .0368}{.75} \right) = \mathbf{+3.4''}$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

|   |   |   |
|---|---|---|
| Deduction for Tropical Freeboard.   | Deduction for Fresh Water.                              | TABULAR FREEBOARD corrected for Fresh Deck (if required)    |
| Addition for Winter and Winter North Atlantic Freeboard.  | Displacement in salt water at summer load water line    | Correction for coefficient <b>.743 + .68 = 1.423 / 1.36</b> |
| Depth to Freeboard Deck = <b>36.38</b>  | Δ =   | Depth Correction ... <b>27.96</b>                           |
| Summer freeboard = <b>40.56</b>   | Tons per inch immersion at summer load water line       | Deduction for superstructures ... <b>1.39</b>               |
| Moulded draught (d) = <b>25.82</b>  | T =   | Sheer correction ... <b>3.4</b>                             |
| Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <b>6.46 = 6 1/2</b> | Deduction = $\frac{\Delta}{40 T}$ inches = <b>6 3/4</b> | Round of Beam correction ... <b>.02</b>                     |
| Addition for Winter North Atlantic Freeboard (if required) =  |   | Correction for Thickness of Deck amidships ... <b>17.86</b> |
|   |   | Other corrections, scantlings, etc. <b>5.00</b>             |
|   |   | Summer Freeboard = <b>126.75</b>                            |

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Water~~ Steel, Deck

|  |       |               |
|--|-------|---------------|
| Tropical Fresh Water Line above Centre of Disc | ...   | <b>13 1/4</b> |
| Fresh Water Line                               | ..    | <b>6 3/4</b>  |
| Tropical Line                                  | ..    | <b>6 1/2</b>  |
| Winter Line                                    | below | <b>6 1/2</b>  |
| Winter North Atlantic Line                     | ..    | <b>✓</b>      |

|                                |     |                 |
|--------------------------------|-----|-----------------|
| Tropical Fresh Water Freeboard | ... | <b>9-5 1/2</b>  |
| Fresh Water                    | ..  | <b>10-0</b>     |
| Tropical                       | ..  | <b>10-0 1/4</b> |
| Winter                         | ..  | <b>11-1 1/4</b> |
| Winter North Atlantic          | ..  | <b>✓</b>        |

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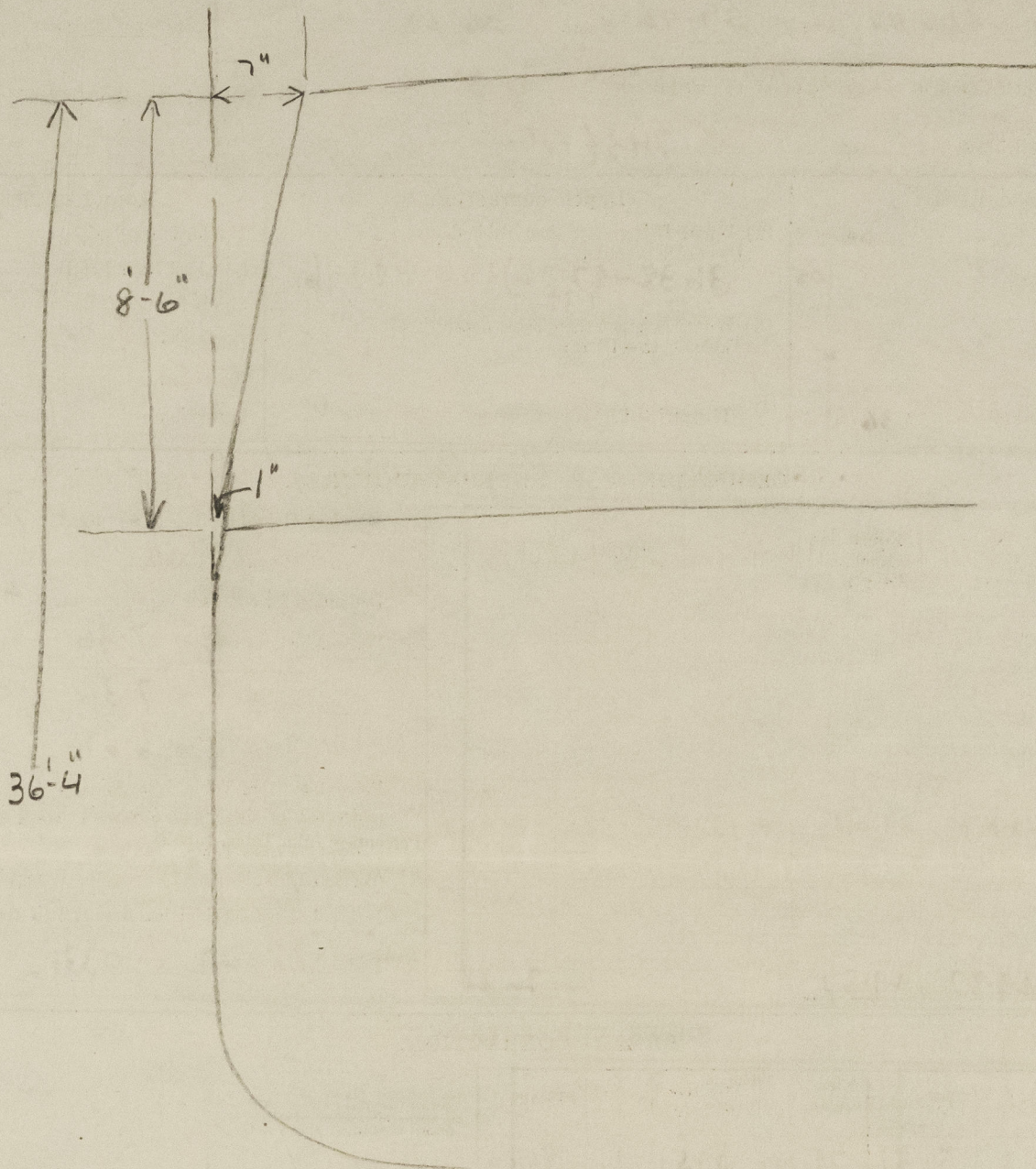


Glenwood.

GLENWOOD

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

LENGTH B.P. 405'-0" BTH. EXT. 58'-3" BTH. MLD. 57'-11 1/2"  
DEPTH MLD TO 2<sup>ND</sup> DK 27'-10"  
" " " " " 36'-4"



Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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