

St Elwyn 35812  
 Royal Sceptre 35130  
 Bretonessa 35944  
 Imvros 36179  
 Royal Emblem 36192  
 Thistlegorm 36276

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

MAR 14 1940

Index No. 36223  
(For London Office only).

No 32,819

Ship's Name <b>SS GLENWOOD</b>	Official Number <b>167415</b>	Nationality and Port of Registry <b>BRITISH LONDON</b>	Gross Tonnage <b>4897</b>	Date of Build <b>1940</b>	Port of Survey <b>Sunderland</b>
Moulded Dimensions: Length <b>405.87</b> Breadth <b>57.96</b> Depth <b>27.83</b>				Date of Survey <b>While Building</b>	
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>11370</b> tons				Surveyor's Signature <i>W. E. Miller</i>	
Coefficient of fineness for use with Tables <b>.715</b>				Particulars of Classification <b>+100 A.1. with freeboard contemplated</b>	

<b>Depth for Freeboard (D).</b> Moulded depth ... <b>27.83</b> Stringer plate ... <b>.39</b> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <b>.03</b> Depth for Freeboard (D) = <b>27.86</b>	<b>Depth correction.</b> (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(27.86 - 27.06) R = +2.40"$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures <b>✓</b>	<b>Round of Beam correction.</b> Moulded Breadth (B) <b>57.96</b> Standard Round of Beam = $\frac{B \times 12}{50} =$ <b>13.91</b> Ship's Round of Beam = <b>6"</b> Difference <b>Deficiency</b> <b>7.91</b> Restricted to Correction = $\frac{\text{Diff}^a}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ $\frac{7.91}{4} \times .0056 = +.01"$
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	39.25	39.25	8.5'	✓	39.25	
" overhang ...	.62	.31			.31	
R.Q.D. enclosed ...						
" overhang ...						
Bridge enclosed ...	361.62	361.62	8.5	✓	361.62	
" overhang aft ...	.30	.23			.23	
" overhang forward ...						
Fore enclosed ...						
" overhang ...						
Trunk aft ...						
" forward ...						
Tonnage opening aft ...	4.08	2.23			2.23	
" forward ...						
Total ...	405.87	403.64			403.64	

Standard Height of Superstructure	<b>7.5"</b>
" " R.Q.D.	<b>✓</b>
Deduction for complete superstructure	<b>42.00"</b>
Percentage covered $\frac{S}{L} =$	<b>100.00</b>
" $\frac{S_1}{L} =$	<b>99.44</b>
" $\frac{E}{L} =$	<b>99.44</b>
Percentage from Table, Line A. and B	<b>99.31</b>
(corrected for absence of forecastle (if required))	<b>✓</b>
Percentage from Table, Line B.	<b>✓</b>
(corrected for absence of forecastle (if required))	<b>✓</b>
Interpolation for bridge less than .2L (if required)	<b>✓</b>
Deduction =	<b>42.00 x .9931 = -41.91"</b>

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	50.59	1		50.59	72"	50.59	1		50.59
$\frac{1}{8}L$ from A.P. ...	22.51	4		90.04	32"	22.51	4		90.04
$\frac{2}{8}L$ " ...	5.56	2		11.12	8"	5.56	2		11.12
Amidships ...	-	4		-	0	-	4		-
$\frac{3}{8}L$ from F.P. ...	11.13	2		22.26	8"	9.24	2		18.48
$\frac{1}{8}L$ " ...	45.02	4		180.08	32"	37.38	4		149.52
F.P. ...	101.17	1		101.17	72"	84.60	1		84.60
Total ...				455.26					403.75

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) = \frac{51.51}{18} \times .25 = +.72"$

If limited on account of midship superstructure. **✓**

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

Mean actual sheer aft = **Excess**  
 Mean standard sheer aft = **Excess**  
 Mean actual sheer forward = **Deficient**  
 Mean standard sheer forward = **Deficient**

Length of enclosed superstructure forward of amidships = **c.s.s.**  
 " " aft of " = **c.s.s.**

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Depth to Freeboard Deck = <b>27.86</b> Summer freeboard = <b>3.04</b> Moulded draught (d) = <b>24.82</b> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <b>6.20" = 6<math>\frac{1}{4}"</math></b> Addition for Winter North Atlantic Freeboard (if required) = <b>✓</b>	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta = 12100$ Tons per inch immersion at summer load water line $T = 46.55$ Deduction = $\frac{\Delta}{40T}$ inches = <b>6.50</b> <b>= 6<math>\frac{1}{2}"</math></b>	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient $\frac{.715 + .68}{1.36} = \frac{1.395}{1.36}$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>2.40</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>41.71</td> </tr> <tr> <td>Sheer correction</td> <td>72</td> <td>-</td> </tr> <tr> <td>Round of Beam correction</td> <td>.01</td> <td>-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>3.13</td> <td>41.71</td> </tr> </table> Summer Freeboard = <b>36.62</b>		+	-	Depth Correction	2.40	-	Deduction for superstructures	-	41.71	Sheer correction	72	-	Round of Beam correction	.01	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		3.13	41.71
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## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ...	12 $\frac{3}{4}"$	Tropical Fresh Water Freeboard ...	1' - 11 $\frac{3}{4}"$
Fresh Water Line " " " "	6 $\frac{1}{2}"$	Fresh Water " " " "	1' - 6"
Tropical Line " " " "	6 $\frac{1}{4}"$	Tropical " " " "	1' - 6 $\frac{1}{4}"$
Winter Line below " " " "	6 $\frac{1}{4}"$	Winter " " " "	3' - 6 $\frac{1}{4}"$
Winter North Atlantic Line " " " "	✓	Winter North Atlantic " " " "	✓



S.S. 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.

Actual displacement at actual draft 25'0" = 12100 tons  
Tons Per Inch = 46.55

Trade of ship

Names of sister ships *5 1/2* ROYAL SCEPTRE, BRETHALDA, ST. ELWYN, ARGYLL, INVERNESS, BEECHWOOD, ROYAL EMBLEM, CONFIELD.

Builder's name and yard number *Messrs. Sir James Laing & Sons Ltd No 728*

Owners *John I. Jacobs & Co. Ltd.*

Fee £

*15*

*Will be charged on completion*



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